

**CURRICULUM VITAE**  
**P. MICHAEL HO, M.D., Ph.D.**

**WORK ADDRESS**

Cardiology Section  
Rocky Mountain Regional VA Medical Center  
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**CLINICAL APPOINTMENTS**

- Staff Cardiologist, Rocky Mountain Regional VA Medical Center (7/2004-present)
- Cardiologist, University of Colorado Hospital (1/2017-present)

**FACULTY APPOINTMENTS**

- Professor with tenure criteria, Department of Medicine, University of Colorado Denver (7/2015-present)
- Vice Chair for Quality, Department of Medicine, University of Colorado Denver (4/2017-present)
- Associate Vice Chair for Quality, Department of Medicine, University of Colorado Denver (1/2016-4/2017)
- Associate Professor, Department of Medicine, University of Colorado Denver (7/2009-6/2015)
- Assistant Professor, Department of Medicine, University of Colorado Health Sciences Center (7/2004-6/2009)
- Assistant Professor, Department of Psychiatry, University of Colorado Health Sciences Center (3/2007-6/2009)

**RESEARCH APPOINTMENTS**

- Director, Department of Medicine Leaders in Informatics, Quality and Systems (LInQS) fellowship program (2019-present)
- Director, ACCORDS/D2V, Navigation Lab (NavLab) (2018-present)
- Co-Director, Data Science to Patient Value (D2V) Program, University of Colorado School of Medicine (1/2016-present)
- Co-Director, VA Collaborative Evaluation (VACE) (10/2011-present)
- Investigator, Colorado Cardiovascular Outcomes Research (C-COR) group (2004-present)
- Co-Director, VA HSR&D Denver-Seattle Center of Innovation for Veteran-centric and Value-driven Research (DiSCoVVR) (10/2013-9/2020)
- Fellowship Director, Cardiology Health Services Research, Denver VAMC (10/1/2010-6/2018)
- Co-Director, VA Ischemic Heart Disease Quality Enhancement Research Initiative (IHD-QUERI) (11/2013-9/1/2015)
- Clinical Coordinator, VA Ischemic Heart Disease Quality Enhancement Research Initiative (QUERI) (10/2011-9/30/2015)
- Investigator, VA Ischemic Heart Disease Quality Enhancement Research Initiative (QUERI) (7/2004-9/30/2015)
- Affiliate Investigator, Institute for Health Research, Kaiser Permanente of Colorado (7/2004-2015)
- Investigator, Colorado REAP to Improve Care Coordination for Veterans (CRICC) (1/2007-2013)

**EDUCATION**

2000-2005     University of Colorado Health Sciences Center Graduate School  
                  Doctoral Program in Clinical Science  
                  Degree: Ph.D., Clinical Science/Health Services Research, May 2005

2000-2004     University of Colorado Health Sciences Center  
                  Cardiology Fellowship

Board Certified, Cardiovascular Diseases: American Board of Internal Medicine,  
November 2004  
Recertified October 2014

1997-1999 University of Colorado Health Sciences Center  
Internal Medicine Internship and Residency  
Board Certified, Internal Medicine: American Board of Internal Medicine, August 2000

1993-1997 Tulane University  
School of Medicine  
Degree: M.D., May 1997

1989-1993 University of California, Berkeley  
Degree: B.A., Molecular Cell Biology, May 1993

## HONORS

1989 California Alumni Scholar  
1997 American Federation for Medical Research Student Award,  
2002-2003 Outstanding Research Fellow, Division of Cardiology, University of Colorado  
2003 American Federation for Medical Research Western Section, Astra Zeneca Scholar  
Outstanding Clinical Fellow, Division of Cardiology, University of Colorado  
2005 Northwestern University Feinberg School of Medicine Cardiovascular Young Investigators'  
Forum  
2006 Fellow, American College of Cardiology  
2006 American College of Cardiology '06 Early Career Travel Award  
2007 Young Investigator Award, Quality of Care and Outcomes Research in Cardiovascular Disease  
and Stroke Conference  
2012 Fellow, American Heart Association (QCOR Council)  
2013 Delta Omega Honor Society (Alpha Upsilon Chapter of University of Colorado)  
2014 Outstanding Cardiology Clinical Faculty Award (Division of Cardiology)

## PUBLICATIONS-PEER REVIEW (255 PUBLICATIONS TO DATE)

1. **Ho PM**, Rumsfeld JS, Lyons E, Every NR, Magid DJ. Lack of an association between Medicare supplemental insurance and delay in seeking emergency care for patients with myocardial infarction. *Ann Emerg Med.* 2002 Oct;40(4):381-7.
2. **Ho PM**, Starks H, Sun H, Sloan K, Sales A, Maynard C. Adverse outcomes in coronary heart disease patients who do not undergo lipid testing. *Am J Cardiol.* 2003;91:22-24.
3. **Ho PM**, Arciniegas DB, Grigsby J, McCarthy M, McDonald GO, Moritz TE, Shroyer AL, Sethi GK, Henderson WG, London M, VillaNeuva CB, Grover FL, Hammermeister KE. Predictors of cognitive impairment following coronary artery bypass graft surgery. *Annals of Thoracic Surgery* 2004;77:597-603.
4. Wilt TJ, Rubins HB, MacDonald R, Nelson D, Rutks I, **Ho M**, Larsen G, McCall A, Pineros S, Sales A. Effectiveness of Statins in Adults with Coronary Heart Disease. *Arch Intern Med* 2004;164:1427-36.
5. Rumsfeld JS, **Ho PM**, Magid DJ, McCarthy M, Shroyer ALW, MaWhinney S, Grover FL, Hammermeister KE. Predictors of quality of life following coronary bypass surgery. *Annals of Thoracic Surgery* 2004;7:1508-13.
6. **Ho PM**, Masoudi FM, Peterson ED, Grunwald GK, Sales AE, Hammermeister KE, Rumsfeld JS. Cardiology management improves secondary prevention measures among patients with coronary artery disease. *J Am Coll Cardiol.* 2004;43:1517-23.

7. Chuang P, Gibney E, Chan L, **Ho PM**, Parikh CR. Predictors of cardiovascular events and associated mortality within 2 years of kidney transplantation. *Transplantation Proc* 2004;36:1387-91.
8. **Ho PM**, Masoudi FA, Spertus JA, Peterson PN, Shroyer ALW, McCarthy M, Grover FL, Hammermeister KE, Rumsfeld JS. Depression predicts mortality following cardiac valve surgery. *Ann Thorac Surg*. 2005 Apr;79(4):1255-9.
9. Magid DJ, Vinson DR, van der Vlugt TM, Padgett TG, Tricomi AJ, Lyons EE, Crouse L, Brand DW, Go AS, Masoudi FA, **Ho PM**, Rumsfeld JS. Older Emergency Department Patients with Acute Myocardial Infarction Receive Lower Quality of Care than Younger Patients. *Ann Emerg Med*. 2005 Jul;46(1):14-21.
10. **Ho PM**, Masoudi FA, Peterson PN, Shroyer ALW, McCarthy M, Grover FL, Hammermeister KE, Rumsfeld JS. Quality of life predicts mortality in older but not younger patients following cardiac surgery. *Am J Geriatr Cardiol*. 2005 Jul-Aug;14(4):176-82.
11. Sakai JT, **Ho PM**, Shore JH, Risk NK, Price RK. Asians in the U.S.: substance dependence and use of substance dependence treatment. *Journal of Substance Abuse Treatment*. 29(2005);75-84.
12. **Ho PM**, Prochazka AV, Magid DJ, Sales AE, Grunwald GK, Hammermeister KE, Rumsfeld JS. The Association Between Processes, Structures and Outcomes of Secondary Prevention Care Among VA Ischemic Heart Disease Patients. *BMC Cardiovascular Disorders*. 2006 Feb 9;6(1):6
13. **Ho PM**, Spertus JA, Masoudi FA, Reid KJ, Peterson ED, Magid DJ, Krumholz HM, Rumsfeld JS. Impact of medication therapy discontinuation on mortality after myocardial infarction. *Arch Intern Med*. 2006 Sep 25;166(17):1842-7.
14. **Ho PM**, Rumsfeld JS, Masoudi FA, McClure DL, Plomondon ME, Steiner JF, Magid DJ. Effect of medication nonadherence on hospitalization and mortality among patients with diabetes mellitus. *Arch Intern Med*. 2006 Sep 25;166(17):1836-41.
15. Masoudi FA, Magid DJ, Vinson DR, Tricomi AJ, Lyons EE, Crouse L, **Ho PM**, Peterson PN, Rumsfeld JS; Emergency Department Quality in Myocardial Infarction Study Investigators. Implications of the failure to identify high-risk electrocardiogram findings for the quality of care of patients with acute myocardial infarction: results of the Emergency Department Quality in Myocardial Infarction (EDQMI) study. *Circulation*. 2006 Oct 10;114(15):1565-71. Epub 2006 Oct 2.
16. **Ho PM**, Magid DJ, Masoudi FA, McClure DL, Rumsfeld JS. Adherence to cardioprotective medications and mortality among patients with diabetes and ischemic heart disease. *BMC Cardiovasc Disord*. 2006 Dec 15;6:48.
17. Rosamond W, Flegal K, Friday G, Furie K, Go A, Greenlund K, Haase N, **Ho M**, Howard V, Kissela B, Kittner S, Lloyd-Jones D, McDermott M, Meigs J, Moy C, Nichol G, O'donnell CJ, Roger V, Rumsfeld J, Sorlie P, Steinberger J, Thom T, Wasserthiel-Smoller S, Hong Y. Heart Disease and Stroke Statistics--2007 Update. A Report From the American Heart Association Statistics Committee and Stroke Statistics Subcommittee. *Circulation*. 2006 Dec 28; [Epub ahead of print]
18. Wagner BD, Grunwald GK, Rumsfeld JS, Hill JO, **Ho PM**, Wyatt HR, Shroyer ALW. The Relationship of Body Mass Index with Outcomes Following Coronary Artery Bypass Graft Surgery. *Ann. Thorac. Surg*. 2007 Jul;84(1):10-6.
19. **Ho PM**, Luther S, Masoudi FA, Gupta I, Lowy E, Maynard C, Sales AE, Peterson ED, Fihn SD, Rumsfeld JS. Inpatient and follow-up cardiology care and mortality for acute coronary syndrome patients in the VHA. *Am Heart J*. 2007 Sep;154(3):489-94.

20. Maddox TM, **Ho PM**, Rumsfeld JS. Health-related Quality of Life Outcomes among Coronary Artery Bypass Graft Surgery Patients. *Expert Review of Pharmacoeconomics & Outcomes Research*, August 2007, Vol. 7, No. 4, Pages 365-372.
21. Plomondon ME, **Ho PM**, Wang L, Greiner GT, Shore JH, Sakai JT, Fihn SD, Rumsfeld JS. Severe Mental Illness and Mortality of Hospitalized ACS Patients in the VHA. *BMC Cardiovasc Disord. BMC Health Services Research* 2007, 7:146.
22. **Ho PM**, Sun H, Lowy E, Sales AE, Hutt E, Rumsfeld JS. Care and outcomes of patients discharged to long-term care after acute coronary syndrome hospitalization in the VHA. *Longterm Care Interface*. September/October 2007;19-23.
23. **Ho PM**, Rumsfeld JS, Peterson PN, Masoudi FA, Strunk A, Ross C, Lyons EE, Smith SS, Lauer MS, Magid DJ. Chest pain on exercise treadmill test predicts future cardiac hospitalizations. *Clin Cardiol*. 2007;30:505-510.
24. **Ho PM**, Fihn SD, Wang L, Bryson CL, Lowy E, Maynard C, Magid DJ, Peterson ED, Jesse RL, Rumsfeld JS. Clopidogrel and long-term outcomes following stent implantation for acute coronary syndrome. *Am Heart J*. 2007. 154;846-51.
25. Vinson DR, Magid DJ, Brand DW, Masoudi FA, **Ho PM**, Lyons EE, Crouse L, van der Vlugt TM, Padgett TG, Tricomi AJ, Go AS, Rumsfeld JS. Patient sex and quality of emergency department care for patients with acute myocardial infarction. *Amer J Emerg Med*. 2007;25:996-1003.
26. Rosamond W, Flegal K, Furie K, Go A, Greenlund K, Haase N, Hailpern SM, **Ho M**, Howard V, Kissela B, Kittner S, Lloyd-Jones D, McDermott M, Meigs J, Moy C, Nichol G, O'Donnell C, Roger V, Sorlie P, Steinberger J, Thom T, Wilson M, Hong Y; for the American Heart Association Statistics Committee and Stroke Statistics Subcommittee. Heart Disease and Stroke Statistics 2008 Update. A Report From the American Heart Association Statistics Committee and Stroke Statistics Subcommittee. *Circulation*. 2007 Dec 17 [Epub ahead of print]
27. Peterson PN, Magid DJ, Ross C, **Ho PM**, Rumsfeld JS, Lauer MS, Lyons EE, Smith SS, Masoudi FA. Association of exercise capacity on treadmill with future cardiac events in patients referred for exercise testing. *Arch Intern Med*. 2008 Jan 28;168(2):174-9.
28. **Ho PM**, Peterson ED, Wang, L, Magid DJ, Fihn SD, Larsen GC, Jesse RA, Rumsfeld JS. Incidence of Death and Acute Myocardial Infarction Associated With Stopping Clopidogrel After Acute Coronary Syndrome. *JAMA* 2008; 299:532-539.
29. **Ho PM**, Magid DJ, Shetterly SM, Olson KL, Peterson PN, Masoudi FA, Rumsfeld JS. Importance of therapy intensification and medication non-adherence for blood pressure control in coronary disease patients. *Arch Intern Med*. 2008 Feb 11;168(3):271-6.
30. Tricomi AJ, Magid DJ, Rumsfeld JS, Vinson DR, Lyons EE, Crouse L, **Ho PM**, Peterson PN, Masoudi FA, Missed Opportunities for Reperfusion Therapy for ST-segment Elevation Myocardial Infarction: Results of the Emergency Department Quality in Myocardial Infarction (EDQMI) Study. *Am Heart J*. 2008 Mar;155(3):471-7. Epub 2007 Dec 19.
31. Daugherty S, **Ho PM**, Spertus JA, Jones PG, Bach RG, Krumholz HM, Peterson ED, MD, Rumsfeld JS, MD, Masoudi FA. Early Follow-up after Acute Myocardial Infarction is Associated with Higher Rates of Medication Use. *Arch Intern Med*. 2008 Mar 10;168(5):485-91; discussion 492.
32. **Ho PM**, Magid DJ, Shetterly SM, Olson KL, Maddox TM, Peterson PN, Masoudi FA, Rumsfeld JS. Medication non-adherence is associated with a broad range of adverse outcomes in CAD patients. *Am Heart J*. April 2008;155(4):772-779.

33. **Ho PM**, Eng MH, Rumsfeld JS, Spertus JA, Peterson PN, Jones PG, Peterson ED, Alexander KP, Havranek EP, Krumholz HM, Masoudi FA. The Influence of Age on Health Status Outcomes Following Acute Myocardial Infarction. *Am Heart J*. 2008 May;155(5):855-61. Epub 2008 Mar 5.
34. **Ho PM**, Maddox TM, Ross C, Rumsfeld JS, Magid DJ. Impaired Chronotropic Response to Exercise Stress Testing in Patients with Diabetes Predicts Future Cardiovascular Events. *Diabetes Care*. 2008 May 28. [Epub ahead of print]
35. McDermott KA, Helfrich CD, Sales AE, Rumsfeld JS, **Ho PM**, Fihn SD. A review of interventions and system changes to improve time to reperfusion for ST-Segment Elevation Myocardial Infarction. *J Gen Intern Med*. 2008 May 6. [Epub ahead of print]
36. Sales A, Helfrich C, **Ho PM**, Hedeem A, Plomondon ME, Li YF, Connors A, Rumsfeld JS. Implementing electronic clinical reminders for lipid management in patients with ischemic heart disease in the Veterans Health Administration: QUERI Series. *Implementation Science* 2008, **3**:28doi
37. Maddox TM, Reid KJ, Spertus JA, **Ho PM**, Rumsfeld JS. The Prevalence and Factors Associated With 1-Year Angina among Post-MI Patients. *Arch Intern Med*. 2008 Jun 23;168(12):1310-6.
38. Daugherty SL, Peterson PN, Magid DJ, **Ho PM**, Bondy J, Hokanson JE, Ross CA, Rumsfeld JS, Masoudi FA. The Relationship Between Gender and Clinical Management after Exercise Stress Testing. *American Heart Journal* 2008;156:301-307.
39. **Ho PM**, Peterson PN, Masoudi FA. Evaluating the evidence: Is there a rigid hierarchy? *Circulation*. 2008 Oct 14;118(16):1675-84.
40. Maddox TM, Ross C, **Ho PM**, Masoudi FA, Magid DJ, Daugherty SL, Peterson P, Rumsfeld JS. The Prognostic Importance of Abnormal Heart Rate Recovery and Chronotropic Response among Exercise Treadmill Test Patients. *Am Heart J*. 2008 Oct;156(4):736-44.
41. Arnold SV, Alexander KP, Masoudi FA, **Ho PM**, Xian L, Spertus JA. The effect of age on functional and mortality outcomes after acute myocardial infarction. *J Am Geriatr Soc* 2008.
42. Krumholz HM, Anderson JL, Bachelder BL, Fesmire FM, Fihn SD, Foody JM, **Ho PM**, Kosiborod MN, Masoudi FA, Nallamothu BK. ACC/AHA 2008 Performance Measures for Adults With ST-Elevation and Non-ST-Elevation Myocardial Infarction. A Report of the American College of Cardiology/American Heart Association Task Force on Performance Measures (Writing Committee to Develop Performance Measures for ST-Elevation and Non-ST-Elevation Myocardial Infarction). *Circulation*. 2008 Nov 10.
43. **Ho PM**, Maddox TM, Wang L, Fihn SD, Jesse RL, Peterson ED, Rumsfeld JS. Risk of adverse outcomes associated with concomitant use of clopidogrel and proton pump inhibitors following acute coronary syndrome. *JAMA*. 2009 Mar 4;301(9):937-44.
44. Maddox TM, Ross C, **Ho PM**, Magid D, Rumsfeld JS. Impaired heart rate recovery is associated with new-onset atrial fibrillation: a prospective cohort study. *BMC Cardiovasc Disord*. 2009 Mar 12;9:11.
45. Hammermeister KE, Fairclough D, Emsermann CB, Hamman R, **Ho M**, Phibbs S, Plomondon M, Valuck R, West D, Steiner JF. Effectiveness of hydralazine/isosorbide dinitrate in racial/ethnic subgroups with heart failure. *Clin Ther*. 2009 Mar;31(3):632-43.
46. **Ho PM**, Bryson CL, Rumsfeld JS. Medication adherence: Its Importance in Cardiovascular Outcomes Research. *Circulation*. 2009 Jun 16;119(23):3028-35.

47. Maddox TM, **Ho PM**. Medication adherence and the patient with coronary artery disease: challenges for the practitioner. *Curr Opin Cardiol*. 2009 Jun 20.
48. Melloni C, Alexander KP, Ou FS, LaPointe NM, Roe MT, Newby LK, Baloch K, **Ho PM**, Rumsfeld JS, Peterson ED. Predictors of early discontinuation of evidence-based medicine after acute coronary syndrome. *Am J Cardiol*. 2009 Jul 15;104(2):175-81.
49. Steiner JF, **Ho PM**, Beaty BL, Dickinson M, Hanratty R, Zeng C, Tavel HM, Havranek EP, Davidson AJ, Magid DJ, Estacio RO. Sociodemographic and Clinical Characteristics Are Not Clinically Useful Predictors of Refill Adherence in Patients With Hypertension. *Circ Cardiovasc Qual Outcomes*. 2009;2:451-457.
50. Tsai TT, Maddox TM, Roe MT, Dai D, Alexander KP, **Ho PM**, Messenger JC, Nallamothu BK, Peterson ED, Rumsfeld JS; National Cardiovascular Data Registry. Contraindicated medication use in dialysis patients undergoing percutaneous coronary intervention. *JAMA*. 2009 Dec 9;302(22):2458-64.
51. Lloyd-Jones D, Adams R, Carnethon M, De Simone G, Ferguson TB, Flegal K, Ford E, Furie K, Go A, Greenlund K, Haase N, Hailpern S, **Ho M**, Howard V, Kissela B, Kittner S, Lackland D, Lisabeth L, Marelli A, McDermott M, Meigs J, Mozaffarian D, Nichol G, O'Donnell C, Roger V, Rosamond W, Sacco R, Sorlie P, Stafford R, Steinberger J, Thom T, Wasserthiel-Smoller S, Wong N, Wylie-Rosett J, Hong Y; American Heart Association Statistics Committee and Stroke Statistics Subcommittee. Heart disease and stroke statistics--2009 update: a report from the American Heart Association Statistics Committee and Stroke Statistics Subcommittee. *Circulation*. 2009 Jan 27;119(3):480-6.
52. **Ho PM**, Tsai TT, Wang TY, Shetterly SM, Clarke CL, Go AS, Sedrakyan A, Rumsfeld JS, Peterson ED, Magid DJ. Adverse Events After Stopping Clopidogrel in Post-Acute Coronary Syndrome Patients: Insights From a Large Integrated Healthcare Delivery System. *Circ Cardiovasc Qual Outcomes*. 2010 Mar 30. [Epub ahead of print]
53. **Ho PM**, Tsai TT, Maddox TM, Powers JD, Carroll NM, Jackevicius C, Go AS, Margolis KL, Defor TA, Rumsfeld JS, Magid DJ. Delays in Filling Clopidogrel Prescription After Hospital Discharge and Adverse Outcomes After Drug-Eluting Stent Implantation: Implications for Transitions of Care. *Circ Cardiovasc Qual Outcomes*. 2010 Apr 20. [Epub ahead of print]
54. Tsai TT, **Ho PM**, Xu S, Powers JD, Carroll NM, Shetterly SM, Maddox TM, Rumsfeld JS, Margolis K, Go AS, Magid DJ. Increased Risk of Bleeding in Patients on Clopidogrel Therapy After Drug-Eluting Stents Implantation: Insights From the HMO Research Network-Stent Registry (HMORN-Stent). *Circ Cardiovasc Interv*. 2010 May 4. [Epub ahead of print]
55. Garavalia L, **Ho PM**, Garavalia B, Foody JM, Kruse H, Spertus JA, Decker C. Clinician-patient discord: Exploring differences in perspectives for discontinuing clopidogrel. *Eur J Cardiovasc Nurs*. 2010 May 18. [Epub ahead of print]
56. Maddox TM, Ross C, Tavel HM, Lyons EE, Tillquist M, **Ho PM**, Rumsfeld JS, Margolis KL, O'Connor PJ, Selby JV, Magid DJ. Blood Pressure Trajectories and Associations With Treatment Intensification, Medication Adherence, and Outcomes Among Newly Diagnosed Coronary Artery Disease Patients. *Circ Cardiovasc Qual Outcomes*. 2010 May 20. [Epub ahead of print]
57. **Ho PM**, Zeng C, Tavel HM, Selby JV, O'Connor PJ, Margolis KL, Magid DJ. Trends in first-line therapy for hypertension in the Cardiovascular Research Network Hypertension Registry, 2002-2007. *Arch Intern Med*. 2010 May 24;170(10):912-3.
58. Lopes RD, Peterson ED, Chen AY, Roe MT, Wang TY, Ohman EM, Magid DJ, **Ho PM**, Wiviott SD, Scirica BM, Alexander KP. Antithrombotic strategy in non-ST-segment elevation myocardial infarction patients undergoing percutaneous coronary intervention: insights from the ACTION (Acute Coronary Treatment and Intervention Outcomes Network) Registry. *JACC Cardiovasc Interv*. 2010 Jun;3(6):669-77.

59. Magid DJ, Shetterly SM, Margolis KL, Tavel HM, O'Connor PJ, Selby JV, **Ho PM**. Comparative Effectiveness of Angiotensin-Converting Enzyme Inhibitors Versus  $\beta$ -Blockers as Second-Line Therapy for Hypertension. *Circ Cardiovasc Qual Outcomes*. 2010 Aug 17. [Epub ahead of print]
60. Tsai CL, Magid DJ, Sullivan AF, Gordon JA, Kaushal R, **Ho PM**, Peterson PN, Blumenthal D, Camargo CA Jr Quality of care for acute myocardial infarction in 58 U.S. emergency departments. *Acad Emerg Med*. 2010 Sep;17(9):940-50.
61. Lambert-Kerzner A, Havranek EP, Plomondon ME, Albright K, Moore A, Gryniewicz K, Magid D, **Ho PM**. Patients' Perspectives of a Multifaceted Intervention With a Focus on Technology: A Qualitative Analysis. *Circ Cardiovasc Qual Outcomes*. 2010 Oct 5. [Epub ahead of print]
62. Maddox TM, **Ho PM**, Roe M, Dai D, Tsai TT, Rumsfeld JS. Utilization of Secondary Prevention Therapies in Patients With Nonobstructive Coronary Artery Disease Identified During Cardiac Catheterization: Insights From the National Cardiovascular Data Registry Cath-PCI Registry. *Circ Cardiovasc Qual Outcomes*. 2010 Oct 5. [Epub ahead of print]
63. Kim MS, Wang TY, Ou FS, Klein AJ, Hudson PA, Messenger JC, Masoudi FA, Rumsfeld JS, **Ho PM**. Association of prior coronary artery bypass graft surgery with quality of care of patients with non-ST-segment elevation myocardial infarction: A report from the National Cardiovascular Data Registry Acute Coronary Treatment and Intervention Outcomes Network Registry-Get With the Guidelines. *Am Heart J*. 2010 Nov;160(5):951-7.
64. WRITING GROUP MEMBERS, Lloyd-Jones D, Adams RJ, Brown TM, Carnethon M, Dai S, De Simone G, Ferguson TB, Ford E, Furie K, Gillespie C, Go A, Greenlund K, Haase N, Hailpern S, **Ho PM**, Howard V, Kissela B, Kittner S, Lackland D, Lisabeth L, Marelli A, McDermott MM, Meigs J, Mozaffarian D, Mussolino M, Nichol G, Roger VL, Rosamond W, Sacco R, Sorlie P, Stafford R, Thom T, Wasserthiel-Smoller S, Wong ND, Wylie-Rosett J; American Heart Association Statistics Committee and Stroke Statistics Subcommittee. Executive summary: heart disease and stroke statistics--2010 update: a report from the American heart association. *Circulation*. 2010 Feb 23;121(7):948-54. 20177011.
65. Lloyd-Jones DM, Hong Y, Labarthe D, Mozaffarian D, Appel LJ, Van Horn L, Greenlund K, Daniels S, Nichol G, Tomaselli GF, Arnett DK, Fonarow GC, **Ho PM**, Lauer MS, Masoudi FA, Robertson RM, Roger V, Schwamm LH, Sorlie P, Yancy CW, Rosamond WD; American Heart Association Strategic Planning Task Force and Statistics Committee. Defining and setting national goals for cardiovascular health promotion and disease reduction: the American Heart Association's strategic Impact Goal through 2020 and beyond. *Circulation*. 2010 Feb 2;121(4):586-613. Epub 2010 Jan 20.
66. Roger VL, Go AS, Lloyd-Jones DM, Adams RJ, Berry JD, Brown TM, Carnethon MR, Dai S, de Simone G, Ford ES, Fox CS, Fullerton HJ, Gillespie C, Greenlund KJ, Hailpern SM, Heit JA, **Ho PM**, Howard VJ, Kissela BM, Kittner SJ, Lackland DT, Lichtman JH, Lisabeth LD, Makuc DM, Marcus GM, Marelli A, Matchar DB, McDermott MM, Meigs JB, Moy CS, Mozaffarian D, Mussolino ME, Nichol G, Paynter NP, Rosamond WD, Sorlie PD, Stafford RS, Turan TN, Turner MB, Wong ND, Wylie-Rosett J; American Heart Association Statistics Committee and Stroke Statistics Subcommittee. Heart disease and stroke statistics--2011 update: a report from the American Heart Association. *Circulation*. 2011 Feb 1;123(4):e18-e209. Epub 2010 Dec 15. No abstract available.
67. Schmittiel J, Selby JV, Swain B, Daugherty SL, Leong TK, **Ho M**, Margolis KL, O'Connor P, Magid DJ, Bibbins-Domingo K. Missed Opportunities in Cardiovascular Disease Prevention?: Low Rates of Hypertension Recognition for Women at Medicine and Obstetrics-Gynecology Clinics. *Hypertension*. 2011 Feb 21. [Epub ahead of print]

68. Daugherty SL, Masoudi FA, Ellis JL, **Ho PM**, Schmittziel JA, Tavel HM, Selby JV, O'connor PJ, Margolis KL, Magid DJ. Age-dependent gender differences in hypertension management. *J Hypertens*. 2011 Feb 16. [Epub ahead of print]
69. Mays RJ, Casserly IP, Kohrt WM, **Ho PM**, Hiatt WR, Nehler MR, Regensteiner JG. Assessment of functional status and quality of life in claudication. *J Vasc Surg*. 2011 Feb 17. [Epub ahead of print]
70. Magid DJ, **Ho PM**, Olson KL, Brand DW, Welch LK, Snow KE, Lambert-Kertzner AC, Plomondon ME, Havranek EP. A Multimodal Blood Pressure Control Intervention in 3 Healthcare Systems. *Am J Manag Care*. 2011;17(4):e96-e103
71. Kontos MC, Diercks DB, **Ho PM**, Wang TY, Chen AY, Roe MT. Treatment and outcomes in patients with myocardial infarction treated with acute  $\beta$ -blocker therapy: Results from the American College of Cardiology's NCDR®. *Am Heart J*. 2011 May;161(5):864-70. Epub 2011 Apr 12. PMID: 21570515
72. Arnold SV, Chan PS, Jones PG, Decker C, Buchanan DM, Krumholz HM, **Ho PM**, Spertus JA; for the Cardiovascular Outcomes Research Consortium. Translational Research Investigating Underlying Disparities in Acute Myocardial Infarction Patients' Health Status (TRIUMPH): Design and Rationale of a Prospective Multicenter Registry. *Circ Cardiovasc Qual Outcomes*. 2011 Jul 1;4(4):467-476. PMID: 21772003
73. Welch LK, Olson KL, Snow KE, Pointer L, Lambert-Kertzner A, Havranek EP, Magid DJ, **Ho PM**. Systolic blood pressure control after participation in a hypertension intervention study. *Am J Manag Care*. 2011;17(7):473-8. PMID:21819167
74. Fitzgerald AA, Powers JD, **Ho PM**, Maddox TM, Peterson PN, Allen LA, Masoudi FA, Magid DJ, Havranek EP. Impact of medication nonadherence on hospitalizations and mortality in heart failure. *J Card Fail*. 2011 Aug;17(8):664-9. Epub 2011 Jun 23. PMID:21807328
75. Byrd JB, Zeng C, Tavel HM, Magid DJ, O'Connor PJ, Margolis KL, Selby JV, **Ho PM**. Combination therapy as initial treatment for newly diagnosed hypertension. *Am Heart J*. 2011 Aug;162(2):340-6. Epub 2011 Jul 18. PMID: 21835296
76. Hanratty R, Chonchol M, Havranek EP, Powers JD, Dickinson LM, **Ho PM**, Magid DJ, Steiner JF. Relationship between Blood Pressure and Incident Chronic Kidney Disease in Hypertensive Patients. *Clin J Am Soc Nephrol*. 2011 Sep 15. [Epub ahead of print] PMID: 21921154
77. Bosworth HB, Granger BB, Mendys P, Brindis R, Burkholder R, Czajkowski SM, Daniel JG, Ekman I, **Ho M**, Johnson M, Kimmel SE, Liu LZ, Musaus J, Shrank WH, Buono EW, Weiss K, Granger CB. Medication adherence: A call for action. *Am Heart J*. 2011 Sep;162(3):412-24.
78. Melloni C, Roe MT, Chen AY, Wang TY, Wiviott SD, **Ho PM**, Peterson ED, Alexander KP. Use of early clopidogrel by reperfusion strategy among patients presenting with ST-segment elevation myocardial infarction. *Circ Cardiovasc Qual Outcomes*. 2011 Nov 1;4(6):603-9. Epub 2011 Oct 11.
79. Xu S, Shetterly S, Powers D, Raebel MA, Tsai TT, **Ho PM**, Magid D. Extension of Kaplan-Meier methods in observational studies with time-varying treatment. *Value Health*. 2012 Jan;15(1):167-74. Epub 2011 Oct 1.
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#### **PUBLICATIONS-NON PEER REVIEW**

1. Wilt TJ, Rubins HB, MacDonald R, Rutks I, Nelson D, Pineros S, Larsen G, **Ho M**, McCall A, Sales A. Effective of statins in adults with coronary heart disease: a systematic review and meta-analysis of evidence from randomized controlled trials. Department of Veterans Affairs Office of Research and Development IHD-QUERI Publication 2001-01. September, 2001.
2. **Ho PM**, Masoudi FM, Peterson ED, Grunwald GK, Sales AE, Hammermeister KE, Rumsfeld JS. *Extended abstract on* "Cardiology management improves secondary prevention measures among patients with coronary artery disease." *Compendium Series: Cardiovascular* 2005;1(3):14-15.
3. Rumsfeld JS, **Ho PM**. Depression and cardiovascular disease: a call for recognition. *Circulation* 2005. Jan 25;111(3):250-3.
4. **Ho PM**, Rumsfeld JS. Cardiac risk management in severe mental illness. *Lancet*. 2006 May 6;367(9521):1469-71.
5. **Ho PM**, Rumsfeld JS. Beyond inpatient and outpatient care: alternative model for hypertension management. *BMC Public Health*. 2006 Oct 19;6:257.
6. **Ho PM**, Rumsfeld JS, Masoudi FA, McClure DL, Plomondon ME, Steiner JF, Magid DJ. Effect of medication nonadherence on diabetes mellitus. *Cardiology Review*. April 2007. vol. 24 no. 4. p. 18-22.
7. Peterson PN, Magid DJ, **Ho PM**, Rumsfeld JS, Masoudi FA. Exercise capacity on treadmill predicts future cardiac events *Cardiology Review* 2008;25(12): 48-55.
8. **Ho PM**, Peterson ED, Wang, L, Magid DJ, Fihn SD, Larsen GC, Jesse RA, Rumsfeld JS. Incidence of Death and Acute Myocardial Infarction Associated With Stopping Clopidogrel After Acute Coronary Syndrome. *Cardiology Review* October 2008;25(10):13-18.
9. **Ho PM**, Magid DJ, Shetterly SM, Olson KL, Maddox TM, Peterson PN, Masoudi FA, Rumsfeld JS Medication non-adherence and adverse outcomes in CAD patients. *Cardiology Review* 2009; 22(2):22-27.
10. **Ho PM**, Bradley SM. In a heartbeat: decreasing in-hospital time to defibrillation. *Arch Intern Med*. 2009 Jul 27;169(14):1260-1.
11. Byrd JB, **Ho PM**. The possibility of unmeasured confounding variables in observational studies: a forgotten fact? *Heart*. 2011 Jul 27. PMID:21795300
12. Bradley SM, Carey EP, PM Ho. US growth in PCI care--less than ideal, but is the ideal less? *J Am Heart Assoc*. 2013 Nov 19;2(6):e000552. doi: 10.1161/jaha.113.000552.
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14. Bradley SM, O'Donnell CI, Grunwald GK, Liu CF, Hebert PL, Maddox TM, Jesse RL, Fihn SD, Rumsfeld JS, **Ho PM**. Response to Letter Regarding Article, "Facility Level Variation in Hospitalization, Mortality, and Costs in the 30 Days After Percutaneous Coronary Intervention: Insights on Short-Term Healthcare Value From the Veterans Affairs Clinical Assessment, Reporting, and Tracking System (VA CART) Program". *Circulation*. 2016 Feb 2;133(5):e377. doi: 10.1161/CIRCULATIONAHA.115.019552. PubMed PMID: 26831442.

15. Levy AE, **Ho PM**. Nonadherence in the Learning Healthcare System: Avoiding a Mountain by Seeing the Bumps. *Circ Cardiovasc Qual Outcomes*. 2017 Oct;10(10). pii: e004283. doi: 10.1161/CIRCOUTCOMES.117.004283.
16. Burke JF, Nallamothu BK, **Ho PM**. The Review and Editorial Process at Circulation: Cardiovascular Quality and Outcomes: The Worst System, Except for All the Others. *Circ Cardiovasc Qual Outcomes*. 2017 May;10(5). pii: e003853. doi: 10.1161/CIRCOUTCOMES.117.003853. PubMed PMID: 28495676.
17. **Ho PM**. Evaluating Value Series. *Circ Cardiovasc Qual Outcomes*. 2017 Jan;10(1). pii: e003513. doi: 10.1161/CIRCOUTCOMES.116.003513. PubMed PMID: 28093400.
18. Allen LA, **Ho PM**. Peer Review of a Manuscript Submission: A How-To Guide for Effective and Efficient Commentary. *Circ Heart Fail*. 2017 Dec;10(12). pii: e004766. doi: 10.1161/CIRCHEARTFAILURE.117.004766. PubMed PMID: 29237709.
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20. Nallamothu BK, **Ho PM**. Frontiers in Cardiovascular Outcomes Research. *Circ Cardiovasc Qual Outcomes*. 2018 Feb;11(2):e004612. doi:10.1161/CIRCOUTCOMES.118.004612. PubMed PMID: 29449444.
21. Kelmenson DA, Held N, Allen RR, Quan D, Burnham EL, Clark BJ, **Ho PM**, Kiser TH, Vandivier RW, Moss M. The authors reply. *Crit Care Med*. 2018 Apr;46(4):e347-e348. doi: 10.1097/CCM.0000000000002984. PubMed PMID: 29538131.
22. Spector-Bagdady K, **Ho PM**, Nallamothu BK. Nonregulated Interventions, Clinical Trial Registration, and Editorial Responsibility. *Circ Cardiovasc Qual Outcomes*. 2019 Jun;12(6):e005721. doi: 10.1161/CIRCOUTCOMES.119.005721. Epub 2019 Jun 11. No abstract available. PMID: 31181958
23. Valle JA, **Ho PM**. Excluding the Elephant in the Room: Cardiac Arrest. *J Am Heart Assoc*. 2019 Jan 8;8(1):e011381. doi: 10.1161/JAHA.118.011381. No abstract available. PMID: 30595066
24. Khazanie P, **Ho PM**. Leveraging Value-Based Payment Models to Reduce Sex Differences in Care. *Circ Cardiovasc Qual Outcomes*. 2019 Aug;12(8):e006038. doi: 10.1161/CIRCOUTCOMES.119.006038. Epub 2019 Aug 16. PMID: 31416348
25. Valle JA, **Ho PM**. Supporting Decisions or Decision Support? Challenges of Achieving Meaningful Clinical Decision Support in the Modern Era of the Electronic Health Record. *J Am Heart Assoc*. 2019 Nov 19;8(22):e014704. doi: 10.1161/JAHA.119.014704. Epub 2019 Nov 11. PMID: 31707944
26. Levy AE, Ream KS, **Ho PM**. ICD-10 Coding of Type 2 Myocardial Infarction and Myocardial Injury as It Relates to US Centers for Medicare & Medicaid Services Value-Based Payment Programs. *JAMA Cardiol*. 2019 Oct 1;4(10):1051. doi: 10.1001/jamacardio.2019.2818. PMID: 31411635 No abstract available.
27. **Ho PM**. Value in Healthcare Special Issue. *Circ Cardiovasc Qual Outcomes*. 2020 May;13(5):e006817. doi: 10.1161/CIRCOUTCOMES.120.006817. Epub 2020 May 12. PMID: 32393126 No abstract available.
28. Breathett K, Spatz ES, Kramer DB, Essien UR, Wadhera RK, Peterson PN, **Ho PM**, Nallamothu BK. The Groundwater of Racial and Ethnic Disparities Research: A Statement From *Circulation: Cardiovascular Quality and Outcomes*. *Circ Cardiovasc Qual Outcomes*. 2021 Feb;14(2):e007868. doi: 10.1161/CIRCOUTCOMES.121.007868. Epub 2021 Feb 11. PMID: 33567860

## BOOK CHAPTER

1. Maddox TM, Ho PM. Chapter 15: The Role of Treatment Adherence in Cardiac Risk Factor Modification. *Preventive Cardiology: A Companion to Braunwald's Heart Disease*. Blumenthal R, et al. 2011: 570-578.
2. Sagar UN, Ho PM. Chapter 48: *Outcomes Research In Hypertension*. *Hypertension: A Companion to Braunwald's Heart Disease*. Black HR, Elliott WJ. 2012: 405-409.

## COMMITTEES AND MEMBERSHIP

### Local:

- Fellow Coordinator, Evidence-Based Medicine Curriculum and Journal Club, Division of Cardiology (2002-2003)
- Ad-hoc reviewer, Kaiser Permanente of Colorado Institutional Review Board (2006)
- Member, Colorado Clinical Guidelines Collaborative for Cardiovascular Diseases (2006-7)
- Member, Colorado Clinical Guidelines Collaborative for Tobacco Cessation (2006-7)
- Faculty Co-Director, Evidence-Based Medicine Curriculum and Journal Club, Division of Cardiology (2005-2010)
- Intern selection committee, Department of Medicine, University of Colorado at Denver and Health Sciences Center (2006-2008)
- Member, Colorado Multiple Institutional Review Board (2007-2011)
- Rocky Mountain Regional VA Medical Center Research and Development Committee (2014-2017)
- Chair, University of Colorado Hospital AMI Bundle Payments Working Group (2017)
- Cardiology Fellowship Interview Committee (2011-present)
- Member, Clinical Effectiveness and Patient Safety Committee, University of Colorado Hospital (2017-present)
- Member, Clinical Leadership Council, University of Colorado School of Medicine (4/2017-present)

### National:

- Associate Member, American College of Physicians (2000-2009)
- Planning Committee, American Heart Association's 7th Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke (2005-6)
- Member, American Heart Association Executive Database Steering Committee (2006-2009)
- Member, American Heart Association Statistics Committee (2006-2010)
- Member, ACTION™ (Acute Coronary Treatment and Intervention Outcomes Network) Research & Publications Subcommittee of the National Cardiovascular Data Registry (NCDR®) (2007-present)
- Member, American Heart Association Quality of Care and Outcomes Research Membership/Communications Committee (2007-2014)
- Member, NCDR Quality Improvement (QI) Subcommittee (2007-2012)
- Member, ACC/AHA Performance Measures for Adults with ST-Elevation and non-ST-Elevation Myocardial Infarction (STEMI/NSTEMI) Writing Committee (2007-2009)
- Member, American Heart Association Quality of Care and Outcomes Research IWG/ Young Clinicians & Investigators Committee (2008-2010)
- Member, National Quality Forum Steering Committee on Medication Management (2008-9)
- Member, Clinical Resource Committee, Wellpoint, Inc. (2009-2015)
- Member, American Heart Association Heart360 Advisory Committee
- Co-Chair ACC/PhRMA Adherence Advisory Committee (2009-2012)
- ACC/IHI H2H National Quality Improvement Initiative; Implementation/Best Practices/Tools Subgroup Participation (2009)
- Health Care Practitioner Working Group, National Consumers League Adherence Campaign (2009)
- National VA Cardiovascular Assessment, Reporting and Tracking System (CART) Program, CART Research and Publications (CART R&P) Committee (2009-2012)
- Steering Committee member, CRRLC Cardiac Risk Reduction Learning Community in DARTNET (2010-2011)
- Chair, American Heart Association Quality of Care and Outcomes Research Membership/Communications Committee (2010-2014)

- Member, American Heart Association QCOR Leadership Committee (2010-2014)
- Program Faculty, Keeping PACE: Patient-centered ACS (Acute Coronary Syndrome) Care Education initiative for ACC
- Stakeholder Member, Duke Evidence-Based Practice Center is conducting two methods guidance projects on identification and prioritization of research needs for the Agency for Healthcare Research and Quality (AHRQ).
- Research and Publications Committee, TRIUMPH Registry (2010-present)
- Member, Data Safety and Monitoring Board for the PATIENT (Promoting Adherence To Improve the Effectiveness of CVD Therapies) study
- Co-Chair, ACCF/AHA/AACVPR/AAFP/AMA-PCPI/ANA/ASHP/NCQA Shared Accountability Methodology Workgroup
- Member, NCQA ONC HITECH CAD/HTN eMeasure Expert Panel
- Member, ACCF/AHA Task Force on Performance Measures (2013-2017)
- Chair, NCDR ACC-SHS Linked Dataset Expert Panel (2016-present)
- AHA Quality of Care and Outcomes Research Council Leadership Committee (2017-current)
- AHA QCOR Annual Scientific Meeting Vice Chair (2017-2019)
- Chair, ACCF/AHA Task Force on Performance Measures (1/2020-Present)
- Chair, AHA QCOR Annual Scientific Meeting (2019-Present)

**GRANT REVIEW PANELS:**

- Ad-hoc reviewer, Heart and Stroke Foundation of Canada (2005)
- Reviewer, VA QUERI Rapid Response Proposal Grant Program (2009-2014)
- Reviewer, Colorado CRICC Small Grants Pilot Program (2008-2013)
- Reviewer, VA QUERI Service Directed Projects (2010)
- Member, American Heart Association Outcomes/Qualitative Research & Therapeutic Clinical Trials Peer Review Committee (2010-2011)
- Member, University of Colorado CCTSI K to R Transition Grant Review Panel (2010-2012)
- Co-Chair, American Heart Association Outcomes/Qualitative Research & Therapeutic Clinical Trials Peer Review Committee (10/2011)
- Chair, American Heart Association Outcomes/Qualitative Research & Therapeutic Clinical Trials Peer Review Committee (04/2012-2013)
- VA Special Panel to review CREATE applications (September 2011)
- Reviewer, NIH Health Services Organization and Delivery Study Section (HSOD) (2013-2015)
- Reviewer, VA HSR&D Career Development Award review panel (2014-2016)

**JOURNAL EDITORIAL BOARDS:**

- Associate Editor, BMC Health Services Research (2011-2013)
- Editorial board, Circulation: Cardiovascular Quality and Outcomes Journal (2009-2014)
- Deputy Editor, Circulation: Cardiovascular Quality and Outcomes Journal (2016-present)

**COURSES COMPLETED:**

- Leadership in Innovative Team Sciences (LITeS)
- Colorado Mentoring Training
- Intentional Leadership

**ACTIVE GRANTS**

<b>VA</b>		
COR 20-186 (Ho)	1/2020-12/31/2021	1.2 calendar
VA HSR&D	\$1,000,000	

Access Consortium of Research

The objective of the Access Core is to create a research roadmap on access to care for VA Health Service Research and Development working with operational partners and research community.

Role: PI

IIR (Wagner)  
VA HSR&D 11/1/2020-10/31/2023 0.6 calendar  
Utilization and health outcomes for Veterans with expanded healthcare access  
The overall objective of this study is to expand on existing measures of access and show the effect of improved access on Veteran health  
Role: Co-Investigator

HX 13-001 (Au) 10/1/2018-9/30/2023 0 calendar  
VA HSR&D \$1,100,000 1.6 Total Prof. Responsibilities  
Denver-Seattle Center for Veteran-centric and Value-driven Research (DiSCoVVR)  
This is a Center of Innovation infrastructure grant to improve Veteran-centered and Value driven care.  
Role: Investigator

IIR-14-338 (Ho) 04/01/16-03/31/21 3.0 calendar  
VA HSR&D \$259,689  
*Appropriate Use of Cardiovascular Procedures to Optimize Healthcare Value (ADVANCE)*  
The goal of this project is to assess the association between appropriateness of elective PCI and value of care defined by outcomes over costs.

IIR 17-045 10/01/18-03/31/22 0.6 calendar  
VA-HSR&D \$270,564  
*ResCU II: Improving In-hospital Cardiac Arrest Care and Discovering Keys to Super-Survivorship*  
This mixed methods grant will evaluate ongoing VA efforts to improve the quality of in-hospital cardiac arrest care, develop approaches to enhance those efforts, and identify patient, caregiver, and health system practices that produce exceptional recovery after in-hospital cardiac arrest.  
Role: Co-Investigator

**UCD**

Internal (Ho) 02/01/16-6/30/21 1.2 calendar  
University of Colorado Denver \$4,000,000 0.8 Total Prof. Responsibilities  
*D2V – Data Science to Patient Value*  
University of Colorado School of Medicine Dean's Transformational Grant Initiative to make the University of Colorado Anschutz Medical Campus School of Medicine a national and global leader in the development, implementation and dissemination of person-centered, high value health care by advancing innovations in data and health systems science to improve the lives of patient, families, and communities.

K12 HL137862-01 (Glasgow) 09/05/17-06/30/22 0.0 calendar  
NHLBI \$115,811 0 Total Prof. Responsibilities  
*IMPLementation to Achieve Clinical Transformation (IMPACT): The Colorado Training Program*  
This K12 application for our IMPACT training program to develop T4 scholars addresses both key competencies for D&I researchers and also provides in-depth individually tailored training for scholars. Key aspects of our training will include intensive embedded research experiences in two different partner settings conducting HLBS clinical research, and completion of both core and innovative state of the art T4 courses, seminars and workshops  
Role: Co-Investigator

UH3HL144163 (Ho) 07/01/2019-06/30/2023 Y1: 1 CM; Y2: 2.12 CM; Y3-4: 1.8 CM; Y5: 2.4 CM  
NIH/NLM \$1,455,863 0.8 Total Prof. Responsibilities  
Personalized patient data and behavioral nudges to improve adherence to chronic cardiovascular medications  
This study will employ population level pharmacy data to identify non-adherent patients and utilize ubiquitous cell phone technology to send them tailored, engaging and motivating text messages and text message based chat through an artificially intelligent (AI) interactive chat bot to improve cardiac medication adherence and patient outcomes in 3 integrated healthcare delivery systems.

**CURRENT MENTEES:**

Name	Rank	Specialty	Institution	Research focus area	Timeframe
Joseph Frank, MD	Assistant professor	General internal medicine	Univ of Colorado	Opioids use	2013-present
Evan Carey, MPH, PhD	Assistant professor	Epidemiologist	St. Louis University	Data science	2013-present
Paul Hess, MD	Assistant professor	Cardiology	Univ of Colorado	Heart failure	2016-present
Vinay Kini, MD	Assistant professor	Cardiology	Univ of Colorado	Appropriateness of imaging	2016-present
Sridharan Raghaven, MD	Assistant professor	Hospital Medicine	Univ of Colorado	Diabetes	2016-present
Lauren Abate, MD	Assistant Professor	Emergency medicine	Univ of Colorado	Functional status	2017-present
Melanie Whittington, PhD	Assistant Professor	Health economist	Univ of Colorado	Return of investment	2017-present
Andrew Levy, MD	Cardiology fellow	Cardiology	Univ of Colorado	Quality improvement	2018-present

**PAST MENTEES:**

Lesley Welch, PharmD; clinical pharmacist (2009-2011)  
 Brian Byrd, MD, MSc; cardiology fellow (2010-2011)  
 Thomas Tsai, MD, MSc; junior faculty in interventional cardiology (2008-2013)  
 Mary Beth Sauer, MD; endocrine fellow (2009-2010)  
 Paul Sagar, MD; cardiology fellow (2009-2010)  
 Stacie Daugherty, MD, MSPH; junior faculty in cardiovascular outcomes research (2010-2012)  
 Tom Boyden, MD; cardiology fellow at University of Michigan (2010-2013)  
 Ryan Mays, PhD; post-doctoral fellow in the Division of Cardiology (2009-2013)  
 Julia Slejko, PhD candidate in pharmaceutical outcomes research (2010-2012)  
 Tami Box, PhD candidate in health informatics (2010-2013)  
 Rebecca Vigen, MD; cardiology fellow (2011-2013)  
 Vikas Aggarwal, MD; cardiology fellow (2011-2014)  
 Ashley Fitzgerald, MD; cardiology fellow (2012)  
 Supriya Shore, MD; cardiovascular outcomes research fellow (2012-2014)  
 Mark Navarro, MD; cardiovascular outcomes research fellow (2013-2014)  
 Preston Schneider, MD; cardiovascular outcomes research fellow (2012-2014)  
 Javier Valle, MD; cardiovascular outcomes research fellow (2013-2015)  
 Lauren Thompson, MD; cardiovascular outcomes research fellow (2014-2015)  
 Jehu Mathew, MD; cardiovascular outcomes research fellow (2014-2015)  
 Lindsey Monteith, PhD; junior faculty in MIRECC (2013-2014)  
 Anne Lambert-Kerzner, MSPH; PhD (health services research) (2009-2015)  
 Robert Burke, MD; junior faculty in hospital medicine (2012-2018)  
 Westyn Branch-Elliman, MD; junior faculty in infectious diseases (VA Boston; 2014-2017)  
 Steve Bradley, MD; junior faculty in cardiology (2011-2016)  
 Colin O'Donnell, MS; PhD candidate in biostatistics (2012-present)  
 Alexis Beatty, MD; junior faculty in cardiology (VA Puget Sound VA; 2015-2018)  
 Lucas Marzec, MD; EP junior faculty (2014-2018)

**LECTURES / PANELS / INVITED FACULTY POSITIONS**

1. Faculty, Department of Veterans Affairs (Washington, D.C., 2005): 'Time is Life 2: Applying Systems Management', Washington DC.

2. Lecturer, University of Colorado and Denver Health Sciences Center, Clinical Outcomes Assessment course (2006), 'Health-Related Quality of Life', Denver, Colorado.
3. General Internal Medicine Grand Rounds (5/2006), "Medication adherence: the next frontier in quality improvement" Denver, Colorado.
4. Speaker, Colorado Cardiovascular Health Coalition Task Force (5/2006), "Improving Blood Pressure in Colorado" Denver, Colorado.
5. Faculty, Continuity of Care of Acute Coronary Syndrome Meeting (5/2006), "Adherence to cardiovascular medications following ACS" Washington DC.
6. Panel, 7<sup>th</sup> Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke, 2006, "Funding opportunities in the early stages of career development" Washington DC.
7. Panel, Academy Health Annual Research Meeting 2006, "Managing chronic cardiovascular disease in the VA integrated healthcare system" Seattle, Washington.
8. Invited Conference, American Heart Association September 2006, "To share knowledge and explore potential future educational initiatives related to CV disease" New York City, New York.
9. Invited faculty, VHA Cardiovascular Taskforce Meeting (March 2007), "The importance of patient medication adherence following ACS hospitalization" Broomfield, Colorado.
10. Panel, 2007 ACC.07 56<sup>th</sup> Annual Scientific Session (March 2007), "Multidisciplinary models to improve adherence" New Orleans, Louisiana.
11. Panel, 8<sup>th</sup> Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke, 2007, "Funding opportunities in the early stages of career development" Washington DC.
12. Invited faculty, American Society of Hypertension Satellite Symposium (May 2007), "Medication adherence: Looking outside the box," Chicago, IL.
13. University of Colorado Health Sciences Center, Division of Cardiology Grand Rounds (October 2007), "The importance of medication adherence in cardiovascular diseases" Denver, Colorado.
14. Invited faculty, American Heart Association Scientific Sessions (November 2007), "Starting a career in outcomes research," Orlando, FL
15. Invited faculty, American Heart Association Satellite Symposium (November 2007), "Optimizing clinical outcomes: improving patient adherence," Orlando, FL
16. Colorado Department of Public Health and Environment Cardiovascular Disease and Pulmonary Disease Competitive Grants Program Grantee Summit (November 2007), "Improving blood pressure in Colorado, preliminary results," Denver, CO
17. Invited faculty, Taiwan Transcatheter Therapeutics 2007 Conference (November 2007), "Clopidogrel and long term outcomes following stent implantation for ACS," Taipei, Taiwan
18. University of Colorado Health Sciences Center, Division of Cardiology Research Conference (December 2007), "Clopidogrel and outcomes following acute coronary syndrome," Denver, CO
19. Colorado Health Outcomes Program (COHO)/University of Colorado Denver and the VA Colorado Research to Improve Care Coordination (VA-CRICC) program, Methods & Application in health outcomes

research seminar (January 2008), "Latent class method to assess blood pressure control over time," Denver, CO.

20. VA HSR&D 2008 National Meeting (February 2008), "Networking for career development," Baltimore, Maryland.
21. Panel, 9<sup>th</sup> Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke, 2008 (May 2008), "Funding opportunities in the early stages of career development" Washington DC.
22. Invited faculty, Transcatheter Cardiovascular Therapeutics 2008 (October 2008), "Rebound stent thrombosis following clopidogrel cessation," Washington, DC.
23. Invited faculty, American Heart Association Scientific Sessions (November 2008) "Prevalence and consequences of non-adherence," New Orleans, Louisiana
24. Cardiology Cardiac Catheterization Conference (March 2009) "Risk of adverse outcomes associated with concomitant clopidogrel and PPI use after ACS," Washington, DC (via web)
25. Panel, 10<sup>th</sup> Scientific Forum on Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke, 2008 (April 2009), "Medication adherence and outcomes" Washington DC.
26. Kaiser Permanente of Colorado Journal Club (May 2009) "Risk of adverse outcomes associated with concomitant clopidogrel and PPI use after ACS," Denver, Colorado
27. Invited speaker, University of Colorado Clinical Sciences Program Awards Ceremony (May 2009), "Life After CLSC," Denver, Colorado
28. American Heart Association Pacific Mountain Affiliate Board of Directors (June 2009) "Outcomes research and hypertension management," Denver, Colorado
29. 2009 VA Cardiovascular Quality and Management Conference (June 2009) "Research using CART-CL data," Denver, Colorado
30. Moderator, American Heart Association Scientific Sessions (November 2009), "Quality Performance-What you need to know," Orlando, FL
31. Interview on ReachMD program, Heart Matters with Janet Wright, MD, "Medication adherence," February 15, 2010.
32. Presenter, ACTION Registry-GWTG Acute and Discharge Medications Quality Metrics Webinar February 3, 2010
33. University of Colorado, Department of Medicine Grand Rounds (April 7, 2010), "A New Paradigm in Pharmacosurveillance in clinical practice," Denver, Colorado.
34. Invited faculty, Montana Cardiovascular Health Summit 2010 (April 9, 2010), "Importance of medication adherence in cardiovascular disease," Missoula, Montana.
35. Invited faculty, Atherothrombosis e-Journal Club (June 1, 2010), "Delays in Filling Clopidogrel Prescription After Hospital Discharge and Adverse Outcomes After Drug-Eluting Stent Implantation: Implications for Transitions of Care."
36. Invited faculty, VA Optimizing Adherence Summit (July 14, 2010), "Adherence in Primary Care," Chicago, Ill.



37. "Importance of Medication Adherence in CV Disease (September, 2010)," Caduet Symposium, Tokyo, Japan.
38. Invited faculty CERTs Science Group (October 12, 2010), "Delays in Filling Clopidogrel Prescription After Hospital Discharge and Adverse Outcomes After Drug-Eluting Stent Implantation: Implications for Transitions of Care."
39. Invited faculty (October 28-29, 2010), "Medication Adherence: What do we need to do to get people to take their medications?" McLean, VA (Duke sponsored think tank)
40. Invited faculty AHA Scientific Sessions (November 16, 2010), "Why don't patients take their medications," Chicago, Illinois
41. Invited lecturer to graduate course in Clinical Epidemiology (June 25, 2011), "Health status in cardiovascular disease," Denver, Colorado
42. Faculty, VA National Cardiology Meeting, Optimizing Efficiency and Quality of Cardiovascular Care Conference (July 12, 2011), "The association of delays in clopidogrel filling and gaps in subsequent refills with adverse outcomes," Denver, Colorado.
43. Lecturer, University of Colorado, "Clinical trials design: Is the RCT the end all and be all of study designs? (October 12, 2011)" Denver, Colorado
44. Cardiology Research Conference "Value in PCI Care" (February 2013) Denver, Colorado
45. Lecturer, University of Colorado, "Evaluation of the Specialty Care Initiative " (October 21, 2013) Denver, Colorado
46. CERTs meeting on adherence "Translating adherence interventions from research into practice" (March 11, 2014) Rockville, Maryland
47. Society of General Internal Medicine Annual Meeting, "Evaluating the VA Specialty Care Initiatives-Initial results," San Diego, CA April 2014
48. VA HSR&D Center of Innovation Director's Annual Meeting, "Update on the specialty care evaluation center," September 18, 2014, Washington, DC
49. Invited lecture, Oregon Health Sciences University, "Importance of medication adherence in cardiovascular disease, using the learning healthcare system," Portland, Oregon, September 4, 2014.
50. Center for Implementation Research and Prevention Pragmatic Clinical Trials Workshop, "Example of a pragmatic clinical trial," Denver, Colorado September 15, 2014
51. San Francisco VA Medicine Grand Rounds, "Importance of medication adherence in cardiovascular disease, using the learning healthcare system," San Francisco, California, November 4, 2014
52. University of California, San Francisco Cardiology Grand Rounds, "Importance of medication adherence in cardiovascular disease, using the learning healthcare system," San Francisco, California, November 5, 2014
53. VA HSRD /QUERI National Conference 2015, "Veteran Engagement at the Center Level," Philadelphia, Pennsylvania, July 8-10, 2015.
54. VA cyber seminar, "Engaging Veterans in research at the center level," March 17, 2016

55. Denver VA annual research day, "Engaging Veterans in Health Services Research," April 28, 2016
56. China Heart Congress 2016, "Publishing a high quality clinical research paper," August 11, 2016, Beijing, China
57. VA Cyber Seminar, "Lessons Learned from the Specialty Care Evaluation Center," September 28, 2016
58. VA HSRD Career Development Meeting July 2018, Panel on engaging Veterans in research, Salt Lake City, Utah
59. European Society of Cardiology August 2018, "Circulation, Cardiovascular Quality and Outcomes journal," Munich, Germany
60. NIH Collaboratory Grand Rounds January 2019, "Lessons learned from the Personalized Patient Data and Behavioral Nudges to Improve Adherence to Chronic Cardiovascular Medications."
61. Massachusetts General Hospital Cardiology Grand Rounds, January 2019, "Medication adherence: How are our patients doing and how can we help them?", Boston, MA.
62. University of Kansas, Wichita Grand Rounds, May 2019, "Building a learning health system to improve CV disease," Wichita, Kansas
63. University of Michigan MiCHAMP Lecture, October 2019, "NavLab: Lessons from a learning health system." Ann Arbor, Michigan
64. University of Colorado School of Medicine GI Grand Rounds, November 2019, "QI, GI, DOM and You." Aurora, CO
65. VA HSRD Cyber Seminar, "Introduction to the VA Access Core," February 19, 2020,

**COMPLETED GRANTS:**

IIR 14-048 (Caplan)	09/01/16-06/01/20	2.0 calendar
VA HSR&D	\$155,439	1.3 Total Prof. Responsibilities
<i>Secondary Event Prevention using Population Risk Management After PCI and for Anti-Rheumatic Medications (SEPPRMACI-ARM)</i>		

To improve medication adherence rates and the cardiac health of Veterans with ischemic heart disease (IHD), the investigators propose to test a medication adherence intervention consisting of proactive real-time adherence monitoring of patients and targeting of individuals if they have not refilled their medication a given number of days after it was due for refill. Using an escalating-intensity approach, patients receive a combination of personalized text messages and interactive voice response telephone technology, depending on patient preference. Patients not completing SMS and then IVR by not refilling their medications escalate to a trained research interventionist.

Role: Co-Principal investigator

Role: Co-I

Triple Aim QUERI Program (QUE 15-468)

The goal of this program project grant is to improve patient centered care, population health and reduce the costs of VA healthcare. There are 3 projects in this program focused on chronic pain, patients with ischemic heart disease, and patient transitioning back to the VA after hospitalization

Funding period: 10/1/2015-9/30/2020

Funding Agency; VA HSR&D

Total budget: \$4,000,000

Role: Co-PI

Denver-Seattle Center of Innovation for Veteran-centric and Value driven care (HX 13-001)

This is a center grant which provides infrastructure support to conduct research that: 1) promotes Veteran-centered care and improve the patient experience across community and healthcare settings; and 2) advances value-driven care by providing Veterans the highest quality care at lowest financial burden.

Funding Period: 10/1/2018 to 9/30/2023

Funding Agency; VA HSR&D

Total budget: \$5,500,000

Role: PI

Graduate Medical Education Enhancement Grant

VA Office of Academic Affiliations

Funding: Starting 7/1/2011 and continuing indefinitely

Role: PI

A mixed-methods, multi-site evaluation of the implementation of the Veterans Choice Act (PEC 15-240)

The objective of this evaluation is to assess implementation and progress of the Veteran's Choice Act

Funding period: 4/1/2015-12/30/2015

Total budget: \$417,000

Role: PI

Ischemic Heart Disease Quality Enhancement Research Initiative (QUERI)

Funding Period: 10/1/2014 to 9/30/2015

Total budget: \$550,000

Role: Co-investigator (PI: George Jackson, PhD)

Randomized Trial of Titrated Disease management for Patients with Hypertension

VA HSR&D

Funding period: 10/1/2011-9/30/9/30/2015

Total budget:

Role: Principal investigator

Pilot intervention to improve clopidogrel adherence after DES implant (RRP 09-162)

VA Quality Enhancement Research Initiative (QUERI)

Funding period: 3/2010-2/2011

Total budget: \$100,000

Role: Principal Investigator

Patient centered adherence intervention after ACS hospitalization (IIR 08-302-2)

VA Health Services Research and Development

Funding period: 10/1/2009-9/30/2012

Budget: \$898,000

Role: Co-investigator (Principal investigator: Stephan D. Fihn, MD, MPH)

Predictors and Outcomes of In-Hospital Acute Myocardial Infarction, VA Clinical Sciences Research and Development (5% effort) (EPID-006-07)

Funding period: 2009-2012

Annual costs: \$149,000 Total budget:\$449,100

Role: Consultant (Principal investigator: Richard Platt, MD)

DEcIDE

Distributed Research Network Infrastructure to Support Studies of Comparative Effectiveness – Phase II (DRN2)

AHRQ

Funding period: 09/01/2009-08/31/2011

Budget: \$100,961 (Year 1)

Role: Expert panel member  
Validating and Classifying VA Readmissions for Quality Assessment and Improvement IIR  
VA HSR&D (IIR 09-369-2)  
PI: Ann Borzecki and Amy Rosen

Role: Principal Investigator  
Pilot Intervention to Improve Dabigatran Adherence (RRP 11-424)  
VA QUERI  
Funding period: 2012-2013  
Total budget: \$100,000

Role: Principal Investigator  
Pilot intervention to improve the transition from hospital to home (RRP-242)  
VA QUERI  
Funding period: July 1, 2011-June 30, 2012  
Total budget: \$100,000

Role: Co-investigator (PI: Thomas T. Tsai, MD, MSc)  
Veterans Exposure to Radiation in the Cardiac Catheterization Laboratory  
VA QUERI  
Funding period: July 1, 2011-June 30, 2012  
Total budget: \$100,000

Role: Co-investigator (PI: David J. Magid, MD, MPH)  
Comparative effectiveness research and evidence development in DEClDE-2 Consortia: Effectiveness of medical therapy, endovascular therapy or surgery for peripheral arterial disease (HHSA290201000008I)  
Agency for Health Care Research and Quality  
Funding period: 10/1/2010-9/30/2013  
Total budget: \$2,393,869

Role: Consultant (PI: Alan S. Go, MD)  
Mental Health Disorders and Medication Adherence and Outcomes in Hypertension, Atrial Fibrillation and Venous Thromboembolism within the CVRN (U19 HL091179 CVRN ARRA-funded Administrative Supplement)  
NHLBI  
Funding period: 9/30/10-9/29/2011  
Total budget: \$1,242,378

Role: Principal Investigator  
Improve medication adherence after ACS hospitalization  
VA Health Services Research and Development Career Development Transition Award (RCD 05-026-1)  
Funding period: 7/1/2009-6/30/2011  
Budget: \$440,000

Role: Consultant (Principal Investigator: Nilay Shah, PhD)  
Optimizing Treatment for Diabetes Patients (R21 HS 17628-01)  
Agency for Healthcare Research and Quality  
Funding period: 08/2008-07/2010  
Total budget: \$290,518

Role: Co-investigator (Principal investigator: David J. Magid, MD, MPH)  
Hypertension Recognition, Treatment and Control in Community Practice (U19 HL091179)  
Agency for Healthcare Research and Quality  
Funding period: 9/2007-9/2009  
Total Budget: \$1,078,484

Role: Principal investigator

Improving hypertension outcomes among IHD patients, VA Health Services Research and Development Career Development Award (RCD 05-026-2) (75% effort)

Funding period: 7/2006-6/2009

Annual costs: \$220,000      Total budget: ~\$660,000

Role: Principal investigator

Improving hypertension outcomes among coronary artery disease patients, American Heart Association Scientist Development Grant (0535086N) (10% effort)

Funding period: 7/2005-6/2009

Annual costs: \$65,000      Total budget: \$260,000

Role: Co-principal investigator (Principal investigator: Edward P. Havranek, MD)

Improving blood pressure in Colorado, Colorado Department of Public Health and Environment (99) (10% effort)

Funding period: 3/2006-6/2008.

Annual cost: \$175,000      Total budget \$1,400,000

Role: Co-principal investigator (Principal investigator: David J. Magid, MD, MPH)

Collaborative Research on the Clinical Effectiveness and Long-term Outcomes of Stents in Coronary Interventions (HHS290200500331)

Agency for Healthcare Research and Quality

Funding period: 9/2007-8/2009

Total Budget: \$497,263

Role: Co-investigator (Principal investigator: Spero Manson, PhD)

Healing Hearts Study (1R01HL073824-02)

NHLBI (10% effort)

Funding period: 1/2007-6/2009

Total budget: \$4,210,890

Role: Co-investigator (Principal investigator: David J. Magid, MD, MPH)

Comparative effectiveness and safety of second-line anti-hypertensive agents, (HHS290200500331)

Agency for Healthcare Research and Quality

Funding period: 9/2007-4/2009

Total budget: \$1,400,000

Role: Co-investigator (Principal investigator: David J. Magid, MD, MPH)

Longitudinal Outcomes following Drug Eluting Stent Implantation (U18 HS016955)

Agency for Healthcare Research and Quality

Funding period: 10/2007-9/2008

Total budget: \$255,564

Role: Co-investigator (Principal investigator: David J. Magid, MD, MPH)

Adherence and hypertension outcomes

Pfizer Inc.

Funding period: 1/2007-6/2008

Total budget: \$174,101

Role: Consultant

National Emergency Department Safety Study

National Institutes of Health

Funding period: 2006-2007

Budget \$150,791

Role: Co-investigator

Medical Management of Congestive Heart Failure and the Effectiveness of Isosorbide Dinitrate. Agency for Healthcare Research and Quality (290-05-0037-1)

Funding period: 2005-2006

Role: Principal Investigator

Improving hypertension outcomes in cardiac patients

Agency for Healthcare Research and Quality (1 K08 HS014794-01A1) *Awarded but declined because it was overlapping with the VA Health Services Research and Development Career Development Award.*

Role: Principal investigator

Quality of life and cognitive outcomes following valve surgery

American Medical Association Foundation Seed Grant.

Funding Period: 2004

Role: Principal investigator

Evaluating reasons for variations in LDL levels, National Institute of Health (NHLBI).

Individual National Research Service Award (HL69596-01)

Funding Period: 2001-2003

Budget: \$100,052

Role: Research/post-doctoral fellow

NIH Training Grant.

National Institute of Health

Funding Period: 2000-2001