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University of Michigan Medical School
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Education and Training

- 08/1985-04/1989 BSN (Bachelor of Science in Nursing, Suma Cum Laude),
University of Mary, Bismarck, ND
- 09/1991-06/1997 Ph.D. (Health Services Research, Policy and Administration),
University of Minnesota, Minneapolis, MN Dissertation: Rural
hospitals and rural health clinics: The influence of market and
institutional forces. June 1997. Advisor: Jon C. Christianson, PhD

Certification and Licensure

Nursing Licensure: Registered Nurse, State of Michigan, 1997 – present

Academic, Administrative, and Clinical Appointments

- 07/1989-06/1991 Critical Care/Transplant Staff Nurse, St. Mary's Hospital,
Rochester, MN
- 09/1991-05/1992 Graduate Assistant, Division of Health Services Administration,
University of Minnesota, Minneapolis, MN
- 06/1992-09/1992 Research Assistant, "The Use of Psychotropic Drugs in Nursing
Homes," University of Minnesota, Institute for Health Service
Research, Minneapolis, MN
- 09/1992-09/1993 Research Assistant, "Diabetes PORT," University of Minnesota,
Institute for Health Services Research , Minneapolis, MN
- 09/1993-06/1997 Research Assistant, University of Minnesota Rural Health
Research Center, Institute for Health Services Research,
Minneapolis, MN

08/1997-present	Research Health Science Specialist, Research Investigator, VA Ann Arbor Health Services Research and Development Center of Excellence, VA Ann Arbor Healthcare System, Ann Arbor, MI
11/1998-06/2001	Adjunct Research Associate, Division of General Medicine, Department of Internal Medicine, University of Michigan, Ann Arbor, MI
06/2001-09/2006	Research Investigator, Division of General Medicine, Department of Internal Medicine, University of Michigan, Ann Arbor, MI
09/2006-present	Research Assistant Professor, Division of General Medicine, Department of Internal Medicine, University of Michigan, Ann Arbor, MI
06/2007-present	Adjunct Research Assistant Professor, School of Nursing, University of Michigan, Ann Arbor, MI

Research Interests

1. Chronic Illness Care and Complex Chronic Disease
2. Chronic Pain
3. Organizational Behavior
4. Health Economics

Grants

Present and Active

VA Cooperative Studies Program (CSP 465)
 Glycemic Control and Complications in Diabetes Mellitus Type 2
 Principal Investigator: R. Hayward (PI economic analysis subcontract)
 07/01/00 – 06/30/2008
 Role: Health Economist

NIH/NIDDK (5 P50 DK 20572).
 Michigan Diabetes Research Training Center.
 Principal Investigator: W Herman
 12/1/2002-11/30/2007(original grant period), 1/12/2007-2/1/2008 (interim), & 2/1/2008-11/30/2013 (continuation) Total award TBD
 Role: Co-Investigator/Health Economist

VA Health Services Research and Development (DIB 98-001).
 Quality Enhancement Research Initiative – Diabetes Mellitus.
 Principal Investigator: Eve Kerr

10/1/2004-9/30/2008. Total award \$1,400,000

Role: Co-Investigator

VA Health Services Research and Development Merit Program (SAF 04-031)

Translating Infection Prevention Evidence to Enhance Patient Safety

Principal Investigator: S. Krein (co-Principal Investigator: S. Saint

10/01/2004 – 3/31/2008. Total award \$799,655

Role: Principal Investigator

VA Health Services Research and Development Merit Program (IIR 03-254)

Diabetes Telemedicine Consultation: A Systems Improvement Intervention

Principal Investigator: D. Aron

4/01/2005 - 03/31/2009. Total award \$738,000

Role: Co-investigator/Health Economist

VA Rehab Research and Development Merit Program (E03-3362R)

Aerobic Performance, Mobility Limitations and Exercise in Older Adults With Diabetes

Principal Investigator: C. Blaum

05/01/2005 - 04/30/2008. Total award \$714,451

Role: Co-investigator/Health Economist

NIH RO1 CA106773

The Effect of Patient Adherence on the Cost-Effectiveness of Screening for Colorectal Neoplasia

Principal Investigator: J. Inadomi

8/16/2006 --7/31/2010

Role: Co-Investigator/Health Economist

VA Health Services Research and Development (SDP 06-003)

Inpatient Patient Smoking Cessation: Bringing the Program to the Smoker

Principal Investigator: S. Duffy

10/01/2006 – 09/30/2009. Total award \$655,100

Role: Co-investigator/Health Economist

VA Health Services Research and Development (SDP 06-128).

Adherence and intensification of medications: a population-based clinical pharmacist implementation study among hypertensive diabetes patients.

Principal Investigator: M Heisler

7/1/2007-6/30/2010. Total award \$829,100

Role: Co-Investigator/Health Economist

NIDDK (1 R 18DK076622).

Improving adherence and intensification of medications among diabetes patients.

Principal Investigator: E. Kerr

8/1/2007–7/31/2011. Total award \$2,179,092

Role: Co-Investigator/Health Economist

VA Health Services Research and Development Merit Award (IIR 06-253)
Improving quality measurement using quality-adjusted life-years
Principal Investigator: S. Vijan
4/01/2008 – 3/31/2011. Total award \$411,200
Role: Co-Investigator/Health Economist

Pending Research Support

NIH/NINR 1R01NR010700 – 01 (priority score 137, percentile: 8.1)
Implementing Evidence to Prevent Urinary Infection and Enhance Patient Safety
Principal Investigators: S. Krein and S. Saint (multiple PI mechanism)
7/01/2008 – 6/30/12. Total award requested: \$1,867,076
Role: Principal Investigator

VA Health Services Research and Development Merit Award (IIR 07-177)
Veterans Walk to Beat Back Pain
Principal Investigator: S. Krein (co-Principal Investigator: C. Richardson)
Role: Principal Investigator

VA Cooperative Studies Program (CSP 465)
VA Diabetes Trial Follow-up Study
Principal Investigator: R. Hayward
06/01/08 – 05/31/2013
Role: Health Economist

Summary of Major Previous Grants (partial list)

VA Health Services Research and Development Merit Award (IIR 97-077)
Proactive Diabetes Case Management
Principal Investigator: S. Krein (co-Principal Investigator: R. Hayward)
09/01/1998 – 08/31/2002
Role: Principal Investigator

VA Health Services Research and Development (TRH 01-031)
A Customfit Approach to Guideline Implementation
Principal Investigator: J. Lowery (co-Principal Investigator: S. Krein)
07/01/2001 – 3/31/2003
Role: Co-Principal Investigator

VA Health Services Research and Development (SDR 01-019)
Translating Research Into Practice for Diabetes in the VA
Principal Investigator: R. Hayward & E. Kerr
03/01/2001 – 2/28/2004
Role: Co- Investigator

NIH/NIDDK R18 DK62323-01
Evaluating Nurse-Managed Collaborative Diabetes Care
Principal Investigator: B. Anderson
08/01/2002 – 07/31/2006

Role: Co-Investigator/Health Economist
VA Health Services Research and Development (DIT 02-064)
An Evaluation of a Coordinated Proactive Eye Care Program
Principal Investigator: R. Hayward & S. Bernstein
01/01/2004 – 12/31/2005
Role: Co-Investigator/Health Economist

VA Health Services Research and Development Merit Program (IIR 02-225).
Addressing Barriers to Translation for Treatment of Hypertension.
Principal Investigator: E. Kerr (co-Principal Investigator: T. Hofer)
3/1/2004-2/28/2008. Total award \$1,256,563
Role: Co-Investigator

Honors and Awards

1985-1989	Presidential Laureate Scholarship Recipient
1989	Sigma Theta Tau (nursing honor society)
1998	Special Contribution Award, Department of Veterans Affairs

Memberships in Professional Societies

Current Memberships

AcademyHealth
International Health Economics Association (iHEA)
Association for Professionals in Infection Control and Epidemiology, Inc. (APIC)

Editorial Positions, Boards, and Peer Review Service

Study Sections

2004	Ad-hoc member of the Centers for Disease Control and Prevention Public Health Research Peer Review Panel
2004, 2005	Ad-hoc member of the VA HSR&D Scientific Merit Review Board
2005	Ad-hoc member of the Centers for Disease Control and Prevention Special Emphasis Panel (SEP) for Program Announcement Ci-5-006
2006	Ad-hoc member of the VA HSR&D General Health Services Scientific Merit Review Board
2007	Ad-hoc member of the VA HSR&D Health Services Methodology Scientific Merit Review Board

Reviewer

1996-2003	Journal of Rural Health
1999	Journal of the American Medical Association (JAMA)
2000	Health Services Research (HSR)
2002	Canadian Medical Association Journal
2003	Journal of the National Medical Association, Health Care Financing Review
2003-present	Diabetes Care
2003-present	Medical Care
2003-present	American Journal of Managed Care
2004	Archives of Internal Medicine
2006-present	Journal of General Internal Medicine
2006-present	Implementation Science
2007-present	Infection Control and Hospital Epidemiology

Teaching

09/1993-12/1993	Teaching Assistant, University of Minnesota, Institute for Health Services Research
1997-present	Presenter and Seminar Participant, University of Michigan General Medicine Weekly Research Conference (present 1 conference per year)
1997-present	Presenter and Seminar Participant, Ann Arbor VA Center of Excellence Research Conference (present 1 conference every 1-2 years)
2001-2002	Mentor: Michele Heisler, MD, MPA, University of Michigan Robert Wood Johnson Clinical Scholar and Lecturer, University of Michigan Department of Medicine on use of multi-level modeling techniques
2005-2006	Co-Mentor: Jennifer Hefner, pre-doctoral student, University of Michigan School of Public Health
2006	Seminar: "Frameworks for Understanding and Implementing Quality Improvement Interventions: An Organizational Perspective." University of Michigan Robert Wood Johnson Foundation Clinical Scholars Program. March 2006 and December 2006
2005-2006	Mentor: John Hollingsworth, MD, Department of Urology, University of Michigan Medical School on quantitative methods for practicum

- 2006-2007 Mentor: Crista Johnson, MD, University of Michigan Robert Wood Johnson Clinical Scholar and Lecturer, Obstetrics & Gynecology, University of Michigan Medical School on quantitative methods
- 2007 - Mentor: Pat Rouen, PhD candidate, University of Michigan School of Nursing
- 2007 Seminar: “Understanding and Implementing Quality Improvement Interventions in Healthcare Organizations.” University of Michigan Robert Wood Johnson Foundation Clinical Scholars Program. November 2007

Committee, Organizational, and Volunteer Service

Institutional

- 1998 – present Co-director Diabetes QUERI Research Coordinating Center
- 2000 – 2004 VA-University of Michigan-Trinity Health Evidence-Based Practice Conference Planning Committee
- 2007 – present VA Ann Arbor Research and Development Committee member

Regional

- 2000 – present National Kidney Foundation of Michigan Community Health Initiatives Advisory Committee
- 2001 – present VA VISN 11 Care Management Committee
- 2002 – 2004 Michigan Department of Community Health, Diabetes Prevention and Control Program, Strategic Planning Task Force/Steering Committee
- 2004 – 2007 Michigan Department of Community Health, Diabetes Partners in Action Coalition Board of Directors

National

- 1998 – present Quality Enhancement Research Initiative – Diabetes Mellitus (diabetes QUERI) Executive Committee, Veterans Health Administration
- 2002 VA Health Care Atlas Steering Committee
- 2006 – present Quality Enhancement Research Initiative – Stroke Executive Committee Member, Veterans Health Administration
- 2006 – present VA Health Economics Resource Center, Steering Committee member

Visiting Professorships, Seminars, and Extramural Invited Presentations

Extramural Invited Presentations

“QUERI-DM: A Clinical/Research Partnership to Enhance Diabetes Care for Veterans.”
Invited presentation, VA Diabetes Educators Specialty Practice Group, Orlando, FL,
August 16, 1999.

“QUERI: Translating Research into Practice.” Invited presentation, VA Diabetes Educators Specialty Practice Group, San Diego, CA, August 8, 2000.

“Proactive Diabetes Case Management: Translating Research into Practice.” Invited presentation, Evidence-Based Practice 2001 – Clinical Relevance and Practice Realities, Ann Arbor, MI, March 23, 2001.

“Diabetes Care Management: Example VA Ann Arbor Healthcare System.” Invited presentation, VA Diabetes Educators Specialty Practice Group, Louisville, KY, August 13, 2001.

“Use of Electronic Medical Record Data and Automated Clinical Databases For System-wide Quality Improvement” Invited presentation as part of panel session on Informatics Strategies to Support Evidenced-based Practice at the Information Technology Conference/ Office of Information, Austin, TX, August 6, 2003.

“Measuring Outcomes of a Case Management Program”. Invited presentation, VISN 11 Primary Care Case Management Conference, Kalamazoo, MI, November 4, 2004.

“Step by Step through the QUERI Process: Improving Diabetes Eye Care.” Invited presentation as part of panel session on Lessons Learned from VA Implementation Research. AcademyHealth 2005 Annual Research Meeting, Boston, MA, June 27, 2005.

“Moving Evidence from the Journals to the Patient’s Bedside: Translating Infection Prevention Evidence to Enhance Patient Safety (TRIP).” Invited presentation at the Michigan Society for Infection control (MSIC) Spring Conference, Lansing, MI, April 20, 2006.

Other Presentations

"The Employment and Use of Nurse Practitioners and Physician Assistants By Rural Hospitals," Paper presented at the National Rural Health Association Conference, Minneapolis, MN, May 1996.

“Rural Hospitals and Rural Health Clinics,” Poster presentation at the National Rural Health Association Conference, Seattle, WA, May 1997.

“VHA’s Quality Enhancement Research Initiative for Diabetes Mellitus (QUERI-DM),” Poster presented at the 1st Annual National VA Diabetes Symposium, Washington, D.C., March 1999.

“Michigan Diabetes Outreach Networks (MDONs): Evaluating the Impact on Care Process and Patient Outcomes,” Paper presented at the CDC Diabetes Translation Conference, Albuquerque, NM, April 1999.

“Michigan Diabetes Outreach Networks (MDONs): A Public Health Approach to Improve Diabetes Care and Outcomes,” Poster presented at the Association for Health Services Research 16th annual meeting, Chicago, IL, June 27, 1999.

“Examining Variation at Provider, Team and Facility Level for Performance Indicators Related to Diabetes Care,” Oral presentation at the HSR&D Service 18th Annual Meeting, Washington, D.C., March 23, 2000.

“Aspirin Use and Counseling About Aspirin Among Patients With Diabetes in VA” Krein SL, Kerr EA, Smith DM, Hogan MM, Hayward RA. Poster presented at the HSR&D Service 19th Annual Meeting, Washington, D.C., February, 15-16, 2001.

“Proactive Diabetes Case Management: Expectation Versus Reality” Krein SL, Klamerus ML, Vijan S, Pawlow A, Reeves P, Hayward, RA. Poster presented at the HSR&D Service 20th Annual Meeting, Washington, D.C., February, 14-15, 2002.

“Case Management: Is it Meeting Expectations?” Krein SL, Klamerus ML, Vijan S, Lee J, Fitzgerald T, Hayward, RA. Poster presented at the Academy for Health Services Research and Policy Annual Research Meeting, Washington, D.C., June, 25, 2002.

“Chronic Pain and Self-management Among Veterans with Diabetes.” Krein SL, Heisler M, Piette JD, Makki F, Kerr EA. Poster presented at the VA HSR&D Service 22nd Annual Meeting, Washington, D.C., March 10, 2004.

“Does Self-Efficacy Mediate the Influence of Chronic Pain on Patients’ Self-Care Adherence?” Krein SL, Heisler M, Piette JD, Butchart A, Kerr EA. Poster presented at the VA HSR&D Service National Meeting, Arlington, VA, February 16, 2006.

“Adoption of Infection Prevention Practices by VA and non-VA Hospitals.” Krein SL, Hofer T, Kowalski C, Saint S. Poster presented at the VA HSR&D Service National Meeting, Arlington, VA, February 16, 2006.

“Adoption of Device-Related Infection Prevention Practices by U.S. Hospitals.” Krein, SL, Hofer T, Kowalski C, Banaszak-Holl J, Saint S. Poster presented at the AcademyHealth 2006 Annual Research Meeting, Seattle, WA, June 26, 2006.

“How QUERI Process Facilitates Collaboration: Focusing on Chronic Pain.” Krein, S. and Ullrich, P. VA HSR&D QUERI Cyberseminar, May 3, 2007

“What Practices Are U. S. Hospitals Using to Prevent Hospital-Acquired Urinary Tract Infection and Why? A Mixed-Methods Study.” Saint S, Kowalski C, Krein S. Poster presented at the VA HSR&D Service National Meeting, Baltimore, MD, February 14, 2008.

“Preventing Ventilator-Associated Pneumonia in U. S. Hospitals: A Mixed-Methods Study.” Krein SL, Kowalski C, Kaufman S, Forman J, Damschroder L, Saint, S. Oral presentation at the 18th Annual Scientific Meeting of the Society for Healthcare Epidemiology of America (SHEA), Orlando, FL, April 7, 2008.

Bibliography

Peer-Reviewed Journals and Publications

1. Yawn, B., Wellever, A., Hartley, D., Casey, M., Krein, S., and Moscovice, I. Availability of rural Minnesota obstetric services: Is it a problem? The Journal of Rural Health. 1995; 11(3): 192-203
2. Krein, S. The employment and use of nurse practitioners and physician assistants by rural hospitals. The Journal of Rural Health. 1997; 13 (1): 45-58
3. Krein, S. L., Christianson, J. C., and Chen, M. The composition of rural hospital medical staffs: The influence of hospital neighbors. The Journal of Rural Health. 1997; 13 (4): 306-319
4. Yawn, B., and Krein, S. Rural enrollment in MinnesotaCare. Minnesota Medicine. 1997;80 (4): 42-49
5. Yawn, B., Krein, S., Christianson, J., Hartley, D., and Moscovice, I. Rural radiology: Who is producing images and who is reading them? The Journal of Rural Health. 1997; 13 (2): 136-144
6. Moscovice, I., Casey, M., and Krein, S. Rural managed care: Patterns and prospects. Health Affairs. 1998; 17 (1): 172-179
7. Krein, S., and Casey, M. Research on managed care organizations in rural communities. The Journal of Rural Health. 1998; 14(3): 180-199
8. Christianson, J., and Krein, S. NorthMed HMO. The Journal of Rural Health. 1998; 14(3): 233-243.
9. Krein, S. L. The adoption of provider-based rural health clinics by rural hospitals: A study of market and institutional forces. Health Services Research. 1999; 34(1): 33-60.
10. Krein, S. L., Hayward, R.A., Pogach, L., and BootsMiller, B.J. Department of Veterans Affairs Quality Enhancement Research Initiative for Diabetes Mellitus. Medical Care. 2000; 38(6): I38-I48.
11. Krein, S.L., and Klamerus, M. Michigan diabetes outreach networks: a public health approach to strengthening diabetes care. Journal of Community Health. 2000, 24(6): 495-511.

12. Kerr, E.A., Krein, S.L., Vijan, S., Hofer, T.P., and Hayward, R.A. Avoiding pitfalls in chronic disease quality measurement: A case for the next generation of technical quality measures. The American Journal of Managed Care. 2001, 7(11): 1033-1043.
13. Krein, S.L., Hofer, T.P., Kerr, E.A., and Hayward, R.A. Whom should we profile? Examining diabetes care practice variation among primary care provider, provider teams and healthcare facilities. Health Services Research. 2002, 37(5): 1159-1180.
14. Krein, S.L., Vijan, S., Pogach, L.M., Hogan, M.M., and Kerr, E.A. Aspirin use and counseling about aspirin among patients with diabetes. Diabetes Care. 2002, 24(6): 965-970.
15. Kerr E.A., Smith D.M., Hogan M.H., Krein S.L., Pogach L., Hofer T.P., and Hayward R.A. Comparing diabetes quality measures derived from different data sources. Joint Commission Journal on Quality Improvement. 2002; 28(10): 555-565.
16. Heisler, M., Smith D.M., Hayward R.A., Krein, S.L., and Kerr E.A. How well do patients' own assessments of their diabetes self-management correlate with actual glycemic control and receipt of recommended diabetes services? Diabetes Care. 2003;26(3):738-743.
17. Heisler, M., Smith, D.M., Hayward, R.A., Krein, S.L., and Kerr, E.A. Racial disparities in diabetes care processes, outcomes, and treatment intensity. Medical Care. 2003;41(11):1221-1232.
18. Kerr, E.A., Smith, D.M., Hogan, M.H., Hofer, T.P., Krein, S.L., Bermann, M., and Hayward, R.A. Building a better quality measure: Are some patients with "poor quality" actually getting good quality care? Medical Care. 2003;41(10):1173-1182.
19. Hayward, R.A., Hofer, T.P., Kerr, E.A., and Krein, S.L. Quality improvement initiatives: issues in moving from diabetes guidelines to policy. Diabetes Care. 2004; 27(S2):B54-B60
20. Krein, S.L., Klamerus, M.L., Vijan, S., Lee, J.L., Fitzgerald, J.T., Pawlow, A., Reeves, P. and Hayward, R.A. Case management for patients with poorly controlled diabetes: A randomized trial. American Journal of Medicine. 2004;116(11): 732-739.
21. Kerr, E.A., Gerzoff, R.B., Krein, S.L., Selby, J.V., Piette, J.D., Curb, J.D., Herman, W.H., Marrero, D.G., Narayan, K.M.V., Safford, and M.M. Mangione, C.M. A Comparison of Diabetes Care Quality in Veterans Affairs and Commercial Managed Health Care Systems: Results from the TRIAD Study. Annals of Internal Medicine. 2004;141(4): 272-281.
22. Krein, S.L., Heisler, M., Piette, J.D., Makki, F., Kerr, E.A. The effect of chronic pain on diabetes patient's self-management. Diabetes Care. 2005;28(1):65-70.

23. Jackson, G. L., Yano, E. M., Edelman, D., Krein, S. L., Ibrahim, M. A., Carey, T. S., Lee, S.Y. D., Hartmann, K. E., Dudley, T. K., & Weinberger, M. (2005). Veterans affairs primary care organizational characteristics associated with better diabetes control. American Journal of Managed Care. 2005;11(4):225-237.
24. Choe, H.M., Mitrovich S., Dubay D., Hayward R.A., Krein S.L., Vijan S. Proactive case management of high-risk patients with type 2 diabetes by a clinical pharmacist. American Journal of Managed Care. 2005;11(4):253-260.
25. Piette, J.D., Heisler, M., Krein, S.L., Kerr, E.A. The Role of Physician Trust as a Buffer Against Medication Non-Adherence Due to Cost Pressures. Archives of Internal Medicine. 2005;165:1749-1755.
26. Krein, S.L., Olmsted, R.N., Hofer, T.P., Kowalski, C., Forman, J., Banaszak-Holl, J., Saint S. Translating infection prevention evidence into practice using quantitative and qualitative research. AJIC: American Journal of Infection Control. 2006;34(8): 507-12.
27. Krein, S.L., Bingham, C.R., McCarthy, J.F., Mitchinson, A., Payes, J., Valenstein, M. Diabetes treatment among VA patients with comorbid serious mental illness. Psychiatric Services. 2006;57(7): 1016-1021.
28. Johnston MV, Pogach L, Rajan M, Mitchinson A, Krein SL, Bonacker K, Reiber G. Personal and treatment factors associated with foot self-care among veterans with diabetes. J Rehab Research and Development. 2006;43(2):227-38.
29. Kim, C., Kerr, E.A., Bernstein, S., Krein S.L. Gender disparities in lipid management: the presence of disparities depends on the quality measure. American Journal of Managed Care. 2006;12:133-136.
30. Olmsted, R.N., Kowalski, C.P., Krein, S.L., Saint, S. Reading habits of infection control coordinators in the United States: peer-reviewed or non peer-reviewed evidence? AJIC: American Journal of Infection Control. 2006;34:616-20.
31. Krein, S.L., Funnell, M.M., Piette. Economics of Diabetes. Nursing Clinics of North America 2006;41:499-511.
32. Madigan, M., Smith-Wheelock, L., Krein, S.L. Healthy hair starts with a healthy body: using hair stylists as lay health advisors to prevent chronic kidney disease in eight Michigan cities. Preventing Chronic Disease 2007;4(3) available from: http://www.cdc.gov/pcd/issues/2007/jul/06_0078.htm
33. Kupersmith, J., Francis, J., Kerr, E., Krein, S., Pogach, L., Kolodner, R.M., Perlin, J.B. Advancing Evidence-Based Care in Diabetes through Health Information Technology: Lessons from the Veterans Health Administration. Health Affairs 2007;26:W156-W168.

34. Krein, S.L., Heisler, M., Piette, J.D., Butchart, A., Kerr, E.A. Overcoming the Influence of Chronic Pain on Older Patients' Difficulty With Recommended Self-Management Activities. The Gerontologist 2007;47(1):61-68.
35. Hollingsworth, J.M., Hollenbeck, B.K., Englesbe, M., DeMonner, S., Krein, S.L. Operative mortality after renal transplantation: does surgeon type matter? The Journal of Urology 2007;177:2255-2259.
36. Krein, S.L., Hofer, T.P., Kowalski, C., Olmsted, R.N., Kauffman, C.A., Forman, J., Banaszak-Holl, J., Saint, S. Are U.S. hospitals applying evidence to prevent central venous catheter-associated bloodstream infection? Mayo Clinic Proceedings 2007;82(6):672-678.
37. Hollingsworth, J.M., Krein, S.L., Miller, D.C., DeMonner, S., Hollenbeck, B.K. Payer leverage and hospital compliance with a benchmark: A population-based observational study. BMC Health Services Research 2007, 7:112.
38. Kerr, E. A., Heisler, M., Krein, S.L., Kabeto, M., Langa, K.M., Weir, D., Piette, J.D. Beyond Comorbidity Counts: How Do Comorbidity Type and Severity Influence Diabetes Patients' Treatment Priorities and Self-Management? Journal of General Internal Medicine 2007;22(12):1635-40.
39. Green, L.A., Wyszewianski, L., Lowery, J.C., Kowalski, C.P., Krein, S.L. An Observational study of the effectiveness of practice guideline implementation strategies examined according to physicians' cognitive styles. Implementation Science 2007, 2(1):41
40. Saint, S., Kowalski, C.P., Kaufman, S.R., Hofer, T.P., Kauffman, C.A., Olmsted, R.N., Forman, J., Banaszak-Holl, J., Damschroder, L., Krein, S.L. Preventing Hospital-Acquired Urinary Tract Infection in the United States: A National Study. Clinical Infectious Diseases 2008; 46: 243-40.
41. Krein, S.L., Bernstein, S.J., Fletcher, C.E., Makki, F., Goldzweig, C.L., Watts, B., Vijan, S., Hayward, R.A. QUERI Series: Improving eye care for veterans with diabetes: an example of using the QUERI steps to move from evidence to implementation. Implementation Science 2008, 3:18.
42. Hollingsworth, J.M., Krein, S.L., Dunn, R.L., Wolf, J.S., Hollenbeck, B.K. Understanding Variation in the Adoption of a New Technology in Surgery. Medical Care 2008; 46(4):366-371.
43. Mitchinson, A.R., Kerr, E.A., Krein, S.L. Management of Chronic Non-Cancer Pain by VA Primary Care Providers: When Is Pain Control a Priority? American Journal of Managed Care 2008; 14: 77-84.
44. Saint, S., Kowalski, C.P., Forman, J., Damschroder, L., Hofer, T.P., Kaufman, S.R., Creswell, J.W., Krein, S.L. Preventing Hospital-Acquired Urinary Tract Infection in U.S.

Hospitals: A Multi-Center Qualitative Study. Infection Control and Hospital Epidemiology 2008; 29:333-341

45. Forman, J, Creswell, J.W., Damschroder, L, Kowalski, C.P., Krein, S.L. Qualitative Research Methods: Key Features and Insights Gained by Use in Infection Prevention Research. American Journal of Infection Control (in press)

Articles submitted for Publication

1. Maciejewski, M.L., Bryson, C.L., Perkins, M., Blough, D.K., Cunningham, F.E., Fortney, J.C., Krein, S.L., Stroupe, K.T., Liu, C.F. Health and Economic Effects of Increasing Medication Copayments for Veterans with Diabetes and/or Hypertension
2. Hollingsworth, J.M., Ye, Z., Krein, S.L., Weizer, A.Z., Hollenbeck, A.T., Hollenbeck, B.K. Physician Ownership of Ambulatory Surgery Centers and Utilization
3. Butchart, A., Kerr, E.A., Heisler, M., Piette, J.D., Krein, S.L. Experience and management of chronic pain among complex primary care patients

Letters to the editor

1. Krein, S.L., Vijan, S., Choe, H.M., Hayward, R.A. Quality improvement strategies for type 2 diabetes. *JAMA* 2006;296(22):2680.
2. Krein, S.L., Saint, S. Bloodstream Infection Prevention Practices (reply). *Mayo Clinic Proceedings* 2007;82(10): 1291.

Dissertation

Krein, S. L. Rural hospitals and rural health clinics: The influence of market and institutional forces. University of Minnesota, Minneapolis, MN, June 1997. Advisor: Jon C. Christianson, PhD

Non Peer-Reviewed Publications

1. Casey, M., Krein S., Connor R. , Wellever A., and Yawn B. Literature review and policy analysis of primary care workforce options in rural areas, prepared under contract to the Agency For Health Care Policy and Research, Contract No. 282-93-0037 (DO #2), AHCPR Rural Center, University of Minnesota, Institute for Health Services Research, March 1995
2. Wellever, A., Casey, M., Krein, S., Yawn, B., and Moscovice, I. Rural physicians and HMOs: An uneasy partnership. Rural Health Research Center Working Paper Series #17, University of Minnesota, Institute for Health Services Research, December, 1996
3. Moscovice, I., Wellever, A., and Krein, S. Rural health networks: Forms & function. Rural Health Research Center, Division of Health Services Research and Policy, School of Public Health, University of Minnesota, Minneapolis, MN, September 1997

Published Abstracts (partial listing)

1. Heisler M, Smith DM, Krein SL, Kerr EA. Do patients' self-reported diabetes management and sociodemographic characteristics matter for receipt of diabetes services and disease control? *J Gen Intern Med* April 2002; 17(Supplement 1):161.
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