

**CURRICULUM VITAE**  
**IRINA VALERIEVNA HALLER, PhD, MS**

**OFFICE ADDRESS:**

Essentia Institute of Rural Health  
Essentia Health  
502 East Second Street  
Duluth, MN 55805

**PRESENT POSITION:**

2010- Senior Research Scientist II, Essentia Institute of Rural Health (EIRH), Duluth, MN

**PAST POSITIONS:**

1988 - 1990 Computer programmer/Statistical support specialist, Laboratory of Neurophysiology of Thermoreception and Heat Exchange, Petrozavodsk State University, Petrozavodsk, Russian Federation (RF)

1990 - 1993 Junior Researcher, Laboratory of Neurophysiology of Thermoreception and Heat Exchange, Petrozavodsk State University, Petrozavodsk, RF

1991 Visiting scientist, Department of Physiology, University of Minnesota, School of Medicine, Duluth, MN

1994 Visiting scientist, Department of Physiology, University of Minnesota, School of Medicine, Duluth, MN

1993 - 1996 Research Associate, Laboratory of Neurophysiology of Thermoreception and Heat Exchange, Petrozavodsk State University, Petrozavodsk, RF

1997 - 2000 Graduate Research Assistant, Large Lakes Observatory, University of Minnesota, Duluth, MN

2000 - 2002 Statistical Programmer/Analyst, Division of Education and Research, Duluth Clinic, Duluth, MN

2002 - 2004 Biostatistician, Division of Education and Research, Duluth Clinic, Duluth, MN

2004 - 2010 Senior Research Scientist, Division of Education and Research, Duluth Clinic, Duluth, MN

2011 - 2012 Interim Manager, Research Informatics and Biostatistics, Essentia Health, Essentia Institute of Rural Health

**ACADEMIC APPOINTMENTS:**

1989-1995 Instructor, Department of Cybernetics and Applied Mathematics, Petrozavodsk State University, RF

1997 - Adjunct Assistant Professor, Department of BioMedical Sciences (formally Department of Physiology and Pharmacology), University of Minnesota Medical School Duluth, Duluth, MN

**TEACHING EXPERIENCE:**

Petrozavodsk State University, Department of Cybernetics and Applied Mathematics: Theory of probability and mathematical statistics; 1985, 1988, 1989

Petrozavodsk State University, Department of Cybernetics and Applied Mathematics: System of statistical analysis SAS; 1985, 1988, 1989

Petrozavodsk State University, Department of Cybernetics and Applied Mathematics: Graduate course in applied statistics in medical and biological research; 1989 – 1995

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University of Minnesota, School of Medicine Duluth, Department of Physiology: Statistical methods in physiological research (elective), 1997

University of Minnesota, School of Medicine Duluth, Department of Physiology: Phs15602, Organ physiology (thermoregulation); 2000 – 2002

University of Minnesota Medical School Duluth, Department of Family Medicine: Med6301, Medical Epidemiology and Biostatistics; 2002 – 2004

University of Minnesota Medical School Duluth, Department of Family Medicine: Med6773, ICM: Evidence Based Medicine Seminars; 2004 – 2008

University of Minnesota Medical School Duluth: Research Ethics, Graduate Course (Data management, Human Subjects in Clinical Research); 2004-2005, 2008-2012

University of Minnesota Medical School Duluth: Phs13011, General Physiology (Endocrinology); 2009-2013.

University of Minnesota School of Pharmacy. PY1 Pharmacy Resident Research Experience; 2017

**EDUCATION:**

1982 - 1989 Petrozavodsk State University, Prof. Degree in Mathematics, Teaching Certification, Petrozavodsk, RF

1992 - 1996 Petrozavodsk State University, Ph.D. Physiology/Zoology, Petrozavodsk, RF

1998 - 2000 University of Minnesota Duluth, M.S. Applied and Computational Mathematics, Duluth, MN

**HONORS/AWARDS:**

1989 Graduation Diploma with Excellence, Petrozavodsk State University, Petrozavodsk, RF

2000 Department of Mathematics and Statistics Graduate Student Service Award, University of Minnesota Duluth, Duluth, MN

2006 Aetna Susan B. Anthony Award For Excellence in Research on Older Women and Public Health; Honorable mention

2006 Aging and Rural Health Research Award; Honorable mention

2009 The Duluth Clinic Foundation 2008 Award of Excellence in Research, Duluth, MN

**PROFESSIONAL MEMBERSHIPS AND SOCIETIES:**

1989 - 1995 Pavlov's Physiological Society, Russian Academy of Sciences

1998 - 2000 Association for Women in Mathematics

2002 - American Public Health Association - APHA; Gerontological Health Section; American Indian, Alaska Native, Native Hawaiian Caucus

2003 - 2013 American Society for Bone and Mineral Research – ASBMR (and the Federation of American Societies for Experimental Biology - FASEB)

2006 - 2008 European Calcified Tissues Society – ECTS

2006 - 2010 Native Research Network

2011 Public Responsibility in Medicine and Research (PRIM&R)

2012 - 2014 American Medical Informatics Association (AMIA)

2013 – AcademyHealth

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**FUNDED RESEARCH/GRANTS:**

**Current support**

Infrastructure grant, PCORI 10/2015 – 9/2018 (ext. 3/2019)  
Roger (PI)  
The Patient-Centered Network of Learning Health Systems (LHSNet) [CDRN, Phase II].  
Role: Site PI.

Research grant, Intercept Pharmaceutical 1/2016 – 12/2019  
Gordon, Lu (MPI)  
FOLD, Fibrotic liver disease consortium. An epidemiology of primary biliary cholangitis.  
Role: Site PI.

5UG1DA040314-02, NIH/NIDA 6/2016 – 5/2020  
Campbell (PI)  
Integrating addiction research in health systems: The addiction research network.  
Role: Site PI.

3UG1DA040314-04S3, NIDA CTN 6/2018 – 5/2020  
Campbell (PI)  
Developing a prescription opioid registry across diverse health systems.  
Role: Site PI.

1G25RH32424-01-00, HRSA 10/2018 – 9/2019  
Conway (PI)  
Upper Midwest Rural Opioid Response Planning Project.  
Role: Co-I.

**Pending support**

**Past support**

Research grant, SMDC Research Committee; Duluth Clinic Foundation 12/2000-12/2003  
Haller (PI)  
SMDC Health System domestic violence project: A survey of credential health care providers about their knowledge of, attitude toward, and practice behaviors when patients are affected by intimate partner violence.  
Role: PI

Research grant, SMDC Research Committee 12/2000-12/2001  
Gessert (PI)  
Causes of death in centenarians: An examination of death certificates in Minnesota 1998  
Role: Co-Inv.

Research grant, Duluth Clinic Education and Research Foundation, BlueCross and BlueShield Foundation of Minnesota 12/2000-9/2002  
Boylan (PI)  
Preventing cardiovascular disease in women II: A community-based program.  
Role: Analyst.

Research grant, SMDC Research Committee 1/2001-12/2002  
Leff (PI)

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Occupational health hazards of being a printmaker: A pilot study

Role: Analyst.

Research grant, SMDC Research Committee 3/2001-3/2005

Hausch (PI)

Effect of bisphosphonates on young patients with severe osteoporosis

Role: Co-Inv.

Research grant, SMDC Research Committee; Duluth Clinic Foundation 4/2001-12/2002

Gesert (PI)

Ethical wills and suffering in patients with cancer: A pilot study.

Role: Analyst.

Research grant, Fudjisawa Healthcare, Inc 8/2001-7/2002

Bamford (PI)

Open trial of topical tacrolimus 0.1% for rosacea. A clinical trial, an investigation of the effect of medication in two different types of rosacea.

Role: Analyst.

1 R03 HS13022-01, Agency for Healthcare Research and Quality 9/2002-9/2004

Gessert (PI)

Medical care at end of life: Rural vs. urban

Role: Co-Inv.

Research contract, University of Minnesota Medical School, Duluth 3/2003-6/2003

Elliott (PI)

Teen Life Center (Resiliency project)

An investigation of the effect of a supplementary curriculum among middle school-aged girls.

Role: Analyst

5 D34 HP03016-06 DHHS/Center for American Indian and Minority Health, University of Minnesota Medical School Duluth

Dorscher (PI)

Subaward #1622-784-8000-7903

9/2003-8/2004

Predictors of success in Native American medical students

Role: Site PI.

Research grant, Duluth Clinic Foundation 6/2004-8/2005

Haller (PI)

Osteoporosis knowledge, risk factors and health-related quality of life

Role: PI.

Research grant, SMDC Research Committee 7/2004-1/2005

Haller (PI)

Evaluation of BMD in Native American females – Pilot

Role: PI.

Research grant, SMDC Research Committee 1/2005-7/2006

Haller, Binkley MD (MPI)

Hypovitaminosis D and peripheral BMD in a Native American population – Pilot

An evaluation of a community-based approach to medical research conducted in collaboration with a Native American tribe with focus of vitamin D and skeletal status.

Role: Co-PI.

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Research contract, University of Minnesota Medical School Duluth 1/2005-12/2005  
Teen Life Center (Resiliency project/Wellness Center)  
An investigation of the effect of a supplementary curriculum among middle school-aged girls.  
Role: Analyst

Research grant, SMDC Research Committee 7/2005-12/2006  
Gessert (PI)  
Termination of dialysis prior to death: Geographic variation in the US  
Role: Co-Inv.

Research contract, University of Minnesota Medical School Duluth 4/2006-12/2006  
Teen Life Center (Health Services/Wellness Center)  
An investigation of the effect of a supplementary curriculum among middle school-aged girls.  
Role: Analyst

Research grant, Duluth Clinic Foundation 5/2006-12/2009  
Bamford (PI)  
Zinc sulfate in the treatment of rosacea: A randomized, controlled trial  
Role: Co-Inv.

Research contract, University of Minnesota Medical School Duluth 4/2007-6/2008  
Teen Life Center (Health Services/Wellness Center)  
An investigation of the effect of a supplementary curriculum among middle school-aged girls.  
Role: Analyst

Research grant, Miller-Dwan Foundation 5/2007-4/2009  
Messer (PI)  
Ketamine frequency treatment for major depressive disorder: Case study  
A pilot study of ketamine for treatment of patients with treatment-resistant major depression.  
Role: Co-Inv.

Research grant, SMDC Research Committee 7/2007-12/2008  
Najarian (PI)  
Urinary retention after bowel surgery: A pilot.  
Role: Co-Inv.

Research grant, The Wisconsin Partnership Program, SMDC Research Committee, Duluth Clinic Foundation 8/2007-7/2010  
Extension 7/2010-12/2011

Haller, Binkley (MPI)  
Vitamin D inadequacy: Documentation in rural populations and evaluation of correction by food supplementation.  
Role: Co-PI.

Research grant, Medica Foundation, SMDC Research Committee 2/2008-1/2010  
Fox (PI)  
Community-based self-management of COPD facilitated by a palliative care team: Impact on health care utilization and quality of life.  
Role: Co-Inv.

Research grant, SMDC Research Committee 5/2008-5/2009  
Woods (PI)

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Health providers' perceptions and knowledge of weight and weight-related medical conditions: A survey.  
Role: Co-Inv.

1 R01 DA023651-01, NIH/NIDA

7/2008-2/2012

Grabowski (PI)

Subaward #N000515901 (Annual \$11,900)

Extended-release mixed amphetamine salts for adult ADHD and cocaine dependence. A randomized treatment trial.

Role: Co-Inv, Site PI.

Research grant, SMDC Research Committee

12/2008 – 11/2009

Belknap (PI)

System changes to enhance care and efficiency: Implementation and control clinic comparison (Phoenix).

Role: Co-Inv.

Clinical Trial, Merck & Co

8/2009 – 7/2013

Binkley (PI)

Subaward UW-Madison

Evaluation of the reproducibility of jumping mechanography in older adults and comparison with current functional assessment tools.

Role: Co-Inv.

R01, NIH (part of P60 program grant)

11/2009–5/2014

Binkley (PI)

Subaward UW-Madison

Vitamin D status, cardiovascular health and diabetes in American Indians (Sunweavers)

A clinical trial: Evaluation of the effects of vitamin D status and response to supplementation on endothelial function, arterial stiffness, plasma markers of inflammation and glucose homeostasis in postmenopausal AI women.

Role: Co-Inv. Site PI.

Research Grant, Duluth clinic Foundation

1/2011 – 12/2011

Silbernagel (PI)

Extension 2/2011-12/2012

PUPS: Heel pressure ulcer prevention study in orthopedic patients.

Role: Co-Inv.

Research grant, Essentia Health

8/2012 – 7/2015

Haller (PI)

Essentia's Patient Centered Medical Home model description and evaluation plan

Role: PI.

Research grant, Essentia Health

8/2012 – 7/2015

Haller (PI)

Evaluation of Essentia Health's Patient Stratification Model.

Role: PI.

Evaluation grant, RealCME

3/2013 – 10/2013

Haller (PI)

Impact of an asynchronous online CME curriculum in optimizing management of adult male hypogonadism by primary care providers (MH-PCP Study).

Role: PI.

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Research grant, Department of Defense 4/2013 – 10/2014  
Skill Degradation Evaluation Toolkit for Eliminating Competency-loss Trends. The goal of this project is to create cognitive skill taxonomy for primary care delivery and develop a platform for clinicians' self-assessment.

Role: Site PI.

Research grant, Health Partners 4/2013 – 6/2014  
Haller (PI)  
Evaluation of Essentia Health's ACO: HealthPartners Insured Essentia Health Employees (ACO Eval).  
Role: PI.

Research grant, Pfizer, Inc. 6/2013 – 12/2015  
Haller (PI)  
Performance of 3 opioid risk stratification tools in predicting patient behaviors and outcomes: An exploratory study (ORST).  
Role: PI

Research grant, Miller-Dwan Foundation, Duluth Clinic Foundation 4/2013 - 12/2016  
Messer, Haller (PI)  
Ketamine for treatment resistant depression: Patterns of clinical care and treatment response (TRD II).  
Role: Co-PI.

1U01HG007282-02, NIH/NHGRI 6/2001-4/2017 (ext. 10/2017)  
Ginsburg (PI)  
Implementation, Adoption, and Utility of Family History in Diverse Care Settings (Family History).  
Role: Co-Inv.

Research grant, Duluth Clinic Foundation 2/2015 – 12/2017  
Haller (PI)  
Utilization of high-cost healthcare services at Essentia Health.  
Role: PI.

NIDA CTN study, NIH/NIDA 6/2016 – 5/2018  
Campbell, Weisner (MPI)  
HSN: Examine patient and system-level factors associated with HEDIS AOD-IET measure performance across health systems.  
Role: Site PI.

**PUBLICATIONS:**

**Peer-reviewed journal articles**

1. Meigal AYu, Pavlova IV, Lupandin YuV, Sokolov AL, Antonen EG. Thermoregulatory activity of motor units during human development. *Arctic Med Research* 1995;54:192-200. PMID: 8579668
2. Pavlova IV, Sorokina LV, Lupandin YuV. [The dependence of the thermoregulating activity of motor units and of the firing rate of muscle contraction on body mass in mammals]. *Fiziol Zh Im IM Sechenov* 1996;82(1):124-132. Russian. PMID: 8829671
3. Haller EW, Wittmers LE, Jr, Haller IV, Regal RR. The obese gene is expressed in lean littermates of the genetically obese mouse (C57BL/6J ob/ob). *Am J Physiol* 1999;276:E762-E765. PMID: 10198314
4. Bakken JS, Haller I, Riddell D, Walls JJ, Dumler JS. The serologic response of patients infected with the agent of human granulocytic ehrlichiosis. *Clin Infect Dis* 2002;34:22-7. PMID: 11731941 (Erratum - *Clin Infect Dis* 2002(Feb 15);34(4):561)
5. Elliott TE, Elliott BA, Regal RR, Renier CM, Haller IV, Crouse BC, Witrak MT, Jensen PB. Lake Superior Rural Cancer Care Project, Part III: provider practice. *Cancer Care* 2002;10(2):75-84. PMID: 11903272
6. Gessert CE, Elliott BE, Haller IV. Dying of old age: an examination of death certificates of Minnesota centenarians. *J Am Geriatr Soc* 2002;50(9):1561-5. PMID: 12383155
7. Boylan MJ, Renier CM, Knuths JS, Haller IV. Preventing cardiovascular disease in women: An intervention-control group-randomized study. *Minn Med* 2003;86(5):52-6. PMID: 15495678
8. Gessert CE, Elliott BA, Haller IV. Mortality patterns in middle age and old age. [letter] *J Gerontol A Biol Sci Med Sci* 2003;58A(11):B967. PMID: 14630873
9. Bamford JTM, Elliott BA, Haller IV. Tacrolimus effect on rosacea. *J Am Acad Derm* 2004;50:107-8. PMID: 14699377
10. Elliott TE, Elliott BA, Regal RR, Renier CM, Haller IV, Crouse BC, Witrak MT, Jensen PB. Improving rural cancer patients' outcomes: A group-randomized trial. *J Rural Health* 2004;20(1):26-35. PMID: 14964925
11. Elliott BA, Renier CM, Haller IV, Elliott TE. Health related quality of life in patients with cancer and other concurrent illnesses. *Qual Life Res* 2004;13(4):457-462. PMID: 15085918
12. Gessert CE, Baines BK, Kuross SA, Clark C, Haller IV. Ethical wills and suffering in patients with cancer: A Pilot Study. *J Palliat Med* 2004;7(4):517-26. 462. PMID: 15353095
13. Elliott TE, Elliott BA, Renier CM, Haller IV. Rural-urban differences in cancer care: Results from the Lake Superior Rural Cancer Care Project. *Minn Med* 2004;87(9):44-50. PMID: 15495877
14. Elliott BA, Haller IV, Peterson JM. Targeted IPV education: Sustained change in rural and mid-sized medical settings. *Family Violence Prevention and Health Practice* 2005;1(2). Available at <http://endabuse.org/health/ejournal/archive/1-2/>.
15. Miroshnichenko AG, Tarakanova LI, Michailuk SG, Haller IV. [Evaluation of factors influencing resuscitation outcome in prehospital period] *Skoraya Pomosch* 2006;4:3-6. Russian.
16. Gessert CE, Haller IV, Kane RL, Degenholtz H. Rural-urban differences in medical care for nursing home residents with severe dementia at the end of life. *J Am Geriatr Soc* 2006; 54:119-1206. PMID: 16913985
17. Haller IV, Gessert CE. Utilization of medical services at the end of life in elders with cognitive impairment: Focus of outliers. *J Palliative Med.* 2007; 10(2):400-407. PMID: 17472512
18. Westra R, Haller IV, Adams J, Peterson BJ, Pearson J. Early Introduction to obstetrical care for medical students. *Fam Med.* 2008; 40(1):17-23. PMID: 18172794



19. Gessert CE, Haller IV. Medicare hospital charges in the last year of life: distribution by quarter for rural and urban nursing home decedents with cognitive impairment. *J Rural Health*. 2008 Spring;24(2):154-60. PMID: 18397450
20. Messer M, Haller IV. Maintenance ketamine treatment produces long-term recovery from depression. *Primary Psychiatry*. 2010; 17(4): 54-56. Available at <http://www.primarypsychiatry.com/asp/articleDetail.aspx?articleid=2600>
21. Messer M, Haller IV, Larson P, Pattison-Crisostomo J, Gessert CE. The use of a series of ketamine infusions in two patients with treatment-resistant depression. *J Neuropsychiatry Clin Neurosci* 2010;22(4):442-4. PMID: 21037130
22. Bamford JTM, Gessert CE, Haller IV, Johnson BP, Kruger K. Randomized, double-blind trial of 220 mg zinc sulfate twice daily in the treatment of rosacea. *Int J Derm* 2012;51:459–462. PMID: 22435439
23. Lutfiyya MN, Haller IV. Introduction: place matters. *Disease-a-month: DM*. 2012;58(11):618-9. Epub 2012/10/16. doi: 10.1016/j.disamonth.2012.08.002. [PMID error]
24. Lutfiyya MN, McCullough JE, Haller IV, Waring SC, Bianco JA, Lipsky MS. Rurality as a root or fundamental social determinant of health. *Disease-a-month: DM*. 2012;58(11):620-8. Epub 2012/10/16. doi: 10.1016/j.disamonth.2012.08.005. PMID: 23062678
25. Conway P, Haller IV, Lutfiyya MN. School-aged overweight and obese children in rural America. *Disease-a-month: DM*. 2012;58(11):639-50. Epub 2012/10/16. doi: 10.1016/j.disamonth.2012.08.006. PMID: 23062680
26. Gessert CE, Haller IV, Johnson BP. Regional variation in care at the end of life: discontinuation of dialysis. *BMC Geriatr*. 2013 May 1;13:39. doi: 10.1186/1471-2318-13-39. PMID: 23635315.
27. Buehring B, Krueger D, Libber J, Heiderscheid B, Sanfilippo J, Johnson B, Haller IV, Binkley N. DXA measured regional body composition least significant change: Effect of region of interest and gender in athletes. *J Clin Densitom*. 2013 May 2. pii: S1094-6950(13)00034-6. doi: 10.1016/j.jocd.2013.02.012. [Epub 2013 May 3]. *Journal of clinical densitometry: the official journal of the International Society for Clinical Densitometry*. 2014; 17(1):121-8. PMID: 23643968
28. Lutfiyya MN, McCullough JE, Saman DM, Lemieux A, Hendrickson SJ, McGraph CA, Haller IV, Lipsky MS. Rural/urban differences in health services deficits among U.S. adults with arthritis: A population-based study. *J Nurs Educ Pract* 2013; 3(11). DOI: 10.5430/jnep.v3n11p43
29. Gessert CE, Bamford JTM, Haller IV, Johnson B. the role of zinc in rosacea and acne: Further reflections. *Int J Dermatol* 2014; 53(1):128-129. PMID: 24350860
30. Gepner AD, Haller IV, Krueger DC, Korcarz CE, Binkley N, et al. A randomized controlled trial of the effects of vitamin D supplementation on arterial stiffness and aortic blood pressure in Native American women. *Atherosclerosis*. 2015; 240(2):526-8. NIHMSID: NIHMS684831, PMID: 25955191, PMCID: PMC4441558
31. Messer MM, Haller IV. Ketamine therapy for treatment-resistant depression in a patient with multiple sclerosis: A case report. *Innovations in Clinical Neuroscience*. (in press) [accepted 7/1/2016]
32. Haller IV, Renier CM, Juusola M, Hitz P, Steffen W, Asmus MJ, Craig T, Mardekian J, Masters EM, Elliott TE. Enhancing risk assessment in patients receiving chronic opioid analgesic therapy using natural language processing. *Pain Medicine* 2016 Oct 1; 18(10):1952-1960. doi: 10.1093/pm/pnw283 [available online 12/30/2016, accepted 10/12/2016]
33. Rutten LJ, Alexander A, Embi PJ, Flores G, Friedman C, Haller IV, Haug P, Jensen D, Khosla S, Runger G, Shah ND, Winden T, Roger VL. Patient-Centered Network of Learning Health Systems: Developing an Emerging Resource for Clinical Translational Research. *Journal of Clinical and Translational Science*. 2017; DOI: <https://doi.org/10.1017/cts.2016.11> [accepted 10/15/2016]
34. Messer MM, Haller IV. Ketamine therapy for treatment-resistant depression in a patient with multiple sclerosis: A case report. *Innov Clin Neurosci*. 2017; 14(1-2):56-59.

35. Lu M, Li J, Haller IV, Romanelli RJ, VanWormer JJ, Rodriguez CV, Raebel MA, Boscarino JA, Schmidt MA, Daida YG, Sahota A, Vincent J, Bowlus CL, Lindor K, Rupp LB, Gordon SC; FOLD Investigators. Factors associated with prevalence and treatment of primary biliary cholangitis in the United States Health Systems. *Clin Gastroenterol Hepatol*. 2018 Aug; 16(8): 1333-1341.e6. doi: 10.1016/j.cgh.2017.10.018. Epub 2017 Oct 21. [accepted 8/12/2017]
36. Lu M, Zhou Y, Haller IV, Romanelli RJ, VanWormer JJ, Rodriguez CV, Anderson H, Boscarino JA, Schmidt MA, Daida YG, Vincent J, Bowlus CL, Lindor K, Zhang T, Trudeau S, Rupp LB, Gordon SC; FOLD Investigators. Increasing prevalence of primary biliary cholangitis and reduced mortality with treatment. *Clin Gastroenterol Hepatol*. 2018 Aug;16(8):1342-1350.e1. doi: 10.1016/j.cgh.2017.12.033. Epub 2017 Dec 23.
37. Wu RR, Myers RA, Sperber N, Voils CI, Neuner J, McCarty CA, Haller IV, Harry M, Fulda KG, Cross D, Dimmock D, Rakhra-Burris T, Buchanan AH, Ginsburg GS, Orlando LA. Implementation, adoption, and utility of family health history risk assessment in diverse care settings: evaluating implementation processes and impact with an implementation framework. *Genet Med*. 2018 Jun 6. doi:10.1038/s41436-018-0049-x. [Epub ahead of print]
38. Messer MM, Haller IV. Development of primary care/psychiatry collaborative ketamine clinic for treatment resistant depression. *Minnesota Medicine*. 2018 (in press)
39. Binswanger IA, Carroll NM, Ahmedani BK, Campbell CI, Haller IV, Hechter RC, McNeely J, Yarborough BJH, Kline-Simon AH, Satre DD, Weisner C, Lapham GT. The association of medical comorbidity and HEDIS measures of treatment initiation and engagement for alcohol and other drug use disorders. *Substance Abuse*. (in press)
40. Lapham G, Campbell CI, Yarborough BJ, Hechter RC, Ahmedani BK, Haller IV, Kline-Simon AH, Satre DD, Weisner C, Binswanger IA. The prevalence of HEDIS initiation and engagement in treatment among patients with cannabis use disorder in seven US health systems. *Substance Abuse*. (in press)
41. Campbell C, Weisner C, Binswanger I, Lapham G, Ahmedani B, Yarborough BJ, Haller IV, Altschuler A, Hector R, Kline-Simon AH. Predictors of HEDIS Treatment initiation and engagement among patients with opioid use disorder across seven health systems. *Substance Abuse*. (in press)
42. Kline-Simon AH, Stumbo SP, Campbell C, Binswanger IA, Weisner C, Haller IV, Hechter RC, Ahmedani BK, Lapham GT, Yarborough BJH. Patient characteristics associated with treatment initiation and engagement among individuals diagnosed with alcohol and other drug use disorders in the emergency department and primary care settings. *Substance Abuse*. (in press)
43. Loree AM, Yeh HH, Satre DD, Kline-Simon AH, Yarborough BJ, Haller IV, Campbell CI, Lapham GT, Hechter RC, Binswanger I, Weisner C, Ahmedani BK. Mental health comorbidity and HEDIS measures of alcohol and other drug treatment initiation and engagement across seven health systems. *Substance Abuse*. (in press)
44. Hechter RC, Horberg MA, Weisner C, Campbell CI, Contreras R, Chen LH, Yarborough BJ, Lapham G, Haller IV, Ahmedani BK, Binswanger IA, Kline-Simon AH, Satre DD. Healthcare effectiveness data and information set (HEDIS) measures of alcohol and drug treatment initiation and engagement among people living with HIV and HIV-infected patients. *Substance Abuse*. (in press)
45. Weisner C, Campbell CI, Yarborough BJ, Lapham GT, Binswanger IA, Hechter R, Ahmedani AK, Haller IV, Sterling SA, McCarty D, Satre DD, Kline-Simon AH. Factors associated with healthcare effectiveness data and information set (HEDIS) alcohol and other drug (AOD) measure performance in 2014-2015. *Substance Abuse*. (in press)

### **Letters and commentaries**

1. Gessert CE, Haller IV. Response letter to Dr. Vig. [letter] *J Am Geriatr Soc* 2007;55(3):472-3.

**Other publications**

1. Pavlova IV. [On identification of mathematical models of local cerebral blood flow]. In: Optimization and Models in Applied Mathematics. Annual Research Proceedings, Petrozavodsk State University. 1989:39-45. Russian.
2. Pavlova IV. [The regression model for the influence of body size on thermoregulatory muscle activity]. In: Mathematical Modeling of Processes in State Owned Manufacturing. Annual Research Proceedings, Petrozavodsk State University. 1990:34-37. Russian.
3. Pavlova IV. [Method for identification of allometric relationships of physiological parameters]. In: Applied Mathematics and Informatics. Petrozavodsk State University, Annual Research Proceedings 1993;3:25-30. Russian.
4. Pavlova IV, Sorokina LV. Thermoregulatory activity of motor units and muscle contraction velocity in mammals of different body size. In: Stuart DG, Gantchev GN, Gurfinkel VS, Wiesendanger M (eds.), Motor Control VII. Proceedings of the Symposium (Jun 21-25, 1993, Borovets, Bulgaria): 45-46. Motor Control Press, Tucson, 1996.

**Manuscripts in review**

1. Ode S, Winden T, Mazumder N, St. Sauver J, Rosendahl J, Cameron N, Haller I. Evaluating the utility of using patient account numbers to perform privacy preserving record linkages between providers and payers. eGEMs.
2. Murphy CF, Renier CM, Yapel AM, MacDonald DA, Rouse KL, Haller IV. Pharmacist/physician co-visits may enhance interprofessional collaboration in a family medicine residency program. Journal of Interprofessional Education & Practice.
3. Wu R, et al. Effect of sociodemographic factors on uptake of a patient-facing information technology risk assessment platform.
4. Orlando L, et al. At the intersection of precision medicine and population health: An implementation-effectiveness study of family health history based systematic risk assessment in primary care. Nature Medicine.

**Abstracts published**

1. Sorokina LV and Pavlova IV. Analysis of regression dependencies of thermoregulatory activity of motor units and the velocity of muscle contraction on body mass in mammals. Systems of Thermoregulation and Adaptation to Environmental Factors. USSR National Conference, Novosibirsk, USSR, Sep 1990, pp.30-31.
2. Sorokina LV and Pavlova IV. Dependence of motor unit thermoregulatory activity and muscle contraction velocity on body size in mammals. Thermoregulation and Sports. Soviet-Finnish Symposium, Petrozavodsk, USSR, Sep 1991, p.30.
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25. Haller IV, Elliott BA, Peterson JM. Screening for domestic violence by health care providers: Effect of practice setting. 132nd APHA Annual Meeting, Washington, DC, Nov 6-10, 2004. Abstract# 82934.
26. Gessert CE, Haller IV. Medical care at the end of life: Rural vs. urban. 132nd APHA Annual Meeting, Washington, DC, Nov 6-10, 2004. Abstract# 76838.
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36. Renier CM, Haller IV, Fernandez AM, Palcher JA. Regional assessment of osteoporosis, knowledge, co-morbid conditions and health-related quality of life. 10th MN Health Services Research Conference, Minneapolis, MN, Mar 7, 2006.
37. Haller IV, Fernandez AM, Palcher JA. Bone mineral density and osteoporosis risk factors in American Indian women compared to white women. 18th Annual Indian Health Services Research Conference, Albuquerque, NM, Apr 24-26, 2006.
38. Haller IV, Fernandez AM, Renier CM, Palcher JA. Regional assessment of osteoporosis knowledge and risk factors in men. 33rd European Symposium on Calcified Tissues, Prague, Czech Republic, May 10-14, 2006.
39. Haller IV, Renier CM, Fernandez AM, Palcher JA. Osteoporosis knowledge and preventive behaviors in men with and without diagnosed osteopenia and osteoporosis. ASBMR Annual Scientific Meeting, Philadelphia, PA, Sep 15-19, 2006. Abstract #1635 (<http://www.asbmr.org>).
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47. Haller IV, Jaakola J, Krueger D, Palcher JA, Binkley N. Vitamin D Status and peripheral BMD among American Indian women in the Great Lakes region. 11th MN Health Services Research Conference, St. Paul, MN, Mar 6, 2007.
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60. Haller IV, Jaakola J, Krueger D, Palcher J, Binkley N. Evaluation of vitamin D status and peripheral BMD among American Indian women. International Congress of Physiological Sciences, Kyoto, Japan, Jul 27-Aug 1, 2009.
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66. Haller IV, Krueger D, Checovich M, Engelke J, Binkley N. Food supplementation with 2,200 IU vitamin D3 daily is safe, but does not assure adequacy. ASBMR Annual Meeting, Toronto, Canada; Oct 15-19, 2010.
67. Haller IV, Krueger D, Engelke J, Binkley N. Serum 25-hydroxyvitamin D in rural and urban postmenopausal women. ASBMR Annual Meeting, San Diego, CA; Oct 16-20, 2011.
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71. Haller I, Hitz P, Bredfeldt C, Butani A, Pardee R, Johnson B. Evaluation of the utilization-based population denominators in the HMORN context. Annual HMO Research Network conference, San Francisco, CA, Apr 16-18, 2013. Available in Clinical Medicine & Research 2013; 11(3):176. DOI:10.3121/cmr.2013.1176.a4-1.
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73. Gepner AD, Haller IV, Krueger DC, Korcarz CE, Binkley ND, Stein JH. A randomized controlled trial of the effect of vitamin D supplementation on central blood pressures and aortic stiffness in Native American women. American Heart Association Annual Meeting. Nov 16-20, 2013, Dallas, TX
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75. Binkley N, Krueger D, Fidler F, Borchardt G, Wiebe D, Haller IV. Serum PTH concentration is related to total, but not bioavailable, 25-hydroxyvitamin D. WCO-IOP-ESCEO World Congress on Osteoporosis, Osteoarthritis and Musculoskeletal Diseases, Seville, Spain, April 2-5, 2014. Osteoporosis International with other metabolic diseases. April 2014:25 (S2) (<http://2014.wco-iof-esceo.org/sites/ecceo14/docs/wco14-abstractbook.pdf>, P483)
76. Haller IV, Conway P, Bianco J, Hitz P, Quinlan S, Saman DM, Van Scoy M, VonRueden C. Transforming primary care delivery: A focus on patients with complex conditions in rural and urban settings. APHA Annual Meeting, New Orleans, LA, Nov 15-19, 2014. Available at <https://apha.confex.com/apha/142am/webprogram/Paper311151.html>
77. Hitz P, Juusola M, Waring S, Haller I. Natural language processing of the unstructured electronic health record data using regular expression and SAS hash objects. Annual HMO Research Network conference, Mar 11-13, 2015, Long Beach, CA.
78. Haller IV, Johnson B, Hitz P, Van Scoy M, VonRueden C, Bianco J. Risk stratification and panel management: validation of the patient stratification model based in electronic health record. Annual HMO Research Network conference, Mar 11-13, 2015, Long Beach, CA.
79. Haller IV, Renier CM, Juusola M, Elliott TE, Hitz P, Meier J, Steffen W, Asmus MJ, Craig T, Masters E. Extracting unstructured data from electronic health records (EHR) to enhance opioid risk assessment in patients with chronic non-cancer pain. APS 34<sup>th</sup> annual scientific meeting, May 13-16, 2015, Palm Springs, CA.
80. Haller IV, Renier CM, Juusola M, Elliott TE, Hitz P, Meier J, Steffen W, Asmus MJ, Craig T, Masters E. Availability and use of structured and unstructured electronic health record data for risk stratification in patients with chronic non-cancer pain on long-term opioids. AcademyHealth annual research meeting, June 14-16, 2015, Minneapolis, MN.
81. Haller IV, Renier CM, Hitz P, Palcher J, Elliott, T. Validation of the Automated Diagnosis, Intractability, Risk, Efficacy Opioid Risk Assessment Tool. HCSRN 2016 annual meeting, Apr 14-16, 2016. Atlanta, GA. Available in *J Patient Cent Res Rev.* 2016;3:227.
82. Lu M, Li J, Rupp LB, Boscarino JA, Raebel M, Schmidt MA, Haller IV, Daida Y, Rodriguez CV, Sahota A, VanWormer JJ, Romanelli R, Vincent J, Gordon SG. Prevalence of primary biliary cholangitis (PBC) in large US health care systems: Case ascertainment using electronic health records. AASLD, The Liver Meeting. Nov 11-15, 2016, Boston, MA. Available in *Hepatology Oct 2016; 64 Suppl S1:196A.*
83. Lu M, Zhou Y, Haller I, Romanelli R, VanWormer J, Rodriguez C, Anderson H, Boscarino J, Schmidt M, Daida Y, Sahota A, Vincent J, Bowlus C, Lindor K, Zhang T, Trudeau S, Li J, Rupp L, Gordon S. Epidemiologic trends and treatment survival benefits in a US cohort of patients with primary biliary cholangitis (PBC). Presidential Poster of Distinction at the 68th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), Washington DC, October 20-24, 2017
84. Gordon SC, Rodrigues CV, Romanelli RJ, Haller IV, Anderson H, VanWormer JJ, Boscarino JA, Schmidt M, Daida Y, Sahota A, Vincent J, Bowlus C, Lindor K, Zhang T, Li J, Melkonian C, Wu KHH, Rupp LB, Lu M. Serum bilirubin within normal range is associated with an increasing risk of mortality in patients with primary biliary cholangitis regardless of ursodeoxycholic acid treatment. the 69th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD). 2018.

**Abstracts submitted**

1. Haller IV, Conway P, Bianco JA, Conniff J, Eyer S, McCoy R, Olimb S, Taran A., Sama T, McCarty C. Clinician engagement in health systems research: A survey of clinicians affiliated with a clinical data research network. HCSRN 2019.



**PRESENTATIONS:**

**Podium presentations**

1. Dependence of motor unit thermoregulatory activity and muscle contraction velocity on body size in mammals. Thermoregulation and Sports. Soviet-Finnish Symposium, Petrozavodsk, USSR, Sep 1991.
2. The regression dependencies of motor unit thermoregulatory activity and muscle contraction velocity on the body weight in mammals. Life in Cold Environments: Studies in Applied and Comparative Physiology. International Symposium. Kostamus, Karelia, Russian Federation, Nov 1992.
3. Seasonal hydrodynamic cycle in large temperate lakes: A review. 1999 series of Large Lake Observatory Seminars, Duluth, MN, Nov 20, 1999.
4. Osteoporosis risk factors in American Indian females. Fond du Lac Health Services Medical Staff Meeting, Cloquet, MN, Feb 22, 2003.
5. Effect of educational interventions on readiness-to-change in a community-based project. 131st Annual APHA Meeting, San Francisco, CA, Nov 15-17, 2003.
6. Osteoporosis knowledge, risk factors and health-related quality of life. SMDC Foundations annual meeting, Duluth, MN, Oct 12, 2004.
7. Effect of practice setting on screening for victims of Intimate Partner Violence. MN Health Services Research Conference, Minneapolis, MN, Mar 1, 2005.
8. Medical research: Why is statistics important? UMD Department of Mathematics and Statistics Undergraduate Seminars, Duluth, MN, April 21, 2005.
9. End of life medical services utilization in elders with dementia: Focus on outliers. 133rd APHA Annual Meeting, Philadelphia, PA, Dec 14, 2005.
10. Regional assessment of osteoporosis risk factors. 10th MN Health Services Research Conference, Minneapolis, MN, Mar 7, 2006.
11. Utilization of medical services at the end of life in elders with dementia: Focus on outliers. 10th MN Health Services Research Conference, Minneapolis, MN, Mar 7, 2006.
12. Assessment of osteoporosis knowledge and risk factors: What is going on in our region? Duluth Clinic Grand Rounds, Duluth, MN, Mar 17, 2006.
13. Regional assessment of osteoporosis knowledge and risk factors. University of Minnesota Medical School Duluth, Duluth, MN, Oct 10, 2006.
14. Osteoporosis-related knowledge and behaviors in postmenopausal women with and without osteoporosis. 134th APHA Annual Meeting, Boston, MA, Nov 6, 2006.
15. Vitamin D status and peripheral BMD among American Indian women in the Great Lakes region. 11th MN Health Services Research Conference, St. Paul, MN, Mar 6, 2007.
16. Bone Health and Vitamin D Status in American Indian Women. 1) DC Grand Rounds, Duluth, MN, Apr 13, 2007; 2) 19th IHS Annual Meeting, Phoenix, AZ, Jun 6, 2007.
17. Skeletal and vitamin D status in Native Americans from the Great Lakes Region. Mayo Clinic Native Circle Seminars. Rochester, MN Feb 2, 2009.
18. Osteoporosis in American Indian Women. SMDC Outreach CME Program. Grand Marais. Apr 22, 2009
19. Correction of vitamin D inadequacy by food supplementation in postmenopausal women. MN Health Services Research Conference, St. Paul, MN, Mar 2, 2010.
20. Vitamin D status and response to vitamin D fortified food in rural postmenopausal women. MN Health Services Research Conference, St. Paul, MN, Mar 6, 2012.
21. Response to vitamin D fortified food in rural white and American Indian women. APHA Annual Meeting, San Francisco, CA, Oct 27-31, 2012.

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22. Evaluation of the utilization-based population denominators in the HMORN context. Annual HMO Research Network conference, San Francisco, CA, Apr 16-18, 2013
23. Utilization-based proxy enrollment versus standard HMORN VDW enrollment: A pilot validation study. Annual HMO Research Network conference, Phoenix, AZ, Apr 1-3, 2014.
24. Transforming primary care delivery: A focus on patients with complex conditions in rural and urban settings. APHA Annual Meeting, New Orleans, LA, Nov 15-19, 2014
25. Risk stratification and panel management: validation of the patient stratification model based in electronic health record. Annual HMO Research Network conference, Mar 11-13, 2015
26. Availability and use of structured and unstructured electronic health record data for risk stratification in patients with chronic non-cancer pain on long-term opioids. AcademyHealth annual research meeting, June 14-16, 2015, Minneapolis, MN.
27. Enhancing risk assessment in chronic non-cancer pain patients on long-term opioid therapy using electronic health record data. Essentia Grand Rounds, Oct 16, 2015.

Poster presentations

1. Analysis of regression dependencies of thermoregulatory activity of motor units and the velocity of muscle contraction on body mass in mammals. Systems of Thermoregulation And Adaptation to Environmental Factors. National Conference of USSR, Novosibirsk, Sep 1990.
2. Further evaluation of expression of the obese gene in non-obese litter mates of C57BL/6J-ob/ob mice. XXXIII International Congress of Physiological Sciences, St.Petersburg, Russia, Jun 30–Jul 5, 1997.
3. Tissue glucose uptake and metabolic rate related to age in male genetically obese mice (C57BL/6J obob). Experimental Biology 98, San Francisco, CA, Apr 18-22, 1998.
4. KITES: CTD measurements and calibration issues. Keweenaw Interdisciplinary Transport Experiment in Superior - All hands Meeting. Minneapolis, MN, Oct 28-30, 1999.
5. Geostrophic circulation in western Lake Superior. 16th Annual Sigma XI-Duluth Scientific Poster Exhibition, Duluth, MN, Feb 21-25, 2000.
6. Catecholaminergic mediation of the glycemic stress response in C57BL/6J ob/ob mice. Experimental Biology 2000, San Diego, CA, Apr 15-18, 2000.
7. Is the genetically obese mouse (C57Bl/6J ob/ob) a Pickwickian? Experimental Biology 2002, New Orleans, LA, Apr 11-13, 2002.
8. Evaluation of osteoporosis risk factors in American Indian females: A pilot study. 130th Annual APHA Meeting, Philadelphia, PA, Nov 12, 2002
9. Community-based primary prevention of cardiovascular disease in women. 11th Congress on Women's Health, Hilton Head, SC, Jun 1, 2003.
10. Community based screening and educational intervention for primary prevention of cardiovascular disease in women. 131st Annual APHA Meeting, San Francisco, CA, Nov 15-17, 2003.
11. Screening for domestic violence by health care providers: Effect of practice setting. 132nd APHA Annual Meeting, Washington, DC, Nov 9, 2004.
12. Bone mineral density and osteoporosis risk factors in American Indian women compared to white women. 18th Indian Health Services Research Conference, Albuquerque, NM, Apr 24-25, 2006.
13. Regional assessment of osteoporosis knowledge and risk factors in men. 33rd European Symposium on Calcified Tissues, Plague, Czech Republic, May 12, 2006.
14. Regional assessment of osteoporosis knowledge and risk factors in men. 28th ASBMR Annual Meeting, Philadelphia, PA, Sep 16, 2006.
15. Knowledge about osteoporosis and preventive behaviors in elderly women and men. The Gerontological Society of America 59th Annual Scientific Meeting, Dallas, TX, Nov 17-18, 2006.

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**PAGE 19:**

16. Vitamin D status among American Indians in the Great Lakes region. ASBMR Meeting on Contemporary Diagnosis and Treatment of Vitamin D-Related Disorders, Arlington, VA, Dec 4-5, 2006.
17. Effect of geographic factors on skeletal and vitamin D status in two indigenous populations. 29th ASBMR Annual Meeting, Honolulu, HI, Sep 15-19, 2007.
18. Correction of vitamin D inadequacy by food supplementation: A randomized controlled trial. ASBMR Annual Meeting, Denver, CO, Sep 11-15, 2009.
19. Correction of vitamin D inadequacy by food fortification. APHA Annual Meeting, Denver, CO, Nov 6-10, **2010**.
20. Food supplementation with 2,200 IU vitamin D3 daily is safe, but does not assure adequacy. ASBMR Annual Meeting, Toronto, Canada; Oct 15-19, 2010.
21. Serum 25-hydroxyvitamin D in rural and urban postmenopausal women. ASBMR Annual Meeting, San Diego, CA; Oct 16-20, 2011.
22. Vitamin D status and effect of food supplementation in rural White and American Indian women. ASBMR Annual Meeting, Minneapolis, MN, Oct 12-15, 2012.
23. Vitamin D and inflammation status in postmenopausal American Indian women. APHA Annual Meeting, Boston, MA, Nov 2-6, 2013.
24. Extracting unstructured data from electronic health records (EHR) to enhance opioid risk assessment in patients with chronic non-cancer pain. APS 34<sup>th</sup> annual scientific meeting, May 13-16, 2015, Palm Springs, CA.
25. Availability and use of structured and unstructured electronic health record data for risk stratification in patients with chronic non-cancer pain on long-term opioids. AcademyHealth annual research meeting, June 14-16, 2015, Minneapolis, MN.
26. Haller IV, Renier CM, Hitz P, Palcher J, Elliott, T. Validation of the Automated Diagnosis, Intractability, Risk, Efficacy Opioid Risk Assessment Tool. HCSRN 2016 annual meeting, Apr 14-16, 2016. Atlanta, GA.