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**Professional Profile**

Ms. Jordana Kate Schmier is a Senior Managing Scientist in Exponent's Health Sciences Center for Epidemiology and Computational Biology. Ms. Schmier has worked in the outcomes research field for more than 15 years. She has substantial expertise in quality of life assessment and instrument validation, outcomes research, modeling, and health economics. She has published and presented studies in medical areas including asthma and other respiratory conditions, oncology, infectious diseases, psychiatry, hypertension, and neurological and digestive diseases. Particular areas of interest include compliance with treatment, electronic data collection, and the use of novel methodologies in patient preference and utility assessment.

Prior to joining Exponent, Ms. Schmier was a project manager at MEDTAP International, Inc., (now a division of United Biosource Corporation), where her work included quality of life and pharmacoeconomic study design and implementation as well as study and site management.

**Academic Credentials and Professional Honors**

M.A., Political Science, The American University, 1996  
B.A., Political Science, State University of New York at Binghamton, 1994

## **Publications**

Edidin AA, Ong KL, Lau E, Schmier JK, Kemner JE, Kurtz SM. Cost-effectiveness analysis of treatments for vertebral compression fractures. *Applied Health Economics and Health Policy*. In press.

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Schmier JK, Palmer CS, Flood EM, Gourlay G. Utility assessments of opioid treatment for chronic pain. *Pain Med* 2002; 3(3):218–230.

Palmer CS, Nuijten MJ, Schmier JK, Subedi P, Snyder EH. Cost-effectiveness of treatment with entacapone for patients with Parkinson's disease in the United States. *Pharmacoeconomics* 2002; 20(9):617–628.

Frank L, Schmier J, Kleinman L, Siddique R, Beck C, Schnelle J, Bhattacharjya A, Rothman M. Time and economic cost of constipation care in nursing homes. *J Am Med Dir Assoc* 2002; 3(4):215–23.

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### **Published Abstracts of Presentations**

Schmier J, Halpern M, Manjunath R, Jones M, Thompson K, Diette G, Jhingran P. Impact of pediatric asthma on activity limitations and productivity. American Thoracic Society 2006 International Conference, San Diego, CA, May 19–24, 2006. Published abstract: *Am J Respir Crit Care Med* 2006;173 (abstracts issue):A159.

Schmier JK, MacKinnon III GE, Halpern MT. Outcomes associated with an otitis parent questionnaire in pediatric patients with acute otitis media following administration of cefdinir oral suspension or high dose amoxicillin/clavulanate oral suspension. International Society of Pharmacoeconomics and Outcomes Research 11th Annual International Meeting, Philadelphia, PA, May 20–24, 2006. (Poster finalist award). Published abstract: *Value Health* 2006; 9(3):A140.

Halpern MT, Schmier J, Dirani RG. Potential benefits of smoking cessation treatment coverage at the workplace. International Society of Pharmacoeconomics and Outcomes Research 11th Annual International Meeting, Philadelphia, PA, May 20–24, 2006. Published abstract: *Value Health* 2006; 9(3):A172.

Schmier JK, Halpern MT. Activity-based costing in healthcare settings. 10th Annual International Conference on Industrial Engineering Theory, Applications and Practice, Clearwater, FL, December 4–7, 2005. Proceedings, 10<sup>th</sup> Annual International Conference on

Industrial Engineering Theory, Applications and Practice. Fredericks TK, Butt SE, Fernandez JA, and Mital A (eds).

Halpern MT, Schmier JK. Analysis of “failure events” in healthcare: Use of a two-stage model. 10th Annual International Conference on Industrial Engineering Theory, Applications and Practice, Clearwater, FL, December 4–7, 2005. Published: Proceedings of the 10<sup>th</sup> Annual International Conference on Industrial Engineering Theory, Applications and Practice. Fredericks TK, Butt SE, Fernandez JA, and Mital A (eds).

Halpern MT, Schmier JK, Zilberberg M, and Lau E. Evaluation of healthcare resource utilization (HRU) and costs of anemia among chronic obstructive pulmonary disease (COPD) patients. 71st Annual International Assembly of the American College of Chest Physicians (ACCP), Montreal, Quebec, CA, October 28–November 3, 2005. Published abstract: Chest 2005; 128(4):257S.

Schmier JK, Halpern MT, Covert DW. Validation of the DLTV. International Society of Quality of Life Research 12th Annual Meeting. San Francisco, CA, October 19–22, 2005. Published abstract: Qual Life Res 2005; 14(9):2101.

Lau E, Kurtz S, Schmier J, Halpern M, Edidin A. Mortality following diagnosis of vertebral compression fracture (VCF) in the Medicare population. North American Spine Society 20<sup>th</sup> Annual Meeting. Philadelphia, PA, September 25–October 1, 2005. Published abstract: Spine J 2005; 5(4):Supplement 1, S102.

Schmier J, Halpern M, Kurtz S, Lau E, Edidin A. Medical care costs associated with vertebral fractures among Medicare beneficiaries, 1997 to 2001. North American Spine Society 20th Annual Meeting. Philadelphia, PA, September 25–October 1, 2005. Published abstract: Spine J 2005; 5(4):Supplement 1, S156–S157.

Halpern MT, Schmier JK, Snyder LM, Asche C, Mandel L. Meta-analysis of bacterial resistance to macrolides. American Thoracic Society 100th International Conference, Orlando, FL, May 21–26, 2004. Published abstract: Am J Respir Crit Care Med 2004;169 (abstracts issue):A129.

Schmier JK, Halpern MT, Covert D. Patient-reported impact of age-related macular degeneration. International Society of Pharmacoeconomics and Outcomes Research 9th Annual International Meeting, Arlington, VA, May 16–19, 2004. Published abstract: Value Health 2004; 7(3):259.

Halpern MT, Cifaldi M, Schmier JK. Costs and outcomes of extended-release clarithromycin for lower respiratory tract infections. International Society of Pharmacoeconomics and Outcomes Research 9th Annual International Meeting, Arlington, VA, May 16–19, 2004. Published abstract: Value Health 2004; 7(3):358.

Coyne KS, Wiklund I, Schmier J, Halling K, degl' Innocenti A, Revicki D. Development and validation of a disease-specific treatment satisfaction questionnaire for GERD (TSQ-G).

International Society of Quality of Life Research, Prague, Czech Republic, November 12–15, 2003. Published abstract: Qual Life Res 2003; 12(7):761.

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Halpern MT, Schmier JK, Van Kerkhove M, Watkins M, Kalberg CJ. Impact of inhaled corticosteroid (ICS) therapy on bone mineral density (BMD). 69th Annual International Assembly of the American College of Chest Physicians (ACCP), Orlando, FL, October 27–29, 2003. Published abstract: Chest 2003; 124(4 supplement):87S.

Sullivan E, Halpern M, Lacey M, Schmier J, Johnson D. Medical costs associated with alternative therapies for the treatment of gastroesophageal reflux disease. 68th Annual Scientific Meeting of the American College of Gastroenterology (ACG), Baltimore, MD, October 12–15, 2003. Published abstract: Am J Gastroenterol 2003; 98(9):Supplement 1, S236.

Halpern MT, Cifaldi MA, Schmier JK. Economic impact of clarithromycin treatment for community-acquired pneumonia (CAP). American Thoracic Society 99th International Conference, Seattle, WA, May 16–21, 2003. Published abstract: Am J Respir Crit Care Med 2003; 167(abstracts issue):A370.

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Flood EM, Eremenco SL, Schmier JK, Mork AC, Stahl E, Arnold B, Hudgens S, Leidy NK. Preparing the Asthma Symptom Utility Index for international use: Translation and linguistic validation. International Society for Pharmacoeconomics and Outcomes Research Fourth Annual European Congress, Cannes, France, November 11–13, 2001. Published abstract: *Value Health* 2001; 4(6).

Schmier J, Palmer C, Ingham M, Mathur S, Dodd S, Gourlay G. Utility assessments of opioid treatment in the US, Canada and Australia for patients with chronic non-malignant pain. ISPOR Sixth Annual International Meeting, Arlington, VA, May 22, 2001. Published abstract: *Value Health* 2001; 4(2):154.

Kleinman L, Frank L, Schmier J, Rothman M. Management strategies for neuropsychiatric behaviors in nursing homes: A task and cost analysis. Gerontological Society of America 53rd Annual Scientific Meeting, Washington, DC, November 17–21, 2000. Published abstract: *Gerontologist* 2000; 40(Special Issue):391.

Frank L, Schmier J, Kleinman L, Siddique R, Bhattachariya A, Rothman M. Cost of nursing-based constipation care in nursing homes. Gerontological Society of America 53rd Annual Scientific Meeting, Washington, DC, November 17–21, 2000. Published abstract: *Gerontologist* 2000; 40(Special Issue):345.

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International Society of Quality of Life Research, Vancouver, British Columbia, Canada, October 29–31, 2000. Published abstract: Qual Life Res 2000; 9(3):P69.

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Frank L, Kleinman L, Schmier J, Farup C. The burden of constipation care in nursing homes. Gerontological Society of America, Philadelphia, PA, November 20–24, 1998. Published abstract: Gerontologist 1998; 38(Special Issue):194–195.

### **Book Chapters**

Schmier JK, Halpern MT. Economics and Reimbursement for Spine Technologies. pp. 509–527. In: The Spine Technology Handbook. Kurtz SM and Edidin AA (eds), Elsevier Academic Press, Burlington, MA, 2006.

### **Accepted Presentations**

Schmier JK, Ong KL, Lau E, Zigler JD, Auerbach JD. Cost-effectiveness of coflex interlaminar stabilization compared with instrumented posterior spinal fusion for spinal stenosis and spondylolisthesis. International Society of Pharmacoeconomics and Outcomes Research 17th Annual International Meeting, Washington, DC, June 2-6, 2012.

Auerbach JD, Ong KL, Lau E, Ochoa J, Schmier JK, Zigler JD. Perioperative outcomes, complications, and costs associated with lumbar spinal fusion in older patients with spinal stenosis and spondylolisthesis: analysis of the United States Medicare claims database. International Society of Pharmacoeconomics and Outcomes Research 17th Annual International Meeting, Washington, DC, June 2–6, 2012.

Edidin AA, Ong KL, Lau E, Schmier JK, Kemner JE, Kurtz SM. Cost-benefit analysis of treatment for vertebral compression fractures. SpineWeek 2012, Amsterdam, May 28–June 1, 2012.

Ong KL, Auerbach JD, Lau E, Ochoa J, Schmier J, Zigler JD. Perioperative outcomes, complications, and costs associated with lumbar spinal fusion in older patients with spinal stenosis and spondylolisthesis: Analysis of the United States Medicare claims database. International Society for the Advancement of Spine Surgery (ISASS12). Barcelona, Spain, March 20–23, 2012.

### **Presentations**

Lovald ST, Lau E, Ong K, Murtz SM, Schmier JK, Parvizi J, Bozic KJ. Cost and disease outcomes of total knee arthroplasty patients in the Medicare population. American Academy of Orthopaedic Surgeons 2012 Annual Meeting. San Francisco, CA, February 7–11, 2012.

Kurtz SM, Lau E, Watson H, Schmier JK, Parvizi J. Economic burden of periprosthetic joint infection in the United States. American Academy of Orthopaedic Surgeons 2012 Annual Meeting. San Francisco, CA, February 7–11, 2012.

Lovald ST, Malkani AL, Lau E, Ong K, Kurtz SM, Schmier J, Manley MT. Outpatient total knee arthroplasty: A cost and outcomes analysis. American Academy of Orthopaedic Surgeons 2012 Annual Meeting. San Francisco, CA, February 7–11, 2012.

Lovald S, Malkani A, Ong K, Lau E, Schmier J, Kurtz S, Manley M. Complications, mortality, and costs after outpatient and short-stay total knee arthroplasty. Orthopedic Research Society 2012 Annual Meeting, San Francisco, CA, February 4–7, 2012.

Lovald S, Ong K, Lau E, Schmier J, Kurtz S, Bozic K, Parizi J. Medical costs, mortality, and downstream disease in osteoarthritis patients with and without total knee arthroplasty. Orthopedic Research Society 2012 Annual Meeting, San Francisco, CA, February 4–7, 2012.

Kurtz SM, Lau E, Watson H, Schmier J, Parvizi J. Economic burden of periprosthetic joint infection in the United States. American Association of Hip and Knee Surgeons 21st Annual Meeting, Dallas, TX, November 4–6, 2011.

Black M, Jones T, McQueen D, Schmier J, Rugo E. Cost effectiveness of amputation vs. tumor prosthesis in failed total knee arthroplasty and knee trauma. American Orthopedic Association Annual Meeting, Bonita Springs, FL, June 10–13, 2009.

Schmier JK, Covert D, Robin AL. Cost of glaucoma surgical procedures to Medicare from 1997 to 2005. American Academy of Ophthalmology, Atlanta, GA, November 8-11, 2008.

Black MD, Jones TL, McQueen DA, Schmier J, Rugo E. Cost effectiveness of amputation vs. tumor prosthesis in failed total knee arthroplasty and knee trauma. 2008 Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, March 5–9, 2007.

Matthews GP, Schmier J, Covert D, Lau E. Evaluation of Medicare costs of diabetic retinopathy. American Academy of Ophthalmology Annual Meeting, New Orleans, LA, November 10–13, 2007. Best poster award.

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Matthews GP, Schmier JK, Zakov ZN, Covert DW. Impact of visual impairment on service and support use by individuals with diabetic retinopathy. Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL, May 6–10, 2007.

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Kurtz SM, Lau E, Schmier JK, Parvizi J, Halpern MT. Nationwide infection burden in revision hip and knee arthroplasty. Orthopaedic Research Society 52nd Annual Meeting, Chicago, IL, March 19–22, 2006.

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Palmer CS, Nuijten M, Schmier J, Subedi P, Snyder E. Cost-effectiveness of treatment with entacapone for patients with Parkinson's disease in the United States. First International Symposium about Quality of Life and Pharmacoeconomic Studies, Buenos Aires, April 5–6, 2001.

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Schmier J, Leidy N, Prasad M. Health-related quality of life outcomes of desloratadine in patients with moderate-to-severe seasonal allergic rhinitis. American College of Allergy, Asthma & Immunology Annual Meeting, Seattle, WA, November 2000.

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Frank L, Schmier J, Kleinman L. Measuring quality of life outcomes in long-term care. International Society of Quality of Life Research, Baltimore, MD, November 15–17, 1998.

Schmier JK, Chan K, Leidy NK. The impact of asthma on health-related quality of life. Drug Information Association Quality of Life Symposium, Hilton Head, SC, April 6–7, 1998.

### **Prior Experience**

Project Manager, MEDTAP International, 1998–2002  
Associate Project Manager, MEDTAP International, 1996–1998  
Research Assistant, MEDTAP International, 1996

### **Editorial Board / Editorial Advisory Board**

- Applied Health Economics and Health Policy
- Journal of Managed Care Pharmacy

## **Peer Reviewer**

- The American Journal of Managed Care
- Annals of Respiratory Medicine
- Applied Health Economics and Health Policy
- Archives of Physical Medicine and Rehabilitation
- BMC Health Services Research
- Clinical Drug Investigation
- Contemporary Clinical Trials
- COPD: Journal of Chronic Obstructive Pulmonary Disease
- Drugs
- Drugs & Aging
- Expert Review of Pharmacoeconomics and Outcomes Research
- Health & Place
- Health and Quality of Life Outcomes Journal of the American Animal Hospital Association
- Journal of the American Medical Association
- Journal of Antimicrobial Chemotherapy
- Journal of Clinical Outcomes Management
- Journal of Occupational and Environmental Medicine
- Mount Sinai Journal of Medicine
- Ophthalmic Epidemiology
- Preventing Chronic Disease
- Psychological Reports
- Value in Health

## **Professional Affiliations**

- International Society for Quality of Life Research (Communications Committee)
- Washington Institute for Israel Health Policy Research
- Phi Beta Kappa National Honor Society
- Pi Sigma Alpha National Honor Society
- International Society for Pharmacoeconomics and Outcomes Research