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Education:

Brandeis University

A.B. Biological Sciences

Massachusetts Institute of Technology

M.S. Nutritional Biochemistry and Metabolism

Ph.D. Nutritional Biochemistry and Metabolism/Neuroendocrine Regulation

The Ohio State University

NIH Postdoctoral fellowship in Molecular Biology of Cell Growth Regulation

Postdoctoral training in plant molecular genetics and virology

Research and Professional Experience:

01/19 – 12/19	Guest blog writer for American Society of Nutrition (nutrition.org)
08/00 – Present	Research Communications Analyst; Project Lead for the Southern CA Evidence-Based Practice Center, RAND Corporation, Santa Monica CA
12/99 – Present	Independent scientific editor, writer, and consultant
09/98 – 08/00	Consultant, National Academy of Sciences, IOM, Food and Nutrition Board, Washington, D.C.
01/00 – 07/00	Instructor, UCLA School of Public Health, Department of Community Health Sciences
10/98 – 09/00	Principal Public Administration Analyst/Project Manager, Department of Community Health Sciences, UCLA School of Public Health and Center for Human Nutrition
01/98 – 09/98	Report Review Associate, Office of Report Review, National Research Council, National Academy of Sciences, Washington, D.C.
09/95 – 09/98	Staff (Project) Officer, Food and Nutrition Board, Institute of Medicine, National Academy of Sciences, Washington, D.C.
06/92 – 09/95	Assistant Clinical Professor and Project Manager, Dept. of Family Medicine, Wright State Univ., Dayton OH
01/90 – 01/93	Adjunct Assistant Professor, Dept. of Human Development, MacGregor School of Antioch University, Yellow Springs OH
02/90 – 06/92	Behavioral Health Educator, Health Management Resources Weight Maintenance Program, Beaverview Health Care Center of Greene Memorial Hospital, Beavercreek OH

01/88 – 09/90 Research Associate (1/88 - 9/90), Dept. of Molecular Biology and Biotechnology Center, The Ohio State University, Columbus OH

09/85 – 01/88 Postdoctoral Research Associate (National Research Service Award), Dept. of Biochemistry, The Ohio State University, Columbus OH

03/84 - 09/85 Postdoctoral Research Associate (National Research Service Award), Fels Research Institute Endocrinology Division, Dept. of Biochemistry, Wright State University, Dayton OH

09/79 - 10/83 Graduate Research Assistant, MIT, Cambridge MA and Beth Israel Hospital (Harvard Medical School), Brookline MA

Additional Education/Training

- Completed coursework in management
- Completed coursework in editing, PowerPoint, other presentation products
- Completed one year of masters' level coursework in marriage and family counseling

Professional Society Memberships

American Society for Nutrition (2008-present)

Journal Peer Review Service

American Journal of Clinical Nutrition (2011-present)

Annals of Internal Medicine (2015-present)

Systematic Reviews (2012-present)

Pediatrics (2013-present)

BMJ Open (2016-present)

Honors and Awards

Guest blogger for 2019, American Society of Nutrition

NIH National Research Service Award for 3 years, 1984.

Peer-reviewed Publications, Abstracts, and Theses:

Military Acquisition

Drezner, Jeffrey A., Megan McKernan, Jerry M. Sollinger, and Sydne Newberry, Issues with Access to Acquisition Information in the Department of Defense: A Series on Considerations for Managing Program Data in the Emerging Acquisition Environment. Santa Monica, CA: RAND Corporation, 2020. https://www.rand.org/pubs/research_reports/RR3130.html.

Anton, Philip S., Megan McKernan, Ken Munson, James G. Kallimani, Alexis Levedahl, Irv Blickstein, Jeffrey A. Drezner, and Sydne Newberry, Assessing Department of Defense Use of Data Analytics and Enabling Data Management to Improve Acquisition Outcomes. Santa Monica, CA: RAND Corporation, 2019.

https://www.rand.org/pubs/research_reports/RR3136.html.

Tarraf, Danielle C., William Shelton, Edward Parker, Brien Alkire, Diana Gehlhaus, Justin Grana, Alexis Levedahl, Jasmin Leveille, Jared Mondschein, James Ryseff, Ali Wyne, Dan Elinoff, Edward Geist, Benjamin N. Harris, Eric Hui, Cedric Kenney, Sydne Newberry, Chandler Sachs, Peter Schirmer, Danielle Schlang, Victoria M. Smith, Abbie Tingstad, Padmaja Vedula, and Kristin Warren, The Department of Defense Posture for Artificial Intelligence: Assessment

and Recommendations. Santa Monica, CA: RAND Corporation, 2019.
https://www.rand.org/pubs/research_reports/RR4229.html.

Health

Newberry S, What do we really know about micronutrient supplementation and risk for upper respiratory infection (Editorial). *BMJ Global Health*. 2021 Vol. 6, No. 1.
<https://gh.bmj.com/content/6/1/e004896>; <http://dx.doi.org/10.1136/bmjgh-2020-004896>.

Gidengil C, Goetz MB, **Newberry S**, Maglione M, Hall O, Larkin J, Motala A, Hempel S. Safety of vaccines used for routine immunization in the United States: An updated systematic review and meta-analysis. *Vaccine*. 2021 Jun 23;39(28):3696-3716. doi: 10.1016/j.vaccine.2021.03.079. Epub 2021 May 25. PMID: 34049735

Garsa A, Jang JK, Baxi S, Chen C, Akinniranye O, Hall O, Larkin J, Motala A, **Newberry S**, Hempel S. Radiation Therapy for Brain Metastases. *Comparative Effectiveness Review No. 242*. (Prepared by the Southern California Evidence-based Practice Center under Contract No. 290-2015-00001-I.) AHRQ Publication No. 21-EHC021. PCORI Publication No. 2020-SR-02. Rockville, MD: Agency for Healthcare Research and Quality; June 2021. DOI: <https://doi.org/10.23970/AHRQEPCCER242>

Payán DD, Maggard-Gibbons M, Flórez KR, Mejia N, Hemmelgarn M, Kanouse D, Kahn KL, Golinelli D, Diaz Fuentes CM, **Newberry SJ**, Lara M, Taking Care of Yourself and Your Risk for Breast Cancer (CUIDARSE): A Randomized Controlled Trial of a Health Communication Intervention for Latinas, *Health Educ Behav* 2020 May 25;1090198120920529, PMID: 32449396

Newberry S, Gore K, Belsher, Bird C, Hempel S (2019) Do women and men respond differently to alcohol use disorder treatment? *Front Womens Health* 4: doi: 10.15761/FWH.1000170

Newberry S, Booth M, Rutter, C, Apaydin E, Karimi G, Shanman RM, Motala A, Maglione MA, Hempel S. Gender Differences in Response to Alcohol Use Disorder Treatment: *A Systematic Review*. (2019) RAND Corporation. RR-2178-OSD.

Berry, Sandra H., Dmitry Khodyakov, David Grant, Alexandra Mendoza-Graf, Elizabeth Bromley, Gina Karimi, Barbara Levitan, Karin Liu, and **Sydne Newberry**, Profile of Institutional Review Board Characteristics Prior to the 2019 Implementation of the Revised Common Rule. Santa Monica, CA: RAND Corporation, 2019.
https://www.rand.org/pubs/research_reports/RR2648.html.

Newberry SJ, Chung M, Anderson CAM, Chen C, Fu Z, Tang A, Zhao N, Booth M, Marks J, Hollands S, Motala A, Larkin JK, Shanman R, Hempel S. Sodium and Potassium Intake: Effects on Chronic Disease Outcomes and Risks. *Comparative Effectiveness Review No. 206*. (Prepared by the RAND Southern California Evidence-based Practice Center under Contract No. 290-2015-00010-I.) AHRQ Publication No. 18-EHC009-EF. Rockville, MD: Agency for Healthcare Research and Quality; March 2018.
www.effectivehealthcare.ahrq.gov/reports/final.cfm. DOI: <https://doi.org/10.23970/AHRQEPCCER206>. PMID: 30125063

Maglione MA, Raaen L, Chen C, Azhar G, Shahidinia N, Shen M, Maksabedian E, Shanman RM, Newberry S, Hempel S. Effects of medication assisted treatment (MAT) for opioid use

disorder on functional outcomes: A systematic review. *J Subst Abuse Treat.* 2018 Jun; 89:28-51. PMID: 29706172

Chou R, Baker WL, Bañez LL, Iyer S, Myers ER, Newberry S, Pincock L, Robinson KA, Sardenga L, Sathe N, Springs S, Wilt TJ. Agency for Healthcare Research and Quality Evidence-based Practice Center methods provide guidance on prioritization and selection of harms in systematic reviews. *J Clin Epidemiol.* 2018 Jun; 98:98-104. Review. PMID: 29409913

Newberry SJ, FitzGerald J, SooHoo NF, Booth M, Marks J, Motala A, Apaydin E, Chen C, Raaen L, Shanman R, Shekelle PG. Treatment of Osteoarthritis of the Knee: An Update Review. Comparative Effectiveness Review No. 190. (Prepared by the RAND Southern California Evidence-based Practice Center under Contract No. 290-2015-00010-I.) AHRQ Publication No.17-EHC011-EF. Rockville, MD: Agency for Healthcare Research and Quality; May 2017. PMID: 28825779

Maglione MA, Hempel S, Maher AR, Ewing B, Colaiaco B, Newberry S, Kandrack, Shanman RM, Sorbero ME. Efficacy of Mindfulness Meditation for Smoking Cessation: A Systematic Review and Meta-Analysis; *Addictive Behaviors*, Volume 69, June 2017, Pages 2734. doi:10.1016/j.addbeh.2017.01.022

White CM, Sanders Schmidler GD, Butler M, Wang Z, Robinson K, Mitchell MD, Berkman N, Henderson J, Fiordalisi C, Hartling L, Newberry SJ, Guise JM, Borsky A, Niebuhr D, Pham D, Gozu A, Iyer S, Bañez L. Rockville (MD): Agency for Healthcare Research and Quality (US); 2017 Oct. PMID: 29611913 [Understanding Health-Systems' Use of and Need for Evidence To Inform Decisionmaking \[Internet\].](#)

Shekelle PG, Shetty K, Newberry S, Maglione M, Motala A. Machine Learning Versus Standard Techniques for Updating Searches for Systematic Reviews: A Diagnostic Accuracy Study. *Ann Intern Med.* 2017 Aug 1;167(3):213-215. PMID: 28605762

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Chung M, Tang AM, Fu Z, Wang DD, Newberry SJ. Calcium Intake and Cardiovascular Disease Risk: An Updated Systematic Review and Meta-analysis. *Ann Intern Med.* 2016 Dec 20;165(12):856-866. PMID 27776363

Hilton L, Hempel S, Ewing BA, Apaydin E, Xenakis L, Newberry S, Colaiaco B, Maher AR, Shanman RM, Sorbero ME, Maglione MA. Mindfulness Meditation for Chronic Pain: Systematic Review and Meta-analysis. *Ann Behav Med.* 2016 Sep 22. PMID: 27658913.

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Shekelle PG, Newberry SJ, FitzGerald JD, Motala A, O'Hanlon CE, Tariq A, Okunogbe A, Han D, Shanman R. Management of Gout: A Systematic Review in Support of an American College

of Physicians Clinical Practice Guideline. *Ann Intern Med.* 2017 Jan 3;166(1):37-51. PMID: 27802478

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Newberry S, Hempel S, Booth M, Ewing B, Maher AR, O'Hanlon CE, Sloan J, Vaughan CA, Dudley W, Shanman RM, Sorbero ME. Omega-3 Fatty Acids for Major Depressive Disorder: A *Systematic Review*. (2015) RAND Corporation. RR-1079-OSD

Mattke, Soeren, Kandice A. Kapinos, John P. Caloyeras, Erin Audrey Taylor, Benjamin Saul Batorsky, Harry H. Liu, Kristin R. Van Busum, and Sydne Newberry, Incentives for Workplace Wellness Programs: They Increase Employee Participation, but Building a Better Program Is Just as Effective. Santa Monica, CA: RAND Corporation, 2015. https://www.rand.org/pubs/research_briefs/RB9842.html.

Newberry SJ, Fitzgerald JD, Maglione MA, O'Hanlon CE, Booth M, Motala A, Timmer M, Shanman R, Shekelle PG. Systematic Review for Effectiveness of Hyaluronic Acid in the Treatment of Severe Degenerative Joint Disease (DJD) of the Knee [Internet]. Rockville (MD): Agency for Healthcare Research and Quality (US); 2015 Jul 23. PMID: 26866204

Maglione MA, Okunogbe A, Ewing B, Grant S, Newberry SJ, Motala A, Shanman R, Mejia-Gonzalez N, Arifkhanova A, Shekelle P, Harmon G. Diagnosis of Celiac Disease. Comparative Effectiveness Review No. 162. (Prepared by the Southern California Evidence-based Practice Center under Contract No. 290-2012-00006-I.) AHRQ Publication No. 15-EHC032-EF. Rockville, MD: Agency for Healthcare Research and Quality; September 2015. www.effectivehealthcare.ahrq.gov/reports/final.cfm PMID: 26937544

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Mattke, Soeren, Harry H. Liu, Samuel Hirshman, Saw Htay Wah, and Sydne Newberry, Quantitative Evaluation of the Impact of the Healthy Communities Initiative in Cincinnati. Santa Monica, CA: RAND Corporation, 2014. https://www.rand.org/pubs/research_reports/RR729.html. Also available in print form.

Newberry SJ, Chung M, Shekelle PG, Booth MS, Liu JL, Ruelaz Maher A, Motala A, Cui M, Perry T, Shanman R, Balk EM. Vitamin D and Calcium: A Systematic Review of Health Outcomes (Update). Evidence Report/Technology Assessment No. 217. Prepared by the Southern California Evidence-based Practice Center under Contract No. 290-2012-00006-I. AHRQ Publication No. 14-E004-EF. Rockville MD. Agency for Healthcare Research and Quality. September 2014. www.effectivehealthcare.ahrq.gov/reports/final.cfm. PMID: 30313003

Mattke, Soeren, Harry H. Liu, Lauren E. Hunter, Kun Gu, and Sydne Newberry, *The Role of Health Care Transformation for the Chinese Dream: Powering Economic Growth, Promoting a Harmonious Society*. Santa Monica, CA: RAND Corporation, 2014.
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Maglione MM, Das L, Raaen L, Smith A, Chari R, Newberry S, Shanman E, Perry T, Goetz M, Gidengil C. Safety of Vaccines Used for Routine Immunization of US Children: A Systematic Review. *PEDIATRICS* Volume 134, Number 2, August 2014. PMID: 25086160

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Robinson KA, Whitlock EP, Oneil ME, Anderson JK, Hartling L, Dryden DM, Butler M, Newberry SJ, McPheeters M, Berkman ND, Lin JS, Chang S. Integration of existing systematic reviews into new reviews: identification of guidance needs. *Syst Rev*. 2014 Jun 23;3(1):60. PMID 24956937.

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Viswanathan M, Carey TS, Belinson SE, Berliner E, Chang SM, Graham E, Guise JM, Ip S, Maglione MA, McCrory DC, McPheeters M, Newberry SJ, Sista P, White CM. A proposed approach may help systematic reviews retain needed expertise while minimizing bias from nonfinancial conflicts of interest. *J Clin Epidemiol*. 2014 Nov;67(11):1229-38. PMID: 25022723

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Ahmadzai N, Newberry SJ, Maglione MA, Tsertsvadze A, Ansari MT, Hempel S, Motala A, Tsouros S, Schneider Chafen JJ, Shanman R, Moher D, Shekelle PG. A surveillance system to assess the need for updating systematic reviews. *Syst Rev*. 2013 Nov 14. PMID: 24225065

Newberry SJ, Shekelle PG, Vaiana M, Motala A. Reporting the Findings of Updated Systematic Reviews of Comparative Effectiveness: How Do Users Want to View New Information? [Internet]. Rockville (MD): Agency for Healthcare Research and Quality (US); 2013 May. PMID: 23785728

Viswanathan M, Carey TS, Belinson SE, Berliner E, Chang SM, Graham E, Guise JM, Ip S, Maglione MA, McCrory DC, McPheeters M, Newberry SJ, Sista P, White CM. Identifying and Managing Nonfinancial Conflicts of Interest for Systematic Reviews. Rockville (MD): Agency for Healthcare Research and Quality (US); 2013 May. PMID: 23844449

Dalal SR, Shekelle PG, Hempel S, Newberry SJ, Motala A, Shetty KD. A Pilot Study Using Machine Learning and Domain Knowledge to Facilitate Comparative Effectiveness Review Updating. *Med Decis Making*. 2012 Sep 7. PMID: 22961102

Shekelle PG, Ruelaz A, Miake-Lye IM, Beroes JM, Newberry S. Maintaining Research Integrity: A Systematic Review of the Role of the Institutional Review Board in Managing Conflict of Interest [Internet] Washington (DC): Department of Veterans Affairs; 2012 May. PMID: 22787689

Hempel S, Newberry SJ, Maher AR, Wang Z, Miles JNV, Shanman R, Johnsen B, Shekelle PG. Probiotics for the prevention and treatment of antibiotic-associated diarrhea: A systematic review and meta-analysis. *JAMA*. 2012. May 9; Vol. 307(18):1959-69. PMID: 22570464

Newberry SJ What is the evidence that vitamin C supplements lower blood pressure? (Editorial) *Am J Clin Nutr*. 2012 May; 95(5):997-8. PMID: 22492375

Crandall CJ, Newberry SJ, Diamant A, Lim YW, Gellad WF, Suttorp MJ, Motala A, Ewing B, Roth B, Shanman R, Timmer M, Shekelle PG. Treatment to Prevent Fractures in Men and Women with Low Bone Density or Osteoporosis: Update of a 2007 Report. Rockville (MD): Agency for Healthcare Research and Quality (US); 2012 March. PMID: 22553885

Chung M, Newberry SJ, Ansari MT, Yu WW, Wu H, Lee J, Suttorp M, Gaylor JM, Motala A, Moher D, Balk EM, Shekelle PG. Two methods provide similar signals for the need to update systematic reviews. *J Clin Epidemiol*. 2012 Jun;65(6):660-8. PMID: 22464414

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Mental Health and Substance Abuse Issues among People with HIV: Lessons from HCSUS, 2008, RB-9300, RAND, Santa Monica CA

Yes, In My Backyard: Learning from Other Cities, Los Angeles Tries a New Line in Response to Homelessness, (Perspectives) RAND Review, Summer, 2007.

Health Coverage Options for Military Retirees, 2007, RB-9236, RAND, Santa Monica CA.

Presentations and Teaching

Agency for Healthcare Research and Quality Systematic Review on the Health Effects of Dietary Sodium and Potassium: Process, Protocol, Findings, and Conclusions, presented at a Workshop for the Committee to Review the Dietary Reference Intakes for Sodium and Potassium, March 7, 2018, National Academy of Sciences, Washington DC.

Conducting Surveillance to Identify Signals for Updating Systematic Reviews, presented to the Annual Meeting of the Food and Nutrition Board, National Academy of Sciences, Health and Medicine Division, June 24, 2016.

Food Safety (taught as part of a class in Food Policy at the RAND Pardee Graduate School). May 2013.

Optimizing the Format for Presenting Updates of Evidence Reviews: Seeking User Preferences, presented 9/11/12 at the Annual Meeting of Agency for Healthcare Research and Quality Project Leaders, Rockville MD.

Clarifying Directions and Approaches to Mechanistic and Translational Research on Omega-3 Fatty Acids and Their Metabolites: A Workshop conducted by the NIH and NCCAM. Discussant, Bethesda MD. 2/15/11

Review of the Evidence for the Effects of Omega-3 Fatty Acids. A Presentation given at the Samueli Institute Symposium on Omega-3 Fatty Acids and Health, Irvine CA, 02/25/07

Lessons Learned: Syntheses of the Research on the Effects of n-3 Fatty Acids on Immune Disorders, Cancer, and Neurological Diseases. Presented at the Experimental Biology Meetings, San Diego CA 4/1/05.

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Independent Consulting

01/11-04/11 UCLA Center for Population Research: Revision of Center Proposal

10/06-01/07	UCLA Center for HIV Identification, Prevention, and Treatment Services: Policy briefs
05/06-07/06	Healthcare Communications Group: Proposal review
01/01	Children's Health Initiative, Office of the L.A. County Department of Health: Review of policy brief
07/00	medschool.com: editing of web-based educational material
06/00	Dairy Council of CA: Served on Blue Ribbon Review Panel for Pregnancy – A special time for nutrition, educational booklet for pregnant women
11/99 – 12/00	The Preconception Care Initiative of the Northern California March of Dimes, Sutter Memorial Hospital, and American College of Obstetricians and Gynecologists, District IX: advisory committee member and editor of background report