



ARMY MEDICINE
One Team, One Purpose...
Conserving the Fighting Strength Since 1775!

Readiness # 1

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Health Care Delivery

29 November 2018

UNCLASSIFIED



Presenter has no interests to disclose.

AMSUS and ACE/PESG staff have no interests to disclose.

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Purpose:

To provide an overview on how Army Medicine improves Readiness through Primary Care, Behavioral Health, Musculoskeletal initiatives, Traumatic Brain Injury, and Comprehensive Pain Integration.

Agenda:

1. Introduction & Learning Objectives
2. Priorities and Imperatives
3. Army Medical Home
4. Behavioral Health Service Line (BHSL)
5. Physical Performance Service Line (PPSL)
6. Traumatic Brain Injury (TBI)
7. Army Comprehensive Pain Management Program



At the conclusion of this activity, the participant will be able to:

- Show how Army Medical Homes assist in maintaining the Ready Medical Force.
- Describe how at least one core BHSL program supports Readiness.
- Describe the role of the Behavioral Health Data Portal in linking patient care to the Behavioral Health Service Line's role in promoting Readiness.
- Show PPSL holistic approaches that have allowed for fewer limited duty days making Soldiers Mission Ready.
- Describe advances in the understanding of TBI and how they will be integrated into clinical practice on the battlefield, in training and in the clinics.
- Show how Army Medicine has established an enduring comprehensive pain management strategy; integrating holistic, complementary and integrative therapies; vital in shaping the future of the Military Health Systems; while directly impacting readiness – not only of the Warfighter but also of the Army Family.



CSA Priorities: *Readiness (#1)*, Future Army, Take Care of the Troops

“Readiness to fight and win in ground combat is, and will remain, the United States Army’s No. 1 priority, and there will be no other No. 1. We will always be ready to fight today. We will always prepare to fight tomorrow.”

General Mark A. Milley, Army Chief of Staff



“Our challenge today is to sustain the counterterrorist and counterinsurgency capabilities that we’ve developed with a high degree of proficiency over the last 15 years, while simultaneously rebuilding the capability to win in ground combat against higher-end threats such as Russia, China, North Korea and Iran... We can wish away these threats, but we’d be very foolish as a nation to do so.”

General Mark A. Milley, Army Chief of Staff

“Our readiness to deploy healthy individuals and organizations in support of the world’s premier combat force must be without question. Readiness is #1.”

LTG Nadja Y. West, Army Surgeon General



“The future of Army Medicine at the individual, organizational and enterprise levels is being determined today. We must rapidly develop scalable and rapidly deployable medical capabilities that are responsive to Operational needs and are able to effectively operate in a Joint/Combined environment characterized by highly distributed operations and minimal, if any, pre-established health service infrastructure.”

LTG Nadja Y. West, Army Surgeon General



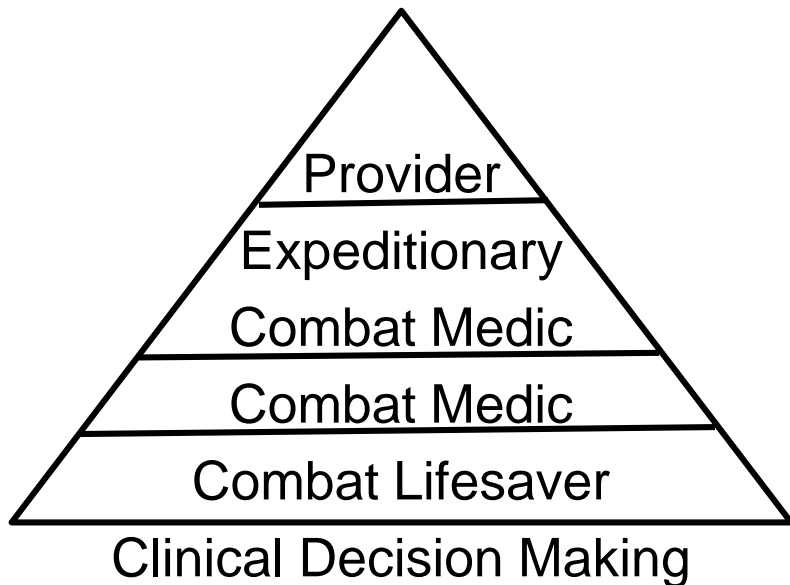
Readiness Begins with Leaders!



Medic Development



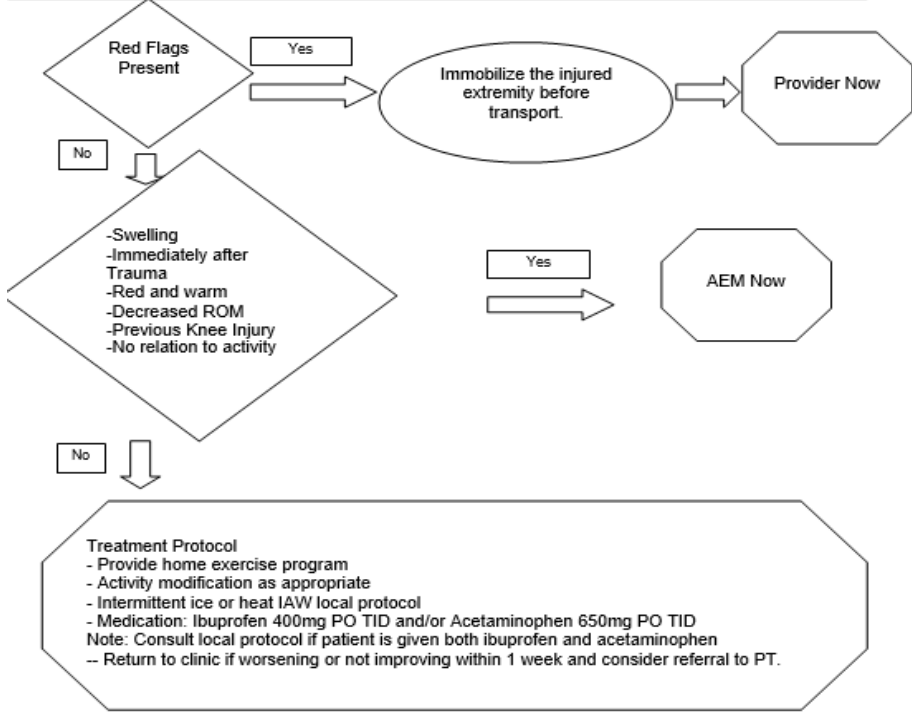
- Ready Medical Force
- Operational Correlation
- Broadening Scope
- Delegated Authority
- Validation
- Supervision/Mentorship
- Experience (Reps/Sets)
- Training



MEDCOM Pam 40-7-21

KNEE PAIN, B-8

Partial Differential Diagnosis: Ligament or Cartilage Injury Arthritis Overuse Injury Infection/ Inflammation Bursitis	RED FLAGS - Abnormal PMS - Deformity - High Energy Trauma - Fever	Activity Modification: - Running - Jumping - Squatting - Lifting/ Carrying - Extended Standing
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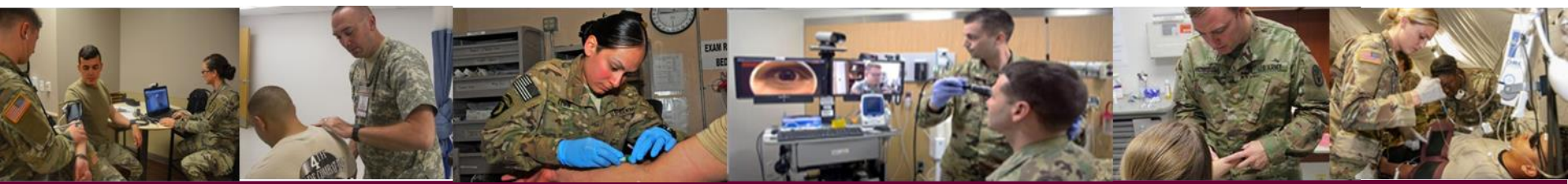


Expanded Medic Capability

- Expanded Medic Treatment
- Utilization of ECM/NCO
- IAW ICTs and MEDCOM 40-50

Increased Quality & Safety

- Documented in EHR
- Provider Co-signature
- Medic Peer Reviews
- NCO Chart Reviews



Utilization of

Algorithm Directed Troop Medical Care

1 Week AMH Orientation

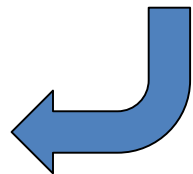
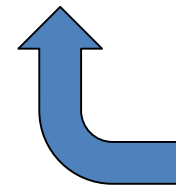
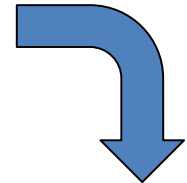
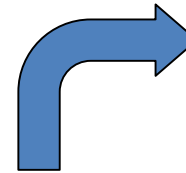
24-36 Hours Didactic Instruction

+ >300 Hours Clinical Preceptorship

Primary Care ICTs Trained

MEDCOM 40-50 Skills Trained

- 10 Week Rotation vs 3 Day Course
- Training Standardization
- Documented in DTMS
- Training Evaluation Provided



MSTC + UC/ER + **SCMH** + Inpatient Experience = Prolonged Field Care



BHSL Overview

11 Integrated Behavioral Health Programs Centered on the Patient in Support of Health and Readiness

FAMILIES



1* BH in Patient Centered Medical Home (PCMH)

- Integrates BH providers within primary care clinics that deliver care to Active Duty Family members in order to screen and treat common BH problems.

2* Child & Family BH System (CAFBHS)

- BH services to support military children, their families, and the Army community using school based care, tele-consultation and direct care services.

3* Family Advocacy Program (FAP)

- Provides domestic and child abuse prevention, education, prompt reporting, investigation, intervention and treatment.

➤ The BHSOC operates as a single BH system that supports Army Readiness by promoting health, identifying BH issues early in the course of the illness, delivering evidence-based treatment, and monitoring efficiency and effectiveness through transparent metrics.

➤ Substance Use Disorder Clinical Care is integrated in 6 of 11 programs (EBH, Medical Homes, MultiID, IOP, RTF, and IBH).

Referral to MTF Behavioral Health Services/ IOPs/RTFs

11* Support of TBI (BH-TBI)

10* Connect Care

- Provides care management for Soldiers and FMs referred to civilian inpatient facilities to ensure high quality and coordinated BH care.

SOLDIERS



1* BH in Soldier Centered Medical Home (SCMH)

- Integrates BH providers within primary care clinics that deliver care to Active Duty Soldiers in order to screen and treat common BH problems.



4* Embedded Behavioral Health (EBH)

- Provides multidisciplinary, community behavioral healthcare to Soldiers in close proximity to their units and in coordination with their unit leaders.



5* Multi-Disciplinary Behavioral Health Services (MultiID)

- Provides general and sub-specialty BH services to Soldiers and Families through prevention, advocacy and treatment.



6* Intensive Outpatient Programs (IOP)

- Treats patients presenting with substance use disorder and/or BH problems utilizing a multi-week intensive outpatient treatment strategy.



7* Inpatient Behavioral Health Services

- Provides inpatient BH services to treat acute BH crises to enable rapid symptom resolution and safe transfer of care to outpatient settings.



8* Residential Treatment Facilities (RTF)

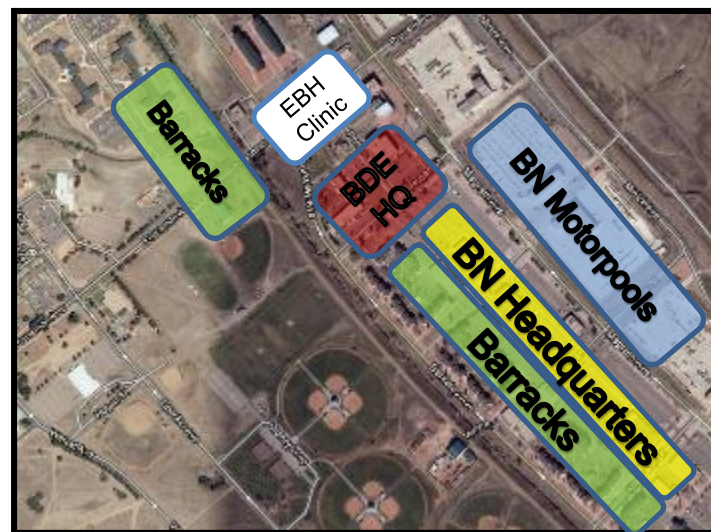
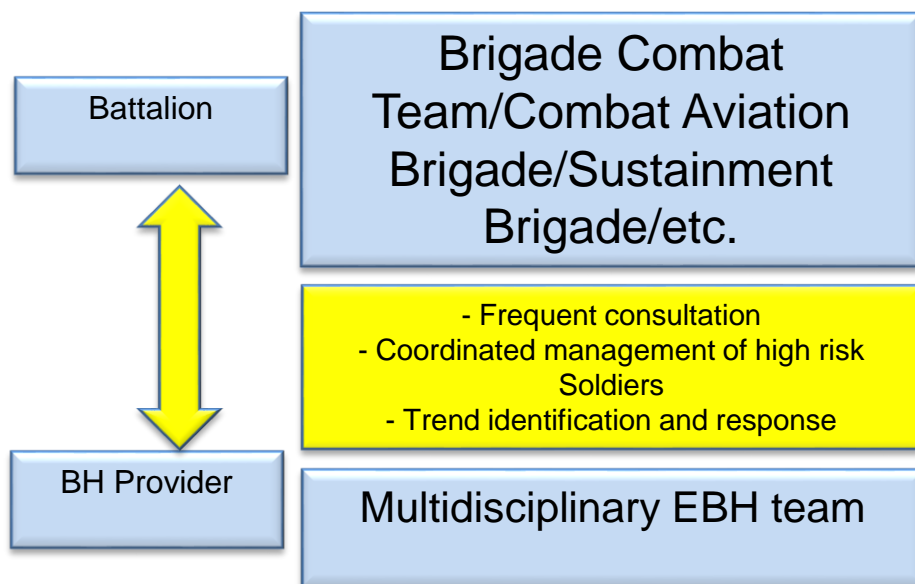
- Provides an interdisciplinary program in a 24-hour, live-in, multi-week setting targeting substance use disorders and other chronic conditions.

9* Tele-Behavioral Health: Transmitting BH Clinical Capability Virtually

BHDP Tracks patient outcomes, patient satisfaction, and risk factors via web application



- Embedded Behavioral Health (EBH):
 - Reorganization of traditional model of outpatient BH care to one that is proactive, forward-positioned and aligned with active component operational units (direct support relationship)
 - Addresses gaps in access and continuity of care through multidisciplinary teams
 - Care occurs in an easily accessible (forward) location





From the Clinic to Enterprise Metrics

Patients complete BHDP survey in waiting room before each appointment



Providers review individual SM data to inform clinical practice and discuss with patient



BHDP data are merged with AHLTA data to create MTF, regional, and MEDCOM level metrics



Harvard Business Review

INFORMATION & TECHNOLOGY

How the U.S. Army Personalized Its Mental Health Care

by Jayakanth Srinivasan, Millard D. Brown, Christopher G. Ivany, and Jonathan Woodson

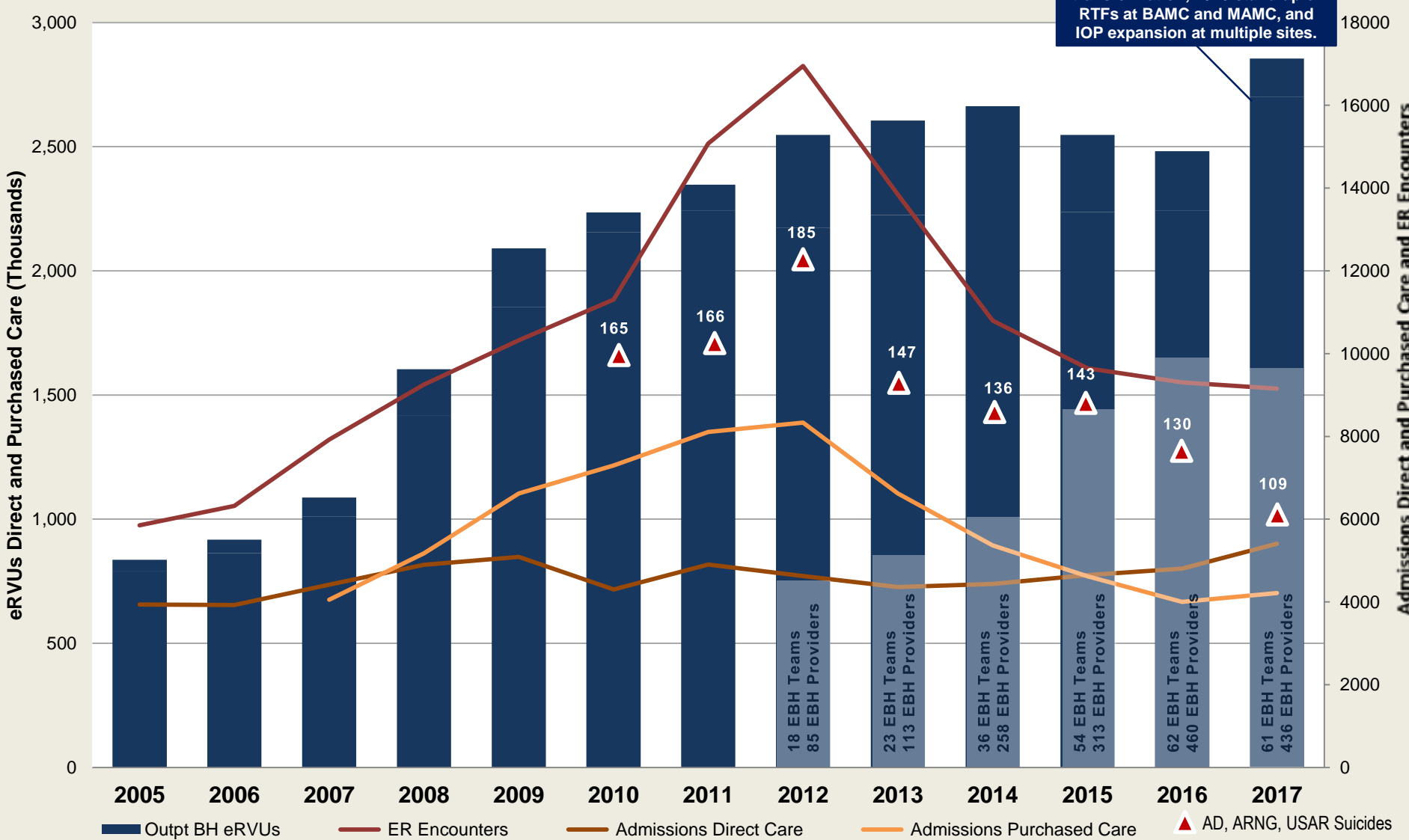
DECEMBER 07, 2016

- **Recognized as the DoD frontrunner in BH outcomes monitoring, the Army's Behavioral Health Data Portal (BHDP) enables precision medicine, enhances quality and continuity of care, and embeds systems for providing individualized feedback and action at the point of care.**
- **Recognized in the December 2016 Harvard Business Review, BHDP enables a real-time, standardized approach to enhance and demonstrate individual and population health improvement.**
- **As of September 2018, the Army used BHDP in over 95,000 BH encounters every month with a total of over 4.5 million surveys collected to date.**



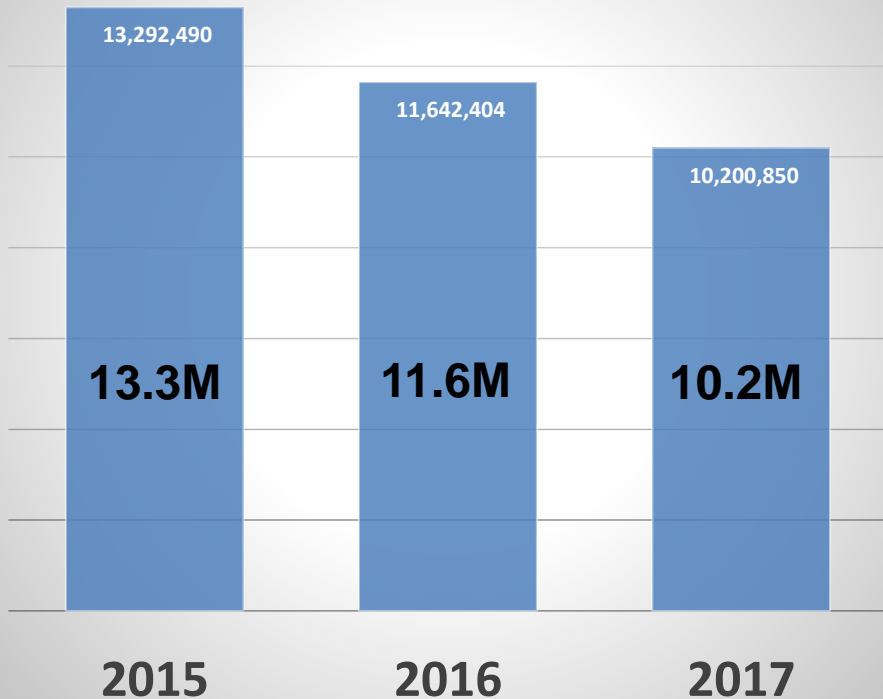
Army Behavioral Health Care

Correlated with 2016 ASAP transformation, 2016 stand up of RTFs at BAMC and MAMC, and IOP expansion at multiple sites.

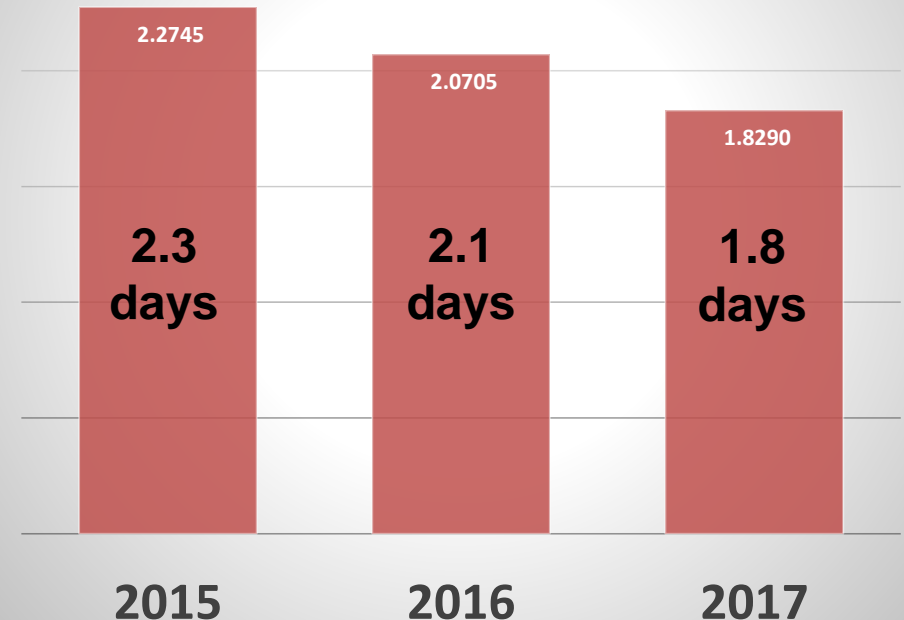


Soldier Musculoskeletal (MSK) Profile Days are Decreasing

Total Number of MSK Days on Profile



AVG Number of MSK Days on Profile per Soldier

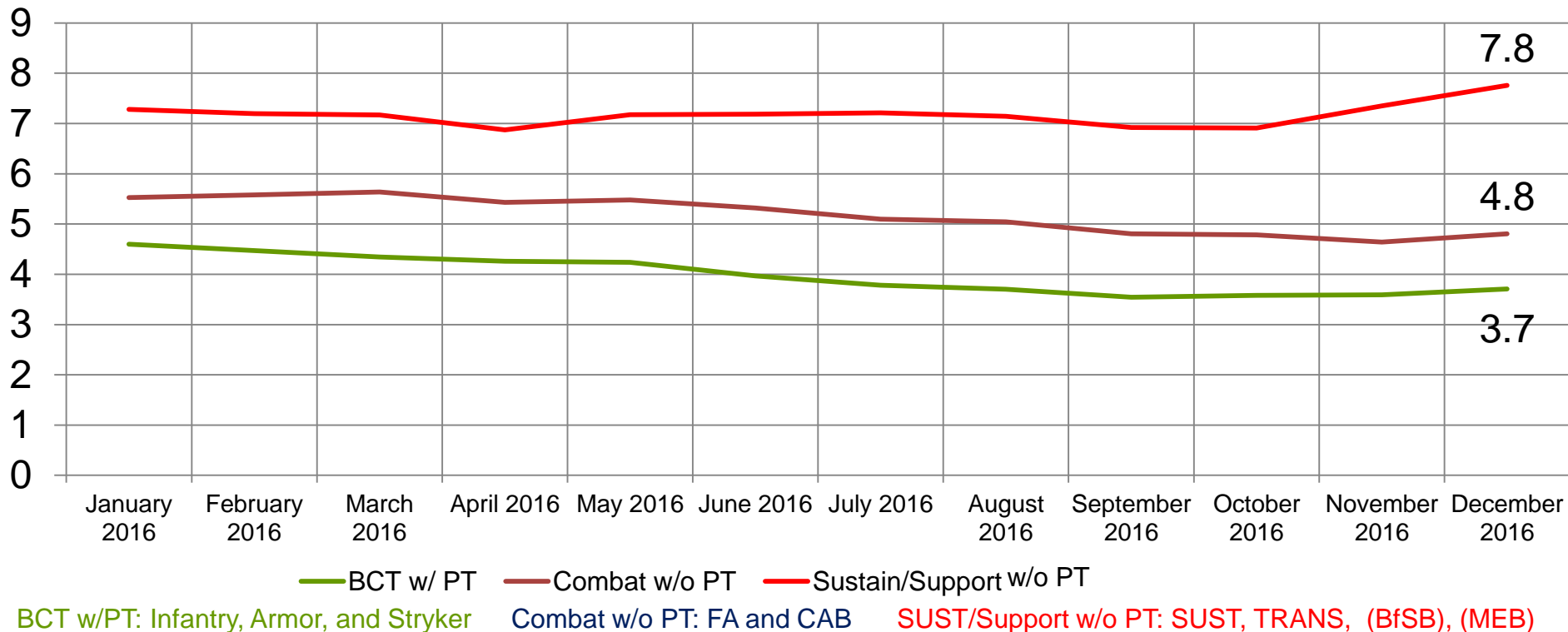


- 3 million day decrease in MSK profile days from CY15 to CY17
- 23% decrease in MSK profile days exceeds 4% decrease in size of Army from CY15 to CY17





% Soldiers on Temporary MSK profile >90 days in the previous 180 days

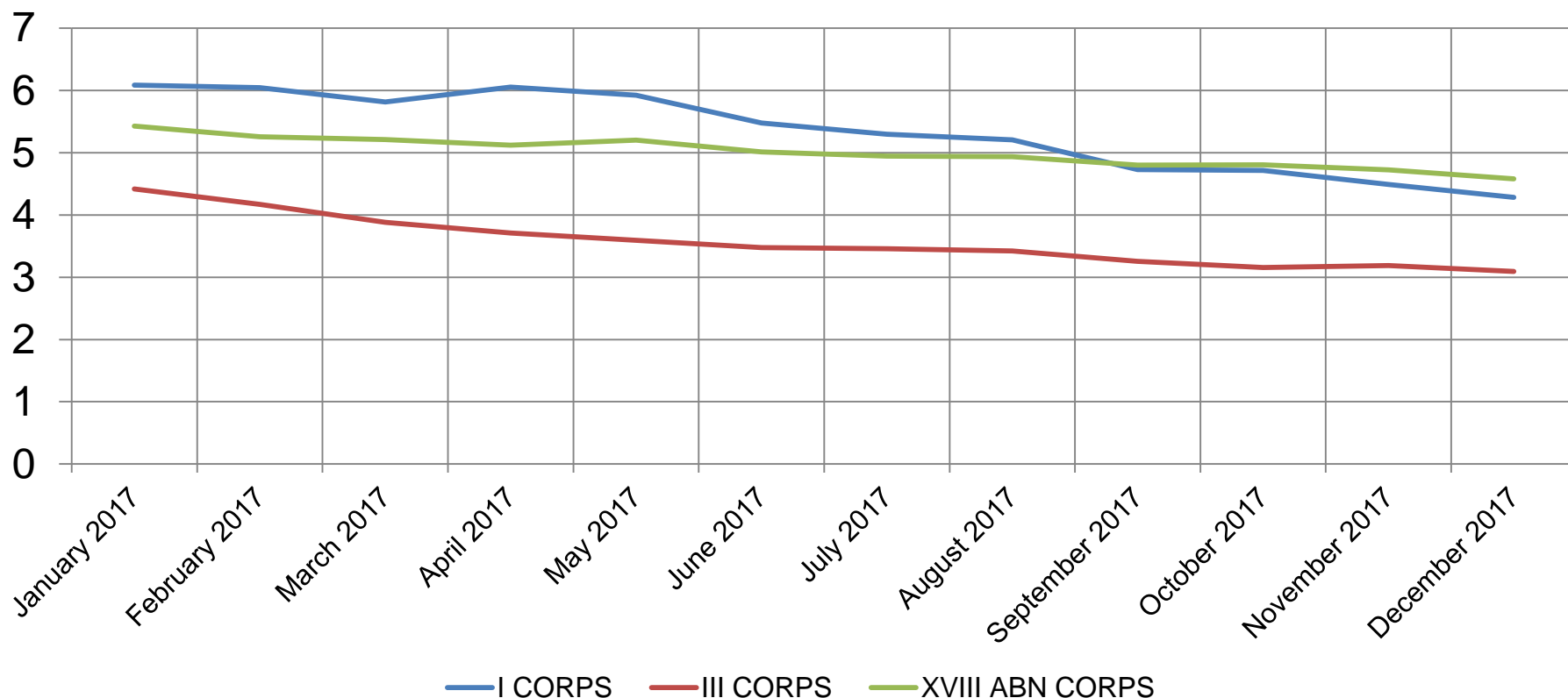


Combat units with organic medical personnel, including PTs, have considerably fewer Soldiers on chronic MSK profiles than combat support and combat service support units with fewer medical personnel and no PTs.

In June 2016 MEDCOM released the new eProfile system. The methodology for identifying MSK profiles changed from U & L in PULHES to key term search based on review of 4000 MSK profiles.



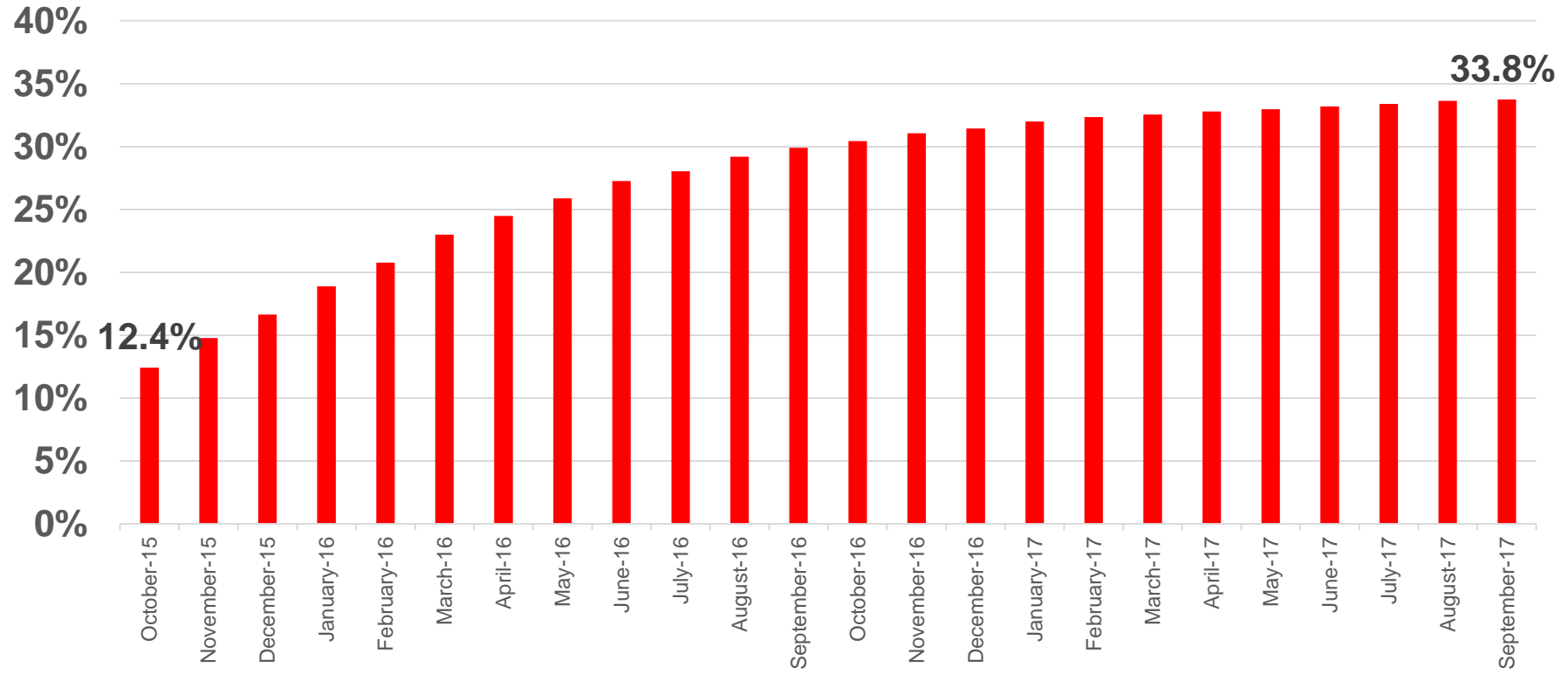
% Soldiers on MSK profile >90 days in the Last 6 Months



- Yes there is significant variance in MSK burden even at the Army Corps level

3.8% of Soldiers with chronic MSK → 48% all limited duty days

Percent of chronic (>90 days in previous 180) MSK Soldiers Receiving an MSK P3 Profile Over 24 Months








- Improved profile management
- Early access to physical therapist
- Embedded vs. co-located
- Forward multi-disciplinary MSK care in the unit
- Reconditioning physical readiness training
- Screening (Medical Readiness Assessment Tool - MRAT)
 - Non-deployment risk
 - Non-responder risk
- Disability Evaluation System efficiency

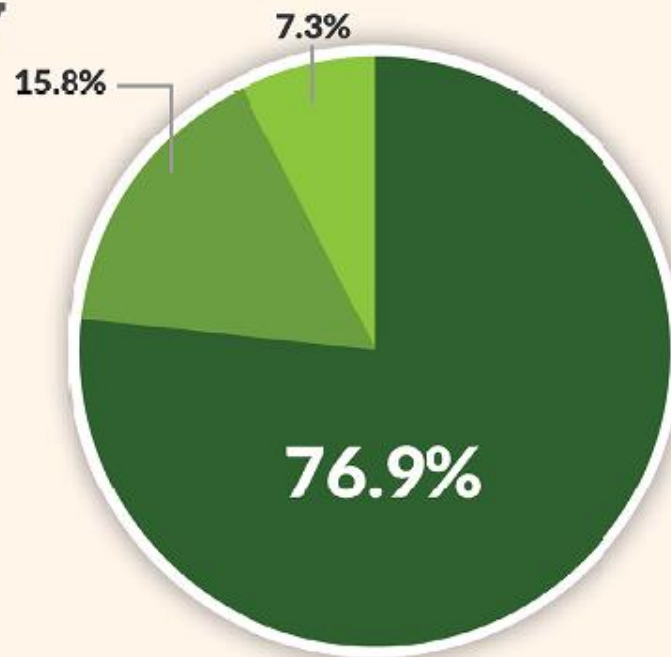


DoD Numbers for Traumatic Brain Injury Worldwide – Army

2000 - 2018 Q1

	Active	173,151
	Guard	35,489
	Reserve	16,504

Total - Army **225,144**



Source: Defense Medical Surveillance System (DMSS), Theater Medical Data Store (TMD5) provided by the Armed Forces Health Surveillance Branch (AFHSB)

Prepared by the Defense and Veterans Brain Injury Center (DVBIC)

2000 - 2018 Q1, as of June 21, 2018

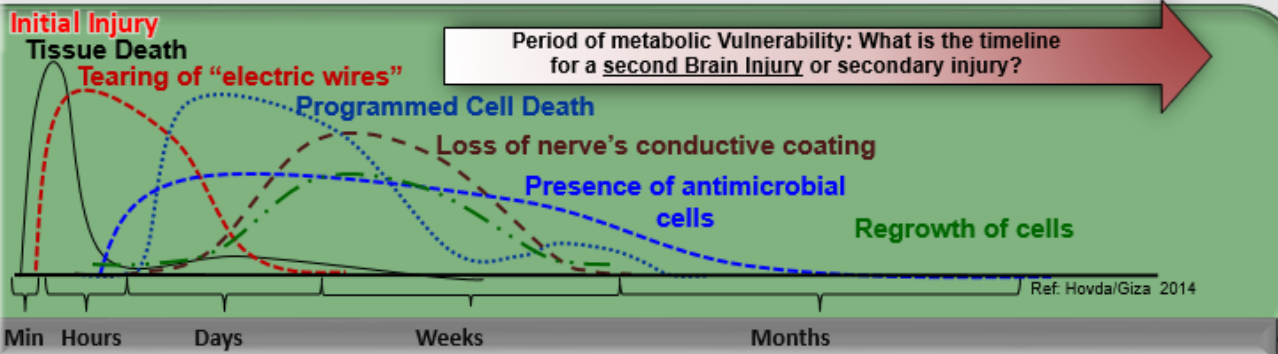
Mission: Produce an educated force trained and prepared to provide early recognition, treatment and tracking of traumatic brain injuries in order to protect Soldier health



Symptoms

- Headache
- Sleep disturbance/Fatigue
- Dizziness/Balance problems
- Visual disturbance
- Ringing in ears
- Slowed thinking
- Poor concentration
- Memory problems
- Anxiety/Depression/Irritability

Cellular Impact



Manifestation

- Failure to sleep at night
- Slower reaction time
- Decreased energy
- Balance problems
- Easily distracted
- Difficulty multitasking, processing information
- Enhanced fear of certain operational environments
- Interpersonal problems
- Slow physically and mentally

Clinical symptoms

Normal Cellular Function

Acute Neuronal Injury: Increases Energy Demand

Chronic Neuronal Damage = Energy Demand

Operational equivalent

Area Denial

Hostile Breach

Resource intensive: commit reserve force / reestablishing a strong point

Rest/ Recovery

Potential Outcomes From 1st Injury Attack:

Normal cellular function/ Area Denial

Resource intensive: commit reserve force / reestablishing a Strong point

Strong point is no longer a strong point

Potential Outcomes from 2nd Injury/attack:

Area Denial

Resource intensive: commit reserve force / reestablishing a Strong point

Enemy Exploited the Breach

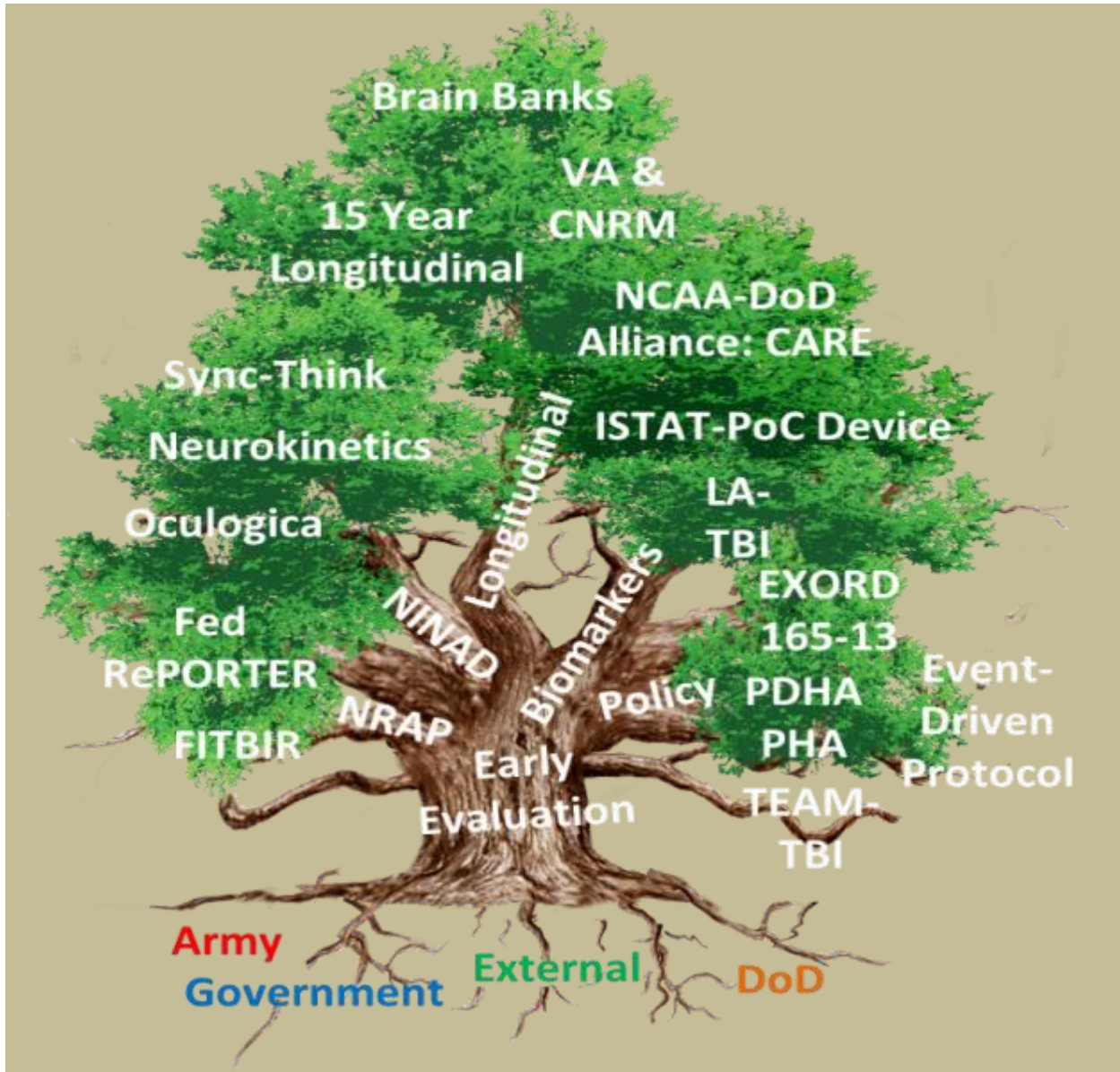
2nd TBI

Impact

- Worsening of a bad situation
- Failure to call in support quickly
- Failure to recall/relay information quickly
- Effect on Warrior skills
- Poor marksmanship
- Decreased work performance
- Decreased ability to avert an attack
- Failure to alert unit of threat
- Difficulty making rapid decision about friend/foe

High Risk Events (IBOLC Schedule)

Continue class
Basic Marksmanship
Advanced Marksmanship
Team Live Fire
Troop Leading Procedure
Indirect Fire
Grenade Range
Squad Battle Drills
Day/night land navigation
Weapons Squad Live Fire
Squad Operations
Squad Live Fire
Platoon Operations
Platoon Collective Task Training
Urban Operations
Combined Arms Live Fire





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TBI Program

STARS AND STRIPES



Esper on mission to modernize the Army

By Tom Clavin
The Pentagon's top military officer is on a mission to modernize the Army's medical capabilities. Army Chief of Staff Gen. Mark A. Tapes is leading a charge to update the service's medical readiness, a mission he says is critical to the Army's future. Tapes is also leading a charge to update the service's medical readiness, a mission he says is critical to the Army's future.

TACKLING TBI Medics start using BrainScope, a new early detection scanner

By J.P. Lisciani
WASHINGTON — A new device called BrainScope is helping medics detect concussions in the field. The device is a handheld scanner that can be used by medics in the field. It is a handheld scanner that can be used by medics in the field. It is a handheld scanner that can be used by medics in the field.

Open Research Projects



- FY17-18 Focal Areas:**
- Rapid ID of need for evacuation
 - Detection of mild TBI
 - Epidemiology
 - Point of injury triage/monitor
 - Therapeutic strategies

Final Draft Version For Testing Only - Not For Field Use

MACE 2

Military Acute Concussion Evaluation Provider

MACE 2 is to be used as close to time of injury as possible. If the Military Acute Concussion Screen (MACS) findings were positive, start on page 5.

Service Member Name: _____
 DoDMEDIPSSN: _____ Branch of Service & Unit: _____
 Date of Injury: _____ Time of Injury: _____
 Examiner: _____
 Date of Evaluation: _____ Time of Evaluation: _____

RED FLAGS (Provider)
Evaluate for red flags. Red flags indicate need for emergent evaluation/care.

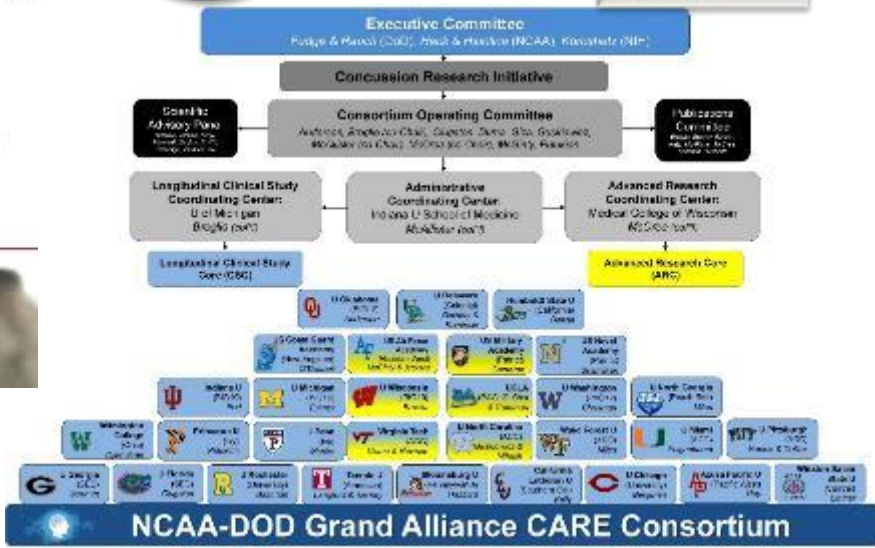
- Witnessed loss of consciousness (LOC)
- Two or more blast exposures within 72 hours
- Unusual behavior/combativeness
- Unusual pupil
- Seizures
- Repeated vomiting
- Double vision
- Worsening headache
- Weakness on one side of the body
- Cannot recognize people or disoriented to place
- Abnormal speech
- Abnormal result from hematoma detection device (if available)
- Negative for all red flags

If ANY red flag is present, stop MACE 2 (Immediate evaluation or evacuation).

Observable Signs
Observe during evaluation. Observable signs indicate concussion may have occurred.

- Lying motionless on the ground
- Slow to get up after a direct or indirect blow to the head
- Disorientation, confusion, or an inability to respond appropriately to questions
- Blank or vacant look
- Balance difficulties, stumbling, or slow labored movements
- Facial injury after head trauma
- Negative for all observable signs

Revised 03/2018 dvbc.dcoe.mil Page 1 of 16





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Army Comprehensive Pain Management Program

SEPTEMBER 2018

NATIONAL PAIN AWARENESS MONTH

Pain is manageable with:

- Exercise
- Physical Therapy
- Mindfulness
- Acupuncture
- Manual Manipulation
- Yoga

Check out your nearest Army Interdisciplinary Pain Management Center or Primary Care Pain Champions to provide state of the art rehabilitative, integrative and interventional pain care.

www.painrelief.army.mil

- **Mission:** Provide a comprehensive, holistic, multimodal, multidisciplinary pain management plan utilizing state of the art science modalities and technologies to advance pain medicine and provide optimal quality of life for patients with acute and chronic pain throughout the continuum of care.
 - Implements non-pharmacologic therapies such as behavioral health/biofeedback, acupuncture, chiropractic, yoga and massage therapy with interventional pain therapies
- **End State:** Return Soldiers to optimum duty in accordance with a Common Operational Picture. Quality care for all beneficiaries with acute and chronic pain. Integration/support to Army Medical Home and Interdisciplinary Pain Management Centers (IPMC) that optimizes pain outcomes by mitigating adverse events and improving quality of life.



PATH TO POWER OVER PAIN

Pain can be managed through proper education and training, realistic goals, and integrating a variety of treatment options.

50 MILLION
 Americans are affected by pain. Pain affects more Americans than diabetes, heart disease and cancer combined.

SELF MANAGEMENT
 YDU are integral to managing pain. Regular movement throughout the day inspires positive health outcomes over time. Remember no single treatment works for everyone. Stretching, tai chi, and yoga are self-care activities that can assist with managing pain.

PRIMARY LEVEL PATIENT CENTER MEDICAL HOME
 Primary Level Patient Center Medical Home Primary Care Managers (PCM) and Primary Care Pain Champions who are experts in pain management work together in the Medical Home to facilitate patients managing pain through education and training related to pain management techniques.

TERTIARY LEVEL SPECIALTY CLINIC
 The Interdisciplinary Pain Management Center provides advanced pain management tailored to meet the needs of high risk patients with PCM referral. Complementary Integrative Medicine may include acupuncture, chiropractic, pain psychology, biofeedback, medical massage, and yoga/movement therapy.

MEDICATION
 Your provider may prescribe appropriate pain medication for a limited duration. Overall chronic opioid use among Army Active Duty Service Members decreased from 11.9% in 2017 to 5.1% in 2017.



36.7 MILLION
 Americans practice yoga. This figure is forecasted to rise to 55 million by 2020.

IN 2017
 The American College of Physicians released updated guidelines that recommend first using non-drug treatments, such as spinal manipulation, for acute and chronic low back pain.

EFFECTIVE PAIN MANAGEMENT
 This begins with you and your provider collaborating and communicating often and openly.

SECONDARY LEVEL MEDICAL NEIGHBORHOOD
 The PCM coordinates with and leverages Interdisciplinary Behavior Health Consultants, Physical Therapists and Clinical Pharmacists within the medical neighborhood and MTF as additional resources for patients managing pain.

STEPPED CARE MODEL FOR PAIN
 This model ensures the right treatment at the right level of care for the complexity of pain while emphasizing opioid safety through the use of non-pharmacologic treatments.

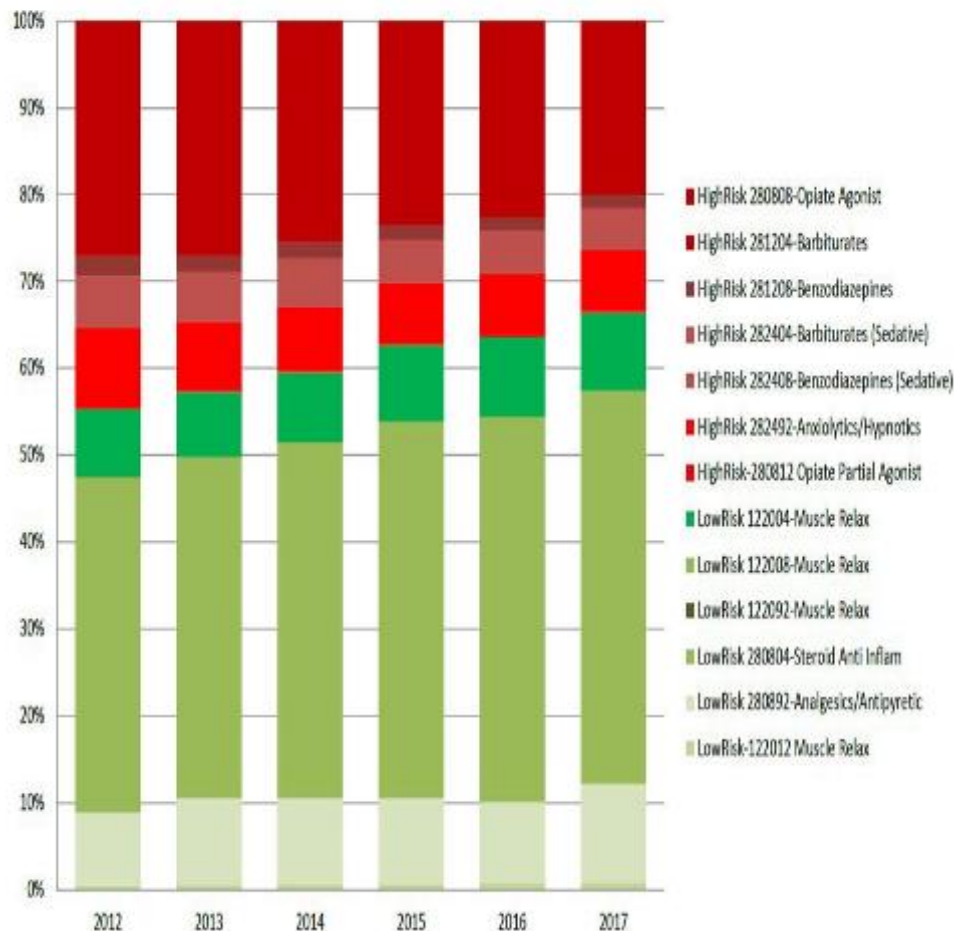


• Functional Restoration Program

- 58% reduction in ED visits
- 27% reduction in PCM visits
- 53% reduction in Ortho, PT, OT, Podiatry visits in direct care
- 38% reduction in BH visits
- 76% reduction in pain clinic visits
- 43% reduction in radiology studies (67% decrease in neck/spine x-ray, 55% decrease in MRI)
- 39% decrease in neurology utilization
- 58% decrease in Case Management (non-WTU/GWOT)

* Data from Fort Carson (Feb 2016, 42 patients); Over 200 graduates to date, pending data analysis.

All Dx: MTF PRIME % OF SCRIPTS WITHIN THE THERAPEUTIC DRUG CLASS LISTED BELOW

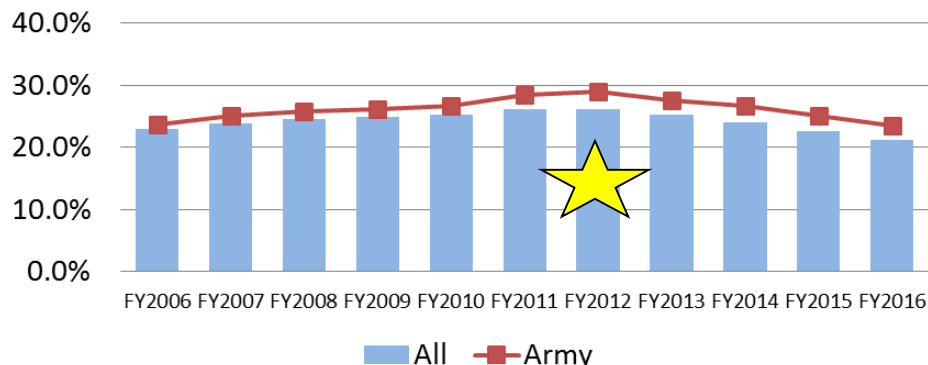


* Data from Fort Carson Advanced Pain Management Course



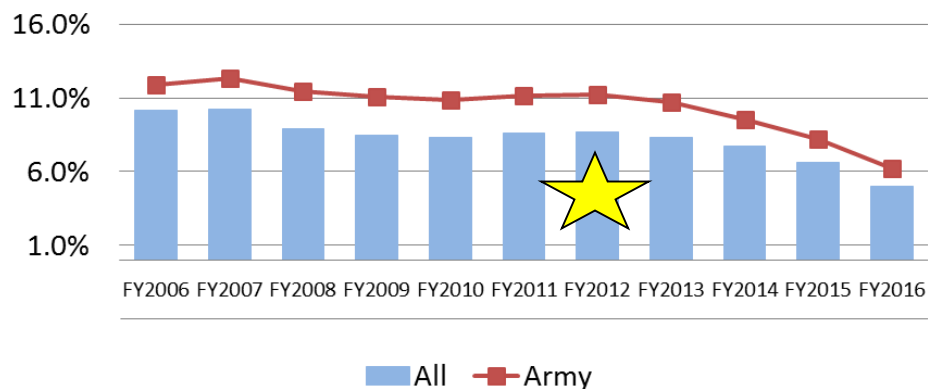
Army Comprehensive Pain Management Program

Opioid Use Among ADSM by Service, FY 2006-2016



- 19% reduction in proportion of the Army population receiving opioid prescriptions between FY2012 and FY2016
- 22% of Army ADSM received ≥ 1 opioid prescription (does not always = use)
- Civilian average prescribing rate for 2016 is 66.5%*

Chronic Opioid Use Among ADSM Opioid User by Service, FY 2006-2016



- 45% reduction in Army ADSM chronic opioid users between FY2012 and FY2016
- Chronic opioid use is defined as ≥ 90 days of opioids dispensed in a 6-month time frame



Army CPMP established FY12



- Readiness is **#1**
- Army Medicine
 - Medical Homes assist in improving and maintaining Soldiers readiness.
 - Behavioral Health incorporates 11 standardized clinical programs into a System of Care, which are centered on Soldier Readiness, reaching Soldiers and Families where they live and work to improve access and reduce stigma.
 - Forward Musculoskeletal care uses holistic approaches that allow fewer limited duty days making Soldiers Mission Ready.
 - Traumatic Brain Injury program integrates clinical practices on the battlefield, in training and in the clinics.
 - Comprehensive Pain program integrates holistic, complementary and integrative therapies impacting readiness.



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after this event!



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Backup Slides



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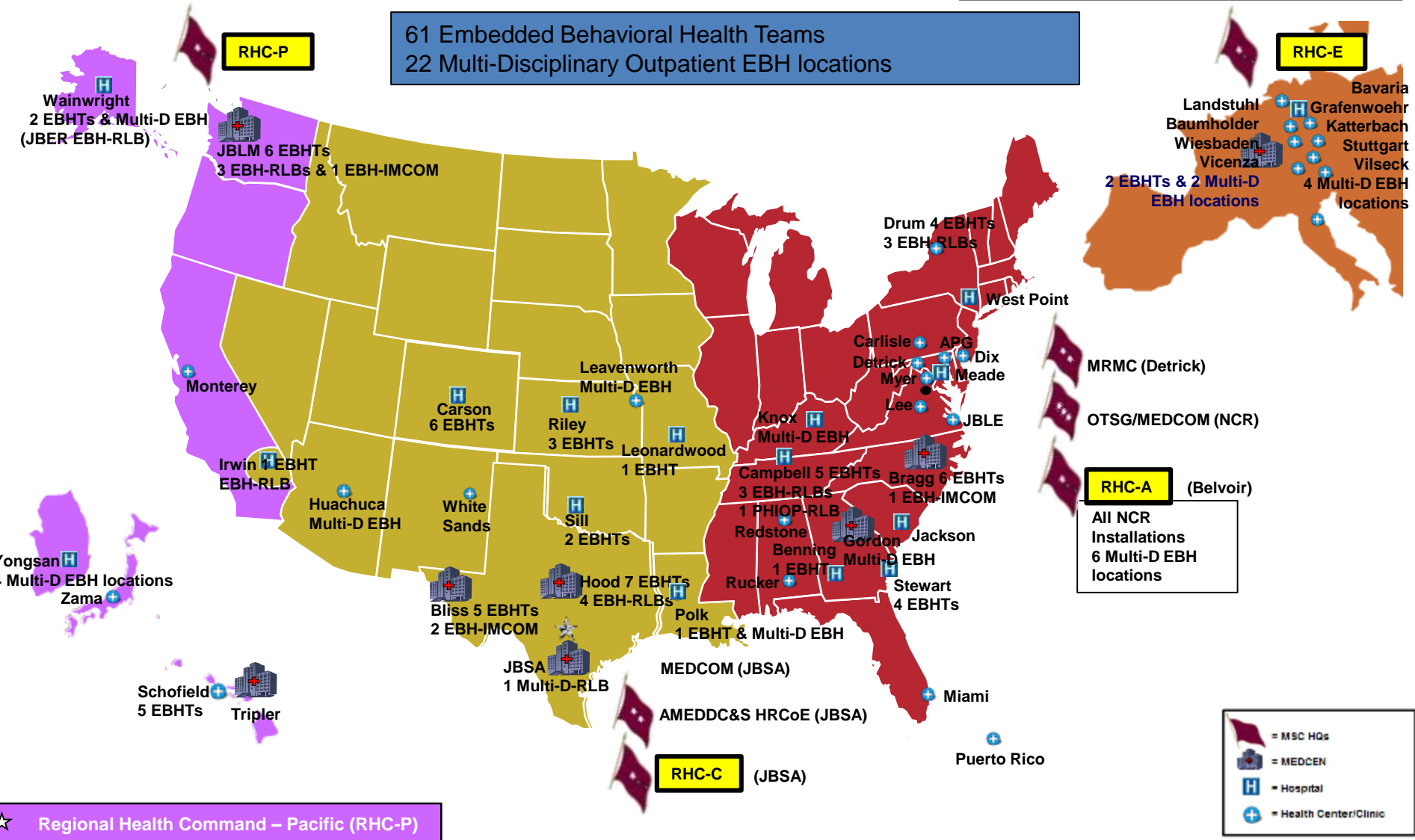
EBH

★ Regional Health Command – Central (RHC-C)

★ Regional Health Command – Atlantic (RHC-A)

★ Regional Health Command – Europe (RHC-E)

61 Embedded Behavioral Health Teams
22 Multi-Disciplinary Outpatient EBH locations



★ Regional Health Command – Pacific (RHC-P)



- Readiness is #1
- Medical Readiness Transformation
- Collaboration between Army Commands
- Readiness focused MSK healthcare delivery
- Screening for at-risk Soldiers
- Physical readiness training



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Screening Tools

MHA (Level 3 Profile) (1) Maternity (2) Remainder of Patient Population (17)

24 Mo Trends	Last Name	First Name	Medical Initial	SSN	DOB	Grade	MHA Risk	ZPM	No. Phases	MSK Injury	Post-Op IHS	Off-Bast Count	Off-Pool Reason	MTE Count	MIL Reason	Tobacco Use	Optical Exam Status	Med Supply Status	Immun. On Profile
View	RITTI	DAVE		000000001	1-4	ASG-MC	Red	25.60	Yes	111111	5	Arthroscopic	41	Surgical	NO	NO	303	37	141
View	GRETZKY	WAYNE		000000006	E-7	ASG-MC	Red	21.60	Yes	211111	1	Sleep	92	Behavioral	YES	0	0	190	
View	MAYS	WILLIE		000000007	E-4	ASG-MC	Red	25.60	Yes	111111	4	Surgical	15	Musculoskeletal	YES	0	0	137	
View	DER	BOBBY		000000004	E-5	ASG-MC	Red	24.31	Yes	111111	0	No Data	14	Behavioral	YES	20	0	109	
View	HICHSPL	JIM		000000003	E-5	ASG-MC	Red	25.42	Yes	111111	3	General	43	Behavioral	NO	5	0	124	
View	GARF	DAH		000000005	F-1	ASG-MC	Red	31.00	Yes	111111	0	No Data	29	Musculoskeletal	YES	0	0	106	
View	BROWN	JIM		000000002	O-3	ASG-MC	Red	25.11	No	111111	5	General	15	Behavioral	YES	0	0	250	
View	LINGS	CARL		000000005	O-1	ASG-MC	Red	32.40	Yes	211111	0	No Data	12	General	NO	0	0	130	
View	MILLER	CHERYL		000000010	E-5	ASG-MC	Amber	25.60	No	112111	0	No Data	1	General	NO	20	0	157	
View	ROBINSON	JACOB		000000011	O-2	ASG-MC	Amber	27.52	Yes	111111	0	No Data	5	Musculoskeletal	NO	0	0	46	
View	CONARDEL	HADIA		000000014	E-4	ASG-MC	Green	25.20	Yes	111111	0	No Data	22	Musculoskeletal	NO	3	0	30	
View	WILLIAMS	ILD		000000013	E-5	ASG-MC	Green	24.40	Yes	111111	0	No Data	5	Musculoskeletal	NO	6	30	133	
View	CHAMBERLAIN	WELT		000000012	F-1	ASG-MC	Green	25.91	Yes	111111	0	No Data	7	General	NO	0	0	123	
View	ROBINSON	JAY		000000006	E-5	ASG-MC	Green	29.00	No	111111	0	No Data	13	Behavioral	NO	9	7	29	
View	IBETAS	JOHNNY		000000017	F-1	ASG-MC	Green	28.10	No	111111	0	No Data	1	General	NO	0	0	0	
View	ALI	MUHAMMAD		000000016	E-4	ASG-MC	Green	25.00	No	111111	0	No Data	1	General	NO	0	0	0	
View	JORDAN	MICHAEL		000000015	F-5	ASG-MC	Green	25.50	No	111111	0	No Data	1	General	NO	0	0	28	

← Medical Readiness Assessment Tool

MOTION



Preoperative Resilience Predicts Postoperative RTD and Outcome Scores for Arthroscopic Bankart Repair (Shaha, et al.)

