

Secretary of Labor v. Wal-Mart Stores, Inc.
OSHRC Docket No. 09-1013
Respondent's Opening Brief

Exhibit C
Expert Written Report of Arthur J. Barsky, MD

Filed on June 20, 2011

Expert Written Report
Arthur J. Barsky, MD
2/18/10

(i) Statement of opinions

In my opinion, the crowd behavior exhibited in this case resulted from a cascade of numerous, unlikely and improbable events that occurred in the context of the unpredictable irrationality of individual behavior in crowds. These factors indicate to me that the results of this crowd behavior could not have reasonably been anticipated or prevented.

The crowd behavior exhibited in this case has been termed “acquisitive panic” or “acquisitive mob behavior”. It occurs when individuals within a crowd are in competition for a prized resource, such as the distribution of food, or access to entertainment and sporting events. Acquisitive panic is an evolving process that develops in two phases. In the first phase, numerous individuals mill around in a somewhat disorganized and non-coherent form. An event or events then occur that galvanize the crowd and precipitate the second, post-ignition phase in which the group engages in violent or dramatic behavior. Methods for dealing with the first phase are referred to as “crowd management” and widely accepted principles of crowd management have been described and prescribed. These methods are directed at conveying a sense of order and control. They are not designed to prevent the second phase of behavior from occurring. This second phase, the acquisitive panic, consists of aberrant behavior, and is exceedingly rare. Once it has been ignited, however, there is little empirical evidence for the effectiveness of any crowd control strategy other than a massive show of force by law enforcement authorities.

In the case at hand, there was insufficient reason to expect or anticipate that the second phase of acquisitive mob behavior would be ignited, and once it did occur there was little that management could have done to avoid the outcome.

The general observation regarding gatherings of individuals in competition for some desired resource (concert seats, food, fuel, merchandise on sale) is that antisocial violence is rare and helpful and even altruistic behavior often occurs (Reicher, 2003; Johnson, 1987; Raphael, 2005; McPhail, 2007). McPhail notes that "violence is the exception rather than the rule in most gatherings," and that gatherings and dispersals at sports stadiums, university lecture halls, and movie theaters happen routinely and without incident. Convivial gatherings of university students (e.g., celebrations following sporting victories) also share some features with these sales events: There is a generally festive atmosphere, they are not planned in advance, and there are no leaders or organization. And indeed, while "as the number of participants increases, there is a greater likelihood that some private property will be destroyed," there is a marked difference in violence directed to property and violence directed to persons, in that an increased gathering size does *not* yield an increase in violence against persons (Martin et al, 2009).

These observations are borne out by the overall experience of the retail industry with "door-buster" and "midnight madness" sales, where serious physical violence or serious injury is rare, and death almost unheard of. This is particularly noteworthy in light of the vast number of such sales that occur repeatedly, all across the United States every year. Thus there was no reason to expect this particular sale was likely to result in death or serious physical harm, nor was there reason for undue alarm initially.

Several unforeseeable, unlikely, independent, incendiary events occurred during the course of the night as the crowd gathered, that culminated in the acquisitive panic that erupted at

5:00 AM. These included: (1) The unexpectedly large size of the crowd; (2) At least one violent scuffle among those waiting (WAL 0341, 0826); (3) The escorting of someone from the back of the queue up to the front (WAL 818-819); and most important, (4) The rush to the front of the line by a number of people who had previously been waiting not in the queue but in their automobiles. It was the co-occurrence of these independent, unpredictable events that then ignited the unlikely antisocial behavior exhibited by this crowd when the doors opened. And once the crowd entered the second phase of the craze, there was little choice for the store management. To keep the doors closed would only have incited the crowd further and exacerbated the physical crush on those at the front of the line, and thus opening the doors and allowing the people to enter the store was the best option.

The rare event in which a sudden, unpredictable spread of an emotion (such as fear or frustration or hostility) throughout a crowd, with resulting violence, selfish behavior, and excessive competition bears some similarity to the psychiatric phenomenon of mass or epidemic hysteria, also termed mass psychogenic illness. In this phenomenon, panic and anxiety spread rapidly from person to person throughout a crowd. It begins when someone becomes alarmed and aroused. Their anxiety then spreads via a process of social contagion in which the disease vector is witnessing intense alarm and anxiety in someone nearby. One individual's panic then spreads to others through the power of suggestion, expectation, and symptom amplification. Thus in mass or epidemic hysteria, the physical symptoms of anxiety spread rapidly through a large crowd, transmitted by observing someone nearby who appears to suddenly become ill. This prompts those surrounding the individual to believe they too have become ill and in turn become acutely anxious themselves.

In the same way that anxiety can spread through a crowd to produce psychopathological symptoms, the anxiety generated in an acquisitive panic or "acquisitive craze" can produce pathological behavior. Once the individual becomes aroused and alarmed, he/she may abandon a sense of social responsibility and surrender to his/her own rising sense of urgency - in this case the urgent desire to obtain a scarce commodity. This then is transmitted to those nearby who become similarly aroused. This same process may erupt unpredictably in other situations when an individual in the crowd manifests intense fear (resulting in a stampede, in which the crowd collectively runs without any clear direction or purpose) or anger (resulting in hooliganism, in which vandalism or other destructive behavior, or fighting or brawling between rival groups).

(ii) Information considered in forming these opinions

Fruin JJ: The causes and prevention of crowd disasters. Presented at the First International Conference on Engineering for Crowd Safety, London, March 1993, Elsevier Science Publishers. Revised for crowdsafe.com January 2002.

Johnson NR: Panic at "The Who Concert Stampede": An empirical assessment. *Social Problems* 1987; 34: 362-373.

Martin AW, McCarthy JD, McPhail C: Why targets matter: Toward a more inclusive model of collective violence. *American Sociologic Review* 2009; 74:821-841.

Mawson AR: Understanding mass panic and other collective responses to threat and disaster. *Psychiatry* 2005; 68: 95-113.

McPhail C: Crowd Behavior. *Blackwell Encyclopedia of Sociology* 2007, 880-83.

McPhail C: *The Myth of the Madding Crowd* 1991.

Raphael B: Crowds and other collectives: Complexities of human behaviors in mass emergencies. *Psychiatry* 2005; 68: 115-120.

Reicher S: The Psychology of Crowd Dynamics. *In Blackwell Handbook of Social Psychology: Group Processes*. Hogg MA, Tindale S, eds. Blackwell Publishing, Oxford: 2003. Pp. 182-208.

WAL 000001-1525, particularly 117, 182, 341, 548, 665, 680, 760-61, 808; 818-819; 826, 1234.

WMFv5293-001-00000001, 2, 3, 5, 7, 10, 12

WM 2009-43501/v0000001

NYIT video

(iii) Qualifications

I am a clinical and research psychiatrist specializing in psychosomatic medicine. I am a Professor of Psychiatry at Harvard Medical School and Vice Chair for Research in the Department of Psychiatry at the Brigham and Women's Hospital. My interests have focused on the psychological factors that cause physical symptoms and the effects of sociocultural forces on symptom reporting and psychopathology. I have been the principal investigator of nine research grants from the National Institutes of Health in these areas. I have authored over 140 articles, 20 book chapters, and two books. I have received the President's Research Award from the American Psychosomatic Society and been a Faculty Fellow of the Mind/Brain/Behavior Interfaculty Initiative of Harvard University. I have been a Visiting Professor at the Georgetown University School of Medicine, the University of Wisconsin Medical School, the University of Illinois College of Medicine, Dartmouth Medical School, and the Allegheny University of the Health Sciences. I am a Distinguished Life Fellow of the American Psychiatric Association, a Fellow of the American College of Psychiatrists, and served on the Council of the American Psychosomatic Society.

(iv) Publications

Original Reports:

Brown HD, Kosslyn SM, Delamater BA, Fama J, Barsky AJ. Perceptual and memory biases for health-related information in hypochondriacal individuals. *J Psychosom Res* 1999; 47:67-78.

Barsky AJ, Orav JE, Ahern DK, Rogers MP, Gruen SD, Liang MH. Somatic style and symptom reporting in rheumatoid arthritis. *Psychosomatics* 1999; 40:396-403.

Barsky AJ, Borus JF. Functional somatic syndromes. *Ann Int Med* 1999; 130:910-921.

Barsky AJ. Understanding and managing hypochondriasis. *Japan J Psychosom Med* 1999; 39:325-333.

- Van der Does AJW, Antony MM, Ehlers A, Barsky AJ. Heartbeat perception in panic disorder: A re-analysis. *Behav Res Ther* 2000; 38:47-62.
- Barsky AJ, Bailey ED, Fama JM, Ahern DK. Predictors of remission in DSM hypochondriasis. *Comprehens Psychiat* 2000; 41:179-183.
- Borus JF, Barsky AJ, Carbone LA, Fife A, Fricchione GL, Minden SL. C-L cost offset: searching for the wrong grail. *Psychosomatics* 2000; 41:285-288.
- Carbone LA, Barsky AJ, Orav EJ, Fife A, Fricchione GL, Minden SL, Borus JF. Psychiatric symptoms and medical utilization in primary care patients. *Psychosomatics* 2000; 41:512-518.
- Nakao M, Fricchione G, Myers P, Zuttermeister PC, Barsky AJ, Benson H. Depression and education as predicting factors for completion of behavioral medicine intervention in a mind/body medicine clinic. *Behav Med* 2001; 26:177-188.
- Nakao M, Fricchione G, Myers P, Zuttermeister PC, Baim M, Mandle CL, Medich C, Wells-Federman CL, Arcari PM, Ennis M, Barsky AJ, Benson H. Anxiety is a good indicator for somatic symptom reduction through a behavioral medicine intervention in a mind/body medicine clinic. *Psychother Psychosom* 2001; 70:50-57.
- Barsky AJ. Palpitations, arrhythmias and the awareness of cardiac activity. *Ann Int Med* 2001; 134:832-837.
- Nakao M, Myers P, Fricchione G, Zuttermeister PC, Barsky AJ, Benson H. Somatization and symptom reduction through a behavioral medicine intervention in a mind/body medicine clinic. *Behav Med* 2001; 26:169-176.
- Nakao M, Fricchione G, Zuttermeister PC, Myers P, Barsky AJ, Benson H. Effects of gender and marital status on somatic symptoms of patients attending a mind/body medicine clinic. *Behav Med* 2001; 26:159-168.
- Hammad M, Barsky AJ, Regestein QR. Correlation between Somatic Sensation Inventory scores and Hyperarousal Scale scores. *Psychosomatics* 2001; 42:29-34.
- Barsky AJ, Ahern DK, Bailey ED, Saintfort R, Liu EB, Peekna HM. Hypochondriacal patients' appraisal of health and physical risks. *Am J Psychiatry* 2001; 158:783-787.
- Barsky AJ, Peekna HM, Borus JF. Somatic symptom reporting in women and men. *J Gen Int Med* 2001; 16:1-10.
- Barsky AJ. Defining the functional somatic syndromes. *J Funct Syndromes* 2001; 1:14-20.
- Barsky AJ, Ettner SL, Horsky J, Bates DW. Resource utilization of patients with hypochondriacal health anxiety and somatization. *Med Care* 2001; 39:705-715.

Barsky AJ. The patient with hypochondriasis. *New Engl J Med* 2001; 345:1395-1399.

Nakao M, Barsky AJ, Kumano H, Kuboki T. Relationship between somatosensory amplification and alexithymia in a Japanese psychosomatic clinic. *Psychosomatics* 2002; 43:55-60.

Nakao M, Kumano H, Kuboki T, Barsky AJ. Reliability and validity of the Japanese version of the Somatosensory Amplification Scale: clinical application to psychosomatic illness. *Japan J Psychosom Med* 2002; 41:539-547.

Barsky AJ. Forgetting, fabricating and telescoping: The instability of the medical history. *Arch Int Med* 2002; 162:981-984.

Barsky AJ, Saintfort R, Rogers MP, Borus JF. Non-specific medication side effects and the nocebo phenomenon. *JAMA* 2002; 287:622-627.

Rahman MO, Barsky AJ. Self-reported health among older Bangladeshis: How good a health indicator is it? *The Gerontologist* 2003; 43:856-863.

Zane RD, McAfee AT, Sherburne S, Billeter G, Barsky AJ. Panic disorder and emergency services utilization. *Acad Emerg Med* 2003;10:1065-1069

Creed F, Barsky AJ. A systemic review of the epidemiology of somatization disorder and hypochondriasis. *J Psychosom Res* 2004; 56:391-408.

Barsky AJ, Ahern DK. Cognitive behavior therapy for hypochondriasis; a randomized controlled trial. *JAMA* 2004; 291:1464-1470.

Sayar K, Barsky AJ, Gulec H. Does somatosensory amplification decrease with antidepressant treatment? *Psychosomatics* 2005; 46:340-344.

Minden SL, Borus JF, Carbone LA, Barsky AJ, Fife A, Fricchione GL. Predictors and outcomes of delirium. *General Hosp Psychiat* 2005; 27:209-14.

Barsky AJ, Orav EJ, Bates DW: Somatization increases medical utilization and costs independent of psychiatric and medical comorbidity. *Arch Gen Psychiatry* 2005; 62:903-910.

Rief W, Barsky AJ: Psychobiological perspectives on somatoform disorders. *Psychoneuroendocrinology* 2005; 30:996-1002.

Rief W, Avorn J, Barsky AJ: Medication attributed side effects in placebo groups: implications for the assessment of side effects. *Arch Intern Med* 2006;166:155-60

Waldinger RJ, Schulz MS, Ahern DK, Barsky AJ: Mapping the road from childhood trauma to adult somatization: the role of attachment. *Psychosom, Med* 2006; 68:129-135.

Barsky AJ, Orav EJ, Bates DW: Distinctive patterns of medical care utilization in patients who somatize. *Med Care* 2006; 44:803-811.

Gitlin DF, Caplan JP, Rogers MP, Avni-Barron O, Braun I, Barsky AJ: Foreign body ingestion in patients with personality disorders. *Psychosomatics* 2007; 48:162-166.

Nakao M, Barsky AJ, Nishikatani M, Yano E, Murata K: Somatosensory amplification and its relationship to somatosensory, auditory, and visual evoked and event-related potentials. *Neuroscience Letters* 2007; 415:185-189.

Engel CC, Locke S, Reissman DB, DeMartino R, Kutz I, McDonald M, Barsky AJ: Terrorism, trauma, and mass casualty triage: How might we solve the latest mind/body problem? *Biosecurity and Bioterrorism* 2007; 5:155-163.

Stuart S, Noyes R, Starcevic V, Barsky AJ: An integrative approach to somatoform disorders combining interpersonal and cognitive-behavioral theory and techniques. *J Contemp Psychother* 2008; 38:45-53.

Busse JW, Reid S, Leznoff A, Barsky A, Qureshi R, Guyatt GH, for the Medically Unexplained Syndromes Study Group: Managing environmental sensitivities: An overview illustrated with a case report. *J Can Chiropr Assoc* 2008; 52:88-95

Nakao M, Barsky AJ: Clinical application of somatosensory amplification in psychosomatic medicine. *BioPsychoSocial Med* 2007; 1:17doi:10.1186/1751

Braun IM, Liang MH, Orav EJ, Barsky AJ: A personality characteristic, somatic absorption, and the perception of somatic symptoms in rheumatoid arthritis patients. *J Rheumatol* 2008; 35:1-8.

De Marinis V, Barsky AJ, Antin JH, Chang G: Health psychology and depressive disorders in mid-term HSCT recipients: a pilot study. *European J Cancer Care* 2009; 18:57-63.

Harris AM, Orav EJ, Bates DW, Barsky AJ: Somatization increases disability independent of comorbidity. *J Gen Intern Med* 2009; 24:155-161.

Sakai R, Nestoriuc Y, Nolido NV, Barsky AJ: The prevalence of personality disorders in hypochondriasis. *J Clin Psychiat* 2009; Accepted for publication.

Reif W, Nestoriuc Y, Weiss S, Welzel E, Barsky AJ, Hofmann SG: Meta-analysis of the placebo response in antidepressant trials. *J Affect Disord* 2009; Accepted for publication.

Rief W, Nestoriuc Y, von Lilienfeld-Toal A, Dogan I, Schreiber F, Hofmann S, Barsky AJ, Avorn J: Differences in adverse effect reporting in placebo groups in SSRI and tricyclic antidepressant trials. *Drug Safety* 2009; Accepted for publication.

Vranceanu AM, Barsky AJ, Ring D: Psychosocial aspects of disabling musculoskeletal pain. *J Bone Joint Surg* 2009; 91:2014-2018.

Green J, Querques J, Barsky A, Notman N: Somatic preoccupations of future pregnancy. *Harv Rev Psychiatry* 2009; accepted for publication.

Reviews, Letters and Abstracts:

Barsky AJ, Borus JF. Functional Somatic Syndromes (In Reply). *Ann Int Med* 2000; 132:329-330.

Barsky AJ. Hypochondriasis (In Reply). *New Engl J Med* 2002; 346:783-784.

Barsky AJ, Rogers MP, Borus JF. The nocebo and medication side-effects (In Reply). *JAMA* 2002; 287:2502

Barsky, AJ, Ahern, DK. Interventions for hypochondriasis in primary care (In Reply). *JAMA* 2004; 292:42-43

Chapters:

Barsky AJ. The Validity of Bodily Symptoms in Medical Outpatients. In: Stone A, Turkann JS, Bachrach CA, Jobe JB, Kurtzman HS, Cain VS, eds. *The Science of Self-Report: Implications for Research and Practice*. New York: Lawrence Erlbaum, 1999: 339-361.

Barsky AJ. Hypochondriasis. In: Ono Y, Janca A, Asai M, Sartorius N, eds. *Somatoform Disorders: A Worldwide Perspective*. Tokyo: Springer-Verlag, 1999: 73-79.

Barsky AJ. Somatosensory Amplification and Hypochondriasis. In: Starcevic V, Lipsitt DR, eds. *Hypochondriasis: Clinical, Theoretical and Treatment Aspects*. New York: Oxford University Press, 2000: 223-248.

Barsky AJ. Psychiatric and Behavioral Aspects of Cardiovascular Disease. In: Braunwald E, Zipes DP, Libby P, eds. *Heart Disease: A Textbook of Cardiovascular Medicine*. Philadelphia, PA: W.B. Saunders Co., 2001 (6th Edition):2244-2261; 2004 (7th Edition): 2129-2144.

Minden S, Saintfort R, Barsky AJ: Anxiety Disorders. In: Branch WI, ed. *Office Practice of Medicine*. St. Louis, MO: Mosby-Year Book, Inc., 2003 (4th Edition): 1199-1214.

Barsky AJ: Doctor, Are You Sure My Heart is OK? Cognitive Behavioral Treatment of Hypochondriasis. In: Spitzer RL, First MB, Williams JBW, Gibbon M: *DSM-IV TR Casebook, Volume 2*. Washington, DC: American Psychiatry Publishing, Inc, 2006: 251-595.

Fallon BA, Barsky AJ: Hypochondriasis. In: *Gabbard's Treatments of Psychiatric Disorders*. Washington DC: American Psychiatric Publishing, 2007 (4th Edition): 621-628.

Braun IM, Barsky AJ: Approach to the somatizing patient. In: Goroll AH, Mulley AG, eds. *Primary Care Medicine*, 6th Edition. New York, NY: Lippincott Williams and Wilkins, 2009: 1476-1480.

Braun IM, Barsky AJ: Approach to the angry patient. In: Goroll AH, Mulley AG, eds. *Primary Care Medicine*, 6th Edition. New York, NY: Lippincott Williams and Wilkins, 2009: 1481-1483.

Books:

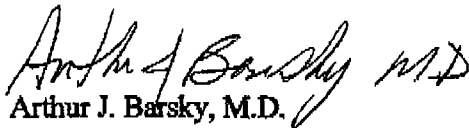
Barsky AJ, Deans, EC. *Stop Being Your Symptoms and Start Being Yourself*. New York: HarperCollins, 2006.

(v) Previous testimony

I have not testified as an expert at trial or by deposition in any case in the past four years.

(vi) Compensation

I am being compensated at the rate of \$450. per hour for all work in connection with this case.


Arthur J. Barsky, M.D.

Curriculum Vitae

Date Prepared: January 5, 2010

Name: Arthur J Barsky, III

Office Address: Vice Chair for Research, Department of Psychiatry, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115

Home Address: 268 Prince Street, West Newton, MA 02465

Work Phone: (617) 732-5236

Work E-Mail: abarsky@partners.org

Work FAX: (617) 278-6907

Place of Birth: New York, NY

Education:

1964 B.A. Williams College; Williamstown, Massachusetts
1969 M.D. Columbia University College of Physicians and Surgeons; New York, New York
1996 M.A. Harvard University (Honorary); Cambridge, Massachusetts

Postdoctoral Training:

Internship and Residency:

July 1969-June 1970 Intern in Medicine, Beth Israel Medical Center, New York, New York
July 1973-June 1976 Resident in Psychiatry, Massachusetts General Hospital,
Boston, Massachusetts

Licensure and Certification:

1973 California Certificate No. 03501376
1973 New York License No. 106675
1973 Massachusetts License Registration No. 35602
1977 American Board of Psychiatry and Neurology, Certificate No. 16696

Academic Appointments:

1973-1976 Clinical Fellow in Psychiatry, Harvard Medical School
1976-1979 Instructor in Psychiatry, Harvard Medical School
1980-1987 Assistant Professor of Psychiatry, Harvard Medical School
1987-1996 Associate Professor of Psychiatry, Harvard Medical School
1996- Professor of Psychiatry, Harvard Medical School

Hospital Appointments:

1976-1978	Clinical Assistant in Psychiatry, Massachusetts General Hospital
1976-1980	Staff Psychiatrist, The Cambridge Hospital
1979-1981	Assistant in Psychiatry, Massachusetts General Hospital
1982-1986	Assistant Psychiatrist, Massachusetts General Hospital
1987-1989	Associate Psychiatrist, Massachusetts General Hospital
1990-	Psychiatrist, Massachusetts General Hospital
1993-	Senior Psychiatrist, Brigham and Women's Hospital

Other Professional Positions and Major Visiting Appointments:

1970-1973	Senior Surgeon (03) U.S. Public Health Service. Health Services and Mental Health Administration, Department of Health, Education and Welfare
1980-1983	Director, Acute Psychiatry Fellowship Program, Massachusetts General Hospital
1985-1989	Fellow, Oliver Wendell Holmes Society, Harvard Medical School
1989	Roerig Visiting Professor in Psychiatry, University of Wisconsin Medical School, Milwaukee Clinical Campus
1992	Visiting Professor of Psychiatry, University of Illinois College of Medicine at Urbana-Champaign
1996	Pfizer Visiting Professor of Psychiatry, Georgetown University School of Medicine
1998	Visiting Professor, Departments of Medicine and Psychiatry, Allegheny University of the Health Sciences
2002	Visiting Professor, Department of Medicine, Susquehanna Health Systems
2006	Visiting Scholar, Positive Psychology Center, University of Pennsylvania
2007	Chambers Visiting Professor, Dartmouth Medical School
2009	American Psychosomatic Society Interest Group Visiting Professor, University of Medicine and Dentistry of New Jersey

Administrative Leadership Positions:

1976-1985	Director, Acute Psychiatry Service, Massachusetts General Hospital
1977-1993	Director of Psychiatry in Primary Care, Massachusetts General Hospital
1979-1993	Director, Primary Care Psychiatry Unit, Massachusetts General Hospital
1993-2001	Director of Psychosomatic Research, Brigham and Women's Hospital
2001-2009	Director of Psychiatric Research, Brigham and Women's Hospital
2009-	Vice Chair for Psychiatric Research, Brigham and Women's Hospital

Committee Service:*Harvard University and Harvard Medical School:*

1981	Harvard Medical School Committee on Teaching Psychiatry in Introduction to Clinical Medicine
1983-1985	Working Group on Smoking Behavior, Institute for the Study of Smoking Behavior and Policy, John F. Kennedy School of Government, Harvard University

Committee Service (cont.):

1988-1989	Harvard Medical School Patient/Doctor Policy Group
1994-2004	Mysell Award Committee, Consolidated Department of Psychiatry, Harvard Medical School
1994-1998	Director, Subcommittee on the Illness Experience, Harvard University Mind/Brain/Behavior Interfaculty Initiative
1995- 2002	Faculty Fellow, Harvard University Mind/Brain/Behavior Interfaculty Initiative
1996- 2001	Faculty Fellowship Committee, Harvard Medical School
1999- 2003	Clinician Teacher Longer Service Promotion Committee, Harvard Medical School
2000-	Board of Honors Tutors, Department of Psychology, Harvard University
2001-	Harvard Medical School Department of Psychiatry Research Committee (Chair 2003-2004)
2003-	Senior Common Room Member, Lowell House, Harvard University
2008-2011	Standing Committee on Promotions and Appointments, Harvard Medical School

Massachusetts General Hospital:

1976-1985	Residency Training Committee, Psychiatry Service
1976-1985	Emergency Ward/Overnight Ward Committee
1978-1986	Disaster Planning Committee
1979-1986	Disaster Director, Psychiatry Service
1986-1993	Out-Patient Policy Committee, Psychiatry Service
1988-1993	Steering Committee, Psychiatry Service
1989-1993	Research Committee, Psychiatry Service
1990-1991	Spaulding Rehabilitation Hospital/Massachusetts General Hospital Pain Program Review Group

Brigham and Women's Hospital:

1994-	Chair, Career Development Committee, Division of Psychiatry
1994-1995	Primary Care Psychiatry Task Force, Division of Psychiatry
1996-1997	Chair, Primary Care Provider/Psychiatry Task Force
1999- 2005	Partners Psychiatry and Mental Health Research Committee
1999-2005	Research Council
2000-2001	Quality Assurance/Quality Improvement Committee, Department of Psychiatry
2001- 2002	Dry Laboratory Research Space Committee
2001-2003	Disease Management Initiative Committee
2001-2009	Steering Committee, Department of Psychiatry
2002-2003	Partners Psychiatry and Mental Health Chair Search Committee
2003-2009	Trustee, Brigham and Women's Physicians' Organization
2003-	Clinical Investigation Committee
2003-2005	Clinical Research Planning Committee
2005-	Neurosciences Center Strategic Planning Committee
2005-	Brigham Research Institute Research Oversight Committee
2006-	Harvard Longwood Psychiatry Residency Training Program Research Committee

Committee Service (cont.):

2006-2008 High Performance Medicine Case Management Initiative
 2009- Leadership Council, Department of Psychiatry

National:

1977-1980 Member, Massachusetts Psychiatric Society Committee on
 Emergency Psychiatry
 1978-1979 Member, Massachusetts Psychiatric Society Committee on
 Primary Care Medicine
 1982-1986 Member, American Psychiatric Association Advisory Committee to
 Revise DSM-III Organic and Somatoform Mental Disorders
 1985-1986 Member, American Psychiatric Association Advisory Committee to
 Revise DSM-III for Cross-Cultural Use
 1989-1992 Senior Advisor, DSM-IV Subcommittee on Psychological Factors
 Affecting Physical Conditions
 1990-1992 Senior Advisor, DSM-IV Subcommittee on Psychological Systems
 Interface Disorders
 1997-2001 Councilor, American Psychosomatic Society
 1998-1999 Member, National Institute of Medicine Task Force on Strategies to
 Protect U.S. Forces
 1998-1999 Member, National Research Council Advisory Group, Strategies to Protect
 the Health of Deployed U.S. Forces
 1998-2003 Member, External Advisory Board, Harvard Pilgrim Health Care Research
 Infrastructure Support Program
 1999-2002 Member, Scientific Advisory Panel, American Psychiatric Institute for
 Research and Education
 2004-2006 Board Member, National Medical Follow-Up Agency, Institute of
 Medicine, National Academy of Sciences
 2006-2008 Member, Board on Military and Veteran's Health, Institute of Medicine,
 National Academy of Sciences
 2007- Member, DSM-V Somatoform Disorders Work Group
 2009- Member, National Network of Depression Centers

Professional Societies:

1976-1988 Member, American Psychiatric Association
 1979-1987 Member, Society for Research and Education in Primary Care Medicine
 1982- Member, American Psychosomatic Society
 1988-2003 Fellow, American Psychiatric Association
 1988-1997 Fellow, American College of Psychiatrists
 1989-1996 Member, American Psychopathological Association
 2003-2007 Distinguished Fellow, American Psychiatric Association
 2007- Distinguished Life Fellow, American Psychiatric Association

Grant Review Activities:

- 1992- Ad hoc Member, Services Research Review Group,
National Institute of Mental Health
- 1993 Member, Psychiatry Service Review Committee, Memorial Sloan-
Kettering Cancer Center, Cornell University Medical College
- 1993 Ad hoc Member, Behavioral Medicine Study Section,
National Institutes of Health
- 1998 Ad hoc Reviewer, Clinical Psychopathology Review Committee, National
Institute of Mental Health
- 2003 Ad hoc Reviewer, Special Emphasis Review Panel, Centers for
Interventions and Services Research, National Institute of Mental Health

Editorial Activities:*Editorial Boards:*

- 1992- Harvard Review of Psychiatry, General Editorial Board
- 1995-2000 Somatization Newsletter, Editorial Advisor
- 1997- Journal of Psychosomatic Research, Advisory Board
- 1998-2001 Harvard Review of Psychiatry, Clinical Challenges Editor
- 1998-2004 Psychiatric Networks, Editorial Board
- 2001-2005 Journal of Functional Syndromes, Editorial Board

Ad hoc Reviewer:

Archives of General Psychiatry
 American Journal of Psychiatry
 Journal of Nervous and Mental Disease
 Psychosomatic Medicine
 Psychosomatics
 Journal of Psychosomatic Research
 Annals of Internal Medicine
 New England Journal of Medicine
 Journal of the American Medical Association
 Archives of Internal Medicine
 Journal of General Internal Medicine
 Gastroenterology
 British Journal of Psychiatry
 British Medical Journal
 Journal of Abnormal Psychology

Honors and Prizes:

- 1964 Williams College Phi Beta Kappa, Magna Cum Laude, Graduation
with Highest Honors, Benedict Prize, Sophomore Honors, Dean's List
- 1990- Who's Who in the East; 23rd Edition
- 1990 Dorfman Journal Paper Award, Academy of Psychosomatic Medicine
- 1990 Certificate of Teaching Excellence, Harvard Medical School CME course,
Primary Care Internal Medicine

Honors and Prizes (cont.):

1991	Men and Women of Distinction, 4th World Edition
1996	Who's Who in Medicine & Health Care
1997	President's Guest Lecture, American Society for Surgery of the Hand
2004	President's Research Award, American Psychosomatic Society
2006	Boston's Best Doctors, <i>Boston Magazine</i>
2007-	Best Doctors in America
2007	Partners in Excellence Award
2009-	Who's Who in America

Research Funding:

1980-1983	Project Co-Director, N.I.M.H. Training Grant #MH16486; "Training for Acute Psychiatry in Mental Health Settings"
1986-2008	Principal Investigator, N.I.M.H. Research Grants R01-MH40487 01-03; MH40487 04-06; MH40487 07-10; MH40487 11-15; MH40487 16-19, "Hypochondriasis: Diagnosis, Description and Medical Care"
1989-1996	Principal Investigator, N.H.L.B.I. Research Grants R01-HL43216 01-03; HL43216 04-07, "Cardiac Arrhythmias and the Perception of Symptoms"
2000-2002	Principal Investigator, Aetna Quality Care Research Fund, "Ineffective Utilization, Somatization, and Undetected Psychiatric Disorder."
2001-2006	Principal Investigator, N.I.A.M.S. Research Grant R01-AR47014, "Relaxation Response, Somatic Style and Rheumatoid Arthritis."
2006-2011	Principal Investigator, NIMH Research Grant R01-MH71688, "Treatment of Hypochondriasis with CBT and/or SSRI."
2008-2011	Steering Committee Member, Positive Psychology and Physical Health Robert Wood Johnson Foundation

Teaching and Training:*Formal Teaching of Residents and Fellows:*

1975-1976	Organized and directed "Charisma Conference", Psychiatry Service, Massachusetts General Hospital
1976-1985	Acute Psychiatry Service teaching conference and case conference, Massachusetts General Hospital
1976-1993	Supervisor, lecturer, and case discussant, Primary Care Program, Massachusetts General Hospital
1976-1993	Introduction to Clinical Medicine, Massachusetts General Hospital
1980-1983	Principal Supervisor, Acute Psychiatry Fellowship Program, Massachusetts General Hospital
1981-1993	Supervisor, lecturer, case discussant, Primary Care Psychiatry Unit, Massachusetts General Hospital
1988-1993	Lecturer, case discussant, Acute Psychiatry Service; Psychiatric Inpatient Unit; Psychiatric Consultation Service, Massachusetts General Hospital
1993-2004	Supervisor, Psychiatric Consultation Liaison Service, Brigham and Women's Hospital

Teaching and Training (cont.):

1993-	Case conference discussant, clinical supervisor, seminar leader, and didactic presenter for psychiatry (PGY III & IV) and medicine (PGY I & II) trainees at Brigham and Women's Hospital, Massachusetts General Hospital, Beth Israel Deaconess Medical Center, Cambridge Hospital and Neighborhood Health Centers
2001-2007	Brigham and Women's Hospital, Humanistic Medicine, Department of Medicine
2002-2005	Harvard Medical School Psychiatry 700
2003-2008	Harvard Longwood Psychiatry Program Transition to Practice Seminar
2004-2009	Director, Brigham and Women's Hospital, Psychiatry Department Research Seminar
2004-2005-	Harvard Longwood Psychiatry Residency, Critical Thinking in Psychiatry Director, Brigham and Women's Hospital Medical Psychiatry Service journal club
2006-	Research Mentor, Harvard Longwood Psychiatry Residency Program
2006-2008	Director, Brigham and Women's Department of Psychiatry Faculty Forum
2006-	Academic Mentor, Medical Psychiatry Fellowship Program, Brigham and Women's Hospital

Selected Lectures and Addresses:*Academic Grand Rounds:*

1986	Clarke Institute of Psychiatry, Toronto
1986	University of Massachusetts Medical Center
1987	Louisiana State University School of Medicine
1988	Court Street Clinic, Veteran's Administration, Boston, MA
1989	Salem Hospital, Salem, MA
1989	The Carney Hospital, Brighton, MA
1989	Jordan Hospital, Plymouth, MA
1989	Norwood Hospital, Norwood, MA
1989	Harvard Medical School, Beth Israel Hospital (Anesthesia)
1989	University of New Mexico School of Medicine
1989	University of Minnesota School of Medicine
1989	University of Wisconsin Medical School, Milwaukee Clinical Campus (Medicine, Psychiatry)
1989	Harvard Medical School, Massachusetts General Hospital
1990	University of North Carolina School of Medicine (Medicine, Psychiatry)
1990	Hôpital Cantonal Universitaire de Genève, Geneva Switzerland (Medicine, Psychiatry)
1990	Harvard Medical School, Mount Auburn Hospital (Medicine, Psychiatry)
1991	Rush Medical College
1991	Henry Ford Hospital, Detroit, MI (Medicine, Psychiatry)
1992	Dartmouth Medical School/New Hampshire Hospital
1992	University of Massachusetts Medical School
1993	Cedars-Sinai Medical Center, Los Angeles, CA (Medicine)
1993	Brown University School of Medicine, Providence, RI

Selected Lectures and Addresses (cont.):

1994	Harvard Medical School, Massachusetts Mental Health Center
1995	Robert Wood Johnson Medical School, UMDNJ
1995	Oxford University, Warneford Hospital
1996	Georgetown University School of Medicine (Medicine, Psychiatry)
1997	Harvard Medical School, Beth Israel Deaconess Medical Center (Medicine)
1997	Harvard-Longwood Combined Psychiatry Program
1998	University of Texas Health Sciences Center, San Antonio, TX
1998	Harvard Medical School, The Cambridge Hospital (Medicine)
1999	Newton Wellesley Hospital, Newton, MA
1999	Lehigh Valley Hospital, Allentown, PA
1999	Stamford Hospital, Stamford, CT (Medicine, Psychiatry)
2000	Albert Einstein College of Medicine, Montefiore Hospital, New York, NY
2001	State University of New York, Stony Brook, NY
2001	Baystate Medical Center, Springfield, MA
2002	Spaulding Rehabilitation Hospital, Boston, MA
2002	Emerson Hospital, Concord, MA (Medicine)
2002	Harvard Longwood Combined Psychiatry Program
2003	Harvard Medical School, Massachusetts General Hospital (Medicine)
2004	Mount Auburn Hospital, Cambridge, MA
2005	Exeter Hospital, Exeter, NH
2005	Dartmouth Medical School, Hanover, NH
2007	Boston University Medical Center, Boston, MA
2008	Harvard Medical School, Massachusetts General Hospital Pain Center
2007	Harvard Medical School, Cambridge Hospital (Medicine)
2008	Harvard Longwood Psychiatry Grand Rounds, Boston, MA
2009	Brown University Alpert Medical School, Providence, RI

Invited Public Lectures and Symposia:

1987	Psychiatry Service First Anniversary Address, Lawrence Memorial Hospital, Medford, Massachusetts
1988	Keynote Address, Opening Ceremonies, London-Ontario Regional Cancer Centre
1989	Monadnock Summer Lyceum, Peterborough, New Hampshire
1989	Conference on "Medically Unexplained Symptoms, University of Connecticut Health Sciences Center
1989	Conference on "Healthy Pleasures," Massachusetts Institute of Technology
1989	Keynote Address, "Health Professionals for a Transforming System," Maine State Health Policy Advisory Council
1990	Symposium on Diagnosis and Management of Somatoform Disorders, Hôpital Cantonal Universitaire de Genève, Geneva, Switzerland
1991	Special Lecture, Ontario Psychiatric Association 71st Annual Meeting
1991	Symposium on Somatization and Panic Disorder, University of Washington, Department of Psychiatry
1993	Annual Scientific Symposium, Southern California Psychiatric Society
1994	Keynote Address, Symposium on "Functional Somatic Symptoms and Syndromes," University of Montreal, Faculty of Medicine

Selected Lectures and Addresses (cont.):

- 1995 Plenary Address, Royal College of Psychiatrists Liaison Section, Cambridge, England
- 1997 Keynote Address, Psychosomatic Medicine Research Day, University of Toronto, Faculty of Medicine
- 1997 International Symposium on Somatoform Disorders, World Health Organization, Prien, Germany
- 1997 Robert Kellner Research Lecture, University of New Mexico School of Medicine, Albuquerque, New Mexico
- 1998 Keio University International Symposium on Somatoform Disorders, Tokyo, Japan
- 1998 Fifth International Symposium, Controversies in Psychiatry, Barcelona, Spain
- 1998 Symposium on Anxiety Disorders, Argentine Congress of Psychiatry, Mar del Plata, Argentina
- 1998 Keynote Address, Japanese Society of Psychosomatic Medicine, Niigata Japan
- 1999 Seventh Biennial Regenstrief Institute Conference, Indianapolis, Indiana
- 1999 Pathophysiological Models of Functional Gastrointestinal Disorders, Key Biscayne, Florida
- 2000 Introductory Address, First International Congress on Functional Syndromes, Milan, Italy
- 2001 Seventh International Symposium, Controversies in Psychiatry, Barcelona, Spain
- 2001 Canadian Ministry of Defense Symposium on Multiple Chemical Sensitivity, Ottawa, Canada
- 2002 International Congress on Somatoform Disorders, Marburg, Germany
- 2002 Association of European Psychiatrists, 11th Congress, Stockholm, Sweden
- 2002 VI Congreso Nacional de Psiquiatria, Barcelona, Spain
- 2003 International Conference, The Placebo, Warsaw, Poland
- 2003 Royal College of Psychiatrists, Edinburgh, Scotland
- 2004 President's Guest Lecture, American Psychosomatic Society, Orlando, Florida
- 2004 American Association for the Advancement of Science, Seattle, Washington
- 2004 Peter Mencher Memorial Lecture, Winchester Hospital, Winchester, Massachusetts
- 2004 VI International Seminar on the State of the Art in Mental Health, Las Palmas, Canary Islands, Spain
- 2005 18th World Congress on Psychosomatic Medicine, Kobe, Japan
- 2006 Keynote Address, Annual Meeting, Alberta Psychiatric Association
- 2006 Plenary Address, Academy of Psychosomatic Medicine, Tucson, Arizona
- 2007 Invited Plenary Address, Royal Society of Medicine, Manchester, UK
- 2009 Boston University Clinical Psychology Department Colloquium

Original Reports:

1. Freidin RB, Barsky AJ, Levine D, Fox RC, Williams S. Medical education and physician behavior. *J Med Educ* 1972; 47:163-168.
2. Levine D, Barsky AJ, Fox RC, Freidin RB, Williams S. Trends in medical education research. *J Med Educ* 1974; 49:129-136.
3. Gillum RF, Barsky AJ. Diagnosis and management of patient noncompliance. *JAMA* 1974; 228:1563-1567.
4. Tancredi LT, Barsky AJ. Technology and health care decision making. *Med Care* 1974; 12:845-859.
5. Barsky AJ. Patient heal thyself: Activating the ambulatory medical patient. *J Chron Dis* 1976; 29:585-597.
6. Stewart RS, Barsky AJ, Stewart RM. Dynamic interactions affecting psychiatric research in a comprehensive health center. *J Amer Med Woman's Assoc* 1978; 33:470-478.
7. Barsky AJ, Stewart RS, Burns BJ, Sweet R, Regier D, Jacobson AM. Neighborhood health center patients who use minor tranquilizers. *Int'l J Addictions* 1979; 14:337-354.
8. Barsky AJ. Patients who amplify bodily sensations. *Ann Intern Med* 1979; 91:63-70.
9. Barsky AJ, Colpitts J, Green LJ. Walk-in patients' decisions about follow-up care. *J Nerv Ment Dis* 1979; 167:742-747.
10. Barsky AJ. Defining primary care psychiatry: origins, opportunities, and obstacles. *Comprehen Psychiat* 1980; 21:221-232.
11. Barsky AJ, Kazis LE, Freidin RB, Goroll AH, Hatem CJ, Lawrence RS. Evaluating the interview in primary care medicine. *Soc Sci & Med* 1981; 14A:653-658.
12. Barsky AJ. Hidden reasons some patients visit doctors. *Ann Intern Med* 1981; 94:492-498.
13. Barsky AJ, Brown HN. Psychiatric teaching and consultation in a primary care setting. *Psychosomatics* 1982; 23:908-921.
14. Barsky AJ, Klerman GL. Overview: hypochondriasis, bodily complaints, and somatic styles. *Am J Psychiatry* 1983; 140:273-283.
15. Barsky AJ. Nonpharmacological aspects of medication. *Arch Intern Med* 1983; 143:1544-1548.
16. Richter JM, Barsky AJ, Hupp JA. The treatment of depression in elderly patients. *J Fam Pract* 1983; 17:43-47.

Original Reports (cont.):

17. Bursztajn H, Barsky AJ. Facilitating patient acceptance of a psychiatric referral. *Arch Intern Med* 1985; 145:73-75.
18. Ellison JM, Blum N, Barsky AJ. Repeat visitors in the psychiatric emergency service: a critical review of the data. *Hosp and Comm Psychiat* 1986; 37:37-41.
19. Barsky AJ, Wyshak G, Klerman GL. Hypochondriasis: An evaluation of the *DSM-III* criteria in medical outpatients. *Arch Gen Psychiat* 1986; 43: 493-500.
20. Barsky AJ. Palliation and symptomatic relief. *Arch Intern Med* 1986; 146:905-909.
21. Barsky AJ, Wyshak G, Klerman GL. Medical and psychiatric determinants of outpatient medical utilization. *Med Care* 1986; 24:548-560.
22. Goodson JD, Goroll AH, Barsky AJ, Treadway KK, Thibault GE, Stoeckle JD. The training of physicians outside the hospital. *Arch Intern Med* 1986; 146:1805-1809.
23. Barsky AJ. Investigating the psychological aspects of Irritable Bowel Syndrome. *Gastroenterology* 1987; 93:902-904.
24. Barsky AJ. The paradox of health. *New Engl J Med* 1988; 318:414-418.
25. Barsky AJ, Goodson JD, Lane RS, Cleary PD. The amplification of somatic symptoms. *Psychosom Med* 1988; 50:510-519.
26. Lane RS, Barsky AJ, Goodson JD. Discomfort and disability in upper respiratory tract infection. *J Gen Intern Med* 1988; 3:540-546.
27. Barsky AJ, Geringer E, Wool C. A cognitive-educational treatment for hypochondriasis. *Gen Hosp Psychiat* 1988; 10:322-327.
28. Barsky AJ, Wyshak G. Hypochondriasis and related health attitudes. *Psychosomatics* 1989; 30:412-420.
29. Ellison JM, Blum NR, Barsky AJ. Frequent repeaters to a psychiatric emergency service. *Hosp and Comm Psychiat* 1989; 40:958-960.
30. Weinstein MC, Berwick DM, Goldman PA, Murphy JM, Barsky AJ. A comparison of three psychiatric screening tests using Receiver Operating Characteristic (ROC) analysis. *Med Care* 1989; 27:593-607.
31. Barsky AJ, Wyshak G, Klerman GL. Transient hypochondriasis. *Arch Gen Psychiat* 1990; 47:746-752.
32. Barsky AJ, Wyshak G, Latham KS, Klerman GL. The prevalence of hypochondriasis in medical outpatients. *Soc Psychiat & Psychiat Epidem* 1990; 25:89-94.
33. Barsky AJ, Wyshak G. Hypochondriasis and somatosensory amplification. *Brit J Psychiat* 1990; 157:404-409.

Original Reports (cont.):

34. Barsky AJ, Hochstrasser B, Coles AN, Zisfein J, O'Donnell C, Eagle KA. Silent myocardial ischemia: is the person or the event silent? *JAMA* 1990; 264:1132-1135.
35. Barsky AJ, Wyshak G, Latham KS, Klerman GL. The Somatosensory Amplification Scale and its relationship to hypochondriasis. *J Psychiat Res* 1990; 24:323-334.
36. Barsky AJ, Wyshak G, Klerman GL. The relationship between hypochondriasis and medical illness. *Arch Intern Med* 1991; 151:84-88.
37. Zoega T, Barr C, Barsky AJ. Prediction of compliance with medication and follow-up appointments. *Nord J Psychiat* 1991; 45:27-32.
38. Barsky AJ, Wyshak G, Latham KS, Klerman GL. Hypochondriacal patients, their physicians, and their medical care. *J Gen Intern Med* 1991; 6:413-419.
39. Berwick DM, Murphy J, Goldman P, Ware J, Barsky AJ, Weinstein M. Performance of a five-item mental health screening test. *Med Care* 1991; 29:169-176.
40. Wyshak G, Barsky AJ, Klerman GL. Comparison of psychiatric screening tests in a general hospital setting using ROC analysis. *Med Care* 1991; 29:775-785.
41. Barsky AJ, Frank CB, Cleary PD, Wyshak G, Klerman GL. The relation between hypochondriasis and age. *Am J Psychiat* 1991; 148:923-928.
42. Barsky AJ. Amplification, somatization, and the somatoform disorders. *Psychosomatics* 1992; 33:28-34.
43. Barsky AJ, Wyshak G, Klerman GL. Psychiatric comorbidity in DSM-III-R hypochondriasis. *Arch Gen Psychiat* 1992; 49:101-108.
44. Barsky AJ, Cleary PD, Wyshak G, Spitzer RL, Williams JBW, Klerman GL. A structured diagnostic interview for hypochondriasis: a proposed criterion standard. *J Nerv Ment Dis* 1992; 180:20-27.
45. Barsky AJ. Palpitations, cardiac awareness and panic disorder. *Am J Med* 1992; 92(Suppl 1A):31-34.
46. Barsky AJ, Cleary PD, Klerman GL. Determinants of perceived health status of medical outpatients. *Soc Sci & Med* 1992; 34:1147-1154.
47. Barsky AJ. Hypochondriasis and obsessive compulsive disorder. *Psychiatr Clin North Amer* 1992; 15:791-801.
48. Barsky AJ. The diagnosis and management of hypochondriacal symptoms in the elderly. *J Geriatr Psychiat* 1993; 26:129-141.
49. Barsky AJ, Cleary PD, Sarnie MK, Klerman GL. The course of transient hypochondriasis. *Am J Psychiat* 1993; 150:484-488.

Original Reports (cont.):

50. Barsky AJ, Coeytaux RR, Sarnie MK, Cleary PD. Hypochondriacal patients' beliefs about good health. *Am J Psychiat* 1993; 150:1085-1089.
51. Barsky AJ. A research agenda for outpatient consultation-liaison psychiatry. *Gen'l Hosp Psychiat* 1993; 15:381-385.
52. Barsky AJ, Cleary PD, Brener J, Ruskin JN. The perception of cardiac activity in medical outpatients. *Cardiol* 1993; 83:304-315.
53. Barsky AJ, Wool C, Barnett MC, Cleary PD. Histories of childhood trauma in adult hypochondriacal patients. *Am J Psychiat* 1994; 151:397-401.
54. Barsky AJ, Cleary PD, Sarnie MK, Ruskin JN. Panic disorder, palpitations, and the awareness of cardiac activity. *J Nerv Ment Dis* 1994; 182:63-71.
55. Wyshak G, Barsky AJ. Relationship between self-ratings and physician ratings of general health, depression, and anxiety. *Arch Fam Med* 1994; 3:419-424.
56. Barsky AJ, Cleary PD, Coeytaux RR, Ruskin JN. Psychiatric disorders in medical outpatients complaining of palpitations. *J Gen Intern Med* 1994; 9:306-313.
57. Wool CA, Barsky AJ. Do women somatize more than men? Gender differences in somatization. *Psychosomatics* 1994; 35:445-452.
58. Barsky AJ, Cleary PD, Barnett MC, Christiansen CL, Ruskin JN. The accuracy of symptom reporting in patients complaining of palpitations. *Am J Med* 1994; 97: 214-221.
59. Barsky AJ, Barnett MC, Cleary PD. Hypochondriasis and panic disorder: boundary and overlap. *Arch Gen Psychiat* 1994; 51:918-925.
60. Wyshak G, Barsky AJ. Satisfaction with and effectiveness of medical care in relation to anxiety and depression: patient and physician ratings compared. *Gen'l Hosp Psychiat* 1995; 17:108-114.
61. Barsky AJ, Brener J, Coeytaux RR, Cleary PD. Accurate awareness of heartbeat in hypochondriacal and non-hypochondriacal patients. *J Psychosom Res* 1995; 39:489-497.
62. Barsky AJ. Somatoform disorders and personality traits. *J Psychosom Res* 1995; 39:399-402.
63. Barsky AJ, Cleary PD, Coeytaux RR, Ruskin JN. The clinical course of palpitations in medical outpatients. *Arch Intern Med* 1995; 155:1782-1788.
64. Barsky, AJ, Borus, JF. Somatization and medicalization in the era of managed care. *JAMA* 1995; 274:1931-1934.
65. Barsky AJ. Hypochondriasis: medical management and psychiatric treatment. *Psychosomatics* 1996; 37:48-56.

Original Reports (cont.):

66. Barsky AJ, Ahern DK, Bailey ED, Delamater BA. Predictors of persistent palpitations and continued medical utilization. *J Fam Pract* 1996; 42:465-472.
67. Barsky AJ, Delamater BA, Clancy SA, Antman EM, Ahern DK. Somatized psychiatric disorder presenting as palpitations. *Arch Int Med* 1996; 156:1102-1108.
68. Barsky AJ, Ahern DK, Delamater BA, Clancy S, Bailey ED. Differential diagnosis of palpitations: Preliminary development of a screening instrument. *Arch Fam Med* 1997; 6:241-245.
69. Barsky AJ. Clinical Crossroads: A 37-year old man with multiple somatic complaints. *JAMA*, 1997; 278:673-679.
70. Barsky AJ, Ahern DK, Brener J, Surman OS, Ring C, Dec GW. Palpitations and cardiac awareness after heart transplantation. *Psychosom Med* 1998; 60:557-562.
71. Barsky AJ, Orav JE, Delamater BD, Clancy SA, Hartley LH. Cardiorespiratory symptoms in response to physiological arousal. *Psychosom Med* 1998; 60:604-609.
72. Barsky AJ, Delamater BA, Orav JE. Panic disorder patients and their medical care. *Psychosomatics* 1999; 40:50-56.
73. Barsky AJ. A comprehensive approach to the chronically somatizing patient. *J Psychosom Res* 1998; 45:301-306.
74. Barsky AJ, Fama JM, Bailey ED, Ahern DK. A prospective 4-5 year study of DSM-III-R hypochondriasis. *Arch Gen Psychiat* 1998; 55:737-744.
75. Brown HD, Kosslyn SM, Delamater BA, Fama J, Barsky AJ. Perceptual and memory biases for health-related information in hypochondriacal individuals. *J Psychosom Res* 1999; 47:67-78.
76. Barsky AJ, Orav JE, Ahern DK, Rogers MP, Gruen SD, Liang MH. Somatic style and symptom reporting in rheumatoid arthritis. *Psychosomatics* 1999; 40:396-403.
77. Barsky AJ, Borus JF. Functional somatic syndromes. *Ann Int Med* 1999; 130:910-921.
78. Barsky AJ. Understanding and managing hypochondriasis. *Japan J Psychosom Med* 1999; 39:325-333.
79. Van der Does AJW, Antony MM, Ehlers A, Barsky AJ. Heartbeat perception in panic disorder: A re-analysis. *Behav Res Ther* 2000; 38:47-62.
80. Barsky AJ, Bailey ED, Fama JM, Ahern DK. Predictors of remission in DSM hypochondriasis. *Comprehens Psychiat* 2000; 41:179-183.
81. Borus JF, Barsky AJ, Carbone LA, Fife A, Fricchione GL, Minden SL. C-L cost offset: searching for the wrong grain. *Psychosomatics* 2000; 41:285-288.

Original Reports (cont.):

82. Carbone LA, Barsky AJ, Orav EJ, Fife A, Fricchione GL, Minden SL, Borus JF. Psychiatric symptoms and medical utilization in primary care patients. *Psychosomatics* 2000; 41:512-518.
83. Nakao M, Fricchione G, Myers P, Zuttermeister PC, Barsky AJ, Benson H. Depression and education as predicting factors for completion of behavioral medicine intervention in a mind/body medicine clinic. *Behav Med* 2001; 26:177-188.
84. Nakao M, Fricchione G, Myers P, Zuttermeister PC, Baim M, Mandle CL, Medich C, Wells-Federman CL, Arcari PM, Ennis M, Barsky AJ, Benson H. Anxiety is a good indicator for somatic symptom reduction through a behavioral medicine intervention in a mind/body medicine clinic. *Psychother Psychosom* 2001; 70:50-57.
85. Barsky AJ. Palpitations, arrhythmias and the awareness of cardiac activity. *Ann Int Med* 2001; 134:832-837.
86. Nakao M, Myers P, Fricchione G, Zuttermeister PC, Barsky AJ, Benson H. Somatization and symptom reduction through a behavioral medicine intervention in a mind/body medicine clinic. *Behav Med* 2001; 26:169-176.
87. Nakao M, Fricchione G, Zuttermeister PC, Myers P, Barsky AJ, Benson H. Effects of gender and marital status on somatic symptoms of patients attending a mind/body medicine clinic. *Behav Med* 2001; 26:159-168.
88. Hammad M, Barsky AJ, Regestein QR. Correlation between Somatic Sensation Inventory scores and Hyperarousal Scale scores. *Psychosomatics* 2001; 42:29-34.
89. Barsky AJ, Ahern DK, Bailey ED, Saintfort R, Liu EB, Peekna HM. Hypochondriacal patients' appraisal of health and physical risks. *Am J Psychiatry* 2001; 158:783-787.
90. Barsky AJ, Peekna HM, Borus JF. Somatic symptom reporting in women and men. *J Gen Int Med* 2001; 16:1-10.
91. Barsky AJ. Defining the functional somatic syndromes. *J Funct Syndromes* 2001; 1:14-20.
92. Barsky AJ, Ettner SL, Horsky J, Bates DW. Resource utilization of patients with hypochondriacal health anxiety and somatization. *Med Care* 2001; 39:705-715.
93. Barsky AJ. The patient with hypochondriasis. *New Engl J Med* 2001; 345:1395-1399.
94. Nakao M, Barsky AJ, Kumano H, Kuboki T. Relationship between somatosensory amplification and alexithymia in a Japanese psychosomatic clinic. *Psychosomatics* 2002; 43:55-60.
95. Nakao M, Kumano H, Kuboki T, Barsky AJ. Reliability and validity of the Japanese version of the Somatosensory Amplification Scale: clinical application to psychosomatic illness. *Japan J Psychosom Med* 2002; 41:539-547.

Original Reports (cont.):

96. Barsky AJ. Forgetting, fabricating and telescoping: The instability of the medical history. *Arch Int Med* 2002; 162:981-984.
97. Barsky AJ, Saintfort R, Rogers MP, Borus JF. Non-specific medication side effects and the placebo phenomenon. *JAMA* 2002; 287:622-627.
98. Rahman MO, Barsky AJ. Self-reported health among older Bangladeshis: How good a health indicator is it? *The Gerontologist* 2003; 43:856-863.
99. Zane RD, McAfee AT, Sherburne S, Billeter G, Barsky AJ. Panic disorder and emergency services utilization. *Acad Emerg Med* 2003;10:1065-1069
100. Creed F, Barsky AJ. A systemic review of the epidemiology of somatization disorder and hypochondriasis. *J Psychosom Res* 2004; 56:391-408.
101. Barsky AJ, Ahern DK. Cognitive behavior therapy for hypochondriasis; a randomized controlled trial. *JAMA* 2004; 291:1464-1470.
102. Sayar K, Barsky AJ, Gulec H. Does somatosensory amplification decrease with antidepressant treatment? *Psychosomatics* 2005; 46:340-344.
103. Minden SL, Borus JF, Carbone LA, Barsky AJ, Fife A, Fricchione GL. Predictors and outcomes of delirium. *General Hosp Psychiat* 2005; 27:209-14.
104. Barsky AJ, Orav EJ, Bates DW: Somatization increases medical utilization and costs independent of psychiatric and medical comorbidity. *Arch Gen Psychiatry* 2005; 62:903-910.
105. Rief W, Barsky AJ: Psychobiological perspectives on somatoform disorders. *Psychoneuroendocrinology* 2005; 30:996-1002.
106. Rief W, Avorn J, Barsky AJ: Medication attributed side effects in placebo groups: implications for the assessment of side effects. *Arch Intern Med* 2006;166:155-60
107. Waldinger RJ, Schulz MS, Ahern DK, Barsky AJ: Mapping the road from childhood trauma to adult somatization: the role of attachment. *Psychosom, Med* 2006; 68:129-135.
108. Barsky AJ, Orav EJ, Bates DW: Distinctive patterns of medical care utilization in patients who somatize. *Med Care* 2006; 44:803-811.
109. Gitlin DF, Caplan JP, Rogers MP, Avni-Barron O, Braun I, Barsky AJ: Foreign body ingestion in patients with personality disorders. *Psychosomatics* 2007; 48:162-166.
110. Nakao M, Barsky AJ, Nishikatani M, Yano E, Murata K: Somatosensory amplification and its relationship to somatosensory, auditory, and visual evoked and event-related potentials. *Neuroscience Letters* 2007; 415:185-189.

Original Reports (cont.):

111. Engel CC, Locke S, Reissman DB, DeMartino R, Kutz I, McDonald M, Barsky AJ: Terrorism, trauma, and mass casualty triage: How might we solve the latest mind/body problem? *Biosecurity and Bioterrorism* 2007; 5:155-163.
112. Stuart S, Noyes R, Starcevic V, Barsky AJ: An integrative approach to somatoform disorders combining interpersonal and cognitive-behavioral theory and techniques. *J Contemp Psychother* 2008; 38:45-53.
113. Busse JW, Reid S, Leznoff A, Barsky A, Qureshi R, Guyatt GH, for the Medically Unexplained Syndromes Study Group: Managing environmental sensitivities: An overview illustrated with a case report. *J Can Chiropr Assoc* 2008; 52:88-95
114. Nakao M, Barsky AJ: Clinical application of somatosensory amplification in psychosomatic medicine. *BioPsychoSocial Med* 2007; 1:17doi:10.1186/1751
115. Braun IM, Liang MH, Orav EJ, Barsky AJ: A personality characteristic, somatic absorption, and the perception of somatic symptoms in rheumatoid arthritis patients. *J Rheumatol* 2008; 35:1-8.
116. De Marinis V, Barsky AJ, Antin JH, Chang G: Health psychology and depressive disorders in mid-term HSCT recipients: a pilot study. *European J Cancer Care* 2009; 18:57-63.
117. Harris AM, Orav EJ, Bates DW, Barsky AJ: Somatization increases disability independent of comorbidity. *J Gen Intern Med* 2009; 24:155-161.
118. Sakai R, Nestoriuc Y, Nolido NV, Barsky AJ: The prevalence of personality disorders in hypochondriasis. *J Clin Psychiat* 2009; Accepted for publication.
119. Reif W, Nestoriuc Y, Weiss S, Welzel E, Barsky AJ, Hofmann SG: Meta-analysis of the placebo response in antidepressant trials. *J Affect Disord* 2009; Accepted for publication.
120. Rief W, Nestoriuc Y, von Lilienfeld-Toal A, Dogan I, Schreiber F, Hofmann S, Barsky AJ, Avorn J: Differences in adverse effect reporting in placebo groups in SSRI and tricyclic antidepressant trials. *Drug Safety* 2009; Accepted for publication.
121. Vranceanu AM, Barsky AJ, Ring D: Psychosocial aspects of disabling musculoskeletal pain. *J Bone Joint Surg* 2009; 91:2014-2018.
122. Green J, Querques J, Barsky A, Notman N: Somatic preoccupations of future pregnancy. *Harv Rev Psychiatry* 2009; accepted for publication.

Reviews, Letters and Abstracts:

1. Barsky AJ. Review of: Mumford E, *Interns: From Students to Physicians*. *J Nerv Ment Dis* 1974; 159:224-225.
2. Barsky AJ. Review of: Haynes RB, Taylor DW, Sackett DL, *Compliance in Health Care*. *Soc Sci & Med* 1980; 14:229-230.

Reviews, Letters and Abstracts (cont.):

3. Barsky AJ. Review of: Williams P, Clare A, Psychosocial Disorders in General Practice. Soc Sci & Med 1982; 16:843.
4. Barsky AJ, Klerman GL. Hypochondriasis. Harvard Medical School Mental Health Letter 1985; 2:4-6.
5. Barsky AJ. The Medical Forum: Pain and Suffering. Harvard Medical School Health Letter 1986; 11:5-8.
6. Barsky AJ. The Paradox of Health (In Reply). New Engl J Med 1988; 319:378-379.
7. Barsky AJ. Fitness Mania: The body as our temple. Harvard Medical Alumni Bulletin 1989 (Spring); 11-15.
8. Barsky AJ, Coles NA, O'Donnell C, Eagle KA. Denial and silent ischemia: which comes first? (In Reply). JAMA 1991; 265:213.
9. Barsky AJ, Wyshak G, Klerman GL. Transient hypochondriasis: a new somatoform diagnosis? (In Reply). Arch Gen Psychiat 1991; 48:955-956.
10. Barsky AJ, Brener J, Ring C. Clinical aspects of cardiac interoception: cardiac patients versus age-matched controls. Psychophysiol 1991; 28 (suppl 3A):S11.
11. Coles NA, O'Donnell C, Muluk V, Zisfein JP, Barsky AJ, Hochstrasser B, et al. Comparative usefulness of pre-discharge Holter and Thallium for post-MI risk stratification. Circulation 1992; 86 (suppl):I-139.
12. Barsky AJ, Cleary PD, Coeytaux RR, Ruskin JN. Psychiatric disorder in medical outpatients complaining of palpitations. Psychosom Med 1993; 55:130-131 (Abstr).
13. Barsky AJ. Forum: How does hypochondriasis differ from normal concerns about health? Harvard Mental Health Letter 1993; 10:8.
14. Barsky AJ. Gerald L. Klerman: Teacher, Mentor, Educator. Harvard Rev Psychiat 1994; 1:305.
15. Barsky AJ, Borus JF. Somatization & Medicalization (In Reply). JAMA 1996; 275: 1399.
16. Barsky AJ, Baszenger I, Bradley L, Casey K, Chapman CR, Gracely R, et al. Perspectives on pain-related suffering: presentations and discussions. Adv Mind-Body Med 1998; 14:167-203.
17. Barsky AJ, Borus JF. Functional Somatic Syndromes (In Reply). Ann Int Med 2000; 132:329-330.
18. Barsky AJ. Hypochondriasis (In Reply). New Engl J Med 2002; 346:783-784.

Reviews, Letters and Abstracts (cont.):

19. Barsky AJ, Rogers MP, Borus JF. The nocebo and medication side-effects (In Reply). *JAMA* 2002; 287:2502
20. Barsky, AJ, Ahern, DK. Interventions for hypochondriasis in primary care (In Reply). *JAMA* 2004; 292:42-43

Chapters:

1. Barsky AJ. Applications of psychiatry to primary care medicine. In: Lazare A, ed. *Out-Patient Psychiatry: Diagnosis and Treatment*. Baltimore: Williams and Wilkins, 1979:548-560.
2. Barsky AJ. Psychiatric and behavioral problems. In: Goroll AH, May L, Mulley A, eds. *Primary Care Medicine*. Philadelphia: JB Lippincott Co., 1981 (1st Edition):788-818; 1986 (2nd Edition):932-936; 2000 (4th Edition): 1183-1188
3. Stoeckle JD, Barsky AJ. Attributions: uses of social science knowledge in the "doctoring" of primary care. In: Eisenberg L, Kleinman A, eds. *The Relevance of Social Science for Medicine*. Boston: D Reidel, 1981:233-240.
4. Barsky AJ. Acute psychosis. In: Bassuk E, Jacobs D, eds. *Emergency Psychiatric Care*. New York: Plenum Press, 1984:195-218.
5. Barsky AJ. Somatoform Disorders. In: Kaplan HI, Sadock BJ, eds. *Comprehensive Textbook of Psychiatry*. Baltimore: Williams and Wilkins, (Fifth Edition), 1989:1009-1027.
6. Barsky AJ. The First Week in July. In: Messner E, Schwartz J, Groves JE, eds. *Autognosis-Psychotherapists Analyze Themselves*. New York: Jason Aronson, Inc., 1989:8-11.
7. Barsky AJ. Patients Who Amplify Bodily Sensations. In: Garza-Trevino ES, ed. *Medical Psychiatry; Theory and Practice, Vol I*. Teaneck, NJ: World Scientific, 1989:203-232.
8. Barsky AJ. Somatoform Disorders. In: Hyman SE, Jenike MA, eds. *Manual of Clinical Problems in Psychiatry*. Boston: Little, Brown and Company, 1990:177-189.
9. Cassem NH, Barsky AJ. Functional Somatic Symptoms and Somatoform Disorders. In: Cassem NH, ed. *Massachusetts General Hospital Handbook of General Hospital Psychiatry*. St. Louis, MO: Mosby-Year Book, Inc., 1991:131-158.
10. Barsky, AJ. Hypochondriasis. In: *OCD Casebook, Vol II: Spectrum Disorders*. Fairview, NJ: CoCensys, 1995:1-8.

Chapters (cont.):

11. Barsky AJ, Stern TA, Greenberg DB, Cassem NH. Functional Somatic Symptoms and Somatoform Disorders. In: Cassem NH, Stern TA, Rosenbaum JF, Jellinek MS, Fricchone GL, eds. *Massachusetts General Hospital Handbook of General Hospital Psychiatry*. St. Louis, MO: Mosby, 1997 (4th Edition):305-330; 2004 (5th Edition):269-291.
12. Barsky AJ. The Validity of Bodily Symptoms in Medical Outpatients. In: Stone A, Turkann JS, Bachrach CA, Jobe JB, Kurtzman HS, Cain VS, eds. *The Science of Self-Report: Implications for Research and Practice*. New York: Lawrence Erlbaum, 1999: 339-361.
13. Barsky AJ. Hypochondriasis. In: Ono Y, Janca A, Asai M, Sartorius N, eds. *Somatoform Disorders: A Worldwide Perspective*. Tokyo: Springer-Verlag, 1999: 73-79.
14. Barsky AJ. Somatosensory Amplification and Hypochondriasis. In: Starcevic V, Lipsitt DR, eds. *Hypochondriasis: Clinical, Theoretical and Treatment Aspects*. New York: Oxford University Press, 2000: 223-248.
15. Barsky AJ. Psychiatric and Behavioral Aspects of Cardiovascular Disease. In: Braunwald E, Zipes DP, Libby P, eds. *Heart Disease: A Textbook of Cardiovascular Medicine*. Philadelphia, PA: W.B. Saunders Co., 2001 (6th Edition):2244-2261; 2004 (7th Edition):2129-2144.
16. Minden S, Saintfort R, Barsky AJ: Anxiety Disorders. In: Branch WI, ed. *Office Practice of Medicine*. St. Louis, MO: Mosby-Year Book, Inc., 2003 (4th Edition):1199-1214.
17. Barsky AJ: Doctor, Are You Sure My Heart is OK? Cognitive Behavioral Treatment of Hypochondriasis. In: Spitzer RL, First MB, Williams JBW, Gibbon M: *DSM-IV TR Casebook, Volume 2*. Washington, DC: American Psychiatry Publishing, Inc, 2006: 251-595.
18. Fallon BA, Barsky AJ: Hypochondriasis. In: *Gabbard's Treatments of Psychiatric Disorders*. Washington DC: American Psychiatric Publishing, 2007 (4th Edition): 621-628.
19. Braun IM, Barsky AJ: Approach to the somatizing patient. In: Goroll AH, Mulley AG, eds. *Primary Care Medicine*, 6th Edition. New York, NY: Lippincott Williams and Wilkins, 2009: 1476-1480.
20. Braun IM, Barsky AJ: Approach to the angry patient. In: Goroll AH, Mulley AG, eds. *Primary Care Medicine*, 6th Edition. New York, NY: Lippincott Williams and Wilkins, 2009: 1481-1483.

Books:

1. Barsky AJ. *Worried Sick; Our Troubled Quest for Wellness*. Boston: Little, Brown and Co., 1988.
2. Barsky AJ, Deans, EC. *Stop Being Your Symptoms and Start Being Yourself*. New York: HarperCollins, 2006.


Narrative Report
Arthur J. Barsky, M.D.

My academic career has been primarily devoted to the clinical investigation of the process of somatization, the treatment of the somatoform disorders, and the palliation of somatic symptoms in the medically ill. I have completed a series of R-01 investigations that have built incrementally on each other. These studies have been supported continuously for 22 years by the NIMH, NIAMS, and NHLBI. I began by conducting some of the earliest descriptive, phenomenological and epidemiological investigations of hypochondriasis in general medical settings. This descriptive work led to the development of a conceptual model of hypochondriasis as a cognitive and perceptual disorder of somatosensory amplification. This pathogenic model then led to the development of a cognitive/behavior therapy that was manualized and tested in a large scale, randomized, controlled efficacy trial that demonstrated statistically significant and clinically meaningful benefit 6 and 12 months after treatment. The next step was an effectiveness trial of this therapy in a typical, community primary care practice, a study now in its final year. I am also currently the Principal Investigator of a four-armed, randomized, controlled trial comparing this cognitive behavioral therapy with fluoxetine for the treatment of DSM hypochondriasis.


I have also applied this model of somatosensory amplification to examine the wide inter-individual variability in symptom severity and role impairment among individuals with the same serious, medical illness. This has involved two studies of the relationship between cardiac arrhythmias and the report of palpitations, and a three-armed, randomized, controlled intervention trial of cognitive-behavior therapy to palliate symptom severity and improve role function in rheumatoid arthritis. These studies are compatible with the hypothesis that the same self-validating and self-perpetuating mechanism of symptom amplification that is active in hypochondriasis can also exacerbate the symptoms of major medical illness.

This work has resulted in 121 original reports in refereed journals, including first authored papers in the *New England Journal of Medicine* (2), the *Journal of the American Medical Association* (6), the *Archives of General Psychiatry* (6), the *American Journal of Psychiatry* (6), and the *Annals of Internal Medicine* (4). I have also published 20 reviews and letters and 20 book chapters. I have also authored two books: *Worried Sick: Our Troubled Quest for Wellness* (Little, Brown and Co.), and *Feeling Better* (Harper Collins).

I have lectured and presented this work at numerous professional meetings regionally, nationally, and internationally. I have received the President's Research Award of the American Psychosomatic Society and am a Distinguished Life Fellow of the American Psychiatric Association. I have been a Fellow of the American College of Psychiatrists, and have served on the Council of the American Psychosomatic Society. I am a member of the DSM V Somatoform Disorder Work Group. I have been a Faculty Fellow of the Mind/Brain/Behavior Interfaculty Initiative of Harvard University, and chaired one of its interdisciplinary work groups on the experience of illness. I have been a Visiting Professor at the Georgetown University School of Medicine, the University of Wisconsin Medical School, the University of Illinois College of Medicine, Dartmouth Medical School, and the Allegheny University of the Health Sciences.

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Cc: Darling, Jr., Ray H.; gottlieb.ronald@dol.gov; phillips.heather@dol.gov; james.charles@dol.gov; Willis Goldsmith (wgoldsmith@jonesday.com); Jacqueline Holmes (jholmes@JonesDay.com); Fellner, Baruch A.; Schwartz, Jason C.; Martin, Scott P.; Rathbun, Daniel Patrick
Subject: OSHRC Docket No. 09-1013: Exhibit C to Filing by Respondent Wal-Mart Stores, Inc.
Attachments:  [09-1013 Respondent's Exhibit C to Respondent's Opening Brief.pdf\(1MB\)](#)

Attached please find Exhibit C to the Opening Brief for Respondent in the above-captioned matter.

Daniel P. Rathbun

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