

Curriculum Vitae

NAME: Douglas L. Leslie, Ph.D.

BORN: September 7, 1968, Cleveland, Ohio

EDUCATION: B.A., Economics, University of Virginia, 1990
M.A., Economics, Yale University, 1992
M.Phil., Economics, Yale University, 1993
Ph.D., Economics, Yale University, 1998

CAREER: July 1997 – July 2007 Mental Health Economist, Northeast Program Evaluation Center, VA Medical Center, West Haven, CT.

November 1997 – June 1999 Associate Research Scientist, Department of Psychiatry, Yale School of Medicine

July 1999 – June 2006 Assistant Professor, Department of Psychiatry, Yale School of Medicine

July 2000 – June 2006 Assistant Professor, Epidemiology and Public Health, Yale School of Medicine

July 2006 – June 2007 Associate Professor, Department of Psychiatry, Yale School of Medicine

July 2006 – June 2007 Associate Professor, Epidemiology and Public Health, Yale School of Medicine

July 2007 – present Associate Professor, Health Administration and Policy, Medical University of South Carolina

PROFESSIONAL HONORS:

1990 Phi Beta Kappa
1990 Distinguished Major in Economics - High Distinction
1990 - 1994 Yale University Fellowship
Fall 1995 Yale University Dissertation Fellowship
2001 MarketScan Investigator Award, The MEDSTAT Group
2002 MarketScan Investigator Award, The MEDSTAT Group
2005 Excellence in Mental Health Policy and Economics Research Award, ICMPE
2005 American Society of Health Economists, Scientific Committee member
2006 - 2007 Research Mentorship Award, Interdisciplinary Postgraduate Training in Mental Health Policy and Economics Research, International Center for Mental Health Policy and Economics

OTHER PROFESSIONAL ACTIVITIES:

Editorial Board: Journal of the American Geriatrics Society

Professional organizations:

American Public Health Association
American Society of Health Economists (Charter Member)
International Health Economics Association

Journal Referee: Administration and Policy in Mental Health and Mental Health Services Research, American Journal of Managed Care, Archives of General Psychiatry, Archives of Pediatrics & Adolescent Medicine, Clinical Schizophrenia & Related Psychoses, Journal of the American Geriatrics Society, JAMA, Journal of Child and Adolescent Psychopharmacology, Journal of Clinical Psychiatry, Journal of General Internal Medicine, Journal of Gerontology, Journal of Mental Health Policy and Economics, Medical Care, Mental Health Services Research, Psychiatry Research, Psychiatric Services, Scandinavian Journal of Public Health, Schizophrenia Bulletin, Social Science & Medicine

NIH Grant Review Committees:

Child and Family Mental Health Services Research ZMH1 CRB-M(09), June 17, 2004
Special Emphasis Panel ZMH1 BRB-N(06), January 10, 2005
Special Emphasis Panel ZMH1 ERB-I(07), March 14, 2005
Special Emphasis Panel ZMH1 CNF-A(02), July 15, 2005
Special Emphasis Panel ZMH1 ERB-I(05), March 21, 2006
Special Emphasis Panel ZMH1 ERB-B(05), June 19, 2006
Mental Health Services Research in Specialty Settings (SRSP), October 18, 2006

GRANTS HISTORY:

Current Grants:

NIMH R01-MH073884; “Patterns of Service Use and Costs Associated with Autism”; PI: Douglas Leslie; 25% effort; Total cost: \$586,800; Total cost per year: \$195,600; Direct cost per year: \$150,000; Grant period: 8/1/06 – 5/31/09.

VA Center Grant CNTR998-045; “Mental Illness Research, Education and Clinical Center (MIRECC)”; PI: Bruce Rounsaville; 5% effort; Total cost: \$19,000,000; Total cost per year: \$1,900,000; Direct cost per year: \$1,560,000; Grant period: 10/1/97 – 9/30/07.

NIMH 1N01-MH090001; “Clinical Antipsychotic Trials of Intervention Effectiveness (CATIE)”; PI: Jeffrey Lieberman; 5% effort; Total cost: \$42,137,622; Total cost per year: \$8,427,524; Direct cost per year: \$8,073,096; Grant period: 10/1/99 – 9/30/09.

VA Center Grant; “Clinical Epidemiology Research Center”; PI: John Concato; 25% effort; Total cost: \$5,500,000; Total cost per year: \$500,000; Direct cost per year: \$500,000; Grant period: 4/1/03 – 3/31/08.

Expired Grants:

NIMH R03-MH59709; “Mental Health Services of Arrestees with Mental Illness”; PI: Rani Desai; 5% effort; Total cost: \$139,950; Total cost per year: \$71,220; Direct cost per year: \$49,117; Grant period: 4/1/99 – 3/31/02.

Bristol-Myers Squibb; “Incidence and Cost of Diabetes Mellitus Associated with Antipsychotic Treatment of Schizophrenia”; PI: Douglas Leslie; 25% effort; Total cost: \$75,288; Total cost per year: \$37,644; Direct cost per year: \$37,644; Grant period: 9/1/02 – 8/30/04.

NIA R01-AG12551; “Effectiveness of Delirium Prevention in Elderly Patients”; PI: Sharon Inouye; 7% effort; Total cost: \$1,287,036; Total cost per year: \$321,759; Direct cost per year: \$235,931; Grant period: 8/10/95 – 6/30/05.

VA HSR&D MH102-001-2; “Effectiveness of Advisor-Teller Money Manager (ATM)”; PI: Marc Rosen; 10% effort; Total cost: \$597,000; Total cost per year: \$149,250; Direct cost per year: \$149,250; Grant period: 7/1/02 – 6/30/06.

Pending Grants:

NIA R01-AG028735; “Health Care Costs Associated with Delirium in the United States”; PI: Douglas Leslie; 25% effort; Total cost: \$749,598; Total cost per year: \$286,787; Direct cost per year: \$200,000; under revision.

BIBLIOGRAPHY:

Original articles:

Beam-Goulet J, Rosenheck RA and Leslie DL. “Effectiveness of a Targeted Mailing Outreach Program on Supplemental Security Income Applications and Awards.” *Social Service Review* 1999; December:579-587.

Rosenheck RA, Druss BG, Stolar M, Leslie DL and Sledge W. “Effect of Declining Mental Health Service Use among Employees of a Large Self-Insured Private Corporation.” *Health Affairs* 1999; 18(5): 193-203.

Leslie DL and Rosenheck RA. “Shifting to Outpatient Care? Mental Health Care Use and Costs under Private Insurance.” *American Journal of Psychiatry* 1999; 156(8): 1250-1257.

Leslie DL and Rosenheck RA. “Inpatient Treatment of Comorbid Psychiatric and Substance Abuse Disorders: A Comparison of Public Sector and Privately Insured Populations.” *Administration and Policy in Mental Health* 1999; 26(4): 253-268.

Leslie DL and Rosenheck RA. “Changes in Inpatient Mental Health Utilization and Costs in a Privately Insured Population, 1993-1995.” *Medical Care* 1999; 37(5): 457-468.

Striegel-Moore RH, Leslie DL, Garvin V, Petrill S and Rosenheck RA. “One-year Use and Cost of Inpatient and Outpatient Services among Female and Male Patients with an Eating Disorder: Evidence from a National Database of Health Insurance Claims.” *International Journal of Eating Disorders* 2000; 27(4): 381-389.

- Leslie DL and Rosenheck RA. "Comparing Quality of Mental Health Care in Public Sector and Privately Insured Populations: First Efforts and Methodological Challenges." *Psychiatric Services* 2000; 51(5):650-655.
- Leslie DL, Rosenheck RA, and White WD. "Capitated Payments for Mental Health Patients: A Comparison of Potential Approaches in a Public Sector Population." *Journal of Mental Health Policy and Economics* 2000; 3:35-44.
- Rosenheck RA, Leslie DL and Sernyak MJ. "From Clinical Trials to Real-World Practice: Use of Atypical Antipsychotic Medication Nationally in the Department of Veterans Affairs." *Medical Care* 2001; 39(3): 302-308.
- Leslie DL, Rosenheck RA, and Horwitz SM. "Patterns of Mental Health Utilization and Costs among Children in a Privately Insured Population." *Health Services Research* 2001; 36(1): 113-127.
- Leslie DL and Rosenheck RA. "The Effect of Institutional Fiscal Stress on the Use of Atypical Antipsychotic Medications in the Treatment of Schizophrenia." *The Journal of Nervous and Mental Disease* 2001; 189(6): 377-383.
- Leslie DL and Rosenheck RA. "The Quality of Pharmacotherapy for Schizophrenia in a National Health Care System: Individual and Facility Predictors." *Medical Care* 2001; 39(9): 923-933.
- Sernyak MJ, Leslie DL, Alarcon R, Losonczy MF and Rosenheck RA. "Association of Diabetes Mellitus with the Use of Atypical Neuroleptics in the Treatment of Schizophrenia." *American Journal of Psychiatry* 2002; 159(4): 561-566.
- Leslie DL and Rosenheck RA. "From Conventional Antipsychotics to Atypicals and Back: Dynamic Processes in the Diffusion of New Medications." *American Journal of Psychiatry* 2002; 159(9): 1534-1540.
- Martin A, Sherwin T, Stubbe D, Van Hoof T, Scahill L, and Leslie D. "Use of Multiple Psychotropic Drugs by Medicaid-Insured and Privately Insured Children." *Psychiatric Services* 2002; 53(12): 1508.
- Sernyak M, Leslie DL and Rosenheck RA. "Use of System-Wide Outcomes Monitoring Data to Compare the Effectiveness of Atypical Neuroleptic Medications." *American Journal of Psychiatry* 2003; 160(2): 310-315.
- Martin A and Leslie DL. "Psychiatric inpatient, outpatient, and medication utilization and costs among privately insured youths, 1997-2000." *American Journal of Psychiatry*, 2003; 160(4): 757-764.
- Rosenheck RA, Doyle J, Leslie DL and Fontana A. "Changing Environments and Alternative Perspectives in Evaluating the Cost-effectiveness of New Antipsychotic Drugs." *Schizophrenia Bulletin* 2003; 29(1): 81-93.
- Sernyak MJ, Gulanski B, Leslie DL and Rosenheck RA. "Undiagnosed Hyperglycemia in Clozapine-Treated Patients with Schizophrenia." *Journal of Clinical Psychiatry* 2003; 64(5): 605-608.
- Rosenheck RA and Leslie DL. "Administrative Prescription Review Procedures and Use of Atypical Antipsychotic Medications in the Department of Veterans Affairs." *Mental Health Services Research* 2003; 5(3): 149-153.

- Rosenheck R, Leslie D and Woody G. "Fiscal Strain and Access to Opiate Substitution Therapy at Department of Veterans Affairs Medical Centers." *American Journal on Addictions* 2003; 12(3): 220-228.
- Petrakis IL, Leslie DL and Rosenheck RA. "The use of antidepressants in alcohol dependent veterans." *Journal of Clinical Psychiatry* 2003; 64(8): 865-870.
- Martin A and Leslie DL. "Trends in psychotropic medication costs for children and adolescents, 1997-2000." *Archives of Pediatrics and Adolescent Medicine* 2003; 157(10): 997-1004.
- Petrakis IL, Leslie DL and Rosenheck RA. "Use of naltrexone in the treatment of alcoholism nationally in the Department of Veterans Affairs." *Alcoholism: Clinical and Experimental Research* 2003; 27(11): 1780-1784.
- Rosenheck R, Perlick D, Bingham S, Liu-Mares W, Collins J, Warren S, Leslie D, for the Department of Veterans Affairs Cooperative Study Group on the Cost-Effectiveness of Olanzapine. Effectiveness and Cost of Olanzapine and Haloperidol in the Treatment of Schizophrenia: A Randomized Controlled Trial. *JAMA* 2003; 290(20): 2693-2702.
- Leslie DL and Rosenheck RA. "Benchmarking the quality of schizophrenia pharmacotherapy: A comparison of the Department of Veterans Affairs and the Private Sector." *Journal of Mental Health Policy and Economics* 2003; 6(3): 113-121.
- Martin A, Young C, Leckman JF, Mukonoweshuro C, Rosenheck R and Leslie D. "Age effects on antidepressant-induced manic conversion." *Archives of Pediatrics and Adolescent Medicine* 2004; 158(8): 773-780.
- Busch SH, Leslie DL and Rosenheck RA. "Measuring Quality of Pharmacotherapy for Depression in a National Health Care System." *Medical Care* 2004; 42(6): 532-542.
- Harpaz-Rotem I, Leslie DL and Rosenheck RA. "Treatment retention among children entering a new episode of mental health care." *Psychiatric Services* 2004; 55(9): 1022-1028.
- Leslie DL and Rosenheck RA. "Incidence of Newly Diagnosed Diabetes Attributable to Atypical Antipsychotic Medications." *American Journal of Psychiatry* 2004; 161(9): 1709-1711.
- Busch SH, Leslie DL and Rosenheck RA. "Comparing the Quality of Antidepressant Pharmacotherapy in the Department of Veterans Affairs and the Private Sector." *Psychiatric Services* 2004; 55(12): 1386-1391.
- Leslie DL and Rosenheck RA. "Adherence of Schizophrenia Pharmacotherapy to Published Treatment Recommendations: Patient, Facility and Provider Predictors." *Schizophrenia Bulletin* 2004; 30(3): 649-658.
- Sernyak MJ, Leslie DL and Rosenheck RA. "Predictors of antipsychotic medication change." *The Journal of Behavioral Health Services and Research* 2005; 32(1): 85-94.
- Inouye SK, Leo-Summers L, Zhang Y, Bogardus ST, Leslie DL, and Agostini JV. "A Chart-Based Method for Identification of Delirium: Validation Compared with Interviewer Ratings Using the Confusion Assessment Method." *Journal of the American Geriatrics Society* 2005; 53(2): 312-318.

- Leslie DL, Zhang Y, Bogardus ST, Holford TR, Leo-Summers LS, and Inouye SK. "Consequences of Preventing Delirium in Hospitalized Older Adults on Nursing Home Costs." *Journal of the American Geriatrics Society* 2005; 53(3): 405-409.
- Miller EA, Leslie DL and Rosenheck RA. "Incidence of New-Onset Diabetes Mellitus Among Patients Receiving Atypical Neuroleptics in the Treatment of Mental Illness: Evidence from a Privately Insured Population." *Journal of Nervous and Mental Disease* 2005; 193(6): 387-395.
- Leslie DL and Rosenheck RA. "Pharmacotherapy and Health Care Costs Among Patients with Schizophrenia and Newly Diagnosed Diabetes." *Psychiatric Services* 2005; 56(7):803-809.
- Leslie DL, Zhang Y, Holford TR, Bogardus ST, Leo-Summers LS, and Inouye SK. "Premature Death Associated with Delirium at 1-Year Follow-up." *Archives of Internal Medicine* 2005; 165:1657-1662.
- Harpaz-Rotem I, Leslie DL, Martin A and Rosenheck RA. "Changes in Child and Adolescent Inpatient Psychiatric Admission Diagnoses between 1995 and 2000." *Social Psychiatry and Psychiatric Epidemiology* 2005; 40(8): 642-7.
- Hoblyn J, Noda A, Yesavage JA, Brooks JO, 3rd, Sheikh J, Lee T, Tinklenberg JR, Schneider B, O'hara R, Leslie DL, Rosenheck RA, Kraemer HC. Factors in choosing atypical antipsychotics: Toward understanding the bases of physicians' prescribing decisions. *Journal of Psychiatric Research* 2006; 40(2):160-166.
- Chwastiak L, Rosenheck RA and Leslie D. "Impact of Medical Co-morbidity on the Quality of Schizophrenia Pharmacotherapy in a National VA Sample." *Medical Care* 2006; 44(1):55-61.
- Petrakis IL, Leslie D, Finney JW and Rosenheck R. "Atypical antipsychotic medication and substance use-related outcomes in the treatment of schizophrenia." *American Journal on Addictions* 2006; 15(1):44-49.
- Rosenheck RA, Leslie D, Keefe R, McEvoy J, Swartz M, Perkins D, Stroup S, Hsiao J, and Lieberman J. "Barriers to Employment for People with Schizophrenia." *American Journal of Psychiatry* 2006; 163(3):411-417.
- McAvay GJ, Van Ness PH, Bogardus ST, Zhang Y, Leslie DL, Leo-Summers LS and Inouye SK. "Older Adults Discharged from the Hospital with Delirium: 1-Year Outcomes." *Journal of the American Geriatrics Society* 2006; 54:1245-1250.
- Gore M, Dukes E, Rowbotham D, Tai KS and Leslie DL. "Clinical characteristics and pain management among patients with painful peripheral neuropathic disorders in general practice settings." *European Journal of Pain* 2006; Epub ahead of print.
- Gore M, Dukes E, Rowbotham D, Tai KS and Leslie DL. "Prevalence of contraindicated medical conditions and use of precluded medications in patients with painful neuropathic disorders prescribed amitriptyline." *Pain Practice* 2006; 6(4):265-72.
- Rosenheck RA, Leslie DL, Sindelar J, Miller EA, Lin H, Stroup TS, McEvoy J, Davis S, Keefe RSE, Swartz M, Perkins D, Hsiao JK, Lieberman J for the CATIE Study Investigators. "Cost-Effectiveness of Second Generation Antipsychotics and Perphenazine in a Randomized Trial of

Treatment for Chronic Schizophrenia.” *American Journal of Psychiatry* 2006; 163(12): 2080-2089.

Leslie DL and Martin A. “Health Care Costs Associated with Autism-Spectrum Disorders.” *Archives of Pediatrics and Adolescent Medicine* 2007; 161(4):350-355.

McAvay GJ, Van Ness PH, Bogardus ST, Zhang Y, Leslie DL, Leo-Summers LS and Inouye SK. “Depressive Symptoms and the Risk of Incident Delirium in Older Hospitalized Adults.” *Journal of the American Geriatrics Society* 2007; 55(5): 684-91.

Rosenheck RA, Leslie DL, Busch S, Rofman ES and Sernyak M. “Rethinking Antipsychotic Formulary Policy.” *Schizophrenia Bulletin* 2007; Epub ahead of print.

Chapters, books:

Rosenheck RA and Leslie DL. “Economic Perspectives on the Treatment of Schizophrenia,” in Murray R and Lieberman JA (Eds.) *Comprehensive Care of Schizophrenia: A Textbook of Clinical Management and Treatment*. London: Martin Dunitz, Ltd., 2001.

Papers in press/under review:

Leslie DL, Marcantonio ER, Zhang Y, Leo-Summers L and Inouye SK. “One-Year Health Care Costs Associated with Delirium.” *Archives of Internal Medicine*, in press.

Sernyak MJ, Leslie DL, Rosenheck RA. “Antipsychotic use in the treatment of outpatients with schizophrenia in the VA from FY99 to FY06.” Under review.

Kosten TR, Leslie DL, Sernyak MJ and Rosenheck RA. “Risperidone for Substance Dependent Psychotic Patients.” *American Journal on Addictions*, under review.

Working Papers:

Leslie DL and Waldfogel J. “Do Noncommercial Hospitals Cannibalize For-Profit Hospitals or Serve the Otherwise Unserved?”

Leslie DL. “The Provision of Specialized Hospital Services: Is There a ‘Medical Arms Race’?”

Leslie DL. “Hospital Competition and Specialization.”

INVITED WORKSHOPS:

2002 NIMH Pharmacoeconomics Workshop. Roundtable participant. Bethesda, MD, May 23, 2002.

2002 Pharmaceutical Economics and Policy Council (PEPC) Meeting. Washington, DC, June 26, 2002.

2004 2nd NIMH Pharmacoeconomics Workshop. Panel participant. Washington, DC, May 24, 2004.

2004 12th NIMH Biennial Research Conference on the Economics of Mental Health Services. Discussant. Washington, DC, September 27-28, 2004.

2005 7th Workshop on Costs and Assessment in Psychiatry: Financing Mental and Addictive Disorders. Session Chair. Venice, Italy, March 18-20, 2005.

PRESENTATIONS:

- 1998 Inpatient Treatment of Dual Diagnosis in VA and the Private Sector. Presentation at the 16th Annual VA HSR&D Service Meeting, Washington, DC, February 20, 1998.
- 1999 Comparing Quality of Mental Health Care in Public Sector and Privately Insured Populations: First Efforts and Methodological Challenges. Presentation at the 17th Annual VA HSR&D Service Meeting, Washington, DC, February 25, 1999.
- 1999 Comparing Reimbursement Models for VA Mental Health Services. Presentation at the 17th Annual VA HSR&D Service Meeting, Washington, DC, February 25, 1999.
- 1999 Shifting from Inpatient to Outpatient Care? Mental Health Utilization and Costs in a Privately Insured Population. Presentation at the 127th Annual Meeting of the American Public Health Association, Chicago, IL, November 9, 1999
- 2002 Comparing the Quality of Schizophrenia Pharmacotherapy in the VA and the Private Sector. Presentation at the 20th Annual VA HSR&D Service Meeting, Washington, DC, February 15, 2002.
- 2002 From Conventional Antipsychotics to Atypicals and Back: Dynamic Processes in the Diffusion of New Medications. Presentation at the International Society for Pharmacoeconomic and Outcomes Research (ISPOR) Annual Meeting, Arlington, VA, May 23, 2002
- 2003 Atypical Antipsychotics and Onset of Diabetes: Risk Factors and Cost Consequences. Presentation at the University of Utah Medical School, July 11, 2003.
- 2004 New-Onset Diabetes Attributable to Atypical Antipsychotic Medications. Presentation at the Annual VA HSR&D Service Meeting, Washington, DC, March 11, 2004.
- 2004 Adherence of Schizophrenia Pharmacotherapy to Published Treatment Recommendations: Patient, Facility and Provider Predictors. Presentation at Grand Rounds at the State University of New York at Stony Brook Medical Center, December 13, 2004.
- 2005 Incidence and Consequences of New-Onset Diabetes Attributable to Atypical Antipsychotic Medications. Presentation in the Department of Veteran Affairs Health Economics Resource Center CyberSeminar Series, January 26, 2005.
- 2005 Incidence and Consequences of New-Onset Diabetes Attributable to Atypical Antipsychotic Medications. Presentation at the State University of New York at Stony Brook Medical Center, March 4, 2005.
- 2005 Incidence and Consequences of New-Onset Diabetes Attributable to Atypical Antipsychotic Medications. Presentation at the Roudebush VA Medical Center, Indianapolis, IN, March 25, 2005.
- 2005 Changes in Antipsychotic Pharmacotherapy and Healthcare Costs Following a New Diagnosis of Diabetes among Patients with Schizophrenia. Presentation at the AcademyHealth Annual Research Meeting, Boston, MA, June 28, 2005.
- 2005 Health Care Service Use and Costs among Patients with Autism. Presentation at the NIMH

Mental Health Services Research Conference, Bethesda, MD, July 19, 2005.

- 2005 One-year Health Care Costs Associated with Delirium. Presentation at the Gerontological Society of America's 58th Annual Scientific Meeting, Orlando, FL, November 20, 2005.
- 2005 Health Care Service Use and Costs among Patients with Autism. Presentation at the Annual Meeting of the American Public Health Association, Philadelphia, PA, December 12, 2005.
- 2006 Health Care Costs Associated with Autism. Presentation at the Inaugural Meeting of the American Society of Health Economists, Madison, WI, June 5, 2006.
- 2006 Cost-effectiveness of Second Generation Antipsychotics and Placebo in the Treatment of Alzheimer's Disease. Presentation at the 13th NIMH Biennial Research Conference on the Economics of Mental Health, Bethesda, MD, September 25, 2006.
- 2006 Risk of New-Onset Diabetes Attributable to Antipsychotic Medications and Implications for the Treatment of Patients with Schizophrenia. Presentation at the Virginia Commonwealth University Medical Center, Richmond, VA, November 14, 2006.
- 2006 Prescribing Patterns for Second-Generation Antipsychotic Medications in the Treatment of Schizophrenia. Presentation at the Gerontological Society of America's 59th Annual Scientific Meeting, Dallas, TX, November 17, 2006.
- 2006 Risk of New-Onset Diabetes Attributable to Antipsychotic Medications and Implications for the Treatment of Patients with Schizophrenia. Presentation at the Medical College of South Carolina, Charleston, SC, December 11, 2006.
- 2007 Risk of New-Onset Diabetes Attributable to Antipsychotic Medications and Implications for the Treatment of Patients with Schizophrenia. Presentation at the Penn State College of Medicine, Hershey, PA, February 13, 2007.