



Western University  
Division of Plastic & Reconstructive Surgery

Resident Handbook  
2018 – 2019



# Table of Contents

Introduction to Program.....	page 4
History of the Plastic & Reconstructive Surgery Program.....	page 5
Staff Bios, Clinical and Research Interests.....	page 6
Administrative Structure Roles	
Chair, Program Director, Program Administrator, Site Chiefs.....	page 20
Residency Training Committee .....	page 21
Terms of Reference.....	page 21
Subcommittees .....	page 21
Royal College of Physicians and Surgeons Examinations.....	page 22
Fellowships.....	page 23
Mentorship Program .....	page 24
Research	
Applying for Research Grants .....	page 25
Resident Research Day .....	page 25
Resident Reviews and Evaluations.....	page 26
Procedure Logging.....	page 26
Site Specific & Off-Service Rotation Objectives .....	page 26
Learning Objectives	
Off-Service Rotations	
AGIM.....	page 27
Anesthesia.....	page 30
Burns.....	page 34
CCTC.....	page 39
Community Plastics.....	page 43
Emergency Medicine .....	page 46
ENT.....	page 51
General Surgery.....	page 54
Oculoplastics .....	page 57
Oral Surgery .....	page 61
Orthopedic Surgery .....	page 61
Research .....	page 68
Trauma.....	page 70

## Table of Contents Cont'd

### St. Joseph's Health Centre

PGY2 Rotation.....	page 74
PGY3 Rotation.....	page 78
PGY4 Rotation.....	page 83
PGY5 Rotation.....	page 88

### University Hospital Campus

PGY2 Rotation.....	page 94
PGY3 Rotation.....	page 98
PGY4 Rotation.....	page 103
PGY5 Rotation.....	page 108

### Victoria Hospital Campus

PGY2 Rotation.....	page 113
PGY3 Rotation.....	page 117
PGY4 Rotation.....	page 121
PGY5 Rotation.....	page 125

Technical Skills Chart .....	page 129
------------------------------	----------

LHSC/SJHC Preoperative Testing Guidelines .....	page 130
---	----------

LHSC/SJHC Preadmission Indicators for Preoperative Consult To General Internal Medicine and Anaesthesia.....	page 131
---	----------

### Structure of Program

Resident Rotations .....	page 132
--------------------------	----------

Teaching Schedule and Information.....	page 133
--	----------

### Holidays and Conference Leave

Vacation Time .....	page 136
---------------------	----------

Religious Holidays.....	page 137
-------------------------	----------

Conferences and Meetings .....	page 139
--------------------------------	----------

PGME Resident/Fellow Travel Reimbursement Fund.....	page 139
---	----------

On-Call Responsibilities.....	page 141
-------------------------------	----------

PGME Resident Health and Safety Policy .....	page 142
--	----------

Guidelines for Appropriate Use of the Internet .....	page 147
--	----------

MSc in Surgery .....	page 148
----------------------	----------

Appendix: Internet Links for Policies and Guidelines .....	page 149
--	----------



*Division of Plastic and Reconstructive Surgery  
St. Joseph's Health Centre  
268 Grosvenor Street, London, ON N6A 4L6  
Telephone: (519) 646-6100 ext. 65683 Fax: (519) 646-6049*

July 1, 2018

Dear Resident:

We would like to welcome you to another academic year in the Division of Plastic Surgery at Western. The Division was started in 1959 by Dr. Robert M. McFarlane who served as Chair until he was succeeded by Dr. Larry Hurst. Many alumni of Western's training program are in practice across Canada in both community and academic settings.

The purpose of this handbook is to provide you with information to prepare you for the various stages of residency as well as to prepare for the Royal College examinations, postgraduate fellowships and ultimately, independent practice. Some decisions (such as fellowships) require planning a significant period of time before the actual commencement of the activity. Although as comprehensive as possible, if there are any questions that arise, you should feel completely comfortable asking any of the consultants about your concerns.

In general, the training program is run according to the principles of "graduated responsibility" as defined by the Royal College of Physicians and Surgeons of Canada. The concept of "graduated responsibility" relies on the self-recognition of a trainee when he/she is not yet able (or not experienced enough) to deal with a problem. While it is important for the trainee to assume responsibility, it is important that good communications with the staff exist while the resident takes care of their patients.

It is, of course, the intention that the level of knowledge increases as training progresses and thus increasing of "graduated responsibility" follows. This insight in one's own capabilities and limitations is one of the most important aspects of being a good physician and is perhaps fundamental to having "good judgment" and it should not stop at the end of residency. It is, therefore, generally considered a positive trait when a resident calls the staff in borderline, controversial, unusual or complicated cases, as this will reinforce their learning experience, their critical judgment and their self-confidence. If a resident exhibits this trait during training, it predicts future medical behaviour with sound judgment and the realization when to know when "one is out of his/her league".

We encourage a collegial relationship among residents and staff. If problems of any nature arise during your academic year, we hope you will bring them to our attention and allow us to help you in any way that we can. We hope you will enjoy the year!

Sincerely,

A handwritten signature in black ink that reads "D Ross".

**Douglas C. Ross, MD, MEd, FRCSC**  
Chair/Chief, Division of Plastic Surgery  
Western University

## **History of the Plastic & Reconstructive Surgery Program**

The Division of Plastic and Reconstructive Surgery at Western University was established in 1959 by the world-renowned hand surgeon Dr. Robert McFarlane. Since then, more than 70 plastic surgeons have been trained in London. These surgeons practice all over North America and the Middle East. Approximately 25% of these surgeons practice in academic centres, in their turn contributing to the training of a new generation of plastic surgeons.

The Division has a long tradition of excellence in clinical care and possesses subspecialty expertise in hand surgery, reconstructive microsurgery, breast surgery, adult and paediatric craniofacial surgery, burn care, peripheral nerve surgery, aesthetic surgery, wound healing, and cutaneous malignancies.

Division of Plastic & Reconstructive Surgery  
Staff and Faculty Bios &  
Clinical Interests

**Douglas Ross, MD MEd FRCSC (Division Chair)**

**Year of graduation from residency:** 1990

**Fellowship:** Hand surgery and Microsurgery (Toronto, Louisville)

**Areas of clinical interest:** Hand, reconstructive microsurgery, peripheral nerve surgery

**Research interests:** Clinical outcomes, surgical education

**Academic rank:** Professor

**Office address:**

Roth | McFarlane Hand & Upper Limb Centre  
St. Joseph's Health Care  
268 Grosvenor Street, Room D0-210  
London, Ontario N6A 4L6  
Phone: 519-646-6048  
Fax: 519-646-6049  
Administrative assistant: Susan Malecki

**Short personal bio:**

Dr. Ross is a graduate of the University of British Columbia (BSc, MD). After an internship at Toronto East General Hospital, he completed his plastic surgery training at the University of Toronto. This was followed by two years of fellowship training in Toronto (Hand and Microsurgery) and Louisville, Kentucky (Hand Surgery). He has been a faculty member at the University of Western Ontario since 1992.

He is Chair of the Division of Plastic Surgery at Western University and a staff member at the Hand and Upper Limb Centre at St. Joseph's Health Centre in London. He is a member of Manus Canada, the American Society for Surgery of the Hand, the American Society for Peripheral Nerve, the American Association for Hand Surgery and the American Society for Reconstructive Microsurgery. His clinical interests include upper extremity surgery, reconstructive microsurgery and peripheral nerve surgery.

In addition, he has a strong interest in surgical education. He completed a Masters of Education at the Ontario Institute for Studies in Education at the University of Toronto in 2004. He was a member of the Royal College of Physicians and Surgeons of Canada Examination Board in Plastic Surgery 2002 to 2013 and served as Chief Examiner 2008 to 2013. Other positions he presently holds at the Royal College include Vice-chair of the Specialty Committee in Plastic Surgery and Member of the Assessment Committee. He served as President for the Canadian Society of Plastic Surgeons for 2012-2013.

Dr. Ross is the past A.D. McLachlin Professor of Surgery in the University of Western Ontario.

## **Robert S. Richards, MD FRCSC**

**Year of graduation from residency:** 1990

**Fellowship:** Hand-wrist surgery, microsurgery, aesthetic surgery (London ON, Toronto, Los Angeles)

**Areas of clinical interest:** Hand and wrist surgery, aesthetic surgery

**Research interests:** Hand and wrist surgery, predictive factors of surgical outcomes

**Academic rank:** Associate Professor

### **Office address:**

Roth | McFarlane Hand & Upper Limb Centre  
St. Joseph's Health Care  
268 Grosvenor Street, Room D0-201  
London, Ontario N6A 4L6  
Phone: 519-646-6046  
Fax: 519-646-6049  
E-mail: [richard@uwo.ca](mailto:richard@uwo.ca)  
Administrative assistant: Dionne Turner

### **Short personal bio:**

Dr. Robert S. Richards obtained his MD from the University of Saskatchewan in 1983. He subsequently completed his plastic surgery training at the University of Alberta, finishing his plastic surgery specialty training in 1990. He completed additional fellowship training in aesthetic surgery in the United States and hand surgery at the University of Toronto and the University of Western Ontario.

Dr. Richards joined the attending staff of the Hand and Upper Limb Centre in 1993 and has been in practice continuously in London since that time. His clinical interests include hand and wrist surgery, nerve surgery, tumour surgery, endoscopic hand surgery, and endoscopic aesthetic plastic surgery. Since 2003 he has been the Program Director for Plastic Surgery Training at Western University and has been President of the Canadian Society for Surgery of the Hand since 2005. Current research interests include outcomes research and hand and wrist fractures.

## **Bing Siang Gan, MD PhD FRCSC FACS**

**Year of graduation from residency:** 1994

**Fellowship:** Microsurgical reconstruction and hand surgery (Toronto, Boston)

**Areas of clinical interest:** Hand and wrist surgery, reconstructive microsurgery, complex wound reconstruction

**Research interests:** Dupuytren's contracture, wound healing

**Academic rank:** Professor

### **Office address:**

Roth | McFarlane Hand & Upper Limb Centre  
St. Joseph's Health Care  
268 Grosvenor Street, Room D0-215  
London, Ontario N6A 4L6  
Phone: 519-646-6097  
Fax: 519-646-6049  
E-mail: [bsgan@rogers.com](mailto:bsgan@rogers.com)  
Administrative assistant: Nancy Bowman

### **Short personal bio:**

Dr. Gan graduated from the Medical Faculty at Erasmus University in Rotterdam, The Netherlands in 1988. He then went on to earn a PhD in Medical Sciences (Subspecialty Pharmacology and Experimental Therapeutics) from the University of Calgary. After a rotating internship at the Regina General Hospital in Regina, Saskatchewan, a residency in Plastic Surgery was completed at the University of Western Ontario Teaching Hospitals. This clinical training was followed by post-residency Fellowships in Microsurgical Reconstruction (Toronto General Hospital, University of Toronto) and Hand and Microsurgery (Massachusetts General Hospital, Harvard University), as well as a research post-doctoral fellowship (Department of Cell Biology, Hospital for Sick Children, University of Toronto).

Dr. Gan has been with the Hand and Upper Limb Centre at St. Joseph's Health centre since 1998 and has an academic practice focused on hand and wrist surgery, microsurgical reconstruction and complex wound reconstruction. In conjunction with Dr. David O'Gorman, he directs the HULC Cell and Molecular Biology Laboratory located in the Lawson Health Research Institute. Dr. Gan has a particular clinical and research interest in Dupuytren's contracture and treats a large number of Dupuytren's patients with different modalities including the so-called needle aponeurotomy. He is also interested in other fibrosing conditions, like hypertrophic scarring. His research program has been funded by a number of external agencies, including the American Society of Plastic Surgeons, Canadian Society for Surgery of the Hand, American Association for Hand Surgery, the National Science and Engineering Research Council and since 2002, the Canadian Institutes of Health Research. In 2012, he was the recipient of the Bernard Sarnat Award of Excellence from the Plastic Surgery Foundation of the American Society of Plastic Surgeons.



## **Christopher Doherty, MD MPH FRCSC (Research Director)**

**Year of graduation from residency:** 2013

**Fellowship:** Hand and upper extremity surgery (London)

**Areas of clinical interest:** Peripheral nerve surgery, hand and wrist surgery, reconstructive plastic surgery

**Research interests:** Clinical outcomes research, large database research, decision and cost-effectiveness analysis

**Academic rank:** Assistant Professor

### **Office address:**

Roth | McFarlane Hand & Upper Limb Centre  
St. Joseph's Health Care  
268 Grosvenor Street, Room D1-212  
London, Ontario N6A 4L6  
Phone: 519-646-6274  
Fax: 519-646-6049  
E-mail: [chrisdoherty1@me.com](mailto:chrisdoherty1@me.com)  
Administrative assistant: Desiree Chretien

### **Short personal bio:**

Dr. Doherty earned his medical degree (MD) at the University of Calgary. Following this, he completed residency training in Plastic Surgery at the University of Calgary. His clinical training is complimented by a Masters of Public Health from Harvard University. Dr. Doherty subsequently completed a fellowship at the Roth | McFarlane Hand and Upper Limb Centre in London, Ontario. His specific research interests are in the areas of peripheral nerve surgery and efficient delivery of healthcare.

## **Brian Evans, MD FRCS**

**Year of graduation from residency:** 1981

**Fellowship:** Hand surgery, microsurgery, head and neck surgery (London, San Francisco, Glasgow)

**Areas of clinical interest:** Breast surgery including microsurgical reconstruction of the breast, hand surgery, and aesthetic surgery

**Research interests:** Breast reconstruction

**Academic rank:** Associate Professor

**Office address:**

LHSC - University Hospital Campus  
339 Windermere Road, Room B8-030

P.O. Box 5339

London, Ontario N6A 5A5

Phone: 519-663-2919

Fax: 519-663-3748

E-mail: [brian.evans@lhsc.on.ca](mailto:brian.evans@lhsc.on.ca)

Administrative assistants: Tracey Doak and Lisa Michitsch

## **Aaron Grant, MD FRCSC (Assistant Program Director)**

**Year of graduation from residency:** 2013

**Fellowship:** Reconstructive Microsurgery and Plastic Surgery Oncology (Winnipeg, Calgary)

**Areas of clinical interest:** Breast surgery including microsurgical reconstruction of the breast, hand surgery, and aesthetic surgery

**Research interests:** Breast reconstruction

**Academic rank:** Associate Professor

**Office address:**

LHSC - University Hospital Campus  
339 Windermere Road, Room A8-030  
P.O. Box 5339  
London, Ontario N6A 5A5  
Phone: 519-663-3321  
Fax: 519-663-3289  
E-mail: [aaron.grant@lhsc.on.ca](mailto:aaron.grant@lhsc.on.ca)

Administrative assistant: Sonya Przewieda

**Short personal bio:**

Dr. Aaron Grant is originally from Bay Roberts, Newfoundland, and completed medical school in his home province at Memorial University. He moved to London, Ontario to complete Plastic Surgery residency training at the Schulich School of Medicine and Dentistry, Western University. He then trained in Winnipeg, Manitoba, finishing a fellowship in Reconstructive Microsurgery at the University of Manitoba. Dr. Grant also completed a Plastic Surgery Oncology fellowship at the Tom Baker Cancer Centre in Calgary, Alberta.

Currently Dr. Grant is part of the Western University Division of Plastic Surgery and based out of University Hospital. His clinical and research interests lie mainly in the study of melanoma, breast reconstruction, and surgical education.

## **Christopher Scilley, MD FRCSC (Retired)**

**Year of graduation from residency:** 1986

**Fellowship:** Burn reconstruction and microsurgery (Cincinnati and Norfolk)

**Areas of clinical interest:** Breast reconstruction, nerve injuries including brachial plexus, burns hand injury (adult and pediatric), difficult wounds, diabetic foot, pressure sores

**Academic rank:** Associate Professor

**Office address:**

LHSC - Victoria Campus  
800 Commissioners Road East  
P.O. Box 5010  
London, Ontario N6A 5W9  
E-mail: [cscilley@uwo.ca](mailto:cscilley@uwo.ca)

## **Damir B. Matic, MD MSc FRCSC**

**Year of graduation from residency:** 2000

**Fellowship:** Craniofacial surgery (Baltimore)

**Areas of clinical interest:** Cleft lip and palate, craniosynostosis, craniofacial anomalies, adult cranio-maxillofacial reconstruction, orthognathic surgery, general and facial cosmetic surgery

**Research interests:** clinical projects on cleft lip and palate, facial nerve, facial trauma, fat injections

**Academic rank:** Associate Professor

### **Office address:**

LHSC - Victoria Hospital  
800 Commissioners Road East  
London, Ontario N6A 4G5  
Phone: 519-685-8557  
Fax: 519-685-8405  
E-mail: [damir.matic@lhsc.on.ca](mailto:damir.matic@lhsc.on.ca)  
Administrative assistant: Vicky Bossenberry

### **Short personal bio:**

Dr. Matic finished both his medical school and residency training in Plastic Surgery at the University of Toronto. He completed a fellowship in craniofacial surgery at Johns Hopkins Hospital and at the University of Maryland. After working at St. Michael's Hospital in Toronto for a year he moved to London in 2002. In his first three years in London he also completed a Master's of Science at UWO in the Department of Medical Biophysics.

His primary clinical interests are cleft lip and palate as well as all aspects of paediatric craniofacial surgery. Dr. Matic also has expertise in all forms of aesthetic surgery with a special interest in facial rejuvenation procedures including facelift, browlift, blepharoplasty (eyelids), rhinoplasty (nose job), and chin, jaw, and cheek enhancements. Other commonly performed procedures include breast surgery such as mastopexy (breast lift) and augmentation (enhancement) and body contouring and sculpting procedures such as abdominoplasty (tummy tuck) and liposuction. Scar revisions and cosmetic mole removals are also performed.

Dr. Matic's current research interests include clinical projects on cleft lip and palate as well as facial nerve, facial trauma, and fat injections. Dr. Matic directs the Synthes craniofacial fellowship at Western University. Dr. Matic is the Research Director for the Division of Plastic Surgery.

## **Arjang Yazdani, MD FRCSC (Program Director)**

**Year of graduation from residency:** 2006

**Fellowship:** Craniofacial and paediatric plastic surgery (Dallas TX)

**Areas of clinical interest:** Paediatric and adult craniofacial surgery, pediatric plastic surgery, ear reconstruction, vascular anomalies, cosmetic surgery

**Research interests:** Paediatric and adult craniofacial surgery, pediatric plastic surgery, ear reconstruction, vascular anomalies, cosmetic surgery

**Academic rank:** Associate Professor

### **Office address:**

LHSC - Victoria Hospital  
800 Commissioners Road East, Room E2-647  
London, Ontario N6A 4G5  
Phone: 519-685-8320  
Fax: 519-685-8322  
E-mail: [Arjang.Yazdani@lhsc.on.ca](mailto:Arjang.Yazdani@lhsc.on.ca)  
Administrative assistant:

### **Short personal bio:**

Dr. Arjang Yazdani earned his MD from McMaster University in 2000 and completed residency training in plastic surgery at The University of Western Ontario in 2006. He became a Fellow of the Royal College of Surgeons of Canada in 2007 and obtained Fellowship training in craniofacial and pediatric plastic surgery from The University of Texas, Southwestern in Dallas, which included cosmetic surgery and laser medicine from one of the world's foremost cosmetic surgery groups. Dr. Yazdani joined the Division of Plastic Surgery at Western University in September 2007. His office is located at Victoria Hospital of the London Health Sciences Centre.

Dr. Yazdani's focus is on facial reconstruction in children and adults. He has an interest in facial trauma and post-traumatic facial deformities including nasal reconstruction and rhinoplasty. His pediatric practice involves ear reconstruction and vascular anomalies.

Division of Plastic & Reconstructive Surgery  
Collaborating Scientists Bios &  
Research Interests

**Joy MacDermid, BScPT MSc PhD**

**Year of graduation from doctoral degree:** 1999

**Research interests:** see below

**Academic rank:** Professor

**Office address:**

Lawson Health Research Institute  
268 Grosvenor Street, Room DB-222  
London, Ontario N6A 4L6  
Phone: 519-646-6100 Ext: 64636 (**Office HULC**)  
Fax: 519-646-6049  
E-mail: [jmacderm@uwo.ca](mailto:jmacderm@uwo.ca)

School of Rehabilitation Science  
Room 429, IAHS McMaster University  
Hamilton, Ontario L8S 1C7  
Phone: 905-525-9410 Ext: 22524 (**Office McMaster**)  
Fax: 905-524-0069  
E-mail: [macderj@mcmaster.ca](mailto:macderj@mcmaster.ca)

**Short personal bio:**

Joy MacDermid is a physical therapist, hand therapist, epidemiologist and holds a CIHR New Investigator Award. She is Co-director of the Clinical Research Lab within the Hand and Upper Limb Centre (HULC) and also an Associate Professor (School of Rehabilitation Science) at McMaster University. She is cross-appointed to Departments of Surgery and Epidemiology at both McMaster University and Western University. Her research projects address clinical questions related to enhancing prevention, assessment and management of musculoskeletal disorders and related work disability.

Specific research interests include: understanding factors that contribute to upper extremity disability surgery and rehabilitation intervention effectiveness, randomized clinical trials/trial methodology, cohort outcomes studies, psychometrics of clinical measurement (performance or self-report, measures of pain/disability/quality-of-life), clinical epidemiology, clinical practice guidelines, and knowledge transfer. Courses developed and taught include upper extremity clinical skills research and evidence-based practice, quality-of-life (measurement/research), knowledge exchange, and transfer.

## **David B. O’Gorman, MSc PhD**

**Year of graduation from doctoral degree:** 2001

**Postdoctoral Fellowship:** 2001-2003, 2003-2005 Children's Health Research Institute

**Research interests:** Dupuytren's contracture, Wound healing, Fibrosis, Extracellular matrix-Growth Factor interactions

**Academic rank:** Assistant Professor

### **Office address:**

Lawson Health Research Institute

St. Joseph's Health Care

268 Grosvenor Street, Room E2-137

London, Ontario N6A 4L6

Phone: 519-646-6100 Ext: 64397 (Office)

Phone: 519-646-6100 Ext: 65347 (Lab)

Fax: 519-646-6049

E-mail: [dogorman@uwo.ca](mailto:dogorman@uwo.ca)

Laboratory Webpage: <http://www.uwo.ca/surgery/plastics/HULCcellmollab/index.htm>

### **Laboratory Info:**

The Cell and Molecular Biology laboratory of the Hand and Upper Limb Center is co-directed by Dr. Bing Siang Gan, a plastic surgeon and physician/scientist, and Dr. David O’Gorman, a molecular biologist. The primary research interests of the lab are the molecular mechanisms that promote Dupuytren's disease progression and recurrence, and fibroproliferative conditions such as hypertrophic scarring and frozen shoulder syndrome. Cell and Molecular Biology lab personnel are skilled in the isolation and culture of primary cells from surgically resected tissues onto collagen and other culture substrates that more closely mimic their in vivo origins. The cell culture facility includes a Flexcell unit, allowing us to mimic biomechanical interactions of primary cells in two and three-dimensional environments under physiologically relevant stress. The lab has expertise in assessing DNA, RNA and protein expression, interactions and signaling pathway analyses. Finally, the lab has a deconvolution fluorescence microscope unit for two and three-dimensional imaging of primary cells in culture.

Residents and other staff with interests in the molecule mechanisms of scarring, Dupuytren's disease and other fibroproliferative diseases are welcome discuss their research goals with Drs. Gan and O’Gorman. The lab offers training in primary cell culture and a variety of molecular biology techniques including DNA/RNA isolation, real-time PCR quantification, chromatin immunoprecipitation, western immunoblotting, immunofluorescence microscopy, and a variety of cell proliferation, differentiation and apoptosis assays.

### **Short personal bio:**

Subsequent to training in clinical biochemistry as a medical technologist, Dr. O’Gorman graduated with a PhD from the Department of Molecular Medicine, Faculty of Medicine, at the University of Sydney, Australia, in 2001. He arrived in Canada in 2001 as a Post-Doctoral Fellow in the Lawson Health Research Institute and was a recipient of the Dr. David W. Whaley Post-Doctoral Fellowship 2003-2005. He was appointed to the Division of Plastic Surgery in the Department of Surgery in 2005 and the Department of Biochemistry at Western University in 2007. With Dr. Bing Siang Gan, he directs the HULC Cell and Molecular Biology Laboratory with a research focus on Dupuytren's contracture and abnormal wound healing conditions such as hypertrophic scarring. Since 2007, Dr. O’Gorman's research has been funded by the American Society of Plastic Surgeons, Canadian Society for Surgery of the Hand, and the Canadian Institutes of Health Research.



## **David Holdsworth, BSc MSc PhD**

**Year of graduation from doctoral degree:** 1992

**Research interests:** see below

**Academic rank:** Professor

**Office address:**

Robarts Research Institute  
Room 1254C, 100 Perth Drive  
London, ON N6A 5K8  
Phone: 519-931-5777 Ext. 24154  
Fax: 519-931-5713  
E-mail: [david.holdsworth@imaging.robarts.ca](mailto:david.holdsworth@imaging.robarts.ca)  
Website: [www.imaging.robarts.ca/~dholdsw](http://www.imaging.robarts.ca/~dholdsw)

**Short personal bio:**

Dr. David Holdsworth is a Scientist in the Imaging group at the Robarts Research Institute. He is also a Professor in the Departments of Surgery and Medical Biophysics in the Schulich School of Medicine and Dentistry, at Western University. For most of the past 15 years, Dr. Holdsworth has been involved in the development of vascular imaging systems, for use in stroke diagnosis and therapy. In 2007 Dr. Holdsworth became the Dr. Sandy Kirkley Chair in Musculoskeletal Research and has shifted the focus of his research to musculoskeletal disease, with projects ranging from basic skeletal research to clinical therapy. Dr. Holdsworth and his team have developed new methods for musculoskeletal disease detection and treatment for both basic pre-clinical and clinical applications. With collaborators in surgery and engineering, he is developing new techniques to image the interface between bones and metal implants, and to improve techniques for radiostereometric analysis following joint replacement.

## **Eva Turley, PhD**

**Year of graduation from doctoral degree:** 1976

**Research interests:** see below

**Academic rank:** Professor

### **Office address:**

London Regional Cancer Program  
Room A4-931A, Cancer Research Laboratory Program  
790 Commissioners Road East  
London, Ontario  
Canada N6A 4L6  
Phone: 519.685.8600 ext. 53677  
Fax: 519.685.8646  
E-mail: [eva.turley@lhsc.on.ca](mailto:eva.turley@lhsc.on.ca)  
Website: [http://www.lhsc.on.ca/Research\\_Training/LRCP/Research\\_Scientists/ETurley.htm](http://www.lhsc.on.ca/Research_Training/LRCP/Research_Scientists/ETurley.htm)

### **Short personal bio:**

Dr. Eva Turley has received training in cell biology (pHD), polysaccharide biochemistry (post-doctoral fellowship) and molecular biology (sabbatical leave with Dr. Hook, University of Alabama) and tissue biology (sabbatical leave with Dr. M. Bissell, LBNL, Berkeley). Early in her career she developed an interest in translational research and has trained a number of clinical fellows (Dr. D. Bagli, University of Toronto, Dr. R. Savani, UT Southwestern) and has been involved as a consultant or founder in the development of several companies (e.g. Hyal Pharma Inc., Transition Therapeutics Inc., Evashi Inc.) to aid in the clinical development of basic research findings.

Her research interests have centred upon the biology of the polysaccharide, hyaluronan as well as its receptors, CD44 and RHAMM. Her laboratory was the first to demonstrate that hyaluronan activates signalling cascades (protein tyrosine phosphorylation) in cells expressing receptors and they also isolated, characterized and cloned RHAMM, which was the first cellular hyaluronan receptor identified. Following these discoveries, her team focused upon the roles of hyaluronan/RHAMM/CD44 interactions in the control of cell migration during wound repair and tumour progression. For example, they have most recently been investigating the influence of hyaluronan and RHAMM in the repair of skin excisional wounds and assessing the effects/drug delivery capability of promoting the formation hyaluronan coats around cells using a unique, non-particulate hyaluronan/phospholipid formulation. In collaboration with other groups, they have developed reagents to modify the course of skin repair, including hyaluronan peptide mimics, RHAMM peptide mimics and pro-migratory hyaluronan oligosaccharides.

## Thomas R. Jenkyn, PhD P.Eng

**Year of graduation from doctoral degree:** 1999

**Research interests:** 'In vivo' biomechanics; functional medical imaging; fluoroscopic radiostereometric analysis and small-scale cartilage motions; gait and motion analysis; orthopaedic biomechanics; trauma and sports injuries; disabilities resulting from osteoarthritis; skeletal muscle function; inverse dynamic modeling; surgical simulation and outcome measures.

**Academic rank:** Associate Professor

### **Office address:**

Department of Mechanical and Materials Engineering  
Faculty of Engineering - Western University  
Spencer Engineering Building, Room 2075  
London, Ontario  
Canada N6A 5B9  
Phone: 519.661.2111 ext. 88339  
Lab Ext. 81122 (WOBL)  
Lab Ext. 82796 (WOQIL)  
Fax: 519.661.3020  
E-mail: [tjenkyn@eng.uwo.ca](mailto:tjenkyn@eng.uwo.ca)  
Website: <http://www.eng.uwo.ca/people/tjenkyn/>

### **Short personal bio:**

Dr. Jenkyn is Co-Director of the Wolf Orthopaedic Biomechanics Laboratory (WOBL) and Director of the Wolf Orthopaedic Quantitative Imaging Laboratory (WOQIL), both of which study orthopaedic patients at the Fowler Kennedy Sport Medicine Clinic (FKSMC). The WOQIL is unique in Canada in that it combines 3D bi-planar fluoroscopic imaging with optical motion analysis, a force instrumented treadmill and pressure measurement. His overall goal is to quantify in-vivo motion and loading of bones within articular joints to identify the biomechanical causes of osteoarthritis and other musculoskeletal disorders. He is active in four areas: 1) 3D fluoroscopic radiostereometric analysis (f-RSA) for use in biomechanics, 2) motion analysis of the joints of the foot, 3) optical gait analysis of knee osteoarthritis, and 4) biomechanical analysis of elite and recreational sport.

## **Administrative Structure Roles:**

**Program Chair:** Dr. Doug Ross

**Program Director:** Dr. Arjang Yazdani

**Assistant Program Director:** Dr. Aaron Grant

**Residency Research Director:** Dr. Chris Doherty

### **Site Chiefs:**

*St. Joseph's Campus:* Dr. Doug Ross

*University Campus:* Dr. Brian Evans

*Victoria Campus:* Dr. Arjang Yazdani

**Program Administrator:** Mindy Minka

Room D1-204

St. Joseph's Health Care

268 Grosvenor Street

London, ON N6A 4L6

Phone: (519) 646-6100 ext. 65683

Fax: (519) 646-6049

[mindy.minka@sjhc.london.on.ca](mailto:mindy.minka@sjhc.london.on.ca)

## **Residency Training Committee:**

### Terms of Reference:

The Residency Training Committee (RTC) of the Division of Plastic Surgery acts as a collaborative body of residents within the training program and the consultants. The scope of the Committee is to review, assess and oversee all aspects of the educational program of the Division and act as a resource to assist and guide the Program Director to enhance the educational experience for all residents.

### Membership:

The Committee will include one resident representative from each training year within the Program as well as one representative from the International Sponsored Resident(s)/International Medical Graduate(s) within the program (during such period as there are such residents within the program). There will be one consultant representatives from each of the three teaching sites as well as the Program Director (Chair) and the Assistant Program Director.

### Subcommittees:

- i) Resident Selection Committee: The RTC will appoint two resident representatives and 2-4 consultant representatives who will act as the committee responsible for reviewing CaRMS applications as well as interviewing and ranking applicants.
- ii) Resident Evaluation Committee: This committee will consist of the Administrative Chief Resident as well as the Program Director and a consultant representative from each site. While it is recognized that the principle forms of formative and summative evaluations will occur during each resident's specific rotations, this committee will ensure such evaluations are fair and appropriate. In addition, the Committee will review each resident's progress for suitability for advancement to the next year of training. This committee will meet two times each year; in June and December.

### Functions:

The Committee functions to oversee all aspects of resident education. As such, the Committee will advise the program director on matters such as rotation choices, evaluation, didactic program teaching, and resident-consultant interactions. Residents who have any concerns about their educational experience should bring the matter to their appropriate resident representative to be discussed and reviewed at the Committee.

As per the Schulich School's revised Schulich School of Medicine & Dentistry Postgraduate Medical Education Resident Evaluation and Appeals Policy, the RTC will act as the first body of appeal for a resident who has received either a "Fails to Meet Expectations" or "Borderline" rating in a final In-Training Evaluation at the completion of a rotation. In addition, the RTC will be the first body of appeal for residents who have completed a period of remediation and received an evaluation of "Fails to Meet Expectations".

## **Executive Committee:**

This is a committee comprised of all plastic surgeons within the Division. It is mainly a forum to discuss administrative issues such as the impact of hospital reorganization upon the Division. Discussion with respect to residents' evaluations occurs at this level as well.

## Royal College of Physicians & Surgeons Examinations

To be a specialist certified by the Royal College, you must complete the Surgical Foundations as well as the "final" Royal College Examinations in Plastic Surgery. To quote the Royal College, "Please note, above all, that neither the Royal College nor your university can initiate the assessment process for a resident. It is your responsibility, as a resident, to establish and maintain your professional relationship with the Royal College". This means that you must complete the various stages of application.

The first step of this is to have your residency training assessed by the Royal College to ensure that the specialty specific training requirements have been met. This is a formality as your training will be guided and accredited by our training program but it is still an important step. The requirements and instructions for the Preliminary Assessment of Training are available at: [http://www.royalcollege.ca/portal/page/portal/rc/common/documents/credentials/preliminary\\_assessment\\_application.pdf](http://www.royalcollege.ca/portal/page/portal/rc/common/documents/credentials/preliminary_assessment_application.pdf). Note that for Plastic Surgery, this must be complete in order to write the Surgical Foundations examination (April of your PGY2 year) and at the time of this writing, the application must be received by the College by April 30<sup>th</sup> in the year prior to you writing the examination (i.e. April 30<sup>th</sup>, 2019 for the Surgical Foundations examination in Spring, 2020).

If you have completed the Surgical Foundations Examination, to write the final Royal College examinations, you do not need to complete another application for Preliminary Assessment of Training. However, you do need to contact the Credentials Unit at the Royal College by April 30<sup>th</sup> of the year prior to your final examinations ([credentials@royalcollege.ca](mailto:credentials@royalcollege.ca)) to continue assessment of your final years of training. The information required is outlined on the webpage given above.

To be eligible to write the qualifying examinations in Plastic Surgery, your training program must complete a Final In-Training Evaluation Report (FITER). The statement that the College requires your program to confirm is: "*In the view of the Residency Program Committee, this resident has acquired the competencies of the specialty as prescribed in the Objectives of Training and is competent to practice as a specialist*". It is extremely rare that this statement would not be confirmed by our training program for a PGY5 resident. You will be required to review and sign your FITER prior to its submission to the College in February of the year you are writing your examination. Note that FITERs are not utilized by the examination board for any candidates that either clearly pass or clearly fail the examination. They are only reviewed (anonymously) for candidates who finish their examination in a "Borderline" category. In particular, your examiners do not review your FITER nor even know which training program you are from.

At present, registration for the final examination in plastic surgery must be completed by February 1<sup>st</sup> in the year in which you are taking the examination (i.e. February 1<sup>st</sup>, 2019 for examination in March/April, 2019). However, you are **STRONGLY** advised to complete the process well before this deadline. Late registrations will not be accepted by the College under any circumstances.

## Planning for Fellowships

At the completion of your residency at Western, you will be ready to enter independent practice without further fellowship training. However, a fellowship does provide you with an opportunity to enhance your skills and knowledge in a particular field which can be a particularly satisfying part of your practice. Many moderate and larger community practice groups will want new members to bring specialized skills which then enhance the expertise of the group as a whole. Each university and academic program will have its own particular criteria for recruitment, but, in general, a year of fellowship training is a minimum for an academic position.

If you anticipate that you want to pursue fellowship training, you should start to seriously consider your choices in the fall of your PGY4 year. Some clinical areas (e.g. hand surgery, microsurgery) have formal fellowship matches and these may be *completed* as much as 15 months (i.e. spring of your PGY4 year) prior to starting.

In addition, for fellowships in the United States, a work visa will be required and this can be time consuming with deadlines that are sometimes difficult to complete in time for your fellowship to begin. In general, Canadian graduates can apply for either a "J-1" or an "H1-B" visa. The former is an educational visa which requires that the recipient return to their home country for at least two years prior to applying for a change in their visa status. The latter allows you to apply for a change in visa status at any time. Practically, many American fellowships now fund their fellows by having them bill assistants' fees and this requires that the fellow have an H-1B visa. J-1 visas can be secured largely by the applicant whereas H-1B visas require significant time and effort on the part of the fellowship program. Finally, for American fellowships, as part of your visa requirement, you will require completion of the USMLE parts I and II. More information may be found at:

<http://www.ama-assn.org/ama/pub/about-ama/our-people/member-groups-sections/international-medical-graduates/practicing-medicine/immigration-information-imgs.page>

<http://www.ecfm.org/evsp/index.html>

### *Types of Fellowships:*

Fellowships tend to be focused on specific clinical areas such as craniofacial surgery, hand surgery, etc. Obtaining a fellowship in "general plastic surgery" is difficult and typically requires contact with specific training programs on an ad hoc basis. Many of the staff consultants could assist you with advice in this area if you wish.

There are several plastic surgery fellowship matches and these include:

1) Craniofacial Surgery (deadline November prior to commencing in July):

[https://www.sfmatch.org/SpecialtyInsideAll.aspx?id=9&typ=1&name=Craniofacial Surgery](https://www.sfmatch.org/SpecialtyInsideAll.aspx?id=9&typ=1&name=Craniofacial%20Surgery)

See also: <http://ascfs.org/fellowships.cgi>

2) Microsurgery (deadline November prior to commencing in July):

<http://www.microsurg.org/fellowships/match/>

3) Hand Surgery (Application begins in January of year *prior* to beginning fellowship):  
<http://www.assh.org/Professionals/Education/ResidentsandFellows/Pages/FellowshipPrograms.aspx>

#### Non-Match Fellowships:

Many fellowships are not done through any type of matching service and advice about specific areas and programs may be acquired by discussing things with the program director and other consultants. The Canadian Society of Plastic Surgeons maintains a listing of Canadian fellowship positions which is available at: <http://plasticsurgery.ca/medical-professionals/fellowships/>. This is generally not a complete listing and more information may be acquired by discussion with the program director and other consultants.

Although not a matching service, a listing of American aesthetic surgery fellowships is available at: <http://www.surgery.org/professionals/residents/aesthetic-fellowships>

<http://acaplasticsurgeons.org/jobs/>

### **Mentorship Program**

The resident mentorship program is intended to provide residents with guidance and advice about career, family, and residency in an informal setting. Residents are strongly encouraged to choose a staff mentor at the start of residency; staff are encouraged to initiate informal meetings at least a couple times throughout the year. The goal of this program is to encourage happiness, fulfillment and excellence in our residents.



## Research

### **Applying for Research Grants:**

Applying for a research grant can be an educational experience for you as a resident. It requires a synthesis of ideas and a succinct explanation of your research proposal that can serve to crystallize and focus your experimental plan.

For resident based research projects, there are a few funding agencies that are more "resident friendly" and may be the primary focus of your applications. Some of the more common ones include:

- 1) Canadian Society of Plastic Surgeons Educational Foundation: A grant of up to \$10,000 is awarded annually and at this time is for Outcomes Research or Clinical Projects (ie. not Basic Science). Residents are eligible to apply but must be "sponsored" by a CSPS member (any consultant at Western). The application form is not onerous. The application deadline is typically in early May. More information is available at: <http://plasticsurgery.ca/educational-foundation/clinical-outcomes-research-grant/>
- 2) Physicians Services Incorporated (PSI): This foundation was established by Ontario physicians in 1970. "Resident Research Grants" are available up to a total of \$20,000 and are open to three specific areas: Clinical Research, Medical Education Research and Development, and Health Systems Research. Application deadlines are in March, June and September each year. More information and an application can be found at: <http://www.psfoundation.org/ResidentResearchGrants.html>
- 3) American Society for Surgery of the Hand Resident and Fellow Fast-track Seed Grants: The ASSH Foundation provides up to \$4,000 "to seed innovative projects related to hand surgery". Application deadline is August 1<sup>st</sup>. Instructions for applications can be found at: <http://www.assh.org/Professionals/Research/Grants/Pages/Resident-Seed-Grants.aspx>
- 4) American Association for Hand Surgery Annual Research Grant: This grant is available to residents "to foster creativity and innovation in basic and/or clinical research in all areas pertinent to hand surgery". Awards are available up to \$10,000. Application available at: <http://handsurgery.org/grants/research.cgi>

### **Resident Research Day:**

Each resident is required to prepare a research project for presentation at the Annual Plastic Surgery Residents' Day (typically held in May or June). **This is a requirement for progression in each year.** Presentations cannot be case reports and all projects are required to involve one of the staff plastic surgeons (at least peripherally if not the primary supervisor). Residents will also be required to give a brief, 5-minute presentation of their chosen research topic during Grand Rounds in the fall. This should include a 3-slide presentation; 1) the title and introduction of project, 2) proposed methodology, and 3) expected results.

Residents are strongly encouraged to organize a research project early in the academic year to be ready for the spring. This is particularly true for residents in their PGY5 year who will be writing exams near the completion of their final year.

## **Resident Reviews and Evaluations**

Evaluations are conducted at the completion of each rotation on standard forms containing rotation specific objectives. Residents are encouraged to discuss learning objectives at the start of each rotation. In addition, mid-rotation evaluations will be scheduled. The Postgraduate Medical Education Committee has developed a process which must be followed for any unsatisfactory evaluation received by any resident (see Appendix).

In addition to evaluations, reviews will be scheduled with the Program Director two times per year, the purpose of which will be to discuss career objectives and will be oriented to each resident on a more personal level. These are solely for the benefit of the resident and as such, missed reviews will not be rescheduled.

### Procedure Logging:

Residents are expected to be logging their procedures in New Innovations on a regular basis. These procedure logs are used for evaluation purposes both at the end of each rotation and for the bi-annual Resident Evaluation Subcommittee meetings. A report will be generated a week prior to the end of each rotation; residents are strongly encouraged to keep their logs up to date throughout the year.

## **Site Specific & Off-Service Rotation Objectives**

Each site has formulated learning objectives which are specific to the trainees' year of residency as well as to that specific site. They have been based upon the Objectives of Training (July, 2013) which is available at:

[http://www.royalcollege.ca/rc/faces/oracle/webcenter/portalapp/pages/ibd.jspx;jsessionid=NTiC6Q9hFQRRbM0TmuilsaTDh\\_7w8rGSyejsfRtTZpMvmOHhvIWW!1908427209?lang=en&\\_adf.ctrl-state=k9bmlyej8\\_4&\\_afLoop=6598693447696266&\\_afWindowMode=0&\\_afWindowId=null#!%40%40%3F\\_afWindowId%3Dnull%26\\_afLoop%3D6598693447696266%26lang%3Den%26\\_afWindowMode%3D0%26\\_adf.ctrl-state%3Dbwybu8rpy\\_4](http://www.royalcollege.ca/rc/faces/oracle/webcenter/portalapp/pages/ibd.jspx;jsessionid=NTiC6Q9hFQRRbM0TmuilsaTDh_7w8rGSyejsfRtTZpMvmOHhvIWW!1908427209?lang=en&_adf.ctrl-state=k9bmlyej8_4&_afLoop=6598693447696266&_afWindowMode=0&_afWindowId=null#!%40%40%3F_afWindowId%3Dnull%26_afLoop%3D6598693447696266%26lang%3Den%26_afWindowMode%3D0%26_adf.ctrl-state%3Dbwybu8rpy_4)

Other valuable information such as examination dates and information about Surgical Foundations is also available on the same site.

## Rotation Specific Objectives – AGIM Rotation

### Introduction & Statement of Goals for the Rotation:

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



### Medical Expert:

**1)** Demonstrate the ability to perform a consultation, integrating all of the CanMEDS Roles to provide optimal, ethical and patient-centred medical care.

**2)** Establish and maintain clinical knowledge, skills and attitudes appropriate to surgical practice:

- An approach to evaluation and management of cardiovascular, neurologic, respiratory, renal and endocrine disease in the surgical patient
- An approach to the peri-operative management of these disease process' in the surgical patient
- An approach to the serum glucose management of the diabetic patient
- An understanding of the assessment of peri-operative risks for cardiac events in surgical patients
- An understanding of the management of anti-coagulation in the surgical patient

### Communicator:

The communicator role is defined by: "As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care."

- The resident should be able to effectively communicate with patients and families in a manner to communicate their medical issues and discuss prognosis
- The resident should be able to effectively communicate with patients and families in the process of obtaining consent. This should also include a discussion around resuscitation status

- The resident should be able to effectively communicate a plan with other health care professionals including nursing and allied health staff

### **Collaborator:**

The collaborator role is defined by: "As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care." The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

- The resident should demonstrate an understanding of the role and value of all members of the allied health professional team in the care of the complex patient
- The resident should be able to lead a multi-disciplinary team meeting and effectively communicate treatment plans to other team members

### **Leader:**

The leader role is defined by: "As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers." For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

- The resident should demonstrate an understanding of health care resource issues as it relates to surgical care
- The resident should take a lead on pre-operative patient care evaluation
- The resident should manage medical students on the team service and also have an opportunity to lead a teaching session for medical students

### **Health Advocate:**

The health advocate role is defined by: "As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change." The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

- The resident should demonstrate a willingness to educate patients on lifestyle choices that contribute to their health care issues
- The resident should participate and be involved in patient home care issues

### **Scholar:**

The scholar role is defined by: "As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship." The key competencies

for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

- Critically evaluate medical information and its sources, and apply this appropriately to practice decisions
- Facilitate the learning of patients, families, students, residents, other health professionals, the public and others
- Demonstrate an understanding of the principles of dissemination of new knowledge

**Professional:**

The professional role is defined by: "As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health." The key competencies for this role include a demonstrated commitment to patients and the profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

- The resident should at all times demonstrate an attitude of respect and courtesy in their communications with all patient and family, other staff and services
- The resident should be punctual in attendance of clinical duties
- The resident should be complete and timely in the processing of clinical documents
- The resident should deal with consults in an appropriate manner for the service they are on

## Rotation Specific Objectives – Anesthesia

### Introduction & Statement of Goals for the Rotation:

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



### Medical Expert:

**1)** Demonstrate the ability to perform a consultation, integrating all of the CanMEDS Roles to provide optimal, ethical and patient-centred medical care.

**2)** Establish and maintain clinical knowledge, skills and attitudes appropriate to surgical practice. Subcategory items from the Surgical Foundations objectives which are particularly relevant to this rotation include:

- Demonstrates ability to assess patients pre-operatively and determine accurate ASA class
- Can appropriately counsel patients pre-operatively in regards to management of diabetic medications in the perioperative setting
- Can appropriately counsel patients pre-operatively in regards to management of anticoagulation medications in the perioperative setting
- Demonstrates ability to assess patients in regards to airway or respiratory issues pre-operatively
- Demonstrates an understanding of what risk factors significantly increase peri-operative anesthetic risk
- Demonstrates an understanding of which patients would benefit from general versus regional anesthesia

**3)** Demonstrate proficient and appropriate use of procedural skills including:

- Intubation of non-complex patients
- Placement of oral or nasal airway
- Insertion of peripheral IV
- Airbag mask ventilation

### **Communicator:**

The communicator role is defined by: “As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care.”

- Develop rapport, trust, and ethical therapeutic relationships with patients and families
- Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues, and other professionals
- Convey relevant information and explanations accurately to patients and families, colleagues and other professionals
- Develop a common understanding on issues, problems and plans with patients, families, and other professionals to develop a shared plan of care
- Convey effective oral and written information about a medical encounter

#### **Specific Examples for the Off-Service Resident:**

- Obtain and present a complete history and physical examination from patients in the peri-operative assessment clinic
- Dictate well organized and complete notes for medical records
- Able to explain treatment options to patient for general anesthesia or regional anesthesia
- Able to effectively communicate an anesthetic plan with other health care professionals

### **Collaborator:**

The collaborator role is defined by: “As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care.” The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

- Participate effectively and appropriately in an interprofessional and interdisciplinary health care team
- Work with other health professionals effectively to prevent, negotiate, and resolve conflict

#### **Specific Examples for the Off-Service Resident:**

- Recognize and respect the diversity of roles in the care of patients under general anesthesia including nursing, respiratory therapists and the surgical team
- Work with the surgical team to assess, plan, provide care for individual patients for emergent cases

### **Leader:**

The leader role is defined by: “As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers.” For a surgical resident, the key competency in this role is to organize junior

learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

- Demonstrate an understanding of the influences that affect the workings of the health care system at various levels
- Participate in activities that contribute to the effectiveness of their health care organizations and systems
- Manage their practice and career effectively
- Allocate finite health care resources appropriately

**Specific Examples for the Off-Service Resident:**

- Demonstrates an understanding of the triage system for emergency surgical cases and can prioritize patients in terms of urgency

**Health Advocate:**

The health advocate role is defined by: “As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change.” The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

- Respond to individual patient health needs and issues as part of patient care
- Describe and respond to the health needs of the communities that they serve
- Promote the health of individual patients, communities, and populations
- Promote and participate in patient safety

**Specific Examples for the Off-Service Resident:**

- Advocates for patients deemed unfit for surgery
- Helps educate patients on lifestyle choices that that may benefit the patients' health such as smoking cessation

**Scholar:**

The scholar role is defined by: “As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship.” The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

- Maintain and enhance professional activities through ongoing learning
- Critically evaluate medical information and its sources, and apply this appropriately to practice decisions
- Facilitate the learning of patients, families, students, residents, other health professionals, the public and others
- Demonstrate an understanding of the principles of dissemination of new knowledge



**Specific Examples for the Off-Service Resident:**

- Residents should be aware of best practise management of patients pre-operatively
- Critically evaluate medical information and its sources and apply this to patient care

**Professional:**

The professional role is defined by: “As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health.” The key competencies for this role include a demonstrated commitment to patients and the profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

- Demonstrate a commitment to their patients, profession, and society through ethical practice
- Demonstrate a commitment to their patients, profession and society through participation in profession-led regulation
- Demonstrate a commitment to physician health and sustainable practice

**Specific Examples for the Off-Service Resident:**

- Demonstrate an awareness of the risks associated with the high stress environments in which anesthesiologists work
- Exhibit appropriate professional behaviours in practice, including honesty, integrity, commitment, compassion, respect and altruism

## Rotation Specific Objectives – Sunnybrook Burns

### Introduction & Statement of Goals for the Rotation:

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



### **Medical Expert:**

**1)** Demonstrate the ability to perform a consultation, integrating all of the CanMEDS Roles to provide optimal, ethical and patient-centred medical care.

**2)** Establish and maintain clinical knowledge, skills and attitudes appropriate to surgical practice. Subcategory items from the Surgical Foundations objectives which are particularly relevant to this rotation include:

- Demonstrates ability to assess patients pre-operatively and determine accurate operative plans for debridement and grafting
- Familiarity with the management of intermediate and large TBSA burns in an acute setting including early assessment in the ER, including dressings early fluid resuscitation and monitoring of fluid status
- Demonstrates accurate assessment of extent of burn injury calculating TBSA and depth of burn injury
- Management of airway in those burn patients at risk of respiratory compromise
- Demonstrate understanding of carbon monoxide as well as cyanide toxicity and the physiology and treatment
- Recognition of acute emergencies and the appropriate management including escharotomies and fasciotomies
- Understand the physiology of burn sepsis and shock and the management in an intensive care unit
- Understand the long term treatment of out-patient burns including scar and contracture management
- Understand the management of out-patient acute burn care in smaller burns
- Can appropriately counsel patients pre-operatively in regards to management of anticoagulation medications in the perioperative setting
- Demonstrates ability to assess patients in regards to airway or respiratory issues pre-operatively

- Demonstrates an understanding of what risk factors significantly increase peri-operative anesthetic risk
- Understand the use of adjuncts to fluid management other than crystalloid including albumin, and blood products
- Demonstrates understanding of non-flame burn injury management including electrical, friction and chemical burns

**3) Demonstrate proficient and appropriate use of procedural skills including:**

- Airway management in acute burn patients including where possible Intubation of non-complex patients
- Placement of oral or nasal airway
- Insertion of central lines
- Where possible escharotomy or fasciotomy
- Tangential excision and grafting of burns acutely
- Release and grafting of burn contractures
- Foley catheter insertion in acute burns

**Communicator:**

The communicator role is defined by: “As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care.”

- Develop rapport, trust, and ethical therapeutic relationships with patients and families
- Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues, and other professionals
- Convey relevant information and explanations accurately to patients and families, colleagues and other professionals
- Develop a common understanding on issues, problems and plans with patients, families, and other professionals to develop a shared plan of care
- Convey effective oral and written information about a medical encounter

**Specific Examples for the Off-Service Resident:**

- Obtain and present a complete history and physical examination from patients in the acute burn setting and perform effective handover to the multidisciplinary team
- Dictate well organized and complete notes for medical records
- Able to explain treatment options to patient for general anesthesia or regional anesthesia
- Able to effectively communicate a surgical plan with other health care professionals including anesthesiology clearly discussing blood loss or other potential intra-operative issues

**Collaborator:**

The collaborator role is defined by: “As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care.” The

key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

- Participate effectively and appropriately in an interprofessional and interdisciplinary health care team
- Work with other health professionals effectively to prevent, negotiate, and resolve conflict

**Specific Examples for the Off-Service Resident:**

- Recognize and respect the diversity of roles in the care of patients under intensive burn care including nursing, respiratory therapists , anesthesiology and the surgical team
- Work with the therapists in the management of chronic burn patients and their rehabilitation

**Leader:**

The leader role is defined by: "As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers." For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

- Demonstrate an understanding of the influences that affect the workings of the health care system at various levels
- Participate in activities that contribute to the effectiveness of their health care organizations and systems
- Manage their practice and career effectively
- Allocate finite health care resources appropriately

**Specific Examples for the Off-Service Resident:**

- Demonstrates an understanding of the triage system for emergency surgical cases and can prioritize patients in terms of urgency

**Health Advocate:**

The health advocate role is defined by: "As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change." The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

- Respond to individual patient health needs and issues as part of patient care
- Describe and respond to the health needs of the communities that they serve
- Promote the health of individual patients, communities, and populations
- Promote and participate in patient safety

**Specific Examples for the Off-Service Resident:**

- Advocates for patients deemed unfit for surgery
- Helps educate patients on lifestyle choices that that may benefit the patients health such as smoking cessation

**Scholar:**

The scholar role is defined by: "As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship." The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

- Maintain and enhance professional activities through ongoing learning
- Critically evaluate medical information and its sources, and apply this appropriately to practice decisions
- Facilitate the learning of patients, families, students, residents, other health professionals, the public and others
- Demonstrate an understanding of the principles of dissemination of new knowledge

**Specific Examples for the Off-Service Resident:**

- Residents should be aware of best practise management of patients pre-operatively
- Demonstrate an understanding of the benefits of early debridement and grafting
- Up to date on adjunct burn management including integra, allograft etc.
- Critically evaluate medical information and its sources and apply this to patient care in the burn setting
- Present if possible a small topic in burn rounds

**Professional:**

The professional role is defined by: "As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health." The key competencies for this role include a demonstrated commitment to patients and the profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

- Demonstrate a commitment to their patients, profession, and society through ethical practice
- Demonstrate a commitment to their patients, profession and society through participation in profession-led regulation
- Demonstrate a commitment to physician health and sustainable practice

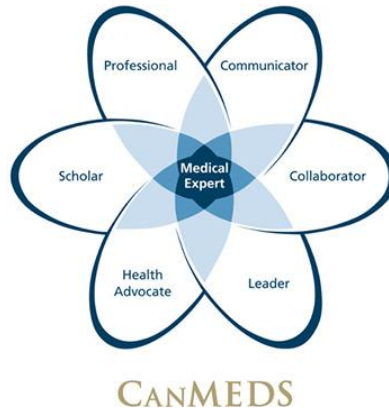
**Specific Examples for the Off-Service Resident:**

- Demonstrate an awareness of the risks associated with the high stress environments in which acute burn care occurs
- Exhibit appropriate professional behaviours in practice, including honesty, integrity, commitment, compassion, respect and altruism
- Works well as part of the multidisciplinary team

## Rotation Specific Objectives – Critical Care Trauma Centre (CCTC)

### Introduction & Statement of Goals for the Rotation:

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



### Medical Expert:

- 1) Demonstrate the ability to perform a consultation, integrating all of the CanMEDS Roles to provide optimal, ethical and patient-centred medical care.
- 2) Establish and maintain clinical knowledge, skills and attitudes appropriate to surgical practice. Subcategory items from the Surgical Foundations objectives which are particularly relevant to this rotation include:
  - Demonstrate an understanding of large TBSA burn care including fluid management, pressor support and ventilator support in the intensive care setting
  - Respiratory failure from various causes; this should include an understanding of the indications for ventilatory support and an appreciation of the hemodynamic-ventilatory interactions and interdependence
  - Circulatory collapse of various causes including cardiogenic, hypovolemic, and septic shock; this should include an understanding of electrocardiography and its interpretation as well as a knowledge of the management of various arrhythmias
  - Sepsis of various forms and etiology; including appropriate surgical and antimicrobial therapy, and a knowledge of the available types of antibiotics, their mechanism of action and complications
  - Conditions requiring either enteral and/or parenteral nutritional support; this should include an understanding of the metabolic response to trauma and an approach to fluid, electrolyte and acid base balance
  - The multiple injured (trauma) patient: the resident should have a systematic approach to initial assessment and management as well as the ongoing monitoring and care; also included should be an appreciation of the causes, and the investigation and management of a patient with a decreasing level of consciousness

**3) Demonstrate proficient and appropriate use of procedural skills including:**

- Intubation
- Central line access
- Arterial line placement
- Chest tube placement

**Communicator:**

The communicator role is defined by: “As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care.”

- Develop rapport, trust, and ethical therapeutic relationships with patients and families
- Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues, and other professionals
- Convey relevant information and explanations accurately to patients and families, colleagues and other professionals
- Develop a common understanding on issues, problems and plans with patients, families, and other professionals to develop a shared plan of care
- Convey effective oral and written information about a medical encounter

**Specific Examples for the Off-Service Resident:**

- Obtain and present a complete history and physical examination of critically ill patients
- Effectively communicate with family about the status and prognosis of critically ill patients

**Collaborator:**

The collaborator role is defined by: “As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care.” The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

- Participate effectively and appropriately in an interprofessional and interdisciplinary health care team
- Work with other health professionals effectively to prevent, negotiate, and resolve conflict

**Specific Examples for the Off-Service Resident:**

- Recognize and respect the diversity of roles, responsibilities and competencies of other professionals in the setting of intensive patient care
- Understand when it is appropriate to refer or defer certain elements of care to more qualified individuals



### **Leader:**

The leader role is defined by: "As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers." For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

- Demonstrate an understanding of the influences that affect the workings of the health care system at various levels
- Participate in activities that contribute to the effectiveness of their health care organizations and systems
- Manage their practice and career effectively
- Allocate finite health care resources appropriately

#### **Specific Examples for the Off-Service Resident:**

- Able to effectively manage critically ill patients and acute issues during on-call shifts

### **Health Advocate:**

The health advocate role is defined by: "As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change." The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

- Respond to individual patient health needs and issues as part of patient care
- Describe and respond to the health needs of the communities that they serve
- Promote the health of individual patients, communities, and populations
- Promote and participate in patient safety

#### **Specific Examples for the Off-Service Resident:**

- Identify the health needs of an individual patient
- Recognize and respect the privacy of unconscious patients

### **Scholar:**

The scholar role is defined by: "As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship." The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

- Maintain and enhance professional activities through ongoing learning
- Critically evaluate medical information and its sources, and apply this appropriately to practice decisions

- Facilitate the learning of patients, families, students, residents, other health professionals, the public and others
- Demonstrate an understanding of the principles of dissemination of new knowledge

**Specific Examples for the Off-Service Resident:**

- Demonstrates effective use of evidence based medicine practices in the care of critically ill patients
- Recognizes gaps in knowledge and works to correct these

**Professional:**

The professional role is defined by: “As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health.” The key competencies for this role include a demonstrated commitment to patients and the profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

- Demonstrate a commitment to their patients, profession, and society through ethical practice
- Demonstrate a commitment to their patients, profession and society through participation in profession-led regulation
- Demonstrate a commitment to physician health and sustainable practice

**Specific Examples for the Off-Service Resident:**

- Demonstrate an awareness of the risks associated with the high stress environments such as the ICU/CCTC
- Exhibit appropriate professional behaviours in practice, including honesty, integrity, commitment, compassion, respect and altruism

## Rotation Specific Objectives – Community Plastics

### Introduction & Statement of Goals for the Rotation:

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



### Medical Expert:

- 1) Demonstrate the ability to perform a consultation, integrating all of the CanMEDS Roles to provide optimal, ethical and patient-centred medical care.
- 2) Establish and maintain clinical knowledge, skills and attitudes appropriate to surgical practice. Subcategory items which are particularly relevant to this rotation include:
  - The resident should have an approach to the evaluation of and management of simple hand injuries such as phalangeal and metacarpal fractures, extensor lacerations and flexor tendon lacerations
  - The resident should be able to examine and evaluate a patient for cosmetic breast surgery
  - The resident should show competence in the management of small non-pigmented skin malignancies
- 3) Demonstrate proficient and appropriate use of procedural skills including:
  - The resident should be able to repair simple extensor tendon lacerations
  - The resident should be able to reduce simple phalangeal and metacarpal fractures
  - The resident should be able to suture simple and complex skin lacerations

### Communicator:

The communicator role is defined by: "As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care."

- The resident should be able to effectively communicate with patients and families in a manner to communicate their medical issues and discuss prognosis
- The resident should be able to effectively communicate with patients and families in the process of obtaining a consent for surgical treatment. This should also include a discussion around resuscitation status
- The resident should be able to effectively communicate a surgical plan with other health care professionals including nursing and allied health staff

### **Collaborator:**

The collaborator role is defined by: “As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care.” The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

- The resident should demonstrate an understanding of the role and value of all members of the allied health professional team. This should be demonstrated in the care of in-hospital patients and post-operative patients who have undergone free flap reconstruction
- The resident should be able to lead a multi-disciplinary team meeting and effectively communicate treatment plans to other team members

### **Leader:**

The leader role is defined by: “As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers.” For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

- The resident should demonstrate an understanding of health care resource issues as it relates to surgical bookings in a community hospital
- The resident should be exposed to the management of a community surgeons’ office. Specific issues that they should be exposed to are managing non-physician staff, triaging of consultations, and billings.

### **Health Advocate:**

The health advocate role is defined by: “As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change.” The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

- The resident should demonstrate a willingness to educate patients on lifestyle choices that contribute to their health care issues

- The resident should participate and be involved in patient planning and home care issues

### **Scholar:**

The scholar role is defined by: "As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship." The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

- Critically evaluate medical information and its sources, and apply this appropriately to practice decisions
- Facilitate the learning of patients, families, students, residents, other health professionals, the public and others

### **Professional:**

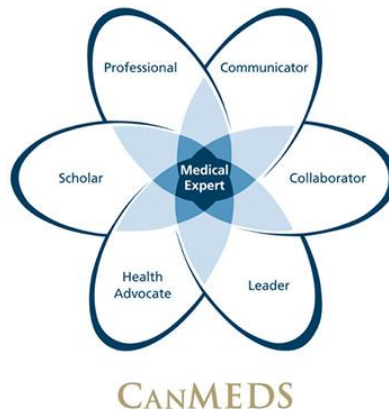
The professional role is defined by: "As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health." The key competencies for this role include a demonstrated commitment to patients and the profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

- The resident should at all times demonstrate an attitude of respect and courtesy in their communications with all patient and family, other staff and services
- The resident should be punctual in attendance of clinical duties
- The resident should be complete and timely in the processing of clinical documents
- The resident should deal with consults in an appropriate manner for the service they are on

## Rotation Specific Objectives – Emergency Medicine

### Introduction & Statement of Goals for the Rotation:

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



### Medical Expert:

**1)** Demonstrate the ability to perform a consultation, integrating all of the CanMEDS Roles to provide optimal, ethical and patient-centred medical care.

**2)** Establish and maintain clinical knowledge, skills and attitudes appropriate to surgical practice. Subcategory items from the Surgical Foundations objectives which are particularly relevant to this rotation include:

#### General Knowledge and Clinical Skills:

- To develop those skills appropriate to the initial assessment of undifferentiated patients in the ER
- To rapidly recognize the acutely ill/injured patient and to develop a systematic prioritized approach to his/her assessment and concomitant stabilization of treatment
- To quickly formulate a working differential diagnosis, focusing initially on the most serious conditions which need prompt confirmation or exclusion
- To develop the ability to manage multiple patients simultaneously
- To promptly formulate and establish assessment/therapeutic end points for appropriate referral/disposition
- To develop an appreciation for the indications for laboratory, radiologic, nuclear imaging and cardiologic investigations appropriate to the emergency setting
- To acquire familiarity with resuscitative medicine, especially where possible for burn patients
- To develop good documentation habits, with concise recording of negative and positive findings
- Given a patient in the Emergency Department, the resident must be able to diagnose, investigate and manage the following conditions:

- Cardiac Arrest
- Myocardial infarction
- Major trauma
- Poisoning and drug overdose
- Arrhythmias
- Shock
- The unconscious patient
- Acute pulmonary edema
- The intoxicated patient
- Asthma
- Burn care
- Fractures
- Minor lacerations
- Abscess
- Acute psychiatric disturbance
- Diabetic emergencies

**3) Demonstrate proficient and appropriate use of procedural skills including:**

- Resuscitation of the critically ill patient incorporating ATLS/ACLS protocols
- Bag valve mask ventilation
- Chest tube insertion
- Local I&D
- Endotracheal intubation
- Intravenous line insertion (peripheral +/- central)
- EKG and rhythm strip interpretation
- X-ray (Ultrasound, CT, plain film) interpretation
- Nasogastric tube placement
- Suturing
- Burn and wound dressing
- Plaster splinting and casting
- Local and regional anaesthesia
- Foreign body removal

**Communicator:**

The communicator role is defined by: "As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care."

- Develop rapport, trust, and ethical therapeutic relationships with patients and families
- Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues, and other professionals
- Convey relevant information and explanations accurately to patients and families, colleagues and other professionals
- Develop a common understanding on issues, problems and plans with patients, families, and other professionals to develop a shared plan of care
- Convey effective oral and written information about a medical encounter

**Specific Examples for the Off-Service Resident:**

- Able to explain treatment options to patient for basic clinical problems
- Demonstrates ability to effectively consult other services and communicate relevant issues

**Collaborator:**

The collaborator role is defined by: "As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care." The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

- Participate effectively and appropriately in an interprofessional and interdisciplinary health care team
- Work with other health professionals effectively to prevent, negotiate, and resolve conflict

**Specific Examples for the Off-Service Resident:**

- Recognize and respect the diversity of roles, responsibilities and competencies of other professionals in relation to their own
- Work with others to assess, plan, provide and integrate care for individual patients (e.g. CCAC, hand therapy, rehabilitation medicine)

**Leader:**

The leader role is defined by: "As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers." For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

- Demonstrate an understanding of the influences that affect the workings of the health care system at various levels
- Participate in activities that contribute to the effectiveness of their health care organizations and systems
- Manage their practice and career effectively
- Allocate finite health care resources appropriately

**Specific Examples for the Off-Service Resident:**

- Able to manage and lead an acute resuscitation
- Set priorities and manage time to balance patient care, practice requirements, outside activities and personal life



### **Health Advocate:**

The health advocate role is defined by: “As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change.” The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

- Respond to individual patient health needs and issues as part of patient care
- Describe and respond to the health needs of the communities that they serve
- Promote the health of individual patients, communities, and populations
- Promote and participate in patient safety

### **Specific Examples for the Off-Service Resident:**

- Identify the health needs of an individual patient
- Discuss benefits of smoking, ETOH and drug cessation with patients
- Recognize opportunities for advocacy, health promotion and disease prevention with individuals to whom they provide care (e.g. child abuse, domestic violence, smoking cessation, patient behaviours that place them at risk for disease or injury)

### **Scholar:**

The scholar role is defined by: “As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship.” The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

- Maintain and enhance professional activities through ongoing learning
- Critically evaluate medical information and its sources, and apply this appropriately to practice decisions
- Facilitate the learning of patients, families, students, residents, other health professionals, the public and others
- Demonstrate an understanding of the principles of dissemination of new knowledge

### **Specific Examples for the Off-Service Resident:**

- Recognizes gaps in knowledge and works to develop strategies to improve these
- Develops knowledge of current literature
- Takes evidence based approach to the management of medical issues
- Accepts and acts on constructive feedback

### **Professional:**

The professional role is defined by: “As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high

personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health." The key competencies for this role include a demonstrated commitment to patients and the profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

- Demonstrate a commitment to their patients, profession, and society through ethical practice
- Demonstrate a commitment to their patients, profession and society through participation in profession-led regulation
- Demonstrate a commitment to physician health and sustainable practice

**Specific Examples for the Off-Service Resident:**

- Demonstrates the ability to perform effective patient handover at the end of shift
- Shows respect of diversity of race, age, gender, sexual orientation, disability, intelligence and socio-economic status
- Reports facts accurately including own errors

## Rotation Specific Objectives – ENT

### Introduction & Statement of Goals for the Rotation:

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



### Medical Expert:

- 1) Demonstrate the ability to perform a consultation, integrating all of the CanMEDS Roles to provide optimal, ethical and patient-centred medical care.
- 2) Establish and maintain clinical knowledge, skills and attitudes appropriate to surgical practice. Subcategory items which are particularly relevant to this rotation include:
  - The resident should have an approach to evaluation and management to cutaneous head and neck oncology. This should include an approach to ablation and lymph node dissection options, reconstruction of the head and neck defect and post-operative management
  - The resident should be able to identify the anatomy and surgical approach to common free flaps used in head and neck reconstruction and the common sites for recipient vessel anastomosis
  - The resident should show competence in the post-operative management of in hospital head and neck reconstructive patients.
  - The resident should have an approach to emergency airway management with an emphasis on the emergent surgical airway
- 3) Demonstrate proficient and appropriate use of procedural skills including:
  - The resident should be exposed to tracheostomy
  - The resident should have an understanding of neck anatomy
  - The resident should have an understanding of common flaps used in head and neck reconstruction, both regional and free

### **Communicator:**

The communicator role is defined by: "As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care."

- The resident should be able to effectively communicate with patients and families in a manner to communicate their medical issues and discuss prognosis
- The resident should be able to effectively communicate with patients and families in the process of obtaining a consent for surgical treatment. This should also include a discussion around resuscitation status
- The resident should be able to effectively communicate a surgical plan with other health care professionals including nursing and allied health staff

### **Collaborator:**

The collaborator role is defined by: "As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care." The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

- The resident should demonstrate an understanding of the role and value of all members of the allied health professional team. This should be demonstrated in the care of in-hospital patients and post-operative patients who have undergone free flap reconstruction
- The resident should be able to lead a multi-disciplinary team meeting and effectively communicate treatment plans to other team members

### **Leader:**

The leader role is defined by: "As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers." For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

- The resident should demonstrate an understanding of health care resource issues as it relates to surgical bookings
- The resident should take a lead on patient discharge issues
- The resident should manage medical students on the team service and also have an opportunity to lead a teaching session for medical students

### **Health Advocate:**

The health advocate role is defined by: "As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to

effect change.” The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

- The resident should demonstrate a willingness to educate patients on lifestyle choices that contribute to their health care issues
- The resident should participate and be involved in patient planning and home care issues

### **Scholar:**

The scholar role is defined by: “As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship.” The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

- Critically evaluate medical information and its sources, and apply this appropriately to practice decisions
- Facilitate the learning of patients, families, students, residents, other health professionals, the public and others

### **Professional:**

The professional role is defined by: “As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health.” The key competencies for this role include a demonstrated commitment to patients and the profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

- The resident should at all times demonstrate an attitude of respect and courtesy in their communications with all patient and family, other staff and services
- The resident should be punctual in attendance of clinical duties
- The resident should be complete and timely in the processing of clinical documents
- The resident should deal with consults in an appropriate manner for the service they are on

## Rotation Specific Objectives – General Surgery

### Introduction & Statement of Goals for the Rotation:

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



### Medical Expert:

**1)** Demonstrate the ability to perform a consultation, integrating all of the CanMEDS Roles to provide optimal, ethical and patient-centred medical care.

**2)** Establish and maintain clinical knowledge, skills and attitudes appropriate to surgical practice. Subcategory items which are particularly relevant to this rotation include:

- Management of the post-operative patient who is critically ill. This should include management of chest pain, shortness of breath, decreased level of consciousness and sepsis and surgical site infection.
- Management of fluid status of post-operative patient and fluid resuscitation of the hypovolemic patient
- Management of the pre-op surgical patient both elective and patients who are ill, including nutritional and fluid status, hemodynamic and cardiovascular evaluation and patient consent

**3)** Demonstrate proficient and appropriate use of procedural skills including:

- Drainage of simple cutaneous abscess's and closure of lacerations
- Placement of chest tubes, arterial lines, central venous lines, peripheral vein cutdowns, nasogastric tubes, and foley catheters
- Closure of basic ventral and umbilical hernias and closure of abdominal wall defects

### Communicator:

The communicator role is defined by: "As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care."

- The resident should be able to effectively communicate with patients and families in a manner to communicate their medical issues and discuss prognosis
- The resident should be able to effectively communicate with patients and families in the process of obtaining consent for surgical treatment. This should also include a discussion around resuscitation status
- The resident should be able to effectively communicate a surgical plan with other health care professionals including nursing and allied health staff

### **Collaborator:**

The collaborator role is defined by: “As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care.” The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

- The resident should demonstrate an understanding of the role and value of all members of the allied health professional team. This should be demonstrated in the care of in-hospital
- The resident should be able to lead a multi-disciplinary team meeting and effectively communicate treatment plans to other team members

### **Leader:**

The leader role is defined by: “As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers.” For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

- The resident should demonstrate an understanding of health care resource issues as it relates to surgical bookings
- The resident should take a lead on patient discharge issues
- The resident should manage medical students on the team service and also have an opportunity to lead a teaching session for medical students

### **Health Advocate:**

The health advocate role is defined by: “As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change.” The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

- The resident should demonstrate a willingness to educate patients on lifestyle choices that contribute to their health care issues

- The resident should participate and be involved in patient planning and home care issues

### **Scholar:**

The scholar role is defined by: "As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship." The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

- Critically evaluate medical information and its sources, and apply this appropriately to practice decisions
- Facilitate the learning of patients, families, students, residents, other health professionals, the public and others
- Demonstrate an understanding of the principles of dissemination of new knowledge

### **Professional:**

The professional role is defined by: "As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health." The key competencies for this role include a demonstrated commitment to patients and the profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

- The resident should at all times demonstrate an attitude of respect and courtesy in their communications with all patient and family, other staff and services
- The resident should be punctual in attendance of clinical duties
- The resident should be complete and timely in the processing of clinical documents
- The resident should deal with consults in an appropriate manner for the service they are on



## Rotation Specific Objectives – Oculoplastics

### Introduction & Statement of Goals for the Rotation:

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



### Medical Expert:

- 1) Demonstrate the ability to perform a consultation, integrating all of the CanMEDS Roles to provide optimal, ethical and patient-centred medical care.
- 2) Establish and maintain clinical knowledge, skills and attitudes appropriate to surgical practice. Subcategory items from the Surgical Foundations objectives which are particularly relevant to this rotation include:
  - Anatomy of the bony orbit
  - Anatomy of the upper and lower lid
  - Management of upper and lower lid defects both full and partial thickness
  - Understand the diagnosis and management of retrobulbar haematoma
  - Understand the principals of cosmetic upper and lower blepharoplasty approaches
  - Diagnosis and management of lid ptosis
- 3) Demonstrate proficient and appropriate use of procedural skills including:
  - Primary full thickness lid repair
  - lid occlusive suture
  - lateral canthotomy
  - local flap lid repair including tripier and tenzel flaps

### Communicator:

The communicator role is defined by: "As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care."

- Develop rapport, trust, and ethical therapeutic relationships with patients and families

- Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues, and other professionals
- Convey relevant information and explanations accurately to patients and families, colleagues and other professionals
- Develop a common understanding on issues, problems and plans with patients, families, and other professionals to develop a shared plan of care
- Convey effective oral and written information about a medical encounter

**Specific Examples for the Off-Service Resident:**

- Obtain and present a complete history and physical examination from patients with ocular trauma
- Dictate well organized and complete notes for medical records
- Able to explain treatment options to patient for basic clinical problems to patients

**Collaborator:**

The collaborator role is defined by: “As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care.” The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

- Participate effectively and appropriately in an interprofessional and interdisciplinary health care team
- Work with other health professionals effectively to prevent, negotiate, and resolve conflict

**Specific Examples for the Off-Service Resident:**

- Recognize and respect the diversity of roles, responsibilities and competencies of other professionals in relation to their own

**Leader:**

The leader role is defined by: “As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers.” For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

- Demonstrate an understanding of the influences that affect the workings of the health care system at various levels
- Participate in activities that contribute to the effectiveness of their health care organizations and systems
- Manage their practice and career effectively
- Allocate finite health care resources appropriately

**Specific Examples for the Off-Service Resident:**

- Employ information technology appropriately for patient care
- Set priorities and manage time to balance patient care, practice requirements, outside activities and personal life

**Health Advocate:**

The health advocate role is defined by: “As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change.” The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

- Respond to individual patient health needs and issues as part of patient care
- Describe and respond to the health needs of the communities that they serve
- Promote the health of individual patients, communities, and populations
- Promote and participate in patient safety

**Specific Examples for the Off-Service Resident:**

- Identify the health needs of an individual patient
- Recognize opportunities for advocacy, health promotion and disease prevention with individuals to whom they provide care (e.g. smoking cessation, sun exposure or other patient behaviours that place them at risk for disease or injury)

**Scholar:**

The scholar role is defined by: “As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship.” The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

- Maintain and enhance professional activities through ongoing learning
- Critically evaluate medical information and its sources, and apply this appropriately to practice decisions
- Facilitate the learning of patients, families, students, residents, other health professionals, the public and others
- Demonstrate an understanding of the principles of dissemination of new knowledge

**Specific Examples for the Off-Service Resident:**

- Recognizes personal deficiencies in knowledge or skill and works to correct them
- Able to use an evidence based approach to diagnosis of patients

### **Professional:**

The professional role is defined by: "As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health." The key competencies for this role include a demonstrated commitment to patients and the profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

- Demonstrate a commitment to their patients, profession, and society through ethical practice
- Demonstrate a commitment to their patients, profession and society through participation in profession-led regulation
- Demonstrate a commitment to physician health and sustainable practice

### **Specific Examples for the Off-Service Resident:**

- Exhibit appropriate professional behaviours in practice, including punctuality, appropriate dress and language
- Respect the roles of others in a multidisciplinary team

## Rotation Specific Objectives – Oral Surgery

### Introduction & Statement of Goals for the Rotation:

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



### Medical Expert:

**1)** Demonstrate the ability to perform a consultation, integrating all of the CanMEDS Roles to provide optimal, ethical and patient-centred medical care.

**2)** Establish and maintain clinical knowledge, skills and attitudes appropriate to surgical practice. Subcategory items which are particularly relevant to this rotation include:

- The Resident should demonstrate an ability to evaluate the pre-operative orthognathic patient, including basic orthodontic evaluation, cephalometric evaluation and pre-operative surgical planning
- The Resident should be able to evaluate dental trauma
- The Resident should be able to evaluate and understand management of temporal mandibular joint disorder

**3)** Demonstrate proficient and appropriate use of procedural skills including:

- The Resident should be able to extract uncomplicated teeth
- The Resident should be able to perform dental nerve blocks
- The Resident should be able to debride and drain a dental abscess

### Communicator:

The communicator role is defined by: "As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care."

- The resident should be able to effectively communicate with patients and families in a manner to communicate their medical issues and discuss prognosis

- The resident should be able to effectively communicate with patients and families in the process of obtaining consent for surgical treatment. This should also include a discussion around resuscitation status
- The resident should be able to effectively communicate a surgical plan with other health care professionals including nursing and allied health staff

**Collaborator:**

The collaborator role is defined by: “As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care.” The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

- The resident should demonstrate an understanding of the role and value of all members of the allied health professional team
- The resident should be able to lead a multi-disciplinary team meeting and effectively communicate treatment plans to other team members

**Leader:**

The leader role is defined by: “As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers.” For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

- The resident should demonstrate and understanding of health care resource issues as it relates to surgical bookings

**Health Advocate:**

The health advocate role is defined by: “As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change.” The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

- The resident should demonstrate a willingness to educate patients on lifestyle choices that contribute to their health care issues
- The resident should participate and be involved in patient dental care planning

### **Scholar:**

The scholar role is defined by: "As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship." The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

- Critically evaluate medical information and its sources, and apply this appropriately to practice decisions
- Facilitate the learning of patients, families, students, residents, other health professionals, the public and others
- Demonstrate an understanding of the principles of dissemination of new knowledge

### **Professional:**

The professional role is defined by: "As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health." The key competencies for this role include a demonstrated commitment to patients and the profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

- The resident should at all times demonstrate an attitude of respect and courtesy in their communications with all patient and family, other staff and services
- The resident should be punctual in attendance of clinical duties
- The resident should be complete and timely in the processing of clinical documents
- The resident should deal with consults in an appropriate manner for the service they are on

## Rotation Specific Objectives – Orthopedic Surgery

### Introduction & Statement of Goals for the Rotation:

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



### Medical Expert:

**1)** Demonstrate the ability to perform a consultation, integrating all of the CanMEDS Roles to provide optimal, ethical and patient-centred medical care.

**2)** Establish and maintain clinical knowledge, skills and attitudes appropriate to surgical practice. Subcategory items from the Surgical Foundations objectives which are particularly relevant to this rotation include:

- Diagnosis and management of acute upper extremity injuries
- Accurate interpretations of hand and wrist x-rays
- Diagnosis of flexor and tendon injuries
- Understanding of post-operative rehabilitation protocols for hand injuries
- Exposure to revision hand surgery such as capsular release and tenolysis
- Understanding of the principals of digit and hand replantation
- Diagnosis of peripheral nerve injuries
- Knowledge of peripheral nerve anatomy including the brachial plexus
- Understanding of the principals of bone healing
- Management of soft tissue upper extremity defects
- Diagnosis and management of chronic wrist pain

**3)** Demonstrate proficient and appropriate use of procedural skills including:

- Hand and wrist fracture reduction
- Percutaneous pinning and ORIF of hand and wrist fractures
- Extensor and flexor tendon repair
- Carpal tunnel release
- Trigger finger release
- Digital or major peripheral nerve repair
- Revision amputation of digits



### **Communicator:**

The communicator role is defined by: "As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care."

- Develop rapport, trust, and ethical therapeutic relationships with patients and families
- Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues, and other professionals
- Convey relevant information and explanations accurately to patients and families, colleagues and other professionals
- Develop a common understanding on issues, problems and plans with patients, families, and other professionals to develop a shared plan of care
- Convey effective oral and written information about a medical encounter

#### **Specific Examples for the Off-Service Resident:**

- Obtain and present a complete history and physical examination from patients with hand and upper extremity injuries
- Able to explain treatment options to patients with upper extremity injuries
- Able to accurately communicate diagnosis and treatment plans to hand therapists

### **Collaborator:**

The collaborator role is defined by: "As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care." The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

- Participate effectively and appropriately in an interprofessional and interdisciplinary health care team
- Work with other health professionals effectively to prevent, negotiate, and resolve conflict

#### **Specific Examples for the Off-Service Resident:**

- Recognize and respect the role of occupational and physiotherapy in hand and upper limb rehabilitation
- Works to integrate care for individual patients including arranging CCAC, hand therapy, etc.

### **Leader:**

The leader role is defined by: "As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers." For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

- Demonstrate an understanding of the influences that affect the workings of the health care system at various levels
- Participate in activities that contribute to the effectiveness of their health care organizations and systems
- Manage their practice and career effectively
- Allocate finite health care resources appropriately

**Specific Examples for the Off-Service Resident:**

- Ability manage inpatients and lead a team of medical students during in-patient rounds
- Basic understanding of roles and activities of Worker's Compensation in hand and upper limb injuries

**Health Advocate:**

The health advocate role is defined by: “As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change.” The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

- Respond to individual patient health needs and issues as part of patient care
- Describe and respond to the health needs of the communities that they serve
- Promote the health of individual patients, communities, and populations
- Promote and participate in patient safety

**Specific Examples for the Off-Service Resident:**

- Identify the health needs of an individual patient and help them navigate short term disability during the recovery process
- Recognize opportunities for advocacy in hand injury patients in particular advocating for smoking cessation to aid with bone healing

**Scholar:**

The scholar role is defined by: “As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship.” The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

- Maintain and enhance professional activities through ongoing learning
- Critically evaluate medical information and its sources, and apply this appropriately to practice decisions
- Facilitate the learning of patients, families, students, residents, other health professionals, the public and others
- Demonstrate an understanding of the principles of dissemination of new knowledge

**Specific Examples for the Off-Service Resident:**

- Participate in morning HULC teaching rounds
- Utilize evidence based reasoning in proposed treatment plans for hand injuries

**Professional:**

The professional role is defined by: "As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health." The key competencies for this role include a demonstrated commitment to patients and the profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

- Demonstrate a commitment to their patients, profession, and society through ethical practice
- Demonstrate a commitment to their patients, profession and society through participation in profession-led regulation
- Demonstrate a commitment to physician health and sustainable practice

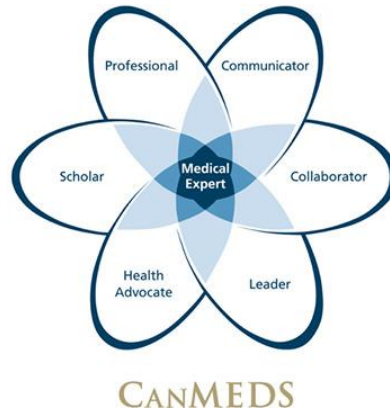
**Specific Examples for the Off-Service Resident:**

- Exhibit appropriate professional behaviours in practice, including punctuality, appropriate dress and language
- Respect the roles of others in a multidisciplinary team

## Rotation Specific Objectives – Research

### Introduction & Statement of Goals for the Rotation:

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



### **Medical Expert:**

- 1) The resident should be able to develop a method for conducting a thorough literature search on a topic.
- 2) The resident should be able to critically review a scientific article.
- 3) The resident should conduct and complete a simple scientific project and be involved in all aspects from conceiving the idea, ethics, completing the research, and write-up and presentation.
- 4) The project can be clinical or basic science.

### **Communicator:**

- The resident should be able to present their research in regular meetings with their supervisor.
- The resident should have submitted the research for presentation at a scientific meeting. This can be done at the discretion of the resident and the supervisor.
- The resident should prepare at least one manuscript out of their project.

### **Collaborator:**

- The resident should be able to lead a research team meeting and effectively communicate research plans to other team members.
- The resident should strive to have multiple supervisors in different specialties to work on their project.

**Leader:**

- The resident should be the lead on their project. The resident should actively be involved in all aspects of their project.
- The resident should initiate all project meetings.

**Health Advocate:**

- The resident should demonstrate an understanding of how their research will address a clinical problem.

**Scholar:**

- Critically evaluate information and its sources, and apply this appropriately to research decisions .
- The resident should be involved in the preparation of a manuscript for submission to a peer review source and presentation at a scientific meeting.

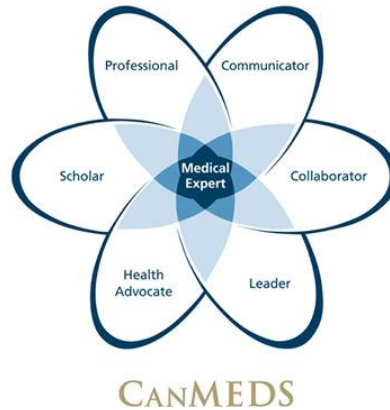
**Professional:**

- The resident should at all times demonstrate an attitude of respect and courtesy in their communications with all members of the research team.
- The resident should be punctual and able to complete deadlines.

## Rotation Specific Objectives – Trauma

### Introduction & Statement of Goals for the Rotation:

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



### Medical Expert:

- 1) Demonstrate the ability to perform a consultation, integrating all of the CanMEDS Roles to provide optimal, ethical and patient-centred medical care.
- 2) Establish and maintain clinical knowledge, skills and attitudes appropriate to surgical practice. Subcategory items from the Surgical Foundations objectives which are particularly relevant to this rotation include:
  - Management of a trauma patient with multiple injuries
  - Understands the principals of ATLS
  - Perform effective primary and secondary surveys in a trauma patient
  - Demonstrates understanding of when to prophylactically intubate a patient when airway compromise is anticipated
  - Assessment of trauma patients with facial fractures
  - Assessment of trauma patients with possible compartment syndrome
  - Assessment of trauma patients with burns
  - Assessment and early management of compound fractures
- 3) Demonstrate proficient and appropriate use of procedural skills including:
  - Reduction and external stabilization of acute fractures
  - Peripheral IV placement
  - Central line placement
  - Arterial line placement
  - Compartment pressure assessment
  - Repair of traumatic lacerations

### **Communicator:**

The communicator role is defined by: "As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care."

- Develop rapport, trust, and ethical therapeutic relationships with patients and families
- Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues, and other professionals
- Convey relevant information and explanations accurately to patients and families, colleagues and other professionals
- Develop a common understanding on issues, problems and plans with patients, families, and other professionals to develop a shared plan of care
- Convey effective oral and written information about a medical encounter

#### **Specific Examples for the Off-Service Resident:**

- Able to effectively explain medical issues and treatment options to patients and families
- Able to effectively communicate and handover with consulting services

### **Collaborator:**

The collaborator role is defined by: "As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care." The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

- Participate effectively and appropriately in an interprofessional and interdisciplinary health care team
- Work with other health professionals effectively to prevent, negotiate, and resolve conflict

#### **Specific Examples for the Off-Service Resident:**

- Recognize and respect the diversity of roles, responsibilities and competencies of other professionals in relation to their own in a trauma setting
- Work with others to plan appropriate disposition for the trauma patient

### **Leader:**

The leader role is defined by: "As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers." For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

- Demonstrate an understanding of the influences that affect the workings of the health care system at various levels

- Participate in activities that contribute to the effectiveness of their health care organizations and systems
- Manage their practice and career effectively
- Allocate finite health care resources appropriately

**Specific Examples for the Off-Service Resident:**

- Able to effectively run a trauma code and direct early care and management of a trauma patient

**Health Advocate:**

The health advocate role is defined by: “As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change.” The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

- Respond to individual patient health needs and issues as part of patient care
- Describe and respond to the health needs of the communities that they serve
- Promote the health of individual patients, communities, and populations
- Promote and participate in patient safety

**Specific Examples for the Off-Service Resident:**

- Identify the health needs of an individual patient.
- Encourages trauma patients to practice preventative measures such as wearing a helmet or seatbelt.
- Recognize and act appropriately if a trauma appears to be the result of abuse

**Scholar:**

The scholar role is defined by: “As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship.” The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

- Maintain and enhance professional activities through ongoing learning
- Critically evaluate medical information and its sources, and apply this appropriately to practice decisions
- Facilitate the learning of patients, families, students, residents, other health professionals, the public and others
- Demonstrate an understanding of the principles of dissemination of new knowledge

**Specific Examples for the Off-Service Resident:**

- Demonstrates willingness to practice evidence based medicine in caring for trauma patients
- Knowledgeable about the ATLS protocol



- Understands the principals of haemodynamic shock and acute resuscitation in a trauma patient

**Professional:**

The professional role is defined by: "As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health." The key competencies for this role include a demonstrated commitment to patients and the profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

- Demonstrate a commitment to their patients, profession, and society through ethical practice
- Demonstrate a commitment to their patients, profession and society through participation in profession-led regulation
- Demonstrate a commitment to physician health and sustainable practice

**Specific Examples for the Off-Service Resident:**

- Punctual to work and response to pager
- Maintains privacy of trauma patients
- Complete timely and thorough medical documentation

## Site Objectives – St. Joseph’s Health Care

### Learning Objectives ~ PGY2 Rotation at St. Joseph’s

**Introduction & Statement of Goals for the Rotation:** The Plastic Surgery Rotation at St. Joseph’s Health Care encompasses both general principles of Plastic Surgery as well as specific subspecialty areas of clinical expertise. The latter are summarized within the “Medical Expert” description below.

The PGY2 year is a period in which the plastic surgery resident will continue to lay the basis for plastic surgery residency and practice as well as consolidate the core knowledge required to successfully complete the Foundations of Surgery examination. As such, the following objectives rely both on general objectives as outlined for Surgical Foundations as well as those specific to Plastic Surgery.

In general, during this time of initial on-service rotations in your chosen specialty, the PGY2 resident should focus on acquiring broad knowledge of Plastic Surgery principles and fundamental skills that will serve as a foundation for lifelong learning during a career in Plastic Surgery.

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



- A) Medical Expert:** The rotation at St. Joseph’s possesses particular expertise in: 1) wound healing, 2) skin & cutaneous malignancies, 3) hand surgery (including congenital hand surgery), 4) breast surgery, 5) trunk reconstruction, 6) microsurgery, 7) peripheral nerve surgery, 8) aesthetic surgery. The PGY2 resident should seek to establish baseline knowledge in broad principles which form the basis of assessment and treatment of patients with problems encompassed by these general categories.

Skills and expertise which are particularly relevant for the PGY2 resident which are taken from the two Royal College documents, “Objectives of Surgical Foundations Training” and “Objectives of Training in Plastic Surgery” (Available at, [http://www.royalcollege.ca/rc/faces/oracle/webcenter/portalapp/pages/ibd.jspx;jsessionid=G8FTRqnWn1lkZppnSPd62lQJw7GBL79W2YmBn1yybPy26vr67ny2!-1464975945?lang=en&\\_afLoop=193015056945896&\\_afWindowMode=0&\\_afWindowId=null#%40%3F\\_afWindowId%3Dnull%26\\_afLoop%3D193015056945896%26lang%3Den%26\\_afWindowMode%3D0%26\\_adf.ctrl-state%3Dimysph6ra\\_4](http://www.royalcollege.ca/rc/faces/oracle/webcenter/portalapp/pages/ibd.jspx;jsessionid=G8FTRqnWn1lkZppnSPd62lQJw7GBL79W2YmBn1yybPy26vr67ny2!-1464975945?lang=en&_afLoop=193015056945896&_afWindowMode=0&_afWindowId=null#%40%3F_afWindowId%3Dnull%26_afLoop%3D193015056945896%26lang%3Den%26_afWindowMode%3D0%26_adf.ctrl-state%3Dimysph6ra_4)) include:

- 1) Demonstrate the ability to perform a consultation, integrating all of the CanMEDS Roles to

provide optimal, ethical and patient-centred medical care.

**2)** Establish and maintain clinical knowledge, skills and attitudes appropriate to surgical practice. Subcategory items from the Surgical Foundations objectives which are particularly relevant to this rotation include:

- Anatomy (particularly hand, face, axial pattern flaps)
- Disease states in organ systems and their impact on the surgical patient
- Endocrine
- Risk assessment strategies and scores
- Diagnostic modalities including their technology and limitations
- Oncology (including staging, genetics, multi-modality therapy etc.)
- Common infections (particularly hand, diabetic patients, iv drug abuse patients)
- Principles of anaesthesia, analgesia and sedation
- Demonstrate an understanding of routine post-operative patient care
- Compartment syndromes
- Wound healing

**3)** Demonstrate proficient and appropriate use of procedural skills including:

- Demonstrate effective, appropriate and timely performance of a surgical procedure while maintaining patient and team safety.
- Demonstrate effective operative assistance.
- Perform training-appropriate surgical skills (e.g. I&D, techniques of wound closure, wound opening, excision skin lesions).

**B) Communicator:** The communicator role is defined by: "As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care."

Skills and expertise which are particularly relevant for the PGY2 resident which are taken from the Royal College document, "Objectives of Surgical Foundations Training" include:

- Develop rapport, trust, and ethical therapeutic relationships with patients and families
- Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues, and other professionals
- Convey relevant information and explanations accurately to patients and families, colleagues and other professionals
- Develop a common understanding on issues, problems and plans with patients, families, and other professionals to develop a shared plan of care
- Convey effective oral and written information about a medical encounter

**Specific Examples for the PGY2 Resident:**

- Obtain and present a complete history and physical examination from patients with "undifferentiated" problems
- Dictate well organized and complete notes for medical records
- Able to explain treatment options to patient for basic clinical problems

**C) Collaborator:** The collaborator role is defined by: "As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care." The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

Skills and expertise which are particularly relevant for the PGY2 resident which are taken from the Royal College document, "Objectives of Surgical Foundations Training" include:

- Participate effectively and appropriately in an interprofessional and interdisciplinary health care team
- Work with other health professionals effectively to prevent, negotiate, and resolve conflict

**Specific Examples for the PGY2 Resident:**

- Recognize and respect the diversity of roles, responsibilities and competencies of other professionals in relation to their own
- Work with others to assess, plan, provide and integrate care for individual patients (e.g. CCAC, hand therapy, rehabilitation medicine)

**D) Leader:** The leader role is defined by: “As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers.” For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

Skills and expertise which are particularly relevant for the PGY2 resident which are taken from the Royal College document, “Objectives of Surgical Foundations Training” include:

- Demonstrate an understanding of the influences that affect the workings of the health care system at various levels
- Participate in activities that contribute to the effectiveness of their health care organizations and systems
- Manage their practice and career effectively
- Allocate finite health care resources appropriately

**Specific Examples for the PGY2 Resident:**

- Employ information technology appropriately for patient care
- Set priorities and manage time to balance patient care, practice requirements, outside activities and personal life
- Basic understanding of roles and activities of Worker's Compensation, Provincial Coroner

**E) Health Advocate:** The health advocate role is defined by: “As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change.” The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

Skills and expertise which are particularly relevant for the PGY2 resident which are taken from the Royal College document, “Objectives of Surgical Foundations Training” include:

- Respond to individual patient health needs and issues as part of patient care
- Describe and respond to the health needs of the communities that they serve
- Promote the health of individual patients, communities, and populations
- Promote and participate in patient safety

**Specific Examples for the PGY2 Resident:**

- Identify the health needs of an individual patient.
- Recognize opportunities for advocacy, health promotion and disease prevention with individuals to whom they provide care (e.g. child abuse, domestic violence, smoking cessation, patient behaviours that place them at risk for disease or injury).

**F) Scholar:** The scholar role is defined by: "As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship." The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

Skills and expertise which are particularly relevant for the PGY2 resident which are taken from the Royal College document "Objectives of Surgical Foundations Training" include:

- Maintain and enhance professional activities through ongoing learning
- Critically evaluate medical information and its sources, and apply this appropriately to practice decisions
- Facilitate the learning of patients, families, students, residents, other health professionals, the public and others
- Demonstrate an understanding of the principles of dissemination of new knowledge

**Specific Examples for the PGY2 Resident:**

- Present and review cases at citywide rounds. Learn the general principles of "evidence-based medicine"
- Complete a project for annual Residents' Research Day

**G) Professional:** The professional role is defined by: "As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health." The key competencies for this role include a demonstrated commitment to patients and the profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

Skills and expertise which are particularly relevant for the PGY2 resident which are taken from the Royal College document "Objectives of Surgical Foundations Training" include:

- Demonstrate a commitment to their patients, profession, and society through ethical practice
- Demonstrate a commitment to their patients, profession and society through participation in profession-led regulation
- Demonstrate a commitment to physician health and sustainable practice

**Specific Examples for the PGY2 Resident:**

- Demonstrate an awareness of the risks associated with the high stress environments in which surgeons work
- Exhibit appropriate professional behaviours in practice, including honesty, integrity, commitment, compassion, respect and altruism

**Summary:** It is important to review these objectives at the start of your rotation at St. Joseph's Health Care. It is suggested that you meet with the site chief at the time of your arrival to formulate a learning plan. If you have any concerns about any aspect of the rotation, please contact Dr. Ross at any time to discuss. We sincerely hope you enjoy your time with us.

## Learning Objectives ~ PGY3 Rotation at St. Joseph's

**Introduction & Statement of Goals for the Rotation:** The Plastic Surgery Rotation at St. Joseph's Health Care encompasses both general principles of Plastic Surgery as well as specific subspecialty areas of clinical expertise. The latter are summarized within the "Medical Expert" description below.

The PGY3 year is a transition period from a time in which the majority of experiences are "off-service" to a time when the resident is fully immersed in the Plastic Surgery service. As such, it can be a stressful time when expectations of skills and knowledge seem high but the opportunity for experience has been limited. This is particularly true for the blocks early in the academic year.

In general, the PGY3 resident should acquire foundational skills and knowledge of Plastic Surgery that will serve as a basis for the acquisition of more complex and specific skills, attitudes and knowledge during their two senior on-service years.

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



- A) Medical Expert:** The rotation at St. Joseph's possesses particular expertise in: 1) wound healing, 2) skin & cutaneous malignancies, 3) hand surgery (including congenital hand surgery), 4) breast surgery, 5) trunk reconstruction, 6) microsurgery, 7) peripheral nerve surgery, 8) aesthetic surgery. The PGY-3 resident should seek to establish baseline knowledge in each of these areas.

Skills and expertise which are particularly relevant for the PGY3 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (Available at

[http://www.royalcollege.ca/rc/faces/oracle/webcenter/portalapp/pages/ibd.jsp;jsessionid=G8FTRgnWn1lkZppnSPd62lQJw7GBL79W2YmBn1yybPy26vr67ny2!-1464975945?lang=en&\\_afLoop=19301505696945896&\\_afWindowMode=0&\\_afWindowId=null#%40%3F\\_afWindowId%3Dnull%26\\_afLoop%3D19301505696945896%26lang%3Den%26\\_afWindowMode%3D0%26\\_adf.ctrl-state%3Dimysph6ra\\_4](http://www.royalcollege.ca/rc/faces/oracle/webcenter/portalapp/pages/ibd.jsp;jsessionid=G8FTRgnWn1lkZppnSPd62lQJw7GBL79W2YmBn1yybPy26vr67ny2!-1464975945?lang=en&_afLoop=19301505696945896&_afWindowMode=0&_afWindowId=null#%40%3F_afWindowId%3Dnull%26_afLoop%3D19301505696945896%26lang%3Den%26_afWindowMode%3D0%26_adf.ctrl-state%3Dimysph6ra_4)) include:

**1) General:** Perform a Plastic Surgery consultation effectively, including the presentation of well-documented assessments and recommendations in written and/or verbal form in response to a request from another health care professional, including the recognition, diagnosis, management and appropriate counseling.

**2) Wound healing:  
Knowledge:**

- Normal and abnormal wound healing
- (Principles of) Grafts and flaps of the tissue types or composites thereof (bone, cartilage, other soft tissues)
- Principles of dressings

### **3) Skin & cutaneous malignancies:**

#### **Knowledge:**

- Principles of tumour surgery, adjuvant therapies where appropriate, sentinel node biopsy and Moh's micrographic surgery
- Benign and malignant tumours of skin and its adnexa with emphasis on melanoma, basal cell cancer and squamous cell cancer (Principles)

### **4) Hand surgery:**

#### **Knowledge:**

- Hand infections
- Principles of fracture reduction and fixation (including dislocations of the hand and wrist)
- Assessment and repair of tendon injuries
- Assessment and repair of finger/fingertip amputations

### **5) Breast:**

- Principles of breast reconstruction post-mastectomy
- Breast hypertrophy
- Gynecomastia
- Assessment and principles of treatment of breast hypoplasia

### **6) Trunk reconstruction:**

- Principles of assessment and treatment of pressure sores

### **7) Microsurgery:**

- Principles of revascularization and replantation
- Principles of nerve and vessel repair

### **8) Peripheral nerve surgery:**

- Clinical assessment of major nerves of upper extremity (excluding brachial plexus)
- Nerve compression syndromes of the upper limb

### **9) Aesthetic surgery:**

- Effects of sun-damage, nicotine, and other environmental factors on the normal aging process
- (Principles of) Augmentation with alloplastic materials
- Assessment and principles of treatment of the aging face
- Assessment and principles of treatment of the patient requesting abdominal contouring

### **10) Technical skills:**

- Revision amputation
- Extensor tendon repair
- Basics of flexor tendon repair
- Opening and closing of surgical wounds
- Microsurgical assisting
- Digital nerve repair
- Reduction of common hand and wrist fractures
- Local anaesthesia related to above

- Biopsy of cutaneous lesions
- Excision of common skin lesions
- Harvesting and use of split and full thickness skin grafts
- Design and execution of z-plasty, transposition and rotation flaps
- Planning and execution of basic breast reduction
- Placing of breast tissue expander for immediate reconstruction
- Carpal tunnel release
- Ulnar nerve transposition
- Liposuction
- Basics of breast augmentation
- Basics of abdominoplasty

**B) Communicator:** The communicator role is defined by: “As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care.”

Skills and expertise which are particularly relevant for the PGY3 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Recognize that being a good communicator is a core clinical skill for physicians, and that effective physician-patient communication can foster patient satisfaction, physician satisfaction, adherence and improved clinical outcomes
- Establish positive therapeutic relationships with patients and their families that are characterized by understanding, trust, respect, honesty and empathy
- Respect patient confidentiality, privacy and autonomy
- Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues, and other professionals
- Present verbal reports of clinical encounters and plans effectively
- Address challenging communication issues effectively, such as obtaining informed consent

**Specific Examples for the PGY3 Resident:**

- Obtain and present a comprehensive and concise history and physical examination from patients with “undifferentiated” problems
- Dictate complete notes for medical records
- Able to explain treatment options to patient for various clinical problems including possible complications

**C) Collaborator:** The collaborator role is defined by: “As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care.” The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

Skills and expertise which are particularly relevant for the PGY3 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Describe the Plastic Surgeon's roles and responsibilities to other professionals
- Recognize and respect the diversity of roles, responsibilities and competences of other professionals in relation to their own
- Enter into interdependent relationships with other professions for the provision of quality care



**Specific Examples for the PGY3 Resident:**

- Conduct “surgical pause” at beginning of operative procedures in conjunction with anaesthesia and nursing staff
- Participate collaboratively with colleagues in planning of call schedules, coverage of clinical responsibilities
- Communicate with hand therapists in the care of hand injuries

**D) Leader:** The leader role is defined by: “As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers.” For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

Skills and expertise which are particularly relevant for the PGY3 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Demonstrate an understanding of the influences that affect the workings of the health care system at various levels
- Participate in activities that contribute to the effectiveness of their health care organizations and systems
- Manage their practice and career effectively
- Allocate finite health care resources appropriately

**Specific Examples for the PGY3 Resident:**

- Anticipate learning needs of medical students and participate in planning of their clinical responsibilities
- Help to organize junior and off-service residents' schedules
- Organize personal schedule to allow for participation in work, study time and “off work” time

**E) Health Advocate:** The health advocate role is defined by: “As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change.” The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

Skills and expertise which are particularly relevant for the PGY3 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Identify the health needs of an individual patient
- Appreciate the possibility of competing interests between the communities served and other populations
- Describe the ethical and professional issues inherent in health advocacy, including altruism, social justice, autonomy, integrity and idealism

**Specific Examples for the PGY3 Resident:**

- Recognize populations at risk for lower extremity amputations
- Understand basics of the role of plastic surgery in global health initiatives

- F) Scholar:** The scholar role is defined by: "As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship." The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

Skills and expertise which are particularly relevant for the PGY3 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (2008) include:

- Describe the principles and strategies for implementing a personal knowledge management system
- Access and interpret the relevant evidence
- Describe the principles of critical appraisal
- Assess and reflect on a teaching encounter
- Describe the principles of research and scholarly inquiry
- Conduct a systematic search for evidence

**Specific Examples for the PGY3 Resident:**

- Assist in preparing site cases for weekly citywide rounds
- Learn the basics of "evidence-based medicine" and its application to plastic surgery
- Complete a project for annual Residents' Research Day

- G) Professional:** The professional role is defined by: "As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health." The key competencies for this role include a demonstrated commitment to patients and the profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

Skills and expertise which are particularly relevant for the PGY-3 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (2008) include:

- Exhibit appropriate professional behaviors in practice, including honesty, integrity, commitment, compassion, respect and altruism
- Recognize the principles and limits of patient confidentiality as defined by professional practice standards and the law
- Balance personal and professional priorities to ensure personal health and a sustainable practice
- Appreciate the professional, legal and ethical codes of practice
- Strive to heighten personal and professional awareness and insight

**Specific Examples for the PGY3 Resident:**

- Be aware of CPSO defined responsibilities of trainees in academic settings
- Create a sustainable plan to maintain personal physical health
- Maintain appropriate relationships with patients

**Summary:** It is important to review these objectives at the start of your rotation at St. Joseph's Health Care. It is suggested that you meet with the site chief at the time of your arrival to formulate a learning plan. If you have any concerns about any aspect of the rotation, please contact Dr. Ross at any time to discuss. We sincerely hope you enjoy your time with us.

## Learning Objectives ~ PGY4 Rotation at St. Joseph's

**Introduction & Statement of Goals for the Rotation:** The Plastic Surgery Rotation at St. Joseph's Health Care encompasses both general principles of Plastic Surgery as well as specific subspecialty areas of clinical expertise. The latter are summarized within the "Medical Expert" description below.

The PGY4 year is a consolidation period when the resident is fully immersed in the Plastic Surgery service. One should start to become a more effective teacher and mentor to junior residents.

In general, the PGY4 resident should build on the foundational skills and knowledge of the PGY3 resident and acquire of more complex and specific skills, attitudes and knowledge during their two senior on-service years.

Objectives of training are based upon the CanMeds Competencies which are summarized in the following diagram:



- A) Medical Expert:** The rotation at St. Joseph's possesses particular expertise in: 1) wound healing, 2) skin & cutaneous malignancies, 3) hand surgery (including congenital hand surgery), 4) breast surgery, 5) trunk reconstruction, 6) microsurgery, 7) peripheral nerve surgery, 8) aesthetic surgery. The PGY4 resident should seek to establish baseline knowledge in each of these areas.

Skills and expertise which are particularly relevant for the PGY4 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (Available at

[http://www.royalcollege.ca/rc/faces/oracle/webcenter/portalapp/pages/ibd.jspx;jsessionid=G8FTRgnWn1lkZppnSPd62lQJw7GBL79W2YmBn1yybPy26vr67ny2!-1464975945?lang=en&\\_afLoop=19301505696945896&\\_afWindowMode=0&\\_afWindowId=null#%40%3F\\_afWindowId%3Dnull%26\\_afLoop%3D19301505696945896%26lang%3Den%26\\_afWindowMode%3D0%26\\_adf.ctrl-state%3Dimysph6ra\\_4](http://www.royalcollege.ca/rc/faces/oracle/webcenter/portalapp/pages/ibd.jspx;jsessionid=G8FTRgnWn1lkZppnSPd62lQJw7GBL79W2YmBn1yybPy26vr67ny2!-1464975945?lang=en&_afLoop=19301505696945896&_afWindowMode=0&_afWindowId=null#%40%3F_afWindowId%3Dnull%26_afLoop%3D19301505696945896%26lang%3Den%26_afWindowMode%3D0%26_adf.ctrl-state%3Dimysph6ra_4)) include:

**1) General:** Perform a Plastic Surgery consultation effectively, including the presentation of well-documented assessments and recommendations in written and/or verbal form in response to a request from another health care professional, including the recognition, diagnosis, management and appropriate counseling.

### **2) Wound healing:**

#### **Knowledge:**

- Effect of radiation, diabetes mellitus and other disease processes on wound healing
- Indications for and techniques of using VAC therapy

### **3) Skin & cutaneous malignancies:**

#### **Knowledge:**

- Principles of tumour surgery, adjuvant therapies where appropriate, sentinel node biopsy and Moh's micrographic surgery
- Benign and malignant tumours of skin and its adnexa with emphasis on melanoma, basal cell cancer and squamous cell cancer (Principles)
- Principles of treatment of soft tissue sarcomas of the upper extremity

### **4) Hand surgery:**

#### **Knowledge:**

- Assessment and treatment of Dupuytren's disease
- Assessment and treatment of complications of tendon injuries including rupture and adhesions
- Principles of tendon transfers in the upper extremity
- Assessment and repair of soft tissue defects and composite tissue defects of the upper extremity

### **5) Breast:**

- Principles of breast reconstruction post-mastectomy
- Breast hypertrophy
- Gynecomastia
- Assessment and principles of treatment of breast hypoplasia

### **6) Trunk reconstruction:**

- Principles of assessment and treatment of pressure sores

### **7) Microsurgery:**

- Principles of revascularization and replantation
- Principles of nerve and vessel repair

### **8) Peripheral nerve surgery:**

- Clinical assessment of brachial plexus injuries
- Recurrent nerve compression syndromes of the upper limb
- Reconstruction of nerve defects

### **9) Aesthetic surgery:**

- Assessment and principles of treatment of the aging forehead and brow including surgical and non-surgical options including dermal fillers, Botox
- Assessment and principles of treatment of esthetic breast abnormalities
- Assessment and principles of breast augmentation surgery
- Demonstrate the ability to assess and mark a breast reduction or mastopexy
- Principles of skin restoration including dermabrasion, chemical peels, lasers and retinoids

### **10) Technical skills:**

- Surgical exposure of Dupuytren's disease
- Harvesting of tendon and nerve grafts
- Basics of flexor tendon tenolysis
- Basics of tumescent anesthesia and liposuction
- Excision Dupuytren's fascia
- Basics of breast augmentation
- Basics of Botox injection
- Basics of fat injection

- Basics of dermal filler injections
- Surgical techniques for open and endoscopic browlift

**B) Communicator:** The communicator role is defined by: “As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care.”

Skills and expertise which are particularly relevant for the PGY4 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Recognize that being a good communicator is a core clinical skill for physicians, and that effective physician-patient communication can foster patient satisfaction, physician satisfaction, adherence and improved clinical outcomes
- Establish positive therapeutic relationships with patients and their families that are characterized by understanding, trust, respect, honesty and empathy
- Respect patient confidentiality, privacy and autonomy
- Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues, and other professionals
- Present verbal reports of clinical encounters and plans effectively
- Address challenging communication issues effectively, such as obtaining informed consent

**Specific Examples for the PGY4 Resident:**

- Appropriately communicate with referring physicians while on call to triage referrals and appropriate follow-up
- Explain pros and cons of various possible treatments to patients and obtain informed consent
- Assess, speak with, and reassure patients who have experienced surgical complications

**C) Collaborator:** The collaborator role is defined by: “As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care.” The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

Skills and expertise which are particularly relevant for the PGY4 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Describe the Plastic Surgeon’s roles and responsibilities to other professionals
- Recognize and respect the diversity of roles, responsibilities and competences of other professionals in relation to their own
- Enter into interdependent relationships with other professions for the provision of quality care

**Specific Examples for the PGY4 Resident:**

- Communicate with hand therapists re: plans for treatment
- Work with fellow residents to plan teaching rounds, weekly responsibilities on service
- Proactively review with nursing staff specific needs for operative cases

**D) Leader:** The leader role is defined by: “As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators,

scholars or teachers.” For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

Skills and expertise which are particularly relevant for the PGY4 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Demonstrate an understanding of the influences that affect the workings of the health care system at various levels
- Participate in activities that contribute to the effectiveness of their health care organizations and systems
- Manage their practice and career effectively
- Allocate finite health care resources appropriately

**Specific Examples for the PGY4 Resident:**

- Begin to effectively manage multiple demands on time (e.g. while on call)
- Delegate tasks for more junior learners such as medical students
- Develop knowledge of requirements for postgraduate fellowships and begin to plan/apply as appropriate

- E) Health Advocate:** The health advocate role is defined by: “As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change.” The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

Skills and expertise which are particularly relevant for the PGY4 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Identify the health needs of an individual patient
- Appreciate the possibility of competing interests between the communities served and other populations
- Describe the ethical and professional issues inherent in health advocacy, including altruism, social justice, autonomy, integrity and idealism

**Specific Examples for the PGY4 Resident:**

- Begin to identify “at risk” patient populations and address their particular health needs
- Learn the elements of effective interventions for weight loss, smoking cessation etc.

- F) Scholar:** The scholar role is defined by: “As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship.” The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

Skills and expertise which are particularly relevant for the PGY4 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Describe the principles and strategies for implementing a personal knowledge management system
- Access and interpret the relevant evidence
- Describe the principles of critical appraisal
- Assess and reflect on a teaching encounter
- Describe the principles of research and scholarly inquiry
- Conduct a systematic search for evidence

**Specific Examples for the PGY4 Resident:**

- Provide evaluation feedback to more junior learners
- Submit a research project for ethics approval
- Present one project at a scholarly meeting

**G) Professional:** The professional role is defined by: “As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health.” The key competencies for this role include a demonstrated commitment to patients and the profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

Skills and expertise which are particularly relevant for the PGY4 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Exhibit appropriate professional behaviors in practice, including honesty, integrity, commitment, compassion, respect and altruism
- Recognize the principles and limits of patient confidentiality as defined by professional practice standards and the law
- Balance personal and professional priorities to ensure personal health and a sustainable practice
- Appreciate the professional, legal and ethical codes of practice
- Strive to heighten personal and professional awareness and insight

**Specific Examples for the PGY4 Resident:**

- Be aware of the requirements for, and obtain Consent for Photography of patients to be used in both a clinical and academic settings
- Construct a plan for acquiring knowledge which will form the basis for lifelong learning in professional practice (i.e. study plan)

**Summary:** It is important to review these objectives at the start of your rotation at St. Joseph's Health Care. It is suggested that you meet with the site chief at the time of your arrival to formulate a learning plan. If you have any concerns about any aspect of the rotation, please contact Dr. Ross at any time to discuss. We sincerely hope you enjoy your time with us.

## Learning Objectives ~ PGY5 Rotation at St. Joseph's

**Introduction & Statement of Goals for the Rotation:** The Plastic Surgery Rotation at St. Joseph's Health Care encompasses both general principles of Plastic Surgery as well as specific subspecialty areas of clinical expertise. The latter are summarized within the "Medical Expert" description below.

The PGY5 year is a period when the resident is transitioning from the role of "supervised learner" to that of an independently practicing surgeon. As such, increasing independence and a proactive attitude to patient care is encouraged and expected. Technical skills evolve at a different pace in each learner but it is expected that at the completion of the PGY5 year, the resident will be able to safely operate in an independent manner while at all times respecting patient safety.

In general, the PGY5 resident should build on the foundational skills and knowledge of the preceding 4 years to consolidate knowledge, judgment and skills to provide independent care for all aspects of patient care.

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



- A) Medical Expert:** For the rotation at SJHC, the PGY5 resident should seek to establish baseline knowledge in each of the following areas.

Skills and expertise which are particularly relevant for the PGY5 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (Available at,

[http://www.royalcollege.ca/rc/faces/oracle/webcenter/portalapp/pages/ibd.jspx;jsessionid=G8FTRgnWn1lkZppnSPd62lQJw7GBL79W2YmBn1yybPy26vr67ny2!-1464975945?lang=en&\\_afLoop=19301505696945896&\\_afWindowMode=0&\\_afWindowId=null#%40%3F\\_afWindowId%3Dnull%26\\_afLoop%3D19301505696945896%26lang%3Den%26\\_afWindowMode%3D0%26\\_adf.ctrl-state%3Dimysph6ra\\_4](http://www.royalcollege.ca/rc/faces/oracle/webcenter/portalapp/pages/ibd.jspx;jsessionid=G8FTRgnWn1lkZppnSPd62lQJw7GBL79W2YmBn1yybPy26vr67ny2!-1464975945?lang=en&_afLoop=19301505696945896&_afWindowMode=0&_afWindowId=null#%40%3F_afWindowId%3Dnull%26_afLoop%3D19301505696945896%26lang%3Den%26_afWindowMode%3D0%26_adf.ctrl-state%3Dimysph6ra_4)) include:

**1) General:** Function effectively as a "junior consultant", integrating all of the CanMEDS Roles to provide optimal, ethical and patient-centred medical care.

### **2) Wound healing:**

#### **Knowledge:**

- Ability to direct external agencies (such as CCAC) to manage chronic and complex wounds in an effective and cost-efficient manner
- Anticipate and plan for reconstruction of complex and unfavorable wounds in a rational and considered fashion



### **3) Skin & cutaneous malignancies:**

#### **Knowledge:**

- Indications for and limitations of sentinel node biopsy in melanoma and other cutaneous malignancies
- Comprehensive planning for all types of local flaps
- Knowledge of adjuvant therapies for the treatment of skin cancers
- Surgical anatomy of groin and axillary node dissections

### **4) Hand surgery:**

- Treatment of recurrent and advanced Dupuytren's disease
- Technique of two stage flexor tendon reconstructions
- Specific techniques for tendon transfers in the upper extremity (median, ulnar and radial nerve palsies)
- Comprehensive management of amputations (including replantation)
- Comprehensive management of complex upper extremity wounds/injuries
- Management of all hand and carpal fractures and dislocations including scaphoid non-union
- Comprehensive management of all compression neuropathies in the upper extremity
- Comprehensive management of arthritis in the hand and wrist

### **5) Breast:**

- Comprehensive management of the irradiated breast in reconstruction
- Mastopexy including all options for scars/patterns
- Reconstruction of the constricted breast
- Advanced techniques in breast reduction (alternative pedicles etc.)
- Options for, and anatomy of, all flap options for breast reconstruction

### **6) Trunk reconstruction:**

- Treatment of (and anatomy of flaps to treat) recurrent pressure sores
- Treatment of massive abdominal hernias with component separation

### **7) Microsurgery:**

- Replantation of major amputations
- Harvesting and use of vein grafts for microvascular surgery
- Comprehensive management of the failing free flap

### **8) Peripheral nerve surgery:**

- Clinical pre-operative and intra-operative decision making for the injured brachial plexus
- Techniques for nerve transfers and grafting in the upper extremity
- Assessment and treatment of peripheral nerve tumours

### **9) Aesthetic surgery:**

- Assessment and principles of treatment of the aging face and neck and eyelids which includes surgical and non-surgical options including skin resurfacing and volume enhancement with fillers
- Assessment and principles of treatment of nasal deformities including external deformity and airway problems

### **10) Technical skills:**

- Excision/release of recurrent Dupuytren's disease
- Anastomosis of vessels > 2mm diameter
- Nerve grafting

- Execution of all types of local flaps
- Closed and open reduction of all types of hand and carpal fractures/dislocations
- Tendon transfers for median, ulnar and radial nerve palsies
- Bone grafting for scaphoid non-union
- Arthroplasty of thumb CMC joint
- Breast reconstruction using pedicled latissimus dorsi flap
- Breast reconstruction using tissue expanders/implants
- Elevation of TRAM/DIEP flaps for breast reconstruction
- Complete axillary and groin dissections
- Elevation of a facelift flap and SMAS plication
- Elevation of a necklift flap and platysmal plication
- Elevation of a lower lid muscle skin flap and creation of lower lid support with a canthopexy
- Completion of the external approach to rhinoplasty

**B) Communicator:** The communicator role is defined by: “As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care.”

Skills and expertise which are particularly relevant for the PGY5 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Recognize that being a good communicator is a core clinical skill for physicians, and that effective physician-patient communication can foster patient satisfaction, physician satisfaction, adherence and improved clinical outcomes
- Establish positive therapeutic relationships with patients and their families that are characterized by understanding, trust, respect, honesty and empathy
- Respect patient confidentiality, privacy and autonomy
- Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues, and other professionals
- Present verbal reports of clinical encounters and plans effectively
- Address challenging communication issues effectively, such as obtaining informed consent

**Specific Examples for the PGY5 Resident:**

- Appropriately communicate with consultants on other services to expedite and coordinate patient care
- Fully explain a planned surgical procedure in a comprehensive and expeditious fashion
- Communicate in an independent fashion with patients about post-operative concerns

**C) Collaborator:** The collaborator role is defined by: “As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care.” The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

Skills and expertise which are particularly relevant for the PGY5 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Describe the Plastic Surgeon's roles and responsibilities to other professionals
- Recognize and respect the diversity of roles, responsibilities and competences of other professionals in relation to their own

- Enter into interdependent relationships with other professions for the provision of quality care

**Specific Examples for the PGY5 Resident:**

- In a leadership role, effectively collaborate with nurses, anaesthesia staff and other members of the health care team to enhance patient care.
- Effectively listen to, acknowledge and facilitate the learning needs of, fellow residents in providing patient care

**Leader:** The leader role is defined by: “As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers.” For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

Skills and expertise which are particularly relevant for the PGY5 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Demonstrate an understanding of the influences that affect the workings of the health care system at various levels
- Participate in activities that contribute to the effectiveness of their health care organizations and systems
- Manage their practice and career effectively
- Allocate finite health care resources appropriately

**Specific Examples for the PGY5 Resident:**

- Effectively manage duties and responsibilities of more junior members of surgical team including call schedules etc.
- Effectively manage multiple, at times conflicting, demands upon time
- Create weekly assignment schedule for medical students, junior residents and senior residents on service

**D) Health Advocate:** The health advocate role is defined by: “As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change.” The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

Skills and expertise which are particularly relevant for the PGY5 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Identify the health needs of an individual patient
- Appreciate the possibility of competing interests between the communities served and other populations
- Describe the ethical and professional issues inherent in health advocacy, including altruism, social justice, autonomy, integrity and idealism

**Specific Examples for the PGY5 Resident:**

- Anticipate differing needs and adjust care of disadvantaged populations (e.g.

- o the elderly, drug dependence etc.)
- o Understand the role of plastic surgical organizations in advocating for patient health
- o Understand the role of plastic surgery in enhancing global health initiatives

**E) Scholar:** The scholar role is defined by: “As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship.” The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

Skills and expertise which are particularly relevant for the PGY5 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Describe the principles and strategies for implementing a personal knowledge management system
- Access and interpret the relevant evidence
- Describe the principles of critical appraisal
- Assess and reflect on a teaching encounter
- Describe the principles of research and scholarly inquiry
- Conduct a systematic search for evidence

**Specific Examples for the PGY5 Resident:**

- o Submit one research project to a peer reviewed publication
- o Develop and implement a comprehensive study plan in preparation for Royal College qualifying examinations
- o Successfully complete the Royal College qualifying examinations

**F) Professional:** The professional role is defined by: “As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health.” The key competencies for this role include a demonstrated commitment to patients and the profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

Skills and expertise which are particularly relevant for the PGY5 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Exhibit appropriate professional behaviors in practice, including honesty, integrity, commitment, compassion, respect and altruism
- Recognize the principles and limits of patient confidentiality as defined by professional practice standards and the law
- Balance personal and professional priorities to ensure personal health and a sustainable practice
- Appreciate the professional, legal and ethical codes of practice
- Strive to heighten personal and professional awareness and insight

**Specific Examples for the PGY5 Resident:**

- o Develop and implement a personal fitness plan while preparing for Royal College qualifying examinations
- o Complete any plans for fellowships and/or job opportunities
- o Plan for and complete preparations requirements for independent licensure

**Summary:** It is important to review these objectives at the start of your rotation at St. Joseph's Health Care. It is suggested that you meet with the site chief at the time of your arrival to formulate a learning plan. If you have any concerns about any aspect of the rotation, please contact Dr. Ross at any time to discuss. We sincerely hope you enjoy your time with us.

## Site Objectives – University Hospital Campus

### Learning Objectives ~ PGY2 Rotation at University Hospital

**Introduction & Statement of Goals for the Rotation:** The Plastic Surgery Rotation at University Hospital encompasses both general principles of Plastic Surgery as well as specific subspecialty areas of clinical expertise. The latter are summarized within the “Medical Expert” description below.

The PGY2 year is a period in which the plastic surgery resident will continue to lay the basis for plastic surgery residency and practice as well as consolidate the core knowledge required to successfully complete the Foundations of Surgery examination. As such, the following objectives rely both on general objectives as outlined for Surgical Foundations as well as those specific to Plastic Surgery.

In general, during this time of initial on-service rotations in your chosen specialty, the PGY2 resident should focus on acquiring broad knowledge of Plastic Surgery principles and fundamental skills that will serve as a foundation for lifelong learning during a career in Plastic Surgery.

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



- A) Medical Expert:** The rotation at University Hospital possesses particular expertise in: 1) hand surgery, 2) breast surgery, 3) trunk and scalp reconstruction, 4) microsurgery, 5) aesthetic surgery. The PGY2 resident should seek to establish baseline knowledge in broad principles which form the basis of assessment and treatment of patients with problems encompassed by these general categories.

Skills and expertise which are particularly relevant for the PGY2 resident which are taken from the two Royal College documents, “Objectives of Surgical Foundations Training” and “Objectives of Training in Plastic Surgery” (Available at, [http://www.royalcollege.ca/rc/faces/oracle/webcenter/portalapp/pages/ibd.jspx;jsessionid=G8FTRqnWn1lkZppnSPd62lQJw7GBL79W2YmBn1yybPy26vr67ny2!-1464975945?lang=en&\\_afLoop=19301505696945896&\\_afWindowMode=0&\\_afWindowId=null#%40%3F\\_afWindowId%3Dnull%26\\_afLoop%3D19301505696945896%26lang%3Den%26\\_afWindowMode%3D0%26\\_adf.ctrl-state%3Dimysph6ra\\_4](http://www.royalcollege.ca/rc/faces/oracle/webcenter/portalapp/pages/ibd.jspx;jsessionid=G8FTRqnWn1lkZppnSPd62lQJw7GBL79W2YmBn1yybPy26vr67ny2!-1464975945?lang=en&_afLoop=19301505696945896&_afWindowMode=0&_afWindowId=null#%40%3F_afWindowId%3Dnull%26_afLoop%3D19301505696945896%26lang%3Den%26_afWindowMode%3D0%26_adf.ctrl-state%3Dimysph6ra_4)) include:

1) Demonstrate the ability to perform a consultation, integrating all of the CanMEDS Roles to provide optimal, ethical and patient-centred medical care.

2) Establish and maintain clinical knowledge, skills and attitudes appropriate to surgical practice. Subcategory items from the Surgical Foundations objectives which are particularly relevant to this rotation include:

- Anatomy (particularly hand, face, various free flaps)
- Disease states in organ systems and their impact on the surgical patient
- Risk assessment strategies and scores
- Diagnostic modalities including their technology and limitations
- Oncology (including staging, genetics, multi-modality therapy etc.)
- Common infections (particularly hand, diabetic patients, iv drug abuse patients)
- Principles of anaesthesia, analgesia and sedation
- Demonstrate an understanding of routine post-operative patient care
- Compartment syndromes
- Wound healing

3) Demonstrate proficient and appropriate use of procedural skills including:

- Demonstrate effective, appropriate and timely performance of a surgical procedure while maintaining patient and team safety
- Demonstrate effective operative assistance
- Perform training-appropriate surgical skills (e.g. I&D, techniques of wound closure, wound opening, excision skin lesions)

**B) Communicator:** The communicator role is defined by: "As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care."

Skills and expertise which are particularly relevant for the PGY2 resident which are taken from the Royal College document, "Objectives of Surgical Foundations Training" include:

- Develop rapport, trust, and ethical therapeutic relationships with patients and families.
- Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues, and other professionals.
- Convey relevant information and explanations accurately to patients and families, colleagues and other professionals.
- Develop a common understanding on issues, problems and plans with patients, families, and other professionals to develop a shared plan of care.
- Convey effective oral and written information about a medical encounter.

**Specific Examples for the PGY2 Resident:**

- Obtain and present a complete history and physical examination from patients with "undifferentiated" problems.
- Dictate well organized and complete notes for medical records.
- Able to explain treatment options to patient for basic clinical problems.

**C) Collaborator:** The collaborator role is defined by: "As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care." The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

Skills and expertise which are particularly relevant for the PGY2 resident which are taken from the Royal College document, "Objectives of Surgical Foundations Training" include:

- Participate effectively and appropriately in an inter-professional and interdisciplinary health care team.
- Work with other health professionals effectively to prevent, negotiate, and resolve conflict.

**Specific Examples for the PGY2 Resident:**

- Recognize and respect the diversity of roles, responsibilities and competencies of other professionals in relation to their own.
- Work with others to assess, plan, provide and integrate care for individual patients (e.g. CCAC, hand therapy, rehabilitation medicine).

**D) Leader:** The leader role is defined by: "As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers." For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

Skills and expertise which are particularly relevant for the PGY2 resident which are taken from the Royal College document, "Objectives of Surgical Foundations Training" include:

- Demonstrate an understanding of the influences that affect the workings of the health care system at various levels
- Participate in activities that contribute to the effectiveness of their health care organizations and systems
- Manage their practice and career effectively
- Allocate finite health care resources appropriately

**Specific Examples for the PGY2 Resident:**

- Employ information technology appropriately for patient care
- Set priorities and manage time to balance patient care, practice requirements, outside activities and personal life
- Basic understanding of roles and activities of Worker's Compensation, Provincial Coroner

**E) Health Advocate:** The health advocate role is defined by: "As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change." The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

Skills and expertise which are particularly relevant for the PGY2 resident which are taken from the Royal College document, "Objectives of Surgical Foundations Training" include:

- Respond to individual patient health needs and issues as part of patient care
- Describe and respond to the health needs of the communities that they serve
- Promote the health of individual patients, communities, and populations



- Promote and participate in patient safety

**Specific Examples for the PGY2 Resident:**

- Identify the health needs of an individual patient
- Recognize opportunities for advocacy, health promotion and disease prevention with individuals to whom they provide care (e.g., child abuse, domestic violence, smoking cessation, patient behaviours that place them at risk for disease or injury)

**F) Scholar:** The scholar role is defined by: “As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship.” The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

Skills and expertise which are particularly relevant for the PGY2 resident which are taken from the Royal College document, “Objectives of Surgical Foundations Training” include:

- Critically evaluate medical information and its sources, and apply this appropriately to practice decisions
- Demonstrate an understanding of the principles of dissemination of new knowledge

**Specific Examples for the PGY2 Resident:**

- Present and review cases at citywide rounds.
- Learn the general principles of “evidence-based medicine.”
- Complete a project for annual Residents’ Research Day.

**G) Professional:** The professional role is defined by: “As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health.” The key competencies for this role include a demonstrated commitment to patients and the profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

Skills and expertise which are particularly relevant for the PGY2 resident which are taken from the Royal College document, “Objectives of Surgical Foundations Training” include:

- Demonstrate a commitment to their patients, profession, and society through ethical practice
- Demonstrate a commitment to their patients, profession and society through participation in profession-led regulation
- Demonstrate a commitment to physician health and sustainable practice

**Specific Examples for the PGY2 Resident:**

- Demonstrate an awareness of the risks associated with the high stress environments in which surgeons work
- Exhibit appropriate professional behaviours in practice, including honesty, integrity, commitment, compassion, respect and altruism

**Summary:** It is important to review these objectives at the start of your rotation at University Hospital. It is suggested that you meet with the site chief at the time of your arrival to formulate a learning plan. If you have any concerns about any aspect of the rotation, please contact Dr. Grant at any time to discuss. We sincerely hope you enjoy your time with us.

## Learning Objectives ~ PGY3 Rotation at University Hospital

**Introduction & Statement of Goals for the Rotation:** The Plastic Surgery Rotation at University Hospital encompasses both general principles of Plastic Surgery as well as specific subspecialty areas of clinical expertise. The latter are summarized within the “Medical Expert” description below.

The PGY3 year is a transition period from a time in which the majority of experiences are “off-service” to a time when the resident is fully immersed in the Plastic Surgery service. As such, it can be a stressful time when expectations of skills and knowledge seem high but the opportunity for experience has been limited. This is particularly true for the blocks early in the academic year.

In general, the PGY3 resident should acquire foundational skills and knowledge of Plastic Surgery that will serve as a basis for the acquisition of more complex and specific skills, attitudes and knowledge during their two senior on-service years.

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



- A) Medical Expert:** The rotation at University Hospital possesses particular expertise in: 1) hand surgery, 2) breast surgery, 3) trunk and scalp reconstruction, 4) microsurgery, 5) peripheral nerve surgery, 6) aesthetic surgery. The PGY3 resident should seek to establish baseline knowledge in each of these areas.

Skills and expertise which are particularly relevant for the PGY3 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (Available at [http://www.royalcollege.ca/rc/faces/oracle/webcenter/portalapp/pages/ibd.jspx;jsessionid=G8FTRgnWn1lkZppnSPd62lQJw7GBL79W2YmBn1yybPy26vr67ny2!-1464975945?lang=en&\\_afLoop=19301505696945896&\\_afWindowMode=0&\\_afWindowId=null#%40%3F\\_afWindowId%3Dnull%26\\_afLoop%3D19301505696945896%26lang%3Den%26\\_afWindowMode%3D0%26\\_adf.ctrl-state%3Dimysph6ra\\_4](http://www.royalcollege.ca/rc/faces/oracle/webcenter/portalapp/pages/ibd.jspx;jsessionid=G8FTRgnWn1lkZppnSPd62lQJw7GBL79W2YmBn1yybPy26vr67ny2!-1464975945?lang=en&_afLoop=19301505696945896&_afWindowMode=0&_afWindowId=null#%40%3F_afWindowId%3Dnull%26_afLoop%3D19301505696945896%26lang%3Den%26_afWindowMode%3D0%26_adf.ctrl-state%3Dimysph6ra_4)) include:

**1) General:** Perform a Plastic Surgery consultation effectively, including the presentation of well-documented assessments and recommendations in written and/or verbal form in response to a request from another health care professional, including the recognition, diagnosis, management and appropriate counseling.

### **2) Wound healing:**

#### **Knowledge:**

- Normal and abnormal wound healing
- (Principles of) Grafts and flaps of the tissue types or composites thereof (bone,

- cartilage, other soft tissues)
- Principles of dressings

### **3) Skin & cutaneous malignancies:**

#### **Knowledge:**

- Principles of tumour surgery, adjuvant therapies where appropriate
- Benign and malignant tumours of skin and its adnexa with emphasis on melanoma, basal cell cancer and squamous cell cancer (Principles)

### **4) Hand surgery:**

#### **Knowledge:**

- Hand infections
- Principles of fracture reduction and fixation (including dislocations of the hand)
- Assessment and repair of tendon injuries
- Assessment and repair of finger/fingertip amputations

### **5) Breast:**

- Principles of breast reconstruction post-mastectomy
- Breast hypertrophy
- Assessment and principles of treatment of breast hypoplasia

### **6) Trunk and scalp reconstruction:**

- Principles of assessment and treatment of abdominal wall defects and scalp / skull defects

### **7) Microsurgery:**

- Principles of vessel and nerve repair

### **8) Peripheral nerve surgery:**

- Clinical assessment of major nerves of upper extremity (excluding brachial plexus)
- Nerve compression syndromes of the upper limb

### **9) Aesthetic surgery:**

- Effects of sun-damage, nicotine, and other environmental factors on the normal aging process
- (Principles of) Augmentation with alloplastic materials
- Assessment and principles of treatment of the aging face
- Assessment and principles of treatment of the patient requesting abdominal contouring

### **10) Technical skills:**

- Revision amputation
- Extensor tendon repair
- Basics of flexor tendon repair
- Appropriate exposure in the hand
- Microsurgical assisting
- Digital nerve repair
- Local anaesthesia related to above
- Biopsy of cutaneous lesions
- Excision of common skin lesions
- Harvesting and use of split and full thickness skin grafts
- Design and execution of z-plasty, transposition and rotation flaps
- Planning and execution of basic breast reduction

- Placing of breast tissue expander for immediate reconstruction
- Carpal tunnel release
- Ulnar nerve transposition
- Liposuction
- Basics of breast augmentation
- Basics of abdominoplasty

**B) Communicator:** The communicator role is defined by: “As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care.”

Skills and expertise which are particularly relevant for the PGY3 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Recognize that being a good communicator is a core clinical skill for physicians, and that effective physician-patient communication can foster patient satisfaction, physician satisfaction, adherence and improved clinical outcomes
- Establish positive therapeutic relationships with patients and their families that are characterized by understanding, trust, respect, honesty and empathy
- Respect patient confidentiality, privacy and autonomy
- Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues, and other professionals
- Present verbal reports of clinical encounters and plans effectively
- Address challenging communication issues effectively, such as obtaining informed consent

**Specific Examples for the PGY3 Resident:**

- Obtain and present a comprehensive and concise history and physical examination from patients with “undifferentiated” problems
- Dictate complete notes for medical records
- Able to explain treatment options to patient for various clinical problems including possible complications

**C) Collaborator:** The collaborator role is defined by: “As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care.” The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

Skills and expertise which are particularly relevant for the PGY3 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Describe the Plastic Surgeon's roles and responsibilities to other professionals
- Recognize and respect the diversity of roles, responsibilities and competences of other professionals in relation to their own
- Enter into interdependent relationships with other professions for the provision of quality care

**Specific Examples for the PGY3 Resident:**

- Conduct “surgical pause” at beginning of operative procedures in conjunction with anaesthesia and nursing staff
- Participate collaboratively with colleagues in planning of call schedules, coverage of clinical responsibilities
- Communicate with hand therapists in the care of hand injuries

- D) Leader:** The leader role is defined by: “As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers.” For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

Skills and expertise which are particularly relevant for the PGY3 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Demonstrate an understanding of the influences that affect the workings of the health care system at various levels
- Participate in activities that contribute to the effectiveness of their health care organizations and systems
- Manage their practice and career effectively
- Allocate finite health care resources appropriately

**Specific Examples for the PGY3 Resident:**

- Anticipate learning needs of medical students and participate in planning of their clinical responsibilities
- Help to organize junior and off-service residents' schedules
- Organize personal schedule to allow for participation in work, study time and “off work” time

- E) Health Advocate:** The health advocate role is defined by: “As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change.” The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

Skills and expertise which are particularly relevant for the PGY3 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Identify the health needs of an individual patient
- Appreciate the possibility of competing interests between the communities served and other populations
- Describe the ethical and professional issues inherent in health advocacy, including altruism, social justice, autonomy, integrity and idealism

**Specific Examples for the PGY3 Resident:**

- Recognize populations at risk for lower extremity amputations
- Understand basics of the role of plastic surgery in global health initiatives

- F) Scholar:** The scholar role is defined by: “As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship.” The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

Skills and expertise which are particularly relevant for the PGY3 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (2008) include:

- Describe the principles and strategies for implementing a personal knowledge management system
- Access and interpret the relevant evidence
- Describe the principles of critical appraisal
- Assess and reflect on a teaching encounter
- Describe the principles of research and scholarly inquiry
- Conduct a systematic search for evidence

**Specific Examples for the PGY3 Resident:**

- Assist in preparing site cases for weekly citywide rounds
- Learn the basics of "evidence-based medicine" and its application to plastic surgery
- Complete a project for annual Residents' Research Day

**G) Professional:** The professional role is defined by: "As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health." The key competencies for this role include a demonstrated commitment to patients and the profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

Skills and expertise which are particularly relevant for the PGY3 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (2008) include:

- Exhibit appropriate professional behaviors in practice, including honesty, integrity, commitment, compassion, respect and altruism
- Recognize the principles and limits of patient confidentiality as defined by professional practice standards and the law
- Balance personal and professional priorities to ensure personal health and a sustainable practice
- Appreciate the professional, legal and ethical codes of practice
- Strive to heighten personal and professional awareness and insight

**Specific Examples for the PGY3 Resident:**

- Be aware of CPSO defined responsibilities of trainees in academic settings
- Create a sustainable plan to maintain personal physical health
- Maintain appropriate relationships with patients

**Summary:** It is important to review these objectives at the start of your rotation at University Hospital. It is suggested that you meet with the site chief at the time of your arrival to formulate a learning plan. If you have any concerns about any aspect of the rotation, please contact Dr. Grant at any time to discuss. We sincerely hope you enjoy your time with us.

## Learning Objectives ~ PGY4 Rotation at University Hospital

**Introduction & Statement of Goals for the Rotation:** The Plastic Surgery Rotation at University Hospital encompasses both general principles of Plastic Surgery as well as specific sub-specialty areas of clinical expertise. The latter are summarized within the “Medical Expert” description below.

The PGY4 year is a consolidation period when the resident is fully immersed in the Plastic Surgery service. One should start to become a more effective teacher and mentor to junior residents.

In general, the PGY4 resident should build on the foundational skills and knowledge of the PGY3 resident and acquire of more complex and specific skills, attitudes and knowledge during their two senior on-service years.

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



**A) Medical Expert:** The rotation at University Hospital possesses particular expertise in: 1) skin & cutaneous malignancies, 2) hand surgery, 3) breast surgery, 4) trunk, scalp and lower extremity reconstruction, 5) microsurgery, 6) peripheral nerve surgery, 7) aesthetic surgery. The PGY-4 resident should seek to establish baseline knowledge in each of these areas.

Skills and expertise which are particularly relevant for the PGY4 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (Available at,

[http://www.royalcollege.ca/rc/faces/oracle/webcenter/portalapp/pages/ibd.jspx;jsessionid=G8FTRgnWn1lkZppnSPd62lQJw7GBL79W2YmBn1yybPy26vr67ny2!-1464975945?lang=en&\\_afLoop=19301505696945896&\\_afWindowMode=0&\\_afWindowId=null#%40%3F\\_afWindowId%3Dnull%26\\_afLoop%3D19301505696945896%26lang%3Den%26\\_afWindowMode%3D0%26\\_adf.ctrl-state%3Dimysph6ra\\_4](http://www.royalcollege.ca/rc/faces/oracle/webcenter/portalapp/pages/ibd.jspx;jsessionid=G8FTRgnWn1lkZppnSPd62lQJw7GBL79W2YmBn1yybPy26vr67ny2!-1464975945?lang=en&_afLoop=19301505696945896&_afWindowMode=0&_afWindowId=null#%40%3F_afWindowId%3Dnull%26_afLoop%3D19301505696945896%26lang%3Den%26_afWindowMode%3D0%26_adf.ctrl-state%3Dimysph6ra_4)) include:

**1) General:** Perform a Plastic Surgery consultation effectively, including the presentation of well-documented assessments and recommendations in written and/or verbal form in response to a request from another health care professional, including the recognition, diagnosis, management and appropriate counseling.

### **2) Wound healing:**

#### **Knowledge:**

- Effect of radiation, diabetes mellitus and other disease processes on wound healing
- Indications for and techniques of using VAC therapy

### **3) Skin & cutaneous malignancies:**

#### **Knowledge:**

- Principles of tumour surgery, adjuvant therapies where appropriate
- Benign and malignant tumours of skin and its adnexa with emphasis on melanoma, basal cell cancer and squamous cell cancer (Principles)
- Principles of treatment of soft tissue sarcomas of the upper extremity

### **4) Hand surgery:**

#### **Knowledge:**

- Assessment and treatment of Dupuytren's disease
- Assessment and treatment of complications of tendon injuries including rupture and adhesions
- Principles of tendon transfers in the upper extremity
- Assessment and repair of soft tissue defects and composite tissue defects of the upper extremity

### **5) Breast:**

- Principles of breast reconstruction post-mastectomy
- Breast hypertrophy
- -+Assessment and principles of treatment of breast hypoplasia

### **6) Trunk, scalp, and lower extremity reconstruction:**

- Principles of assessment and treatment of pressure sores
- Principles and treatment of scalp & skull defects
- Principles of lower extremity reconstruction

### **7) Microsurgery:**

- Principles of revascularization and replantation
- Principles of nerve and vessel repair

### **8) Peripheral nerve surgery:**

- Recurrent nerve compression syndromes of the upper limb
- Reconstruction of nerve defects

### **9) Aesthetic surgery:**

- Assessment and principles of treatment of the aging forehead brow and eyelids
- Assessment and principles of treatment of the aging face and neck
- Assessment and principles of treatment of esthetic breast abnormalities
- Assessment and principles of breast augmentation surgery
- Demonstrate the ability to assess and mark a breast reduction or mastopexy
- Principles of skin restoration including dermabrasion, chemical peels, lasers and retinoids
- Principles of abdominoplasty
- Principles of liposuction

### **10) Technical skills:**

- Surgical exposure of Dupuytren's disease
- Harvesting of tendon and nerve grafts
- Basics of flexor tendon tenolysis
- Basics of tumescent anesthesia and liposuction
- Excision Dupuytren's fascia
- Basics of breast augmentation
- Basics of fat injection
- Surgical techniques for open and endoscopic browlift



- B) Communicator:** The communicator role is defined by: "As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care."

Skills and expertise which are particularly relevant for the PGY4 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (2008) include:

- Recognize that being a good communicator is a core clinical skill for physicians, and that effective physician-patient communication can foster patient satisfaction, physician satisfaction, adherence and improved clinical outcomes
- Establish positive therapeutic relationships with patients and their families that are characterized by understanding, trust, respect, honesty and empathy
- Respect patient confidentiality, privacy and autonomy
- Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues, and other professionals
- Present verbal reports of clinical encounters and plans effectively
- Address challenging communication issues effectively, such as obtaining informed consent

**Specific Examples for the PGY4 Resident:**

- Appropriately communicate with referring physicians while on call to triage referrals and appropriate follow-up
- Explain pros and cons of various possible treatments to patients and obtain informed consent
- Assess, speak with, and reassure patients who have experienced surgical complications

- C) Collaborator:** The collaborator role is defined by: "As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care." The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

Skills and expertise which are particularly relevant for the PGY4 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (2008) include:

- Describe the Plastic Surgeon's roles and responsibilities to other professionals
- Recognize and respect the diversity of roles, responsibilities and competences of other professionals in relation to their own
- Enter into interdependent relationships with other professions for the provision of quality care

**Specific Examples for the PGY4 Resident:**

- Communicate with hand therapists regarding plans for treatment
- Work with fellow residents to plan teaching rounds, weekly responsibilities on service
- Proactively review with nursing staff specific needs for operative cases

- D) Leader:** The leader role is defined by: "As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers." For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures

requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

Skills and expertise which are particularly relevant for the PGY4 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (2008) include:

- Demonstrate an understanding of the influences that affect the workings of the health care system at various levels
- Participate in activities that contribute to the effectiveness of their health care organizations and systems
- Manage their practice and career effectively
- Allocate finite health care resources appropriately

**Specific Examples for the PGY4 Resident:**

- Begin to effectively manage multiple demands on time (e.g., while on call)
- Delegate tasks for more junior learners such as medical students
- Develop knowledge of requirements for postgraduate fellowships and begin to plan/apply as appropriate

- E) Health Advocate:** The health advocate role is defined by: "As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change." The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

Skills and expertise which are particularly relevant for the PGY4 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (2008) include:

- Identify the health needs of an individual patient
- Appreciate the possibility of competing interests between the communities served and other populations
- Describe the ethical and professional issues inherent in health advocacy, including altruism, social justice, autonomy, integrity and idealism

**Specific Examples for the PGY4 Resident:**

- Begin to identify "at risk" patient populations and address their particular health needs
- Learn the elements of effective interventions for weight loss, smoking cessation etc.

- F) Scholar:** The scholar role is defined by: "As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship." The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

Skills and expertise which are particularly relevant for the PGY4 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (2008) include:

- Describe the principles and strategies for implementing a personal knowledge

management system

- Access and interpret the relevant evidence
- Describe the principles of critical appraisal
- Assess and reflect on a teaching encounter
- Describe the principles of research and scholarly inquiry
- Conduct a systematic search for evidence

**Specific Examples for the PGY4 Resident:**

- Provide evaluation feedback to more junior learners
- Submit a research project for ethics approval
- Present one project at a scholarly meeting

**G) Professional:** The professional role is defined by: "As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health." The key competencies for this role include a demonstrated commitment to patients and the profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

Skills and expertise which are particularly relevant for the PGY4 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (2008) include:

- Exhibit appropriate professional behaviors in practice, including honesty, integrity, commitment, compassion, respect and altruism
- Recognize the principles and limits of patient confidentiality as defined by professional practice standards and the law
- Balance personal and professional priorities to ensure personal health and a sustainable practice
- Appreciate the professional, legal and ethical codes of practice
- Strive to heighten personal and professional awareness and insight

**Specific Examples for the PGY4 Resident:**

- Be aware of the requirements for, and obtain Consent for Photography of patients to be used in both a clinical and academic settings
- Construct a plan for acquiring knowledge which will form the basis for lifelong learning in professional practice (ie. study plan)

**Summary:** It is important to review these objectives at the start of your rotation at University Hospital. It is suggested that you meet with the site chief at the time of your arrival to formulate a learning plan. If you have any concerns about any aspect of the rotation, please contact Dr. Grant at any time to discuss. We sincerely hope you enjoy your time with us.

## Learning Objectives ~ PGY5 Rotation at University Hospital

**Introduction & Statement of Goals for the Rotation:** The Plastic Surgery Rotation at University Hospital encompasses both general principles of Plastic Surgery as well as specific subspecialty areas of clinical expertise. The latter are summarized within the “Medical Expert” description below.

The PGY5 year is a period when the resident is transitioning from the role of “supervised learner” to that of an independently practicing surgeon. As such, increasing independence and a proactive attitude to patient care is encouraged and expected. Technical skills evolve at a different pace in each learner but it is expected that at the completion of the PGY5 year, the resident will be able to safely operate in an independent manner while at all times respecting patient safety.

In general, the PGY5 resident should build on the foundational skills and knowledge of the preceding 4 years to consolidate knowledge, judgment and skills to provide independent care for all aspects of patient care.

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



- A) Medical Expert:** For the rotation at University Hospital, the PGY5 resident should seek to establish baseline knowledge in each of the following areas.

Skills and expertise which are particularly relevant for the PGY5 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery (Available at, [http://www.royalcollege.ca/rc/faces/oracle/webcenter/portalapp/pages/ibd.jspx;jsessionid=G8FTRgnWn1lkZppnSPd62lQJw7GBL79W2YmBn1yybPy26vr67ny2!-1464975945?lang=en&\\_afLoop=19301505696945896&\\_afWindowMode=0&\\_afWindowId=null#%40%3F\\_afWindowId%3Dnull%26\\_afLoop%3D19301505696945896%26lang%3Den%26\\_afWindowMode%3D0%26\\_adf.ctrl-state%3Dimysph6ra\\_4](http://www.royalcollege.ca/rc/faces/oracle/webcenter/portalapp/pages/ibd.jspx;jsessionid=G8FTRgnWn1lkZppnSPd62lQJw7GBL79W2YmBn1yybPy26vr67ny2!-1464975945?lang=en&_afLoop=19301505696945896&_afWindowMode=0&_afWindowId=null#%40%3F_afWindowId%3Dnull%26_afLoop%3D19301505696945896%26lang%3Den%26_afWindowMode%3D0%26_adf.ctrl-state%3Dimysph6ra_4)) include:

### **1) General:**

- Function effectively as a “junior consultant”, integrating all of the CanMEDS Roles to provide optimal, ethical and patient-centred medical care.

### **2) Wound healing:**

#### **Knowledge:**

- Ability to direct external agencies (such as CCAC) to manage chronic and complex wounds in an effective and cost-efficient manner
- Anticipate and plan for reconstruction of complex and unfavorable wounds in a rational and considered fashion

### **3) Skin & cutaneous malignancies:**

#### **Knowledge:**

- Indications for and limitations of sentinel node biopsy in melanoma and other cutaneous malignancies
- Comprehensive planning for all types of local flaps
- Knowledge of adjuvant therapies for the treatment of skin cancers
- Surgical anatomy of groin and axillary node dissections

### **4) Hand surgery:**

- Treatment of recurrent and advanced Dupuytren's disease
- Technique of two stage flexor tendon reconstructions
- Specific techniques for tendon transfers in the upper extremity (median, ulnar and radial nerve palsies)
- Comprehensive management of amputations (including replantation)
- Comprehensive management of complex upper extremity wounds/injuries
- Comprehensive management of all compression neuropathies in the upper extremity
- Comprehensive management of arthritis in the hand

### **5) Breast:**

- Comprehensive management of the irradiated breast in reconstruction
- Mastopexy including all options for scars/patterns
- Reconstruction of the constricted breast
- Techniques in breast reduction
- Options for, and anatomy of, all flap options for breast reconstruction

### **6) Trunk and Scalp reconstruction:**

- Treatment of (and anatomy of flaps to treat) abdominal, chest (sternal) and scalp defects
- Treatment of massive abdominal hernias with component separation

### **7) Microsurgery:**

- Harvesting and use of vein grafts for microvascular surgery
- Comprehensive management of the failing free flap

### **8) Peripheral nerve surgery:**

- Techniques for nerve transfers and grafting in the upper extremity
- Assessment and treatment of peripheral nerve tumours

### **9) Aesthetic surgery:**

- Assessment of the aging face and development of a plan for surgical management
- Assessment of hypoplastic and ptotic breasts, and development of a plan to treat appropriately
- Assessment of the post-pregnancy abdomen, with appropriate surgical planning to correct

### **10) Technical skills:**

- Excision/release of recurrent Dupuytren's disease
- Anastomosis of vessels > 2mm diameter
- Nerve grafting
- Execution of all types of local flaps
- Closed and open reduction of all types of hand fractures/dislocations
- Tendon transfers for median, ulnar and radial nerve palsies
- Arthroplasty of thumb CMC joint

- Breast reconstruction using pedicled latissimus dorsi flap
- Breast reconstruction using tissue expanders/implants
- Elevation of TRAM/DIEP flaps for breast reconstruction

**B) Communicator:** The communicator role is defined by: “As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care.”

Skills and expertise which are particularly relevant for the PGY5 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Recognize that being a good communicator is a core clinical skill for physicians, and that effective physician-patient communication can foster patient satisfaction, physician satisfaction, adherence and improved clinical outcomes
- Establish positive therapeutic relationships with patients and their families that are characterized by understanding, trust, respect, honesty and empathy
- Respect patient confidentiality, privacy and autonomy
- Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues, and other professionals
- Present verbal reports of clinical encounters and plans effectively
- Address challenging communication issues effectively, such as obtaining informed consent

**Specific Examples for the PGY5 Resident:**

- Appropriately communicate with consultants on other services to expedite and coordinate patient care
- Fully explain a planned surgical procedure in a comprehensive and expeditious fashion
- Communicate in an independent fashion with patients about post-operative concerns

**C) Collaborator:** The collaborator role is defined by: “As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care.” The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

Skills and expertise which are particularly relevant for the PGY5 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Describe the Plastic Surgeon's roles and responsibilities to other professionals
- Recognize and respect the diversity of roles, responsibilities and competences of other professionals in relation to their own
- Enter into interdependent relationships with other professions for the provision of quality care

**Specific Examples for the PGY5 Resident:**

- In a leadership role, effectively collaborate with nurses, anaesthesia staff and other members of the health care team to enhance patient care.
- Effectively listen to, acknowledge and facilitate the learning needs of, fellow residents in providing patient care

**D) Leader:** The leader role is defined by: “As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the

delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers." For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

Skills and expertise which are particularly relevant for the PGY5 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (2008) include:

- Demonstrate an understanding of the influences that affect the workings of the health care system at various levels
- Participate in activities that contribute to the effectiveness of their health care organizations and systems
- Manage their practice and career effectively
- Allocate finite health care resources appropriately

**Specific Examples for the PGY5 Resident:**

- Effectively manage duties and responsibilities of more junior members of surgical team including call schedules etc.
- Effectively manage multiple, at times conflicting, demands upon time
- Create weekly assignment schedule for medical students, junior residents and senior residents on service

**E) Health Advocate:** The health advocate role is defined by: "As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change." The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

Skills and expertise which are particularly relevant for the PGY5 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (2008) include:

- Identify the health needs of an individual patient
- Appreciate the possibility of competing interests between the communities served and other populations
- Describe the ethical and professional issues inherent in health advocacy, including altruism, social justice, autonomy, integrity and idealism

**Specific Examples for the PGY5 Resident:**

- Anticipate differing needs and adjust care of disadvantaged populations (e.g., the elderly, drug dependence etc.)
- Understand the role of plastic surgical organizations in advocating for patient health
- Understand the role of plastic surgery in enhancing global health initiatives

**F) Scholar:** The scholar role is defined by: "As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship." The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

Skills and expertise which are particularly relevant for the PGY5 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (2008) include:

- Describe the principles and strategies for implementing a personal knowledge management system
- Access and interpret the relevant evidence
- Describe the principles of critical appraisal
- Assess and reflect on a teaching encounter
- Describe the principles of research and scholarly inquiry
- Conduct a systematic search for evidence

**Specific Examples for the PGY5 Resident:**

- Submit one research project to a peer reviewed publication
- Develop and implement a comprehensive study plan in preparation for Royal College qualifying examinations
- Successfully complete the Royal College qualifying examinations

**G) Professional:** The professional role is defined by: "As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health." The key competencies for this role include a demonstrated commitment to patients and the profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

Skills and expertise which are particularly relevant for the PGY5 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (2008) include:

- Exhibit appropriate professional behaviors in practice, including honesty, integrity, commitment, compassion, respect and altruism
- Recognize the principles and limits of patient confidentiality as defined by professional practice standards and the law
- Balance personal and professional priorities to ensure personal health and a sustainable practice
- Appreciate the professional, legal and ethical codes of practice
- Strive to heighten personal and professional awareness and insight

**Specific Examples for the PGY5 Resident:**

- Develop and implement a personal fitness plan while preparing for Royal College qualifying examinations
- Complete any plans for fellowships and/or job opportunities
- Plan for and complete preparations requirements for independent licensure

**Summary:** It is important to review these objectives at the start of your rotation at University Hospital. It is suggested that you meet with the site chief at the time of your arrival to formulate a learning plan. If you have any concerns about any aspect of the rotation, please contact Dr. Grant at any time to discuss. We sincerely hope you enjoy your time with us.



## Site Objectives – Victoria Hospital

### Learning Objectives ~ PGY2 Rotation at Victoria Hospital

**Introduction & Statement of Goals for the Rotation:** The Plastic Surgery Rotation at Victoria Hospital encompasses both general principles of Plastic Surgery as well as specific subspecialty areas of clinical expertise.

The PGY2 year is a period in which the plastic surgery resident will continue to lay the basis for plastic surgery residency and practice as well as consolidate the core knowledge required to successfully complete the Foundations of Surgery examination. As such, the following objectives rely both on general objectives as outlined for Surgical Foundations as well as those specific to Plastic Surgery.

In general, during this time of initial on-service rotations in your chosen specialty, the PGY2 resident should focus on acquiring broad knowledge of Plastic Surgery principles and fundamental skills that will serve as a foundation for lifelong learning during a career in Plastic Surgery.

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



**A) Medical Expert:** Please refer to the technical skills chart for different PGY levels.

**B) Communicator:** The communicator role is defined by: "As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care."

Skills and expertise which are particularly relevant for the PGY2 resident which are taken from the Royal College document, "Objectives of Surgical Foundations Training" include:

- Develop rapport, trust, and ethical therapeutic relationships with patients and families
- Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues, and other professionals
- Convey relevant information and explanations accurately to patients and families, colleagues and other professionals
- Develop a common understanding on issues, problems and plans with patients, families, and other professionals to develop a shared plan of care
- Convey effective oral and written information about a medical encounter

**Specific Examples for the PGY2 Resident:**

- Obtain and present a complete history and physical examination from patients with “undifferentiated” problems
- Dictate well organized and complete notes for medical records
- Able to explain treatment options to patient for basic clinical problems
- Communicate with nursing and therapists treatment plans and goals of management
- Learn to communicate with other specialists involved in joint patient care

**C) Collaborator:** The collaborator role is defined by: “As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care.” The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

Skills and expertise which are particularly relevant for the PGY2 resident which are taken from the Royal College document, “Objectives of Surgical Foundations Training” include:

- Participate effectively and appropriately in an inter-professional and interdisciplinary health care team
- Work with other health professionals effectively to prevent, negotiate, and resolve conflict

**Specific Examples for the PGY2 Resident:**

- Recognize and respect the diversity of roles, responsibilities and competencies of other professionals in relation to their own
- Work with other staff to assess, plan, provide and integrate care for individual patients (e.g. CCAC, hand therapy, rehabilitation medicine)
- To respect and assist in overcoming problems and obstacles that allied health professionals have in provided care for our patients

**D) Leader:** The leader role is defined by: “As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers.” For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

Skills and expertise which are particularly relevant for the PGY2 resident which are taken from the Royal College document, “Objectives of Surgical Foundations Training” include:

- Demonstrate an understanding of the influences that affect the workings of the health care system at various levels
- Participate in activities that contribute to the effectiveness of their health care organizations and systems
- Manage their practice and career effectively
- Allocate finite health care resources appropriately

**Specific Examples for the PGY2 Resident:**

- Employ information technology appropriately for patient care
- Set priorities and manage time to balance patient care, practice requirements, outside activities and personal life
- Basic understanding of roles and activities of Worker's Compensation, Provincial Coroner

- Be involved and assist in the education of medical students and clerks

**E) Health Advocate:** The health advocate role is defined by: “As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change.” The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

Skills and expertise which are particularly relevant for the PGY2 resident which are taken from the Royal College document, “Objectives of Surgical Foundations Training” include:

- Respond to individual patient health needs and issues as part of patient care
- Describe and respond to the health needs of the communities that they serve
- Promote the health of individual patients, communities, and populations
- Promote and participate in patient safety

**Specific Examples for the PGY2 Resident:**

- Identify the health needs of an individual patient
- Recognize opportunities for advocacy, health promotion and disease prevention with individuals to whom they provide care (e.g. child abuse, domestic violence, smoking cessation, patient behaviours that place them at risk for disease or injury)

**F) Scholar:** The scholar role is defined by: “As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship.” The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

Skills and expertise which are particularly relevant for the PGY2 resident which are taken from the Royal College document, “Objectives of Surgical Foundations Training” include:

- Critically evaluate medical information and its sources, and apply this appropriately to practice decisions
- Demonstrate an understanding of the principles of dissemination of new knowledge

**Specific Examples for the PGY2 Resident:**

- Present and review cases at citywide rounds
- Learn the general principles of “evidence-based medicine”
- Complete a project for annual Residents' Research Day

**G) Professional:** The professional role is defined by: “As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health.” The key competencies for this role include a demonstrated commitment to patients and the profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

Skills and expertise which are particularly relevant for the PGY2 resident which are taken from the Royal College document, “Objectives of Surgical Foundations Training” include:

- Demonstrate a commitment to their patients, profession, and society through ethical practice

- Demonstrate a commitment to their patients, profession and society through participation in profession-led regulation
- Demonstrate a commitment to physician health and sustainable practice

**Specific Examples for the PGY2 Resident:**

- Demonstrate an awareness of the risks associated with the high stress environments in which surgeons work
- Exhibit appropriate professional behaviours in practice, including honesty, integrity, commitment, compassion, respect and altruism
- Be punctual for OR's, clinics, and teaching events
- Learn to speak in the prose of a surgeon both to colleagues and in teaching activities

**Summary:** It is important to review these objectives at the start of your rotation at Victoria Hospital. It is suggested that you meet with the site chief at the time of your arrival to formulate a learning plan. If you have any concerns about any aspect of the rotation, please contact Dr. Yazdani at any time to discuss. We sincerely hope you enjoy your time with us.

## Learning Objectives ~ PGY3 Rotation at Victoria Hospital

**Introduction & Statement of Goals for the Rotation:** The Plastic Surgery Rotation at Victoria Hospital encompasses both general principles of Plastic Surgery as well as specific subspecialty areas of clinical expertise. The latter are summarized within the “Medical Expert” description below.

The PGY3 year is a transition period from a time in which the majority of experiences are “off-service” to a time when the resident is fully immersed in the Plastic Surgery service. As such, it can be a stressful time when expectations of skills and knowledge seem high but the opportunity for experience has been limited. This is particularly true for the blocks early in the academic year.

In general, the PGY3 resident should acquire foundational skills and knowledge of Plastic Surgery that will serve as a basis for the acquisition of more complex and specific skills, attitudes and knowledge during their two senior on-service years.

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



**A) Medical Expert:** Please refer to the technical skills chart for each PGY level.

**B) Communicator:** The communicator role is defined by: “As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care.”

Skills and expertise which are particularly relevant for the PGY3 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Recognize that being a good communicator is a core clinical skill for physicians, and that effective physician-patient communication can foster patient satisfaction, physician satisfaction, adherence and improved clinical outcomes
- Establish positive therapeutic relationships with patients and their families that are characterized by understanding, trust, respect, honesty and empathy
- Respect patient confidentiality, privacy and autonomy
- Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues, and other professionals
- Present verbal reports of clinical encounters and plans effectively
- Address challenging communication issues effectively, such as obtaining informed consent

**Specific Examples for the PGY3 Resident:**

- Obtain and present a comprehensive and concise history and physical examination from patients with “undifferentiated” problems
- Dictate complete notes for medical records
- Able to explain treatment options to patient for various clinical problems including possible complications
- Learn to discuss cases with referring physicians

**C) Collaborator:** The collaborator role is defined by: “As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care.” The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

Skills and expertise which are particularly relevant for the PGY3 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Describe the Plastic Surgeon's roles and responsibilities to other professionals
- Recognize and respect the diversity of roles, responsibilities and competences of other professionals in relation to their own
- Enter into interdependent relationships with other professions for the provision of quality care

**Specific Examples for the PGY3 Resident:**

- Conduct “surgical pause” at beginning of operative procedures in conjunction with anaesthesia and nursing staff
- Participate collaboratively with colleagues in planning of call schedules, coverage of clinical responsibilities
- Communicate with hand therapists in the care of hand injuries
- Coordinate discharge planning with allied staff

**D) Leader:** The leader role is defined by: “As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers.” For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

Skills and expertise which are particularly relevant for the PGY3 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Demonstrate an understanding of the influences that affect the workings of the health care system at various levels
- Participate in activities that contribute to the effectiveness of their health care organizations and systems
- Manage their practice and career effectively
- Allocate finite health care resources appropriately

**Specific Examples for the PGY3 Resident:**

- Anticipate learning needs of medical students and participate in planning of their clinical responsibilities
- Help to organize junior and off-service residents' schedules
- Organize personal schedule to allow for participation in work, study time and “off

- work" time
- Learn to manage ward and consult responsibilities

**E) Health Advocate:** The health advocate role is defined by: "As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change." The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

Skills and expertise which are particularly relevant for the PGY3 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (2008) include:

- Identify the health needs of an individual patient
- Appreciate the possibility of competing interests between the communities served and other populations
- Describe the ethical and professional issues inherent in health advocacy, including altruism, social justice, autonomy, integrity and idealism

**Specific Examples for the PGY3 Resident:**

- Recognize populations at risk for lower extremity amputations
- Understand basics of the role of plastic surgery in global health initiatives
- Learn to deal with narcotic dependent patients

**F) Scholar:** The scholar role is defined by: "As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship." The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

Skills and expertise which are particularly relevant for the PGY3 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (2008) include:

- Describe the principles and strategies for implementing a personal knowledge management system
- Access and interpret the relevant evidence
- Describe the principles of critical appraisal
- Assess and reflect on a teaching encounter
- Describe the principles of research and scholarly inquiry
- Conduct a systematic search for evidence

**Specific Examples for the PGY3 Resident:**

- Assist in preparing site cases for weekly citywide rounds
- Learn the basics of "evidence-based medicine" and its application to plastic surgery
- Complete a project for annual Residents' Research Day

**G) Professional:** The professional role is defined by: "As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health." The key competencies for this role include a demonstrated commitment to patients and the

profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

Skills and expertise which are particularly relevant for the PGY3 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (2008) include:

- Exhibit appropriate professional behaviors in practice, including honesty, integrity, commitment, compassion, respect and altruism
- Recognize the principles and limits of patient confidentiality as defined by professional practice standards and the law
- Balance personal and professional priorities to ensure personal health and a sustainable practice
- Appreciate the professional, legal and ethical codes of practice
- Strive to heighten personal and professional awareness and insight

**Specific Examples for the PGY3 Resident:**

- Be aware of CPSO defined responsibilities of trainees in academic settings
- Create a sustainable plan to maintain personal physical health
- Maintain appropriate relationships with patients
- Expected to speak in an appropriate manner to staff, colleagues, and patients

**Summary:** It is important to review these objectives at the start of your rotation at Victoria Hospital. It is suggested that you meet with the site chief at the time of your arrival to formulate a learning plan. If you have any concerns about any aspect of the rotation, please contact Dr. Yazdani at any time to discuss. We sincerely hope you enjoy your time with us.



## Learning Objectives ~ PGY4 Rotation

**Introduction & Statement of Goals for the Rotation:** The Plastic Surgery Rotation at Victoria Hospital encompasses both general principles of Plastic Surgery as well as specific subspecialty areas of clinical expertise.

The PGY4 year is a consolidation period when the resident is fully immersed in the Plastic Surgery service. One should start to become a more effective teacher and mentor to junior residents.

In general, the PGY4 resident should build on the foundational skills and knowledge of the PGY3 resident and acquire of more complex and specific skills, attitudes and knowledge during their two senior on-service years.

Objectives of training are based upon the CanMEDS Competencies which are summarized in the following diagram:



A) **Medical Expert:** Please refer to the technical skills chart for different PGY levels.

B) **Communicator:** The communicator role is defined by: “As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care.”

Skills and expertise which are particularly relevant for the PGY4 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Recognize that being a good communicator is a core clinical skill for physicians, and that effective physician-patient communication can foster patient satisfaction, physician satisfaction, adherence and improved clinical outcomes
- Establish positive therapeutic relationships with patients and their families that are characterized by understanding, trust, respect, honesty and empathy
- Respect patient confidentiality, privacy and autonomy
- Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues, and other professionals
- Present verbal reports of clinical encounters and plans effectively
- Address challenging communication issues effectively, such as obtaining informed consent

### **Specific Examples for the PGY4 Resident:**

- Appropriately communicate with referring physicians while on call to triage referrals and appropriate follow-up
- Explain pros and cons of various possible treatments to patients and obtain

- o informed consent
- o Assess, speak with, and reassure patients who have experienced surgical complications

**C) Collaborator:** The collaborator role is defined by: “As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care.” The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

Skills and expertise which are particularly relevant for the PGY4 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Describe the Plastic Surgeon's roles and responsibilities to other professionals
- Recognize and respect the diversity of roles, responsibilities and competences of other professionals in relation to their own
- Enter into interdependent relationships with other professions for the provision of quality care

**Specific Examples for the PGY4 Resident:**

- o Communicate with hand therapists re plans for treatment
- o Work with fellow residents to plan teaching rounds, weekly responsibilities on service
- o Proactively review with nursing staff specific needs for operative cases
- o Work effectively with other medical services, including the Trauma Service, to plan and coordinate care for complex trauma patients

**D) Leader:** The leader role is defined by: “As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers.” For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

Skills and expertise which are particularly relevant for the PGY4 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Demonstrate an understanding of the influences that affect the workings of the health care system at various levels
- Participate in activities that contribute to the effectiveness of their health care organizations and systems
- Manage their practice and career effectively
- Allocate finite health care resources appropriately

**Specific Examples for the PGY4 Resident:**

- o Begin to effectively manage multiple demands on time (e.g. while on call)
- o Delegate tasks for more junior learners such as medical students
- o Develop knowledge of requirements for postgraduate fellowships and begin to plan/apply as appropriate
- o Understand and determine patient resource issues like follow-up times in clinic, surgical timing and plans

- E) Health Advocate:** The health advocate role is defined by: “As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change.” The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

Skills and expertise which are particularly relevant for the PGY4 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Identify the health needs of an individual patient
- Appreciate the possibility of competing interests between the communities served and other populations
- Describe the ethical and professional issues inherent in health advocacy, including altruism, social justice, autonomy, integrity and idealism

**Specific Examples for the PGY4 Resident:**

- Begin to identify “at risk” patient populations and address their particular health needs
- Learn the elements of effective interventions for weight loss, smoking cessation etc.
- Communicate with home care regarding home nursing issues

- F) Scholar:** The scholar role is defined by: “As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship.” The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

Skills and expertise which are particularly relevant for the PGY4 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Describe the principles and strategies for implementing a personal knowledge management system
- Access and interpret the relevant evidence
- Describe the principles of critical appraisal
- Assess and reflect on a teaching encounter
- Describe the principles of research and scholarly inquiry
- Conduct a systematic search for evidence

**Specific Examples for the PGY4 Resident:**

- Provide evaluation feedback to more junior learners
- Submit a research project for ethics approval
- Present one project at a scholarly meeting
- Write up a journal article for publication

- G) Professional:** The professional role is defined by: “As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health.” The key competencies for this role include a demonstrated commitment to patients and the

profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

Skills and expertise which are particularly relevant for the PGY4 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (2008) include:

- Exhibit appropriate professional behaviors in practice, including honesty, integrity, commitment, compassion, respect and altruism
- Recognize the principles and limits of patient confidentiality as defined by professional practice standards and the law
- Balance personal and professional priorities to ensure personal health and a sustainable practice
- Appreciate the professional, legal and ethical codes of practice
- Strive to heighten personal and professional awareness and insight

**Specific Examples for the PGY4 Resident:**

- Be aware of the requirements for, and obtain Consent for Photography of patients to be used in both a clinical and academic settings
- Construct a plan for acquiring knowledge which will form the basis for lifelong learning in professional practice (i.e. study plan)

**Summary:** It is important to review these objectives at the start of your rotation at Victoria Hospital. It is suggested that you meet with the site chief at the time of your arrival to formulate a learning plan. If you have any concerns about any aspect of the rotation, please contact Dr. Yazdani at any time to discuss. We sincerely hope you enjoy your time with us.

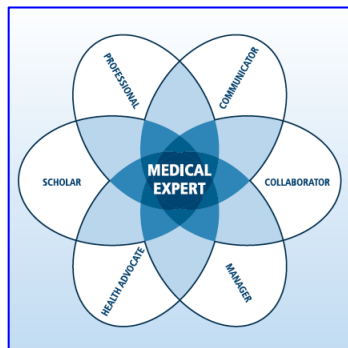
## Learning Objectives ~ PGY5 Rotation at Victoria Hospital

**Introduction & Statement of Goals for the Rotation:** The Plastic Surgery Rotation at Victoria Hospital encompasses both general principles of Plastic Surgery as well as specific subspecialty areas of clinical expertise.

The PGY5 year is a period when the resident is transitioning from the role of “supervised learner” to that of an independently practicing surgeon. As such, increasing independence and a proactive attitude to patient care is encouraged and expected. Technical skills evolve at a different pace in each learner but it is expected that at the completion of the PGY5 year, the resident will be able to safely operate in an independent manner while at all times respecting patient safety.

In general, the PGY5 resident should build on the foundational skills and knowledge of the preceding 4 years to consolidate knowledge, judgment and skills to provide independent care for all aspects of patient care.

Objectives of training are based upon the CanMeds Competencies which are summarized in the following diagram:



- A) **Medical Expert:** Please refer to the technical skills chart for different PGY levels.
- B) **Communicator:** The communicator role is defined by: “As *Communicators*, physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care.”

Skills and expertise which are particularly relevant for the PGY5 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Recognize that being a good communicator is a core clinical skill for physicians, and that effective physician-patient communication can foster patient satisfaction, physician satisfaction, adherence and improved clinical outcomes
- Establish positive therapeutic relationships with patients and their families that are characterized by understanding, trust, respect, honesty and empathy
- Respect patient confidentiality, privacy and autonomy
- Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues, and other professionals
- Present verbal reports of clinical encounters and plans effectively
- Address challenging communication issues effectively, such as obtaining informed consent

**Specific Examples for the PGY5 Resident:**

- Appropriately communicate with consultants on other services to expedite and coordinate patient care
- Fully explain a planned surgical procedure in a comprehensive and expeditious fashion
- Communicate in an independent fashion with patients about post-operative concerns and obtain full informed consent in a fashion that families can understand

**C) Collaborator:** The collaborator role is defined by: "As *Collaborators*, physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care." The key competency is to work in a collegial and positive manner with other members of the health care such as nurses, therapists and other physicians.

Skills and expertise which are particularly relevant for the PGY5 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (2008) include:

- Describe the Plastic Surgeon's roles and responsibilities to other professionals
- Recognize and respect the diversity of roles, responsibilities and competences of other professionals in relation to their own
- Enter into interdependent relationships with other professions for the provision of quality care

**Specific Examples for the PGY5 Resident:**

- In a leadership role, effectively collaborate with nurses, anaesthesia staff and other members of the health care team to enhance patient care
- Effectively listen to, acknowledge and facilitate the learning needs of, fellow residents in providing patient care
- Coordinate surgical procedures with other surgical specialists on patients with multiple injuries requiring operative management

**D) Leader:** The leader role is defined by: "As *Leaders*, physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars or teachers." For a surgical resident, the key competency in this role is to organize junior learners, anticipate service requirements such as operative procedures requiring assistance and making certain they are covered and most importantly, managing multiple simultaneous demands upon their time.

Skills and expertise which are particularly relevant for the PGY5 resident which are taken from the Royal College document, "Objectives of Training in Plastic Surgery" (2008) include:

- Demonstrate an understanding of the influences that affect the workings of the health care system at various levels
- Participate in activities that contribute to the effectiveness of their health care organizations and systems
- Manage their practice and career effectively
- Allocate finite health care resources appropriately

**Specific Examples for the PGY5 Resident:**

- Effectively manage duties and responsibilities of more junior members of surgical team including call schedules etc.
- Effectively manage multiple, at times conflicting, demands upon time

- Create weekly assignment schedule for medical students, junior residents and senior residents on service
- To successfully manage the role of a team leader for the Plastic Surgery service. This involves the coordination of emergency cases, clinics, ward care and active operative rooms with a team of residents and medical students

**E) Health Advocate:** The health advocate role is defined by: “As *Health Advocates*, physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change.” The key competencies for this role include understanding and responding to the needs and determinants of health of the patients they serve.

Skills and expertise which are particularly relevant for the PGY5 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Identify the health needs of an individual patient
- Appreciate the possibility of competing interests between the communities served and other populations
- Describe the ethical and professional issues inherent in health advocacy, including altruism, social justice, autonomy, integrity and idealism

**Specific Examples for the PGY5 Resident:**

- Anticipate differing needs and adjust care of disadvantaged populations (e.g. the elderly, drug dependence etc.)
- Understand the role of plastic surgical organizations in advocating for patient health
- Understand the role of plastic surgery in enhancing global health initiatives

**F) Scholar:** The scholar role is defined by: “As *Scholars*, physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship.” The key competencies for this role include progressive and organized learning, critical evaluation of the medical literature, contribute to new medical knowledge via research.

Skills and expertise which are particularly relevant for the PGY5 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Describe the principles and strategies for implementing a personal knowledge management system
- Access and interpret the relevant evidence
- Describe the principles of critical appraisal
- Assess and reflect on a teaching encounter
- Describe the principles of research and scholarly inquiry
- Conduct a systematic search for evidence

**Specific Examples for the PGY5 Resident:**

- Submit one research project to a peer reviewed publication
- Present a study at the Canadian Society of Plastic Surgery Annual Meeting
- Develop and implement a comprehensive study plan in preparation for Royal College qualifying examinations
- Successfully complete the Royal College qualifying examinations

**G) Professional:** The professional role is defined by: “As *Professionals*, physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health.” The key competencies for this role include a demonstrated commitment to patients and the profession via ethical practice as well as demonstrating a commitment to personal health and sustainable practice.

Skills and expertise which are particularly relevant for the PGY5 resident which are taken from the Royal College document, “Objectives of Training in Plastic Surgery” (2008) include:

- Exhibit appropriate professional behaviors in practice, including honesty, integrity, commitment, compassion, respect and altruism
- Recognize the principles and limits of patient confidentiality as defined by professional practice standards and the law
- Balance personal and professional priorities to ensure personal health and a sustainable practice
- Appreciate the professional, legal and ethical codes of practice
- Strive to heighten personal and professional awareness and insight

**Specific Examples for the PGY5 Resident:**

- Complete any plans for fellowships and/or job opportunities
- Plan for and complete preparations requirements for independent licensure
- Be aware of office management issues such as billing, human resource management, hiring, health record management, photography and consent process

**Summary:** It is important to review these objectives at the start of your rotation at Victoria Hospital. It is suggested that you meet with the site chief at the time of your arrival to formulate a learning plan. If you have any concerns about any aspect of the rotation, please contact Dr. Yazdani at any time to discuss. We sincerely hope you enjoy your time with us.



## Technical Skills

Skill category	PGY3	PGY4	PGY5
1. Wound Healing	<ul style="list-style-type: none"> <li>Wound debridement</li> <li>Principles of dressings</li> <li>Principles of non-operative management of the difficult wound</li> </ul>	<ul style="list-style-type: none"> <li>Design and elevation of local fascio-cutaneous flaps for coverage of wounds (i.e. posterior thigh flap)</li> </ul>	<ul style="list-style-type: none"> <li>Design and elevation of common musculocutaneous flaps (i.e. gastrocnemius flap, gracilis flap, latissimus dorsi flap)</li> </ul>
2. Cutaneous Malignancies and Sarcoma Management	<ul style="list-style-type: none"> <li>Excision of common skin lesions</li> </ul>	<ul style="list-style-type: none"> <li>Design and elevation of local random rotation and transposition flaps (z plasty, bilobed, scalp rotation)</li> <li>Principles of sarcoma excision</li> <li>Principles of neck lymph node dissections</li> </ul>	<ul style="list-style-type: none"> <li>Sentinel node biopsy</li> <li>Dissection of axillary node basin</li> <li>Dissection of neck lymph node basins</li> </ul>
3. Hand Surgery	<ul style="list-style-type: none"> <li>Revision amputation</li> <li>Extensor tendon repair</li> <li>Exposure of flexor sheath</li> <li>Reduction of hand fractures</li> </ul>	<ul style="list-style-type: none"> <li>Digital nerve repairs</li> <li>Flexor tendon repairs</li> <li>Major nerve repair (ulnar and median)</li> </ul>	<ul style="list-style-type: none"> <li>Arterial and venous anastomosis</li> <li>Brachial plexus dissection</li> <li>Dupuytren's dissection in hand and palm</li> </ul>
4. Breast	<ul style="list-style-type: none"> <li>Design and plan of breast reduction</li> </ul>	<ul style="list-style-type: none"> <li>Complete breast reduction (inferior and superiomedial pedical technique)</li> </ul>	<ul style="list-style-type: none"> <li>Breast augmentation</li> <li>Breast tissue expander placement</li> <li>Breast reconstruction with pedicled techniques (latissimus dorsi, TRAM)</li> </ul>
5. Trunk, Genito-urinary, Lower Extremity Reconstruction	<ul style="list-style-type: none"> <li>Debridement of scrotal, perineal and buttocks wounds</li> <li>Non-surgical management of perineal wounds</li> </ul>	<ul style="list-style-type: none"> <li>Scrotal and penile shaft reconstruction with skin graft and local flaps</li> </ul>	<ul style="list-style-type: none"> <li>Vaginal and perineal defects with distant flap reconstruction</li> </ul>
6. Paediatric Plastic Surgery	<ul style="list-style-type: none"> <li>Excision of simple haemangioma</li> <li>Planning and marking of cleft lip repair – unilateral and bilateral</li> <li>Planning of cleft palate repair</li> </ul>	<ul style="list-style-type: none"> <li>Principles of laser medicine</li> <li>Use of lasers for cutaneous vascular anomalies</li> <li>Elevation of cleft lip flaps for unilateral lip</li> <li>Elevation of coronal flap for craniosynostosis</li> <li>Elevation of otoplasty flaps</li> </ul>	<ul style="list-style-type: none"> <li>Repair of unilateral and bilateral cleft lip</li> <li>Elevation of rhinoplasty flaps</li> <li>Repair of cleft palate</li> <li>Completion of otoplasty</li> <li>Harvesting of rib graft</li> <li>Harvesting of bone graft</li> </ul>
7. Craniofacial Surgery	<ul style="list-style-type: none"> <li>Placement of intermaxillary fixation</li> </ul>	<ul style="list-style-type: none"> <li>Common exposures of facial fracture reduction (upper buccal sulcus, lower buccal sulcus, ramal, Gilles approach, upper lid, transcutaneous and transconjunctival lower lid)</li> <li>Reduction of zygomatic arch by Gilles approach</li> </ul>	<ul style="list-style-type: none"> <li>ORIF of simple mandible, maxillary and zygomatic fractures</li> <li>Reconstruction of simple orbital floor fractures</li> <li>Elevation of coronal flaps for exposure to orbits and frontal bone</li> <li>Reconstruction of frontal sinus fractures</li> </ul>
8. Aesthetic Surgery	<ul style="list-style-type: none"> <li>Evaluation of the face</li> </ul>	<ul style="list-style-type: none"> <li>Liposuction</li> <li>Fat transfer</li> <li>Botox and dermal filler injections</li> <li>Abdominoplasty flaps</li> <li>Completion of breast reduction</li> </ul>	<ul style="list-style-type: none"> <li>Completion of browlift, blepharoplasty</li> <li>Open septorhinoplasty</li> <li>Breast augmentation</li> <li>Brachioplasty</li> <li>Thigh lift</li> </ul>
9. Burn Surgery	<ul style="list-style-type: none"> <li>Harvesting of skin graft</li> </ul>	<ul style="list-style-type: none"> <li>Skin graft reconstruction of extremity and trunk burns</li> <li>Release of burn scar contractures in trunk and extremity</li> </ul>	<ul style="list-style-type: none"> <li>Primary and secondary burn reconstruction of face</li> </ul>

## LHSC/SJHC PREOPERATIVE TESTING GUIDELINES

<b>Time frame:</b> Tests to be done within 2 months of surgery (CXR within 3 months) or if clinical status has changed since PAC assessment						
<b>Applies to:</b> General, regional, sedation anesthesia						
<b>Exception: Cataract Surgery – NO routine preoperative testing. Tests should be ordered only for assessment of acute medical problems.</b>						
Clinical Indicators	CBC + diff	INR, PTT	Lytes, urea, Creat	Glucose	ECG	CXR
Major surgical procedure (i.e., requiring group and reserve)	X	X	X			
Planned epidural or major regional block		X				
Age 70 and older	X		X			
<b>Current medical conditions:</b>						
COPD/bronchitis	X					X
Cardiovascular disease	X				X	
Increased lipids/cholesterol					X	
Heavy smoker (20 pack years) <u>plus</u> 1 or more cardiac risk factors <u>or</u> age $\geq$ 70 <u>or</u> BMI $\geq$ 40 (1 pack year = 1 pack daily for a year)					X	
Significant alcohol consumption (>10 drinks/week)		X				
Previous DVT/PE		X				
Hypertension			X		X	
Diabetes			X	X (a.m. of surgery)	X	
Renal disease/dialysis	X		X (within 24 hrs if on dialysis)			
Obstructive sleep apnea					X	
Cancer/anemia/peptic ulcer	X					
Hemorrhage since last CBC	X					
Bleeding disorder/liver disease	X	X				
Pituitary/adrenal disease			X			
Ongoing fluid losses (bowel, wound)			X			
<b>Drugs/medical treatment:</b>						
Major surgery, erythropoietin, transfusion or autologous donation since last CBC	X					
Anti-rheumatoid therapy	X					
Steroids			X	X		
Diuretics/on IV therapy			X			
Digoxin or lithium			X			
Anticoagulant therapy	X	X (within 24 hrs if changed or stopped)				
Antiplatelet drug	X	X				
Iron supplement	X					
Methadone $\geq$ 50mg/day					X	
Chemotherapy/radiotherapy	X					
Immunosuppressant (transplant anti-rejection therapy)	X					
Anti-HIV therapy	X					
<b>Other tests:</b>						
Sickle cell (any time in their life) – genetically predisposed patient (risk areas are: Black African/Caribbean/Saudi Arabia/Greece/Turkey/India/Italy)						
Beta HCG – pregnancy suspected or needs to be ruled out						
Blood transfusion lab sample (as per London Hospitals Blood Order Guidelines for Adult Elective Surgery 2009). Valid for 2 months, unless transfused or pregnant in the last 3 months, then must be done within 72 hours of OR time).						
<b>Approved by Citywide Perioperative Committee May 2009</b>						

## LHSC/SJHC PREADMISSION INDICATORS FOR PREOPERATIVE CONSULT TO GENERAL INTERNAL MEDICINE AND ANESTHESIA:

### Indicators for a Medicine consult:

- 1) Severe or poorly controlled hypertension
- 2) Atypical chest pain not yet diagnosed
- 3) Symptomatic ischemic heart disease – especially angina or congestive heart failure
- 4) Cardiomyopathy
- 5) Arrhythmia, defibrillator or pacemaker
- 6) Valvular heart disease needing: hemodynamic assessment/anticoagulation/infective endocarditis prophylaxis
- 7) Shortness of breath/severe chronic obstructive pulmonary disease/severe asthma
- 8) On insulin, or poorly controlled diabetes
- 9) On anticoagulant therapy
- 10) Recent (<3 months) or recurrent deep vein thrombosis
- 11) Recent (<3 months) stroke or transient ischemic attacks
- 12) Coagulopathy (historical or ↑INR or ↓platelets)
- 13) Chronic steroid therapy
- 14) Renal failure
- 15) Lab values that need stabilizing: Hgb, Lytes, Urea, Creat, Ca++
- 16) Poor exercise tolerance
- 17) Unexplained poor health generally
- 18) Previous major postoperative complications

### Indicators for an Anesthesia consult:

- 1) Higher risk patients, i.e. ASA class III, or IV patients (see ASA definitions below).
- 2) Patients requiring blood to be grouped and reserved who will refuse a transfusion.
- 3) Patient history of difficult airway or severe anesthetic complication.
- 4) Pregnant patient for non-obstetrical surgery
- 5) Patients requiring or requesting regional/epidural techniques
- 6) Narcotic dependency – daily use
- 7) Morbid obesity (body mass index > 40)
- 8) Poorly controlled gastroesophageal reflux
- 9) One day surgery with sleep apnea (LHSC)
- 10) Neuromuscular disorders
- 11) Epilepsy if not seizure free
- 12) Patient or family history of malignant hyperthermia or pseudocholinesterase deficiency
- 13) Previous organ transplant
- 14) Surgery requiring hypotensive anesthetic technique
- 15) Prolonged surgery or major fluid requirements

## ASA CLASS DEFINITIONS

<u>Status</u>	<u>Definition</u>	<u>Description and Examples</u>
Class III	A patient with severe systemic disease that limits activity, but is not incapacitating.	Cardiovascular or pulmonary disease that limits activity; severe diabetes with system complications; history of MI, angina, or <u>poorly controlled</u> hypertension.
Class IV	A patient with an incapacitating system disease that is a constant threat to life.	Severe cardiac, pulmonary, renal hepatic, or endocrine dysfunction.

## Structure of the Program

### Resident Rotations:

Residents spend two years doing core surgery rotations which lay the groundwork for later specific training in Plastic Surgery. Core rotations are critical in developing surgical skills and knowledge. The collaborative nature of Plastic Surgery practice makes it critical that residents develop knowledge of many other surgical specialties.

The academic year is divided into 13 4-week blocks. The PGY1 year is relatively structured and typically includes rotations in General Surgery, Internal Medicine, Emergency Medicine, Orthopedics, ENT, Trauma, Community Plastics, Plastic Surgery, and 2 elective blocks. Funding is available for accommodation and travel for a rotation in Windsor and other Distributed Education communities (<http://www.schulich.uwo.ca/distributededucation/>). Other sites may be arranged with the approval of the Program Director but residents may have to self-fund travel accommodation, etc. if outside of the Distributed Education area.

While every attempt to accommodate resident requests will be made, the Core Surgery Director and the Plastic Surgery Program Director will make final decisions on specific resident rotations.

The PGY2 year includes 2 blocks of ICU, 3 research blocks, 2 elective blocks and 6 blocks in Plastic Surgery (typically 3 blocks each at VH and SJH). Common electives include (but are not limited to) oral maxillary facial surgery, burn surgery, anesthesiology, vascular surgery, physical medicine and rehabilitation, infectious diseases and others.

The three senior, on-service years are spent rotating through the 3 teaching hospitals in London. Responsibility increases on a graduated basis with the expectation that by the end of the PGY5 year, a resident will be ready to enter independent practice. Depending upon on-service resident numbers, it may be possible to complete out of town electives in the senior years (during PGY4 year).

While every attempt to accommodate resident requests will be made, final decisions on specific resident rotations will be made by the Plastic Surgery Program Director.

## Teaching Schedules and Information

Teaching occurs on an ongoing and daily basis in clinics and operating rooms. More formal teaching occurs in the following settings:

Resident Teaching Seminars: Two-hour seminars occur each Wednesday morning after rounds (0800-1000) between September and June at SJHC. The content of these seminars is decided upon by the senior resident(s) with input from the Program Director. This is "protected" time and attendance is compulsory for all on-service residents unless on vacation. Residents on core surgery rotations are encouraged to attend if their particular rotational responsibilities allow.

Weekly Grand Rounds: These typically occur during three Wednesday mornings (0700) of each month at SJHC. It is the responsibility of the senior resident at the "host" hospital to organize cases for each set of rounds. Morbidity and Mortality Rounds are held on the final Friday of every other month.

Quality Assurance Rounds: Held on Wednesday mornings (0700) in the months that have 5 weeks; the fifth Wednesday of the month.

(Schedules for rounds and teaching will be circulated by email.)

Journal Club: These occur on a monthly basis between September and June.

Hand & Upper Limb Teaching: These are an organized series of seminars which are compulsory for residents on-service at SJHC. These occur each Tuesday and Thursday morning at 0700. A schedule of topics is published for every 3 to 6 months.

Transition to Residency PGY1 Education Series (2018-2019):

Held on Wednesday afternoons from July 11 - August 29, 2018 at 1300-1600 in the Medical Sciences Building at Western (Room MSB146). Attendance is mandatory, dates and topics for 2018 are as follows:

Date	Topic
<b>July 11</b>	Shock and Hypotension, and CCOT
<b>July 18</b>	Lab Values, Drugs, and Safe Prescribing (including opioid safety and management)
<b>July 25</b>	Acute Dyspnea
<b>August 1</b>	Communication, Feedback, and the Dying Patient
<b>August 8</b>	Chest Pain
<b>August 15</b>	Abdominal Pain & GI Bleed
<b>August 22</b>	Altered Mental Status and Resident Wellbeing
<b>August 29</b>	Neurological Emergencies, and CCOT

Laser Surgery Course (PGY1/2): This course runs every other year; if missed, must be taken in the PGY3/4 year.

**Date:** Wednesday, October 24, 2018  
**Time:** 0800-1600  
**Location:** SJHC

Resident as Teacher Boot Camp (PGY3/4):

**Date:**  
**Time:** TBD  
**Location:** TBD  
**Topic:** TBD

Transition to Practice (PGY3-5): Mandatory for PGY3 and 4's; PGY5's and Fellows are invited; dates for the 2018/2019 academic year are as follows:

**Date:** Monday, September 24, 2018  
**Time:** 0900-1600  
**Location:**  
**Topic:**

Surgical Ethics Academic Half Days (Mandatory for All Residents): Held twice per year, the dates for the 2018/2019 academic year are as follows:

**Date:** Wednesday, November 21, 2018  
**Time:** 0900-1200  
**Location:** Shuttleworth Auditorium, SJHC  
**Topics:** Medical Waste & Professionalism and Confidentiality

**Date:** Wednesday, April 17, 2019  
**Time:** 0900-1200  
**Location:** Shuttleworth Auditorium, SJHC  
**Topics:** Sleep Deprivation and Surgical Work Hours & Medical Mistakes

Surgery Academic Half Day – Teaching to Teach (PGY3/4): Held twice per year on a Wednesday morning, the dates for the 2018/2019 academic year are as follows:

**Date:** Wednesday, September 19, 2018  
**Time:** 0900-1200  
**Location:** CSTAR, University Hospital  
**Topic:** Procedural Skills

**Date:** Wednesday, March 27, 2019  
**Time:** 0900-1200  
**Location:** Shuttleworth Auditorium, SJHC  
**Topic:** Individuals and Small Groups

PGY2 Surgical Foundations Refresher Course:

**Date:** Thursday, February 7 & Friday, February 8, 2019

**Time:** 0700-1700

**Location:** LHSC – University Hospital

PGY1 Surgical Foundations OSCE:

**Date:** TBD

**Time:** TBD

**Location:** Clinical Skills Building, Western Campus

PGY4 Senior Surgical OSCE:

**Date:** Monday, November 26, 2018

**Time:** 0800-1700

**Location:** Clinical Skills Building, Western Campus

## Holidays and Conference Leave

### Vacation Time:

The number of days available for holiday and conference leave is set out in the agreement between the Professional Association of Residents and Interns of Ontario (PARO) and the Ontario Council of Teaching Hospitals and the Division adheres to these agreements. The days available include:

- Four weeks (20 working days) each year for holidays
- Seven working days for educational leave (conference time)
- Five consecutive days off over a 12-day Christmas period
- Other leave; pregnancy, sick leave, etc.

Away time taken for interviews for potential fellowships must be taken from allotted vacation time.

In accordance with the guidelines set out by PARO, the vacation/ academic leave protocol is as follows:

Step 1 – The resident must submit to Mindy via email the vacation/academic leave request. Requests must be made in writing at least 4 weeks in advance of the requests start day of the vacation.

Step 2 – Mindy will forward the request via email to the Chief Resident for review. The Chief Resident will review the request and determine whether this request can be accommodated, given the number of residents on rotation at that particular site at that time.

Step 3A – *If approved by Chief Resident*, Mindy will then submit the request via email to the appropriate Site Chief for approval. Information in the request will also include the residents that will be left to cover the site while the requesting resident is away.

Step 3B – *If the request is not approved by the Chief Resident*, alternate dates will be proposed to the requesting resident to review. Once a suitable time has been chosen, Step 3A will be completed.

Step 4 – *If the Chief Resident or Site Chief does not approve* the request, then alternate dates must be suggested by the Site Chief or Chief Resident and Step 3A completed. All requests must be confirmed or denied in writing within two weeks of the request being made. If denied, an alternate date must be suggested within the same two week timeframe as the requested date.

Step 5 – Once Mindy has final approval from the Chief Resident and Site Chief, she will document the time away and notify the Chief Resident that the time has been approved, so they may document it on the call schedule.

### **4<sup>th</sup> Year Elective Time:**

Step 1 – Proposed electives must be submitted to the Program Director for approval of appropriateness.

Step 2 – Once the elective has been approved by the Program Director, the time away for the elective must follow the protocol listed above for vacation/academic leave.



## Religious Holidays:

It is expected that postgraduate residency programs should accommodate requests for religious holiday leave. The following policy outlines the principles and the process for dealing with religious holiday leave requests.

### **Principles:**

1. In general there is a duty to accommodate religious holidays (Ontario Human Rights Code), but this duty is limited by the steps that must be required short of undue hardship.
2. The policy governing resident religious holidays must be consistent with the Western University policy *Accommodations for Religious Holidays*  
[http://www.schulich.uwo.ca/medicine/postgraduate/future\\_learners/docs/Policies%20for%20Website/Religious\\_holidays.pdf](http://www.schulich.uwo.ca/medicine/postgraduate/future_learners/docs/Policies%20for%20Website/Religious_holidays.pdf) and with the PARO/CAHO Agreement  
<http://www.myparo.ca/top-contract-questions/>
3. This policy applies to all residents regardless of their funding source.
4. Residents requesting religious holiday leave must give adequate written notification to the program.
5. Patient care responsibilities are to be recognized and must be met.
6. All leave days taken for religious holidays are to be considered vacation days and to be included in the number of vacation days as defined by the PARO/CAHO Agreement.

### **Process:**

1. The Postgraduate Medical Education Office will provide a copy of this policy to all residents at the beginning of each academic year. Individual residency programs which may have supplemental policies relating to religious holidays will also provide this information to the residents at the beginning of each academic year.
2. Requests for religious holiday leave must be made in writing to the Program Director or his or her delegate as soon as possible and at least four weeks prior to the requested time of the leave.
3. The Program Director (or delegate) must acknowledge the request in a timely fashion, and make every reasonable effort to accommodate the request, recognizing patient care responsibilities. The Program Director (or delegate) must inform the resident in writing within two weeks of receipt of the request whether or not the request is approved, and if not approved, provide an explanation.
4. If more than one request is made for the same religious holiday off work, and the capacity of the program for accommodation of such holiday is limited, then the first written request received by the Program Director (or delegate) will have priority.
5. Time off for religious holidays will be deducted from the vacation/statutory holiday leave stipulated in the PARO/CAHO Agreement.
6. If acceptable to the program, and requested by the resident, a resident may waive leave during one or more of the statutory holidays or Christmas/New Year leave period (defined by

the PARO/CAHO Agreement) in exchange for religious holiday leave. If a resident chooses to waive vacation or statutory holidays, this must be documented in writing and agreed to by both the resident and the Program Director.

**Religious Observances:**

It is expected that postgraduate residency programs should accommodate requests for religious observance such as time for prayer. The Postgraduate Office suggests that 2 hours is a reasonable amount of time for trainees to travel to a designated location and participate in prayer.

The following hospital locations are available for religious observance:

**LHSC**

University Hospital – Room A1-502  
Victoria Hospital – Room C3-402  
South Street Hospital – Room W132

**St. Joseph's Hospital**

Multi-faith prayer room is located in Zone A- Level 1 - Room A1-027

**Regional Mental Health Care London**

Multi-faith prayer room is located on Level 1 - Room B107

*Approved in the PGE Committee October 2009*

## Conferences and Meetings:

Resident attendance at national and international conferences is encouraged. Residents in their PGY1 year are funded to attend and complete the ATLS course (\$1,200/resident). Thereafter, each resident is funded to a total of \$4,500 for the duration of their residency to attend national/international meetings. They are strongly encouraged to submit and present papers at national and international meetings and residents can be additionally funded (up to \$1,000/meeting) for any meetings they present at through the University PGE office. Original receipts are required (i.e. not VISA statements, etc.) and Western policy will not allow reimbursement otherwise. Attendance at the ATLS course (PGY1 year) is considered a conference for the purpose of reimbursement and is the only conference covered during the PGY1 year.

## Postgraduate Medical Education

### Resident/Fellow Travel Reimbursement Fund:

It is recognized that during the course of postgraduate training, residents and fellows benefit from attending conferences and meetings which allow them to better achieve their academic mission and individual career goals. Attendance at such meetings often involves travel. All postgraduate training programs have some resources available to support resident/fellow travel; however, these funds may often be inadequate to support the total costs associated with resident/fellow travel and not provide opportunities for resident/fellow to pursue non-medical expert roles. The Resident/Fellow Travel Reimbursement Fund has been developed by Western and the hospitals to supplement what is currently provided by the training programs.

**Awards:** Awards of up to \$2,000.00 each (reimbursement upon submission of receipts). Maximum \$20,000 awarded annually. One award (maximum \$2,000) will be given to applications for a leadership development opportunity (e.g. leadership seminars, management workshops). Consideration for this award will be given to residents/fellows having demonstrated interest and capacity in leadership. Examples include positions as Chief Resident, PARO representative, or as a member of another committee. For the other awards, consideration will also be given to residents who are travelling to contribute to a meeting rather than just attending. Applications to fund electives or specialty specific "medical expert" courses will not be considered. Courses or seminars supporting the other CanMEDS roles or the four principles of Family Medicine will be viewed favourably.

**Application:** Written applications (up to one page) must be submitted to the Awards Committee. The application must include an outline of the proposed travel using the following **headings:**

1. **Objectives** of attending the meeting/course (e.g. enhancement of resident/ fellow's ability in one of the following: clinical ability, research, teaching, administration, or leadership).
2. **Time line**
3. **Expected benefits** - relevance to program training and/or career aspirations.
4. **Budget** detailing associated direct costs (e.g. tuition, travel, accommodation). Original receipts/boarding passes will be required to issue any award.

The application must also include a maximum two-page summary CV highlighting information relevant to the support of the application, and **a letter of support from the Program Director**. Availability of matching funds through the Department or other sources should be mentioned.

Although there is no limit to the number of awards per program the Program Director is expected to indicate some level of priority if a number of trainees from the same program are applying. **Please provide a copy of your abstract or meeting presentation, if applicable.**

Competitions: Competitions will be held twice per academic year, depending on the availability of resources. **Deadline for submission of applications will be April 30 and October 31.**

Applications may be submitted prospectively or retroactively to:

**Postgraduate Medical Education, Schulich School of Medicine & Dentistry, Western, Room M103, Medical Sciences Bldg., London, ON, N6A 5C1; phone 519-661-2019; fax 519-850-2492**

\*Providing receipts, as well as notifying the PGME Office of paper acceptance or of any change in status of the application after submission, may enhance one's chance of success.

Adjudication: By the Resident Travel Reimbursement Fund Selection Committee. The Committee consists of:

- Associate Dean, Postgraduate Education or designate, Chair
- Three Postgraduate Program Directors
- Three Resident or Fellow representatives
- One staff member from PGME Office
- Vice-President, Citywide Medical Affairs or designate

**Approved: PGE Committee February 13, 2008 Revised: 21 March 2012**

## **On-Call Responsibilities**

The Division and Western University strictly adhere to the PARO agreement (2016) which stipulates that on-call frequency is a maximum of 1 in 3 nights for "home call" and 1 in 4 nights for "in-house" call. Any requests to do more than this should be immediately referred to the Program Director. The Junior resident is expected to field all outside calls, all floor calls, calls from the ER and from patients. They will then include the Senior resident for any questions and consults that need to be seen. It is wise to clarify with your Senior resident in advance if they have any specific requests for how call should be done, (ie. Junior sees consult then calls senior vs. call senior then see consult). The Senior resident will receive all One-Number calls. The staff physician should receive the 'Criti-call' calls.

## Call Schedules

Every effort will be made to circulate the resident call schedule two weeks prior to the start of each month. Any home call to in-hospital call conversions should be forwarded to Mindy by email. Please ensure that the junior resident is copied on the email to avoid duplicate requests.

# POSTGRADUATE MEDICAL EDUCATION RESIDENT HEALTH AND SAFETY POLICY

## 1. BACKGROUND

The PGME Office recognizes that residents have the right to a safe environment during their residency training. The responsibility for promoting a culture and environment of safety for residents rests with the Schulich School of Medicine & Dentistry, hospitals and other training sites, residency training programs and residents themselves.

The Royal College of Physicians and Surgeons of Canada and the College of Family Physicians of Canada have collaborated in developing national standards for evaluation of the University Postgraduate Medical Education function and the sites used for residency education. Standard A2.6 states that:

All participating sites must ensure resident safety at all times, particularly considering hazards such as environmental toxins, exposure to infectious agents transmitted through blood and fluid, radiation, and potential exposure to violence from patients or others.

The collective agreement between the Professional Association of Interns and Residents of Ontario (PARO) and the Council of Academic Hospitals of Ontario (CAHO) states that residents are postgraduate medical trainees registered in university programs as well as physicians employed by the hospitals. The agreement contains provisions relating to the health and safety of residents and is found at: <http://www.pairo.org/>. The agreement states that on call facilities will include secure and private rooms and that the hospital will endeavour to provide secure access between hospital and call room facilities. The agreement also states that each hospital has the responsibility to provide reasonable security for all residents in all hospital facilities, that the hospital will make available appropriate protective equipment and clothing where circumstances warrant, and that residents are entitled to receive access to and coverage for Occupational Health services.

Ontario's Occupational Health and Safety Act (OHSA) outlines minimum standards for health and safety in the workplace and establishes procedures for dealing with workplace hazards and protection against workplace violence.

The Western University Health and Safety Policy states that the University has an ethical and legal responsibility to provide a safe environment in which to study and work and that the University strives to foster the development of a safety consciousness in all members of the University community for the purpose of minimizing the risk of injury to persons or the damage to property or facilities. The policy further provides that Deans, department heads, supervisors and any persons responsible for directing the work of others are responsible for ensuring that safe and healthy work conditions are maintained in their assigned areas, and that Faculty, staff and students are responsible for complying with all applicable safety requirements, including legislated requirements and all University policies and procedures related to health and safety.

## 2. PURPOSE

The purpose of this document is to:

2.1 minimize the risk of injury and promote a safe and healthy environment on the University campus and teaching sites

2.2 demonstrate the Schulich School of Medicine & Dentistry's commitment to the health, safety, and protection of its residents

2.3 provide a procedure to report hazardous or unsafe training conditions and a mechanism to take corrective action.

### **3. SCOPE AND RESPONSIBILITY**

3.1 The University, hospitals, and affiliated teaching sites are accountable for the environmental, occupational, and personal health and safety of their employees.

3.2 The University, hospitals, and affiliated teaching sites have the right to make implementation decisions and allocate resources within their respective policies.

3.3 All teaching sites must meet the health and safety requirements of the PARO-CAHO collective agreement.

3.4 Individual residency programs are required to develop safety policies to deal with issues specific to their training (e.g. Medivac/Ambulance Transport). In addition, site specific policies may be required.

3.5 Residents must comply with applicable health and safety codes and policies and communicate safety concerns to both the training site and the program. Residents are expected to participate in required safety sessions at training sites.

3.6 Residency training programs are expected to act promptly to address identified safety concerns.

3.7 This Policy provides a procedure for residents to use when faced with a health and safety issue during the course of their training which cannot be resolved at the local training site level.

### **4. PROCEDURE**

#### **Environmental Health**

4.1 Accidents, incidents and environmental illnesses occurring during a resident's training will be reported and administered according to the reporting policies and procedures of the University, hospital or clinical teaching location.

#### **Occupational Health**

4.2 Residents will receive instruction on body substance precautions, infection control, and occupational health procedures in the hospitals and teaching sites. This instruction is a joint responsibility of the hospital or teaching site and the residency program.

4.3 Resident Immunization Data is collected by the London Health Sciences Centre and St. Joseph's Health Care, London. Other hospitals and training sites may request this data from residents prior to completing a rotation at their site.

4.3.1 Residents not meeting hospital immunization and other occupational health requirements are not permitted to complete their registration with the PGME Office and will not be credentialed by the hospital. Information on current immunization and other occupational health requirements may be obtained from the hospitals.

4.4 Residents are professionally and ethically obligated to inform the Associate Dean PGME of any blood borne infection. Accommodation or modification of their program will be determined on a case by case basis.

## **Personal Safety**

4.5 All teaching sites, hospitals, and long-term care institutions are responsible for ensuring the safety and security of residents training in their facilities in compliance with their existing employee safety and security policies/procedures as well as the requirements outlined in the PARO-CAHO agreement. Locations without a formal health and safety policy or joint committee will be guided by the standards outlined in the Occupational Health and Safety Act.

4.6 The following policies apply only during residents' activities that are related to the execution of residency duties:

### a) Travel

- Residents are responsible for making appropriate arrangements for travel to clinical or other academic assignments. If circumstances give rise to travel safety concerns (e.g. weather conditions, rotation scheduling or on call scheduling), it is the Residents' responsibility to notify their Program Director promptly.

### b) After Hours and On-Call Work

- Residents working after hours in health care or academic facilities are expected to inform themselves of site specific security resources.
- Residents are not expected to work alone at after-hours clinics.
- Residents are not expected to make unaccompanied home visits.
- Residents should only telephone patients from a clinic or hospital telephone line. If calls must be made with a personal or mobile phone, this should be done using call blocking.
- Residents are expected to take reasonable precautions when walking alone at night (e.g. request security escort).

### c) Violent or Threatening Patients

- If a resident feels that his or her personal safety is threatened, he or she should remove him or herself from the situation in a professional manner and seek immediate assistance.
- In the event of a safety emergency at any time, the resident should call security and/or the police.
- Residents should not assess violent or psychotic patients without the backup of security and an awareness of accessible exits.
- The physical space requirements for management of violent patients must be provided where appropriate.
- Programs should provide special training to residents who are expected to encounter aggressive patients.

### d) Occupational Health and Safety

- Residents should familiarize themselves with the location and services offered by the relevant Occupational Health and Safety Office. This includes familiarity with policies and procedures for infection control and protocols following exposure to contaminated fluids, needle stick injuries, and reportable infectious diseases.
- Residents must observe universal precautions and isolation procedures when indicated.
- Residents should keep their immunizations up to date. Overseas travel immunizations and advice should be sought well in advance when travelling abroad for electives or meetings.
- Residents working in areas of high and long term exposure to radiation must follow radiation safety policies and minimize their exposure according to current guidelines.
- Radiation protective garments (aprons, gloves, neck shields) should be used by all residents using fluoroscopic techniques.



- Pregnant residents should be aware of specific risks to themselves and their fetus in the training environment and request accommodations were indicated. Residents should consult the appropriate Occupational Health and Safety Office for information.

#### e) General

- Call rooms and lounges provided for residents must be clean, smoke free, located in safe locations, and have adequate lighting, a phone, fire alarms, and smoke detectors. Any appliances supplied are to be in good working order. There must be adequate locks on doors.
- Site orientations should include a review of local safety procedures.

#### **Psychological Safety**

4.7 Learning environments must be free from intimidation, harassment, and discrimination. Both the hospitals and the University have policies and procedures in place to address such issues. Residents should familiarize themselves with Schulich's policy on *Faculty/Student/Staff Code of Conduct for Teacher-Learner and Trainee-Clinician Relationships*

[https://www.schulich.uwo.ca/learner-equity-](https://www.schulich.uwo.ca/learner-equity-wellness/equity_professionalism/code_of_conduct.html)

[wellness/equity\\_professionalism/code\\_of\\_conduct.html](https://www.schulich.uwo.ca/learner-equity-wellness/equity_professionalism/code_of_conduct.html) and the applicable hospital policies.

#### **Other**

4.8 Programs should promote a culture of safety in which residents are encouraged to report and discuss adverse events, critical incidents, 'near misses', and patient safety concerns.

### **5. REPORTING/FOLLOW UP**

5.1 Residents identifying a safety or security concern or breach must report it to their immediate supervisor at the training site and comply with the site reporting requirements. When appropriate, the safety or security concern should also be brought to the attention of the Program Director or PGME Office.

5.2 If the safety or security issue is not resolved at the local level, it must be reported to the Associate Dean, PGME who will investigate and may re-direct the issue to the relevant hospital or University office for resolution. The resident/faculty member bringing the incident forward will receive a response within 10 days outlining how the complaint was handled or if it will require further review.

5.3 Pending an investigation and the resolution of an identified personal safety or security concern, the Program Director and/or Associate Dean, PGME has the authority to remove residents from clinical placements if the risk is seen to be unacceptable.

5.4 The Associate Dean, PGME may bring resident safety/security issues to the hospital office responsible for safety and security, the University's Occupational Health and Safety Office, Campus Community Police Service, the Associate Dean, Windsor Program, the Associate Dean, SWOMEN, or the Associate Dean, Equity and Professionalism for resolution or further consultation.

5.5 The Associate Dean, PGME will report as appropriate to the Postgraduate Medical Education Committee on resident safety/security issues.

5.6 Health and safety systems issues may also be brought to the attention of the Associate Dean, PGME at any time by various methods, including internal reviews, resident/faculty/staff reporting, or police/security intervention.

#### Urgent Situations:

5.7 Urgent resident safety issues must be brought to the attention of the Program Director and Associate Dean, PGME immediately.

## **6. University Personal Safety Resources**

Residents are responsible for obtaining and familiarizing themselves with hospital policies and resources relating to health, safety and security. Questions about those policies should be directed to relevant hospital personnel.

Residents should also be aware of the following Faculty and University policies and resources:

- Schulich School of Medicine & Dentistry's Policy, *Faculty/Student/Staff Code of Conduct for Teacher-Learner and Trainee-Clinician Relationships*:  
[https://www.schulich.uwo.ca/learner-equity-wellness/equity\\_professionalism/code\\_of\\_conduct.html](https://www.schulich.uwo.ca/learner-equity-wellness/equity_professionalism/code_of_conduct.html)
- The University's *Non-Discrimination/Harassment Policy*  
[http://www.schulich.uwo.ca/medicine/postgraduate/future\\_learners/docs/Policies%20for%20Website/mapp135.pdf](http://www.schulich.uwo.ca/medicine/postgraduate/future_learners/docs/Policies%20for%20Website/mapp135.pdf)
- Personal safety information, advice, and resources listed on Campus Community Police's website, including the following:

Work Safe Program: [http://www.uwo.ca/police/personal\\_safety/work\\_safe\\_program.html](http://www.uwo.ca/police/personal_safety/work_safe_program.html)

Western's Safe Campus Community initiatives:

[http://www.uwo.ca/police/pdf/campus\\_safety/Safety\\_60\\_Initiatives\\_on\\_Campus2010.pdf](http://www.uwo.ca/police/pdf/campus_safety/Safety_60_Initiatives_on_Campus2010.pdf)

Western Foot Patrol: <http://www.uwo.ca/footpatrol/>

**Approvals: PGME Committee March 7, 2012 NEW POLICY**

**Executive Committee Schulich Council May 4, 2012**

## **Guidelines for Appropriate Use of the Internet, Electronic Networking and Other Media**

These Guidelines apply to all postgraduate trainees registered at Schulich School of Medicine & Dentistry at Western University, including postgraduate students, fellows, clinical research fellows, or equivalent. Use of the Internet includes posting on blogs, instant messaging [IM], social networking sites, e-mail, posting to public media sites, mailing lists and video-sites.

### General Guidelines for Safe Internet Use:

These Guidelines are based on several foundational principles as follows:

- The importance of privacy and confidentiality to the development of trust between physician and patient
- Respect for colleagues and co-workers in an inter-professional environment
- The tone and content of electronic conversations should remain professional
- Individual responsibility for the content of blogs
- The permanency of published material on the Web
- All involved in health care have an obligation to maintain the privacy and security of patient records under The Personal Health Information Protection Act [PHIPA], which defines a record as: "information in any form or any medium, whether in written, printed, photographic or electronic form or otherwise."

Please review full Guidelines at:

[http://www.schulich.uwo.ca/medicine/postgraduate/future\\_learners/docs/Policies%20for%20Website/Guidelines\\_for\\_Appropriate\\_Use\\_of\\_the\\_Internet.pdf](http://www.schulich.uwo.ca/medicine/postgraduate/future_learners/docs/Policies%20for%20Website/Guidelines_for_Appropriate_Use_of_the_Internet.pdf)

## **MSc in Surgery**

The Department of Surgery offers a Master of Science in Surgery Program. This MSc is tailored to the unique needs of surgical trainees; providing an intensive research experience and a solid foundation for success as an academic surgeon.

The MSc in Surgery is intended to fully prepare these individuals specifically seeking future positions in Academic Health Science Centres for the demands of a research career in relation to the CanMeds roles of Medical Expert and Scholar. Demonstration of core competencies will be required through coursework, basic/clinical/applied research, thesis preparation and defense.

**Please note:** The MSc in Surgery is not a clinical program.

More information on the program can be found here:

[https://www.schulich.uwo.ca/surgery/education/msc\\_in\\_surgery/future\\_students/index.html](https://www.schulich.uwo.ca/surgery/education/msc_in_surgery/future_students/index.html)

## APPENDIX

### Internet Links for Policies and Guidelines:

- Specialty Training Requirements in Plastic Surgery:  
[http://www.royalcollege.ca/rc/faces/oracle/webcenter/portalapp/pages/viewDocument.jspx?document\\_id=IZTEST3RCPCSCED000689&\\_afLoop=8604822190732680&\\_afWindowMode=0&\\_afWindowId=13vmrgllvo\\_14#!%40%40%3F\\_afWindowId%3D13vmrgllvo\\_14%26\\_document\\_id%3DTZTEST3RCPCSCED000689%26\\_afLoop%3D8604822190732680%26\\_afWindowMode%3D0%26\\_adf.ctrl-state%3D13vmrgllvo\\_30](http://www.royalcollege.ca/rc/faces/oracle/webcenter/portalapp/pages/viewDocument.jspx?document_id=IZTEST3RCPCSCED000689&_afLoop=8604822190732680&_afWindowMode=0&_afWindowId=13vmrgllvo_14#!%40%40%3F_afWindowId%3D13vmrgllvo_14%26_document_id%3DTZTEST3RCPCSCED000689%26_afLoop%3D8604822190732680%26_afWindowMode%3D0%26_adf.ctrl-state%3D13vmrgllvo_30)
- Royal College Objectives of Training in Plastic Surgery:  
<http://www.royalcollege.ca/cs/groups/public/documents/document/y2vk/mdaw/~edisp/tztest3rcpsced000934.pdf>
- PARO Vacation Guidelines:  
<http://www.myparo.ca/your-contract/#vacation>
- PGME Policy on Residency Leaves of Absence and Training Waivers
- PGME Resident Evaluation and Appeals Policy
- Schulich Postgraduate Appeals Committee
- PGME Supervision of Postgraduate Medical Trainees on Clinical Rotations
- PGME Resident Health & Safety Policy
- PGME Policy on Evaluation – Remediation, Probation, and Dismissal of Residents
- Guidelines for Appropriate Use of the Internet, Electronic Networking and Other Media:  
[http://www.schulich.uwo.ca/medicine/postgraduate/academic\\_resources/policies.html](http://www.schulich.uwo.ca/medicine/postgraduate/academic_resources/policies.html)