

# NITEESH K. CHOUDHRY

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## Academic Appointments

### HARVARD MEDICAL SCHOOL, BOSTON

*Professor of Medicine*

*Associate Director, Postgraduate Education and Director, Implementation Research and Education, Harvard Catalyst*

### HARVARD T.H. CHAN SCHOOL OF PUBLIC HEALTH, BOSTON

*Professor in the Department of Health Policy and Management*

### BRIGHAM AND WOMEN'S HOSPITAL, DEPARTMENT OF MEDICINE, BOSTON

*Executive Director, Center for Healthcare Delivery Sciences*

*Associate Physician, Division of Pharmacoepidemiology and Pharmacoeconomics*

*Attending Physician, Hospitalist Program*

## Education and Training

### HARVARD UNIVERSITY

*Doctor of Philosophy (PhD), Health Care Policy (Concentration: Statistics and Evaluative Sciences)*

2000-2005

### HARVARD MEDICAL SCHOOL

*Fellow in Pharmaceutical Policy Research*

2003-2005

### TORONTO GENERAL AND TORONTO WESTERN HOSPITALS, UNIVERSITY OF TORONTO

*Chief Resident and Resident in Internal Medicine*

1996-2000

### UNIVERSITY OF TORONTO, FACULTY OF MEDICINE

*Doctor of Medicine (MD), Graduated with honors*

1992-1996

## Awards (selected)

George W. Thorn Award, Department of Medicine, Brigham and Women's Hospital	2015
Distinguished Faculty Mentor Award, Department of Medicine, Brigham and Women's Hospital	2008, 2014
Award for Research Excellence, International Society for Pharmacoeconomics and Outcomes Research	2012
National Institutes of Health Care Management Research Award 2 <sup>nd</sup> prize	2012
Best Abstract Award, AcademyHealth	2012, 2013
Outstanding Clinical Teacher Award Honor Role, Partners Healthcare	2011
Jean Jackson Distinguished Beside Teacher Award, Department of Medicine, Brigham and Women's Hospital	2010
Excellence in Teaching Award, Hospitalist Program, Department of Medicine, Brigham and Women's Hospital	2006
Mack Lipkin Sr. Research Award, Society of General Internal Medicine	2005
Harvard Medical School Pharmaceutical Policy Research Fellowship	2003-2005
Frank Knox Memorial Fellowship, Harvard University	2000-2004
New Faculty Excellence in Teaching Award, University Health Network, University of Toronto	2002
K.J.R. Wightman Award for Research, Royal College of Physicians and Surgeons of Canada	2000

## Publications (selected from >250)

- **Choudhry NK**, Fischer MA, Avorn J, Schneeweiss S, Solomon DH, Berman C, Jan S, Liu J, Lii J, Brookhart AM, Mahoney J, Shrank WH. At Pitney Bowes, value-based insurance design cut copayments and increased drug adherence. *Health Affairs* 2010; 29: 1995-2001.
- **Choudhry NK**, Shrank WH. Four-dollar generics - increased accessibility, impaired quality assurance. *New England Journal of Medicine* 2010; 363: 1885-1887.
- Shrank WH, **Choudhry NK**. Time to fill the doughnuts: health care reform and Medicare Part D. *New England Journal of Medicine* 2011; 364: 598-601.
- **Choudhry NK**, Avorn J, Glynn RJ, Antman EM, Schneeweiss S, Toscano M, Reisman L, Fernandes J, Spettell C, Lee JL, Levin R, Brennan T, Shrank WH. Full coverage for preventive medications after myocardial infarction. *New England Journal of Medicine* 2011; 365: 2088-2097.

- Franklin JM, Shrank WH, Pakes J, Sanf elix-Gimeno G, Matlin OS, Brennan TA, **Choudhry NK**. Group-based trajectory models: A new approach to classifying and predicting long-term medication adherence. *Medical Care* 2013; 51: 789-96.
- **Choudhry NK**, Bykov K, Shrank WH, Toscano M, Rawlins W, Reisman L, Brennan T, Franklin JM. The impact of eliminating medication copayments on disparities in cardiovascular care. *Health Affairs* 2014; 33: 863-870.
- Sanf elix-Gimeno G, Franklin JM, Shrank WH, Carlo M, Tong AY, Reisman L, Matlin OS, Brennan TA, **Choudhry NK**. Did HEDIS get it right? Evaluating the quality of a quality measure: adherence to beta-blockers and cardiovascular outcomes after myocardial infarction. *Medical Care* 2014; 52: 669-76.
- Kesselheim AS, Bykov K, Tong A, Doherty M, Avorn J, **Choudhry NK**. Burden of pill appearance changes for patients taking generic cardiovascular medications after myocardial infarction. *Annals of Internal Medicine* 2014; 161: 96-103.
- **Choudhry NK**, Denberg TD, Qaseem A. Improved adherence to therapy and clinical outcomes while containing costs: opportunities from the greater use of generic medications: Best Practice Advice from the Clinical Guidelines Committee of the American College of Physicians; *Annals of Internal Medicine* 2016; 164: 41-9.
- Franklin JM, Shrank WH, L i J, Krumme AK, Matlin OS, Brennan TA, **Choudhry NK**. Observing versus Predicting: Initial Patterns of Filling Predict Long-Term Adherence More Accurately Than High-Dimensional Modeling Techniques. *Health Services Research*. 2016; 51: 220-39.
- Lauffenburger JC, Franklin JM, Krumme AA, Shrank WH, Brennan TA, Matlin OS Spettell CM, Brill G, **Choudhry NK**. Longitudinal patterns of spending enhance the ability to predict costly patients: a dynamic approach to identify patients for cost containment. *Medical Care* 2017; 55: 64-73.
- Lauffenburger JC, Shrank WH, Bitton A, Franklin JM, Glynn RJ, Krumme AA, Matlin OS, Pezalla EJ, Spettell CM, Brill G, **Choudhry NK**. Association between patient-centered medical homes and adherence to chronic medications: a cohort study. *Annals of Internal Medicine* 2017; 166: 81-88.
- **Choudhry NK**, Krumme AA, Ercole PM, Girdish C, Tong A, Khan N, Brennan TA, Matlin OS, Shrank WH, Franklin JM. Reminder devices to increase evidence-based medication use: The Randomized Evaluation to Measure Improves in Non-adherence from Low-Cost Devices (REMIND) trial. *JAMA Internal Medicine*; 2017; 177: 624-631
- **Choudhry NK**. Randomized controlled trials in health insurance systems. *New England Journal of Medicine* 2017; 377: 957-964.
- Sarpatwari A, **Choudhry NK**. Recalibrating Privacy Protections to Promote Patient Engagement. *New England Journal of Medicine* 2017; 377: 1509-1511.
- **Choudhry NK**, Isaac T, Lauffenburger JC, Gopalakrishnan C, Lee M, Vachon A, Iliadis TL, Hollands W, Elman S, Kraft JM, Naseem S, Doheny S, Lee J, Barberio J, Patel L, Khan NF, Gagne JJ, Jackevicius CA, Fischer MA, Solomon DH, Sequist TD. Effect of a remotely-delivered tailored multicomponent approach to enhance medication-taking for patients with cardiometabolic conditions: The STIC2IT cluster randomized clinical trial. *JAMA Internal Medicine* 2018; 178: 1174-1181. doi:10.1001/jamainternmed.2018.3189.
- Morawski K, Ghazinouri R, Krumme A, Lauffenburger JC, Lu Z, Durfee E, Oley L, Lee J, Mohta N, Haff N, Juusola JL, **Choudhry NK**. Effect of a smartphone application on medication adherence and blood pressure control: The MedISAFE-BP randomized clinical trial. *JAMA Internal Medicine* 2018; 178: 802-809. doi:10.1001/jamainternmed.2018.0447
- Yokum D, Lauffenburger J, Ghazinouri R, **Choudhry NK**. Letters designed with behavioral science increase influenza vaccination in Medicare beneficiaries. *Nature Human Behaviour* 2018; 2: 743-749.
- Lauffenburger JC, Lewey J, Jan S, Makanji S, Ferro CA, Krumme AA, Lee J, Ghazinouri R, Haff N, **Choudhry NK**. Effect of Targeted Insulin Adherence Interventions for Glycemic Control With Predictive Analytics Among Patients With Type 2 Diabetes: The TARGIT-Diabetes Randomized Clinical Trial. *JAMA Network Open* 2019; 2(3):e190657.

### Invited Presentations (selected)

Institute of Medicine of the National Academy of Sciences • University of Toronto • University of Pennsylvania • Harvard Medical School Department of Population Medicine • Brown University, Program of Public Health • American Heart Association • Million Hearts Initiative • Agency for Healthcare Quality and Research • Robert Wood Johnson Foundation • Stanford University • University of Pittsburgh • Howard University • Boston University • Center for Disease Control and Prevention • U.S. White House Office of Science and Technology Policy • MIT • U.S. Food and Drug Administration • University of North Carolina • New England Journal Catalyst • Microsoft Research Labs • Massachusetts Medical Society • Boston University • Boston University • American Diabetes Association • McGill University

### Research Funding (selected)

National Institutes of Health • National Institutes of Aging • National Heart, Lung and Blood Institute • CVS Health • Pharmaceutical Research and Manufacturers of America (PhRMA) Foundation • Medisafe • Sanofi • Astra Zeneca • John and Laura Arnold Foundation • Commonwealth Fund • Agency for Health Research and Quality • Food and Drug Administration • Robert Wood Johnson Foundation • Aetna • National Institute of Diabetes and Digestive and Kidney Diseases