

## CURRICULUM VITAE

**Date of Revision:** August 9, 2017  
**Name:** Kumar Dharmarajan, M.D., M.B.A.  
**Proposed Appointment to:** Assistant Professor Adjunct  
**School:** Yale University School of Medicine

### **Education:**

A.B. Harvard College (Social Studies), 06/2001  
Certificate (Minor) Harvard College (Health Policy), 06/2001  
M.D. Columbia College of Physicians and Surgeons, 05/2006  
M.B.A. Columbia Business School, 05/2006

### **Career/Academic Appointments:**

07/2006 - 06/2007 Intern, Internal Medicine, Massachusetts General Hospital, Boston, M.A.  
07/2007 - 06/2009 Resident, Internal Medicine, Massachusetts General Hospital, Boston, M.A.  
07/2009 - 06/2010 Clinical Fellow, Geriatric Medicine, Massachusetts General Hospital, Boston, M.A.  
07/2010 - 06/2014 Clinical Fellow, Cardiovascular Medicine, Columbia University Medical Center, New York, N.Y.  
07/2011 - 06/2013 Visiting Scholar, Yale-New Haven Hospital Center for Outcomes Research and Evaluation, New Haven, C.T.  
07/2013 - 06/2014 Chief Fellow, Cardiovascular Medicine, Columbia University Medical Center, New York, N.Y.  
07/2014 - 06/2017 Assistant Professor of Medicine (Cardiology), Yale University School of Medicine, New Haven, C.T.  
07/2017 - present Chief Scientific Officer, Clover Health, Jersey City, N.J.

### **Board Certification:**

American Board of Internal Medicine, Certification in Internal Medicine, 2009 - 2019  
American Board of Internal Medicine, Certification in Geriatric Medicine, 2010 - 2020  
American Board of Internal Medicine, Certification in Cardiovascular Medicine, 2014 - 2024  
National Board of Echocardiography, Comprehensive Certification in Adult Echocardiography, 2013 - 2023  
Certification Board of Nuclear Cardiology, Certification in Nuclear Cardiology, 2014 - 2024

### **Professional Honors & Recognition:**

#### *National:*

2016 Samuel A. Levine Young Clinical Investigator Award Finalist, American Heart Association Annual Meeting, New Orleans, L.A.  
2013 Young Investigator Award Finalist, American Heart Association Quality of Care and Outcomes Research Meeting, Baltimore, M.D.  
2012 Best Poster, Quality of Care and Outcomes Research Pathway, American College of

2012 Cardiology Annual Meeting, Chicago, I.L.  
Elite Fellow-in-Training “Rising Star” Award, American College of Cardiology  
2001 Finalist for Rhodes Scholarship

**Local:**

2006 Alpha Omega Alpha, Columbia College of Physicians and Surgeons, New York, N.Y.  
2006 Beta Gamma Sigma, Columbia Business School, New York, N.Y.  
2001 Phi Beta Kappa, Harvard College, Cambridge, M.A.  
1998 - 2000 John Harvard Scholarship, Harvard College, Cambridge, M.A.  
1998 Detur book prize, Harvard College, Cambridge, M.A.

**Grant/Clinical Trials History:**

**Past Grants:**

Funder: Robert E. Leet and Clara Guthrie Patterson Trust  
I.D.# Robert E. Leet and Clara Guthrie Patterson Trust Mentored Clinical Research Award  
Title: “Recovery After Cardiopulmonary Hospitalization: The REACH Study”  
P.I.: Kumar Dharmarajan, M.D., M.B.A.  
Percent effort: 0% (no salary drawn)  
Direct costs per year: \$45,000  
Total costs for project period: \$45,000  
Project period: 01/15/2017 - 06/30/2017

Agency: N.I.H./N.I.A./American Federation for Aging Research  
I.D.# K23AG048331 (Paul B. Beeson Patient-Oriented Research Career Development Award in Aging [K23])  
Title: “Geriatric Conditions and Readmission after Acute Myocardial Infarction”  
P.I.: Kumar Dharmarajan, M.D., M.B.A.  
Percent effort: 75%  
Direct costs per year: \$160,000  
Total costs for project period: \$518,400  
Project period: 09/01/2014 - 06/30/2017

Agency: N.I.A.  
I.D.# P30AG21342 (Yale Claude D. Pepper Older Americans Independence Center)  
Title: “Recovery After Heart Failure Hospitalization (REACH)”  
P.I.: Thomas M. Gill, M.D.  
Percent effort: 0% (no salary drawn)  
Direct costs per year: \$5,000  
Total costs for project period: \$5,000  
Project period: 03/01/2016 - 02/28/2017

Funder: Yale University School of Medicine Geriatrics Section  
I.D.# Internal award  
Title: “Work Involved in Staying Healthy (WISH): Treatment Burden After Hospitalization for Heart Failure”

P.I.: Kumar Dharmarajan, M.D., M.B.A.  
Percent effort: 0% (no salary drawn)  
Direct costs per year: \$25,000  
Total costs for project period: \$25,000  
Project period: 10/01/2015 - 09/30/2016

Agency: American Federation for Aging Research  
I.D.# John A. Hartford Foundation Center of Excellence Career Development Award through Yale University  
Title: "Postdoctoral Training in Geriatrics Research"  
P.I.: Mary E. Tinetti, M.D.  
Percent effort: 100%  
Direct costs per year: ~\$25,000  
Total costs for project period: ~\$25,000  
Project period: 07/01/2012 - 06/30/2013

Agency: N.I.H/N.H.L.B.I  
I.D.# T32 HL007854  
Title: "Postdoctoral Training in Cardiovascular Disease"  
P.I.: Mark A. Hardy, M.D. and Steven O. Marx, M.D.  
Percent effort: 100%  
Direct costs per year: ~\$50,000  
Total costs for project period: ~\$100,000  
Project period: 07/01/2011 - 06/30/2013

**Invited Speaking Engagements, Presentations, Symposia & Workshops Not Affiliated With Yale:**

***International/National:***

- 2017: American College of Cardiology Annual Meeting, Washington, D.C.: "Heart failure in the elderly: perspectives of a geriatrician."
- 2016: American College of Cardiology Annual Meeting, Chicago, I.L.: "Integrating geriatrics principles in the care of heart failure: supporting patients and minimizing harm."
- 2016: American College of Cardiology Annual Meeting, Chicago, I.L.: "Is heart failure with preserved ejection fraction as common as we think? Yes and no: a matter of perspective."
- 2016: American College of Cardiology Annual Meeting, Chicago, I.L.: "Aim higher for blood pressure targets in older adults."
- 2015: American Heart Association Annual Meeting, Orlando, F.L.: "Big data for readmission prevention in heart failure."
- 2015: American Geriatrics Society Annual Meeting, Washington, D.C.: "Care of the complex older patient with heart failure and preserved ejection fraction: insights from a cardiologist."

2014: American College of Cardiology Cardiovascular Summit, Las Vegas, N.V.: “Reducing readmissions in the elderly: what can we learn from national Medicare data?”

2014: American College of Cardiology webinar “Strategies for reducing readmissions in older patients with cardiovascular disease.”

***Regional:***

2014: Tennessee Hospital Association HEN (Hospital Engagement Network) webinar “Reducing readmissions in the elderly: what can we learn from national Medicare data?”

2014: American College of Cardiology/Columbia University Medical Center Championing Care for Patients with Aortic Stenosis, New York, N.Y.: “Aortic stenosis in 2014: introduction and rationale for the A.C.C. championing care initiative”

2014: American College of Cardiology/Columbia University Medical Center Championing Care for Patients with Aortic Stenosis, New York, N.Y.: “Shared decision-making in advanced aortic stenosis”

***Local:***

2017: Department of Population Health Seminar, New York University School of Medicine, New York, N.Y.: “Vulnerability after cardiac hospitalizations: challenges and opportunities.”

2017: Palliative Care and Geriatrics Grand Rounds, Massachusetts General Hospital, Boston, M.A.: “Vulnerability after cardiac hospitalizations: challenges and opportunities.”

2016: New York State Chapter of the American College of Cardiology Annual Research Meeting, New York, N.Y.: “Reducing cardiovascular readmissions: call on your inner geriatrician.”

2016: Cardiology Grand Rounds, Lincoln Medical and Mental Health Center, Bronx, N.Y.: “Reducing readmissions in the elderly: what can we learn from national Medicare data?”

2014: Cardiology Grand Rounds, Columbia University Medical Center, New York, N.Y.: “Reducing readmissions in the elderly: what can we learn from national Medicare data?”

2013: Internal Medicine Grand Rounds, Columbia University Medical Center, New York, N.Y.: “Hospital readmission performance and patterns of rehospitalization”

2013: Center for Quality of Care Research Grand Rounds, Bay State Medical Center, Springfield, M.A.: “Patterns and trajectories of risk after hospitalization”

**Peer-Reviewed Presentations & Symposia Given at Meetings Not Affiliated with Yale:**

***International/National:***

2017: American Heart Association Quality of Care and Outcomes Research Meeting, Washington, D.C.: “The relationship of changing hospital readmission and mortality rates after hospitalization for heart failure, acute myocardial infarction, or pneumonia” (poster presentation)

- 2016: American Heart Association Annual Meeting, New Orleans, L.A.: “Differences in hospital risk-standardized mortality rates for acute myocardial infarction by patient age group: implications for hospital outcome profiling” (oral presentation)
- 2016: American Heart Association Annual Meeting, New Orleans, L.A.: “Differences in hospital risk-standardized mortality rates for percutaneous coronary intervention by patient age group: implications for hospital outcome profiling” (poster presentation)
- 2016: Academy Health Annual Research Meeting, Boston, M.A.: “The relationship of declining hospital admission rates with readmission rates across communities” (poster presentation)
- 2015: American Heart Association Annual Meeting, Orlando, F.L.: “The medically managed patient with severe symptomatic aortic stenosis in the TAVR era: patient characteristics and reasons for medical management” (poster presentation)
- 2013: American Heart Association Quality of Care and Outcomes Research Meeting, Baltimore, M.D.: “Time-dependent trajectories of risk after hospitalization for heart failure and acute myocardial infarction” (oral presentation)
- 2013: American Heart Association Quality of Care and Outcomes Research Meeting, Baltimore, M.D.: “Acute decompensated heart failure, pneumonia, and exacerbated chronic obstructive pulmonary disease are all routinely treated as cardiopulmonary syndromes” (poster presentation)
- 2013: American College of Cardiology Annual Meeting, San Francisco, C.A.: “Discharge to a skilled nursing facility is associated with high mortality in all 50 states following hospitalization for heart failure or acute myocardial infarction” (poster presentation)
- 2012: American Heart Association Quality of Care and Outcomes Research Meeting, Atlanta, G.A.: “Complex patients: the majority hospitalized with heart failure also receive treatment for acute respiratory conditions” (poster presentation)
- 2012: American Heart Association Quality of Care and Outcomes Research Meeting, Atlanta, G.A.: “Common diagnostic tests do not guide treatment for acute respiratory conditions in patients hospitalized with heart failure” (poster presentation)
- 2012: American Heart Association Quality of Care and Outcomes Research Meeting, Atlanta, G.A.: “The timing of 30-day readmissions after hospitalization for heart failure and acute myocardial infarction” (poster presentation)
- 2012: American College of Cardiology Annual Meeting, Chicago, I.L.: “Hospital performance is not associated with the timing or causes of 30-day readmission after hospitalization for heart failure or acute myocardial infarction” (poster presentation)
- 2011: Heart Failure Society of America Annual Meeting, Boston, M.A., “Genotypic and phenotypic characteristics of persons with cardiac amyloidosis from the multinational Transthyretin

Amyloidosis Outcomes Survey (THAOS) registry” (oral presentation)

**Invited Speaking Engagements, Presentations, Symposia & Workshops Affiliated With Yale:**

- 2017: Brown Bag Research Series, Yale-New Haven Hospital Center for Outcomes Research and Evaluation, New Haven, C.T.: “Clinical side of quality measure implementation”
- 2016: Geriatrics Grand Rounds, Yale Program on Aging, Yale University School of Medicine, New Haven, C.T.: “Short-term recovery after hospitalization: pivoting to health status”
- 2016: Medicine Grand Rounds, Waterbury Hospital, Waterbury, C.T.: “Reducing readmissions: challenges and insights from national Medicare data”
- 2015: Brown Bag Research Series, Yale-New Haven Hospital Center for Outcomes Research and Evaluation, New Haven, C.T.: “Yale-CORE measure development for the state of Maryland”
- 2015: Medicine Grand Rounds, Greenwich Hospital, Norwalk, C.T.: “Reducing readmissions: challenges and insights from national Medicare data”
- 2015: Medicine Noon Conference, Norwalk Hospital, Norwalk, C.T.: “Reducing readmissions: challenges and insights from national Medicare data”
- 2015: Cardiology Conference, Norwalk Hospital, Norwalk, C.T.: “Reducing readmissions: challenges and insights from national Medicare data”
- 2015: Brown Bag Research Series, Yale-New Haven Hospital Center for Outcomes Research and Evaluation, New Haven, C.T.: “Reducing cardiovascular readmissions in the elderly: what can we learn from national Medicare data?”
- 2014: Aging Research Seminar, Yale Program on Aging, Yale University School of Medicine, New Haven, C.T.: “Reducing cardiovascular readmissions in the elderly: what can we learn from national Medicare data?”

**Professional Service:**

***Peer Review Groups/Grant Study Sections:***

- 2016 - 2017 Grant Study Section Member, American Heart Association Behavioral (Population) and Outcomes (Population) Peer Review Committee
- 2012 - 2013 Peer Reviewer, American Heart Association Scientific Statement on Heart Failure Management in Skilled Nursing Facilities

***Advisory Board:***

- 2015 - 2017 Scientific Advisory Board Member, Clover Health.

***Journal Service:***

Editorial

2017 Academic Editor, *PLoS Medicine*  
2015 - 2017 Section Editor, Elderly and Heart Disease, *Current Cardiovascular Risk Reports*  
2013 - 2014 United States Board of *B.M.J.* Fellows, *B.M.J.*  
2012 - 2013 Section Editor, *Circulation: Cardiovascular Quality and Outcomes*

Reviewer

2012 - present *New England Journal of Medicine, J.A.M.A., J.A.M.A.: Internal Medicine, J.A.M.A.: Cardiology, Annals of Internal Medicine, Circulation, Journal of the American College of Cardiology (J.A.C.C.), Circulation: Cardiovascular Quality and Outcomes, B.M.J., B.M.J. Open, American Heart Journal, American Journal of Medicine, Health Affairs, Health Services Research, B.M.C. Health Services Research, Journal of Hospital Medicine, PLoS Medicine, PLoS One, Journal of the American Geriatrics Society, Health Care: The Journal of Delivery Science and Innovation, Annals of the American Thoracic Society*

***Professional Service for Professional/Government Organizations:***

**American College of Cardiology**

2014 - 2017 Clinical Lead, Yale Data Analytic Center, National Cardiovascular Data Registry  
2012 - 2014 Fellow Liaison, Championing Care Initiative for Patients with Aortic Stenosis

**American Geriatrics Society**

2017 Abstract Reviewer, 2017 Annual Scientific Meeting  
2016 Abstract Reviewer, 2016 Annual Scientific Meeting

**American Heart Association**

2017 Abstract Reviewer and Abstract Session Builder, 2017 Scientific Sessions  
2016 Abstract Reviewer and Abstract Session Builder, 2016 Scientific Sessions

**Centers for Medicare & Medicaid Services (C.M.S.)**

2014 - 2017 Quality Measure Lead for Maryland All-Payer Programs, Yale New Haven Health Services Corporation/Center for Outcomes Research and Evaluation (Y.N.H.H.S.C./C.O.R.E.)  
2016 - 2017 Clinical Consultant for CMS Hospital-wide Mortality Quality Measure, Yale New Haven Health Services Corporation/Center for Outcomes Research and Evaluation (Y.N.H.H.S.C./C.O.R.E.)

**Greater New York Geriatric Cardiology Consortium**

2015 - present Member, Board of Directors

**Medical Society of the State of New York (M.S.S.N.Y)**

2005 - 2006 Member, Task Force on Quality of Care  
2002 - 2004 Member, Physician Governing Council  
2002 - 2004 Member, Executive Committee of the M.S.S.N.Y Political Action Committee

**Meeting Planning/Participation**

- 2017 Invitee, American College of Cardiology/American Geriatrics Society/National Institute on Aging Workshop on Pharmacotherapy in Older Adults with Cardiovascular Disease, Washington, D.C.
- 2017 Program Committee Member, Paul B. Beeson Patient-Oriented Research Career Development Award in Aging Annual Meeting, Bernalillo, N.M.
- 2016 - present Program Committee Member, Specialty Conference Program Committee of the Council on Quality of Care and Outcomes Research
- 2016 Invitee, National Institute on Aging/John A. Hartford Foundation Workshop on Pathways, Contributors and Correlates of Functional Impairment across Specialties, Washington, D.C.
- 2015 Invitee, American College of Cardiology/American Geriatrics Society/National Institute on Aging Workshop on Multimorbidity in Older Adults with Cardiovascular Disease, Washington, D.C.
- 2014 Co-chair, American College of Cardiology/Columbia University Medical Center Symposium on Championing Care for Patients with Aortic Stenosis, New York, N.Y.

***National Committees:***

- 2016 - present Standing Cardiovascular Committee, National Quality Form
- 2016 Technical expert panel, Centers for Medicare & Medicaid Services Bundled Payments for Care Improvement (B.P.C.I.) in Coronary Artery Bypass Graft (C.A.B.G.) Surgery
- 2016 Technical expert panel, Centers for Medicare & Medicaid Services Bundled Payments for Care Improvement (B.P.C.I.) in Heart Failure
- 2015 Technical expert panel, Optum Labs Heart Failure Constellation Project
- 2014 - 2107 Dissemination workgroup, Pepper Center (O.A.I.C.)/H.M.O. Research Network to Advance Geriatrics Infrastructure & Network Growth (R24 AG0445050)

***Yale University Service:***

**Hospital Boards & Committees**

- 2015 - 2017 Yale-New Haven Hospital Congestive Heart Failure Steering Committee

**Bibliography:**

**Peer-Reviewed Original Research**

1. Bodine S.C., Latres E., Baumhueter S., Lai V.K., Nunez L., Clarke B.A., Poueymirou W.T., Panaro F.J., Na E., **Dharmarajan K.**, Pan Z.Q., Valenzuela D.M., DeChiara T.M., Stitt T.N., Yancopoulos G.D., and Glass D.J. Identification of ubiquitin ligases required for skeletal muscle atrophy. *Science*. 2001 Nov 23;294(5547):1704-8. PMID: 11679633.
2. Chen S.I., **Dharmarajan K.**, Kim N., Strait K.M., Li S.X., Safavi K.C., Lindenauer P.K., Krumholz H.M., and Lagu T. Procedure intensity and the cost of care. *Circ. Cardiovasc. Qual. Outcomes*. 2012 May;5(3):308-13. PMID: 22576844.
3. **Dharmarajan K.**, Hsieh A.F., Lin Z., Bueno H., Ross J.S., Horwitz L.I., Barreto-Filho J.A., Kim N., Bernheim S.M., Suter L.G., Drye E.E., Krumholz H.M. Diagnoses and timing of 30-day readmissions after hospitalization for heart failure, acute myocardial infarction, or pneumonia. *JAMA*. 2013 Jan 23;309(4):355-63. PMID: 23340637.



4. Safavi K.C., **Dharmarajan K.**, Kim N., Strait K.M., Li S.X., Chen S.I., Lagu T., Krumholz H.M. Variation exists in rates of admission to intensive care units for heart failure patients across hospitals in the United States. *Circulation*. 2013 Feb 26;127(8):923-9. PMID: 23355624.
5. Chen J., **Dharmarajan K.**, Wang Y., Krumholz H.M. National trends in heart failure hospital stay rates, 2001 to 2009. *J. Am. Coll. Cardiol.* 2013 Mar 12;61(10):1078-88. PMID: 23473413.
6. Bikdeli B., Strait K.M., **Dharmarajan K.**, Partovian C., Coca S.G., Kim N., Li S.X., Testani J.M., Khan U., Krumholz H.M. Dominance of furosemide for loop diuretic therapy in heart failure: time to revisit the alternatives? *J. Am. Coll. Cardiol.* 2013 Apr 9;61(14):1549-50. PMID: 23500272.
7. Lagu T., Krumholz H.M., **Dharmarajan K.**, Partovian C., Kim N., Mody P.S., Li S.X., Strait K.M., Lindenauer P.K. Spending more, doing more, or both? An alternative method for quantifying utilization during hospitalizations. *J. Hosp. Med.* 2013 Jul;8(7):373-9. PMID: 23757115.
8. **Dharmarajan K.**, Masoudi F.A., Spertus J.A., Li S.X., Krumholz H.M. Contraindicated initiation of beta blocker therapy in patients hospitalized for heart failure. *J.A.M.A. Intern. Med.* 2013 Sep 9;173(16):1547-9. PMID: 23797379.
9. **Dharmarajan K.**, Strait K.M., Lagu T., Lindenauer P.K., Tinetti M.E., Lynn J., Li S.X., Krumholz H.M. Acute decompensated heart failure is routinely treated as a cardiopulmonary syndrome. *PLoS One*. 8(10): e78222. PMID: 24250751.
10. **Dharmarajan K.**, Hsieh A.F., Lin Z., Bueno H., Ross J.S., Horwitz L.I., Barreto-Filho J.A., Kim N., Suter L.G., Bernheim S.M., Drye E.E., Krumholz H.M. Hospital readmission performance and patterns of rehospitalization: a retrospective cohort study of Medicare hospitalizations. *B.M.J.* 2013 Nov 20;347:f6571. PMID: 24259033.
11. **Dharmarajan K.**, Jing L., Xi L., Lin Z., Krumholz H.M., Jiang L.; for the China PEACE Collaborative Group. The China PEACE (patient-centered evaluative assessment of cardiac events) retrospective study of acute myocardial infarction: study design. *Circ. Cardiovasc. Qual. Outcomes*. 2013 Nov;6(6):732-40. PMID: 24221838.
12. Chen J., Hsieh A.F., **Dharmarajan K.**, Masoudi F.A., Krumholz H.M. National trends in heart failure hospitalization after acute myocardial infarction for Medicare beneficiaries: 1998-2010. *Circulation*. 2013 Dec 17;128(24):2577-84. PMID: 24190958.
13. Li J., **Dharmarajan K.**, Li X., Lin Z., Normand S.L., Krumholz H.M., Jiang L.; China PEACE Collaborative Group. Protocol for the China PEACE (Patient-centered Evaluative Assessment of Cardiac Events) retrospective study of coronary catheterisation and percutaneous coronary intervention. *B.M.J. Open*. 2014 Mar 7;4(3):e004595. PMID: 24607563.
14. Kulkarni V.T., Kim N., Dai Y., **Dharmarajan K.**, Safavi K.C., Bikdeli B., Lindenauer P.K., Testani J., Dries D.L., Krumholz H.M. Hospital variation in non-invasive positive pressure ventilation for acute decompensated heart failure. *Circ. Heart Fail.* 2014 May;7(3):427-33. PMID: 24633829.
15. Safavi K.C., Li S.X., **Dharmarajan K.**, Venkatesh A.K., Strait K.M., Lin H., Lowe T.J., Fazel R., Nallamothu B.K., Krumholz H.M. Hospital variation in the use of noninvasive cardiac imaging and its association with downstream testing, interventions, and outcomes. *J.A.M.A. Intern. Med.* 2014 Apr 1;174(4):546-53. PMID: 24515551.
16. Fazel R., Strait K.M., Bikdeli B., **Dharmarajan K.**, Krumholz H.M. Use of intravenous diuretics on day of discharge in adults hospitalized with heart failure. *J. Card. Fail.* 2014 Sep;20(9):706-7. PMID 24951932.
17. Ranasinghe I., Wang Y., **Dharmarajan K.**, Hsieh A.F., Bernheim S.M., Krumholz H.M. Readmissions after hospitalization for heart failure, acute myocardial infarction, or pneumonia among young and middle-aged adults: a retrospective observational cohort study. *PLoS Med.* 2014 Sep 30;11(9):e1001737. PMID: 25268126.

18. Chaudhry S.I., Khan R., Chen J., **Dharmarajan K.**, Dodson J.A., Masoudi F.A., Wang Y., Krumholz H.M. National trends in recurrent AMI hospitalizations after acute myocardial infarction in Medicare beneficiaries: 1999 to 2010. *J. Am. Heart Assoc.* 2014 Sep 23;3(5):e001197. PMID: 25249298.
19. Wang Y., Lichtman J.H., **Dharmarajan K.**, Masoudi F.A., Ross J.S., Dodson J.A., Chen J., Spertus J.A., Chaudhry S.I., Nallamothu B.K., Krumholz H.M. National trends in stroke after acute myocardial infarction among Medicare patients in the United States: 1999 to 2010. *Am. Heart J.* 2015 Jan;169(1):78-85.e4. PMID: 25497251.
20. Li J., Li X., Wang Q., Hu S., Wang Y., Masoudi F.A., Spertus J.A., Krumholz H.M., Jiang L.; **China PEACE Collaborative Group.** ST-segment elevation myocardial infarction in China from 2001 to 2011 (the China PEACE-Retrospective Acute Myocardial Infarction Study): a retrospective analysis of hospital data. *Lancet.* 2015 Jan 31;385(9966):441-51. PMID: 24969506.
21. Murugiah K., Wang Y., Dodson J.A., Nuti S.V., **Dharmarajan K.**, Ranasinghe I., Cooper Z., Krumholz H.M. Trends in hospitalizations among Medicare survivors of aortic valve replacement in the United States from 1999 to 2010. *Ann. Thorac. Surg.* 2015 Feb;99(2):509-17. PMID: 25656852.
22. Bickdeli B., Strait K.M., **Dharmarajan K.**, Li S.X., Mody P., Partovian C., Coca S.G., Kim N., Horwitz L.I., Testani J.M., Krumholz H.M. Intravenous fluids in acute decompensated heart failure. *JACC Heart Fail.* 2015 Feb;3(2):127-33. PMID: 25660836.
23. **Dharmarajan K.**, Hsieh A.F., Kulkarni V.T., Lin Z., Ross J.S., Horwitz L.I., Kim N., Suter L.G., Lin H., Normand S.L., Krumholz H.M. Trajectories of risk after hospitalization for heart failure, acute myocardial infarction, or pneumonia: retrospective cohort study. *B.M.J.* 2015 Feb 5;350:h411. PMID: 25656852.
24. Al-Damluji M.S., **Dharmarajan K.**, Zhang W., Geary L.L., Stilp E., Dardik A., Mena-Hurtado C., Curtis J.P. Readmissions after carotid artery revascularization in the Medicare population. *J. Am. Coll. Cardiol.* 2015 Apr 14;65(14):1398-408. PMID: 25857904.
25. Arnold S.V., Li S.X., Alexander K.P., Spertus J.A., Nallamothu B.K., Curtis J.P., Kosiborod M., Gupta A., Wang T.Y., Lin H., **Dharmarajan K.**, Strait K.M., Lowe T.J., Krumholz H.M. Hospital variability in use of anticoagulant strategies during acute myocardial infarction treated with an early invasive strategy. *J. Am. Heart Assoc.* 2015 Jun 15;4(6):e002009. PMID: 26077589.
26. Dreyer R.P., Ranasinghe I., Wang Y., **Dharmarajan K.**, Murugiah K., Nuti S.V., Hsieh A.F., Spertus J.A., Krumholz H.M. Sex differences in the rate, timing, and principal diagnoses of 30-day readmissions in younger patients with acute myocardial infarction. *Circulation.* 2015 Jul 21;132(3):158-66. PMID: 26085455.
27. Dodson J.A., Wang Y., Murugiah K., **Dharmarajan K.**, Cooper Z., Hashim S., Nuti S.V., Spatz E., Desai N., Krumholz H.M. National trends in hospital readmission rates among Medicare fee-for-service survivors of mitral valve surgery, 1999-2010. *PLoS One.* 2015 Jul 6;10(7):e0132470. PMID: 26147225.
28. Chen R., Strait K.M., **Dharmarajan K.**, Li S.X., Ranasinghe I., Martin J., Fazel R., Masoudi F.A., Cooke C.R., Nallamothu B.K., Krumholz H.M. Hospital variation in admission to intensive care units for patients with acute myocardial infarction. *Am. Heart J.* 2015 Dec;170(6):1161-9. PMID: 26678638.
29. Zheng X., Curtis J.P., Hu S., Wang Y., Yang Y., Masoudi F.A., Spertus J.A., Li X., Li J., **Dharmarajan K.**, Downing N.S., Krumholz H.M., Jiang L.; China PEACE Collaborative Group. Coronary catheterization and percutaneous coronary intervention in China: 10-year results from the China PEACE-Retrospective CathPCI Study. *J.A.M.A. Intern. Med.* 2016 Mar 14. [Epub ahead of print]. PMID: 26974883.
30. **Dharmarajan K.**, Qin L., Lin Z., Horwitz L.I., Ross J.S., Drye E.E., Keshawarz A., Altaf F.K., Normand, S.L., Krumholz H.M., Bernheim S.M. Declining admission rates and thirty-day readmission

- rates positively associated even though patients grew sicker over time. *Health Aff. (Millwood)*. 2016 Jul 1;35(7):1294-302. PMID: 27385247.
31. Zeitler E.P., Wang Y., **Dharmarajan K.**, Anstrom K.J., Peterson E.D., Daubert J.P., Curtis J.P., Al-Khatib S.M. Outcomes 1 year after implantable cardioverter-defibrillator lead abandonment versus explantation for unused or malfunctioning leads: a report from the National Cardiovascular Data Registry. *Circ Arrhythm. Electrophysiol.* 2016 Jul;9(7). pii: e003953. PMID: 27406605.
  32. **Dharmarajan K.**, Strait K.M., Tinetti M.E., Lagu T., Lindenauer P.K., Lynn J., Kruk M.R., Ernst F.R., Li S.X., Krumholz H.M. Treatment for multiple acute cardiopulmonary conditions among older patients hospitalized with pneumonia, chronic obstructive pulmonary disease, or heart failure. *J. Am. Geriatr. Soc.* 2016 Jul 22. 2016 Aug;64(8):1574-82. PMID: 27448329.
  33. Rosen J.E., Salazar M.C., **Dharmarajan K.**, Kim A.W., Detterbeck F.C., Boffa D.J. Length of stay from the hospital perspective: practice of early discharge is not associated with increased readmission risk after lung cancer surgery. *Ann. Surg.* 2016 Aug 25. [Epub ahead of print]. PMID: 27564681.
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#### Invited Editorials, Commentaries, Letters to Editor, and Author Replies

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### Case Reports and Technical Notes

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86. Yale New Haven Health Services Corporation/Center for Outcomes Research and Evaluation (Y.N.H.H.S.C./C.O.R.E.) for the Centers for Medicare & Medicaid Services. Maryland measures' ICD-9 to ICD-10 crosswalk report. 22 December 2016.
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