

## **EXHIBIT 47**

Declaration of Rachel Clattenburg  
*Public Citizen v. FDA et al.*, 16-cv-781

**Mara L. Becker, M.D., M.S.C.E.**

5415 Locust Street  
 Kansas City, MO 64110  
 (816) 234-3686  
 (816) 302-9962  
[mlbecker@cmh.edu](mailto:mlbecker@cmh.edu)

<b>Education</b>	
Fellow, Clinical Pharmacology, Children's Mercy Hospitals and Clinics	2009-2012
Masters of Science in Clinical Epidemiology, University of Pennsylvania, Philadelphia, PA	2004-2007
Fellowship in Pediatric Rheumatology, Thomas Jefferson University/Nemours Foundation, DuPont Hospital for Children, Wilmington, DE	2003-2006
Residency in Pediatrics, Thomas Jefferson University/Nemours Foundation, DuPont Hospital for Children, Wilmington, DE	1999-2003
M.D., Jefferson Medical College, Philadelphia, PA	1995-1999
B.A. in General Arts and Sciences, Minor in Art History (with Distinction), Pennsylvania State University, State College, PA	1990-12/1994
<b>Appointments</b>	
Associate Professor Department of Pediatrics University of Missouri at Kansas City Children's Mercy Hospital 2401 Gillham Rd Kansas City, MO, 64108	July 2011
Assistant Professor Department of Pediatrics University of Missouri at Kansas City Children's Mercy Hospital 2401 Gillham Rd Kansas City, MO, 64108	2006-June 2011
Chief Resident Department of Pediatrics Thomas Jefferson University/ duPont Hospital for Children Wilmington, DE	2002-2003
<b>Other Positions and Employment</b>	
Division Director, Rheumatology Children's Mercy, Kansas City	January 2013-current
<b>Certification and Licensure</b>	
Certification in Pediatric Rheumatology	2006
Certification in General Pediatrics	2002, 2012
USMLE Step 3	2000
USMLE Step 2	1998
USMLE Step 1	1997
Medical License, State of Kansas (#04-31860)	2006
Medical License, State of Missouri (# 2006016507)	2006

<p>Arthritis Foundation  Innovative Research Grant  PI: Kimura                      Co-investigator: <b>ML Becker [site PI]</b>  Title: "CARRA Consensus treatment Plan for Systemic Juvenile idiopathic Arthritis (CTP-sJIA)"</p>	<p>2012-2014</p>
<p>(b) (4)  (b) (4)  Investigator: <b>ML Becker [Principal Coordinating Investigator]</b>  (b) (4)</p>	<p>2014-2015</p>
<p>(b) (4)</p>	<p>2011-2015</p>
<p><b>Current:</b></p>	
<p>Rheumatology Research Foundation R Bridge Award  PI: <b>ML Becker</b>  <i>Integrated Approach to Individualizing Therapy with MTX in JIA</i></p>	<p>2014-2016</p>
<p>NIH U34 PREVENT Clinical Trial Planning Grant  PIs: Beukelman and Ilowite  Investigator: <b>ML Becker [Advisor/Trial design/biospecimens]</b>  <i>Prospective Randomized Trial of the Effectiveness of Methotrexate to Prevent Extension of Limited JIA</i></p>	<p>2014-2015</p>
<p>(b) (4)  PI: (b) (4)                      Investigator: <b>ML Becker[site PI]</b>  (b) (4)</p>	<p>2013-current</p>
<p>2 PO1 AR048929-06  PI: Thompson  PI, Project 2: Lovell                      Co-Investigator: <b>ML Becker [site -PI]</b>  Title: "Gene Expression in Pediatric Arthritis"  Project 2 – <i>Advanced Therapies in JIA Towards Predictive Treatment</i></p>	<p>2013-2016</p>
<p>NIH Loan Repayment Program (initiated 2011, renewed x 2)  PI: Becker  <i>Integrated Approach to Individualizing therapy with MTX in JIA</i></p>	<p>2015-2017</p>
<p><b>Patents</b>  N/A</p>	
<p><b>Editorial Work</b></p>	

<p>Journals:</p> <p>Respiration  Pediatrics  Clinical Pharmacology and Therapeutics  Journal of Rheumatology  Current Drug Safety  Pharmacogenetics and Genomics  Medical Science Monitor  Arthritis Care and Research  British Journal of Dermatology  British Journal of Pharmacology  Arthritis and Rheumatology</p>	<p>2007  2009-current  2010-current  2010-current  2010-current  2010-current  2010-current  2012-current  2013-current  2015-current  2015-current</p>
<p><b>Abstracts and Presentations</b></p>	
<p><b>Oral Presentations</b>  <u>National/International Meetings</u></p>	
<p>(b) (4)</p>	
<p>Kessler EA, Smith C, Anderson R, <b>Becker M.</b> Cost of Care Associated With Pediatric Rheumatology Clinic Visits and Interest in Telemedicine. American Telemedicine Association Conference, Los Angeles, CA, May 5, 2015</p>	<p>2015</p>
<p>van Haandel L (b) (6) Funk RS, Ibarra MI, Hoeltzel MF, Lasky A, Dai D, Gaedigk R, Leeder JS, <b>Becker ML</b> Degree of Initial Intracellular Folate Depletion May Predict Methotrexate Response in Juvenile Idiopathic Arthritis American College of Rheumatology annual meeting, Washington, DC November 14, 2012</p>	<p>2012</p>
<p>Fox, E (b) (6) Gibson M, Zhang LQ, Ye SQ, Leeder JS, <b>Becker ML</b> Decreased Expression of Nicotinamide Phosphoribosyltransferase (NAMPT) in Active Juvenile Idiopathic Arthritis Patients Receiving Methotrexate. American College of Rheumatology annual meeting, Chicago November 6, 2011</p>	<p>2011</p>
<p>Patel D (b) (6) Newell B, <b>Becker ML.</b> 9 day old infant with oral ulcerations, fever and irritability. Case of the year presentation at Society for Pediatric Dermatology meeting, July, 2011</p>	<p>2011</p>
<p>Poola A (b) (6) vanHaandel L, Gaedigk R, Talib N, Leeder JS, <b>Becker ML.</b> Intracellular Folate Concentration and Polyglutamate Distribution in Down Syndrome, Pediatric Academic Society Meeting, Denver Colorado, May 2, 2011</p>	<p>2011</p>
<p>Bi C., <b>Becker ML,</b> Leeder JS. Derivation of Minimum Best Sample Size from Microarray Data Sets: A Monte Carlo Approach. IEEE CIBCB, 2011 Symposium on Computational Intelligence in Bioinformatics and Computational Biology, Paris France</p>	<p>2011</p>
<p>Finkel T, Zhang H, Lie B, <b>Becker, ML,</b> et al. Discovery and Replication of JIA Predisposition Genes by Genome-Wide Association and Validation of Candidates in Fibroblast-Like Synoviocytes, ACR academic meeting, Atlanta, November, 2010</p>	<p>2010</p>
<p><b>Becker ML,</b> Gaedigk R, van Haandel L, et al. Folate Pathway Genes that Predict Methotrexate Polyglutamate Patterns and Response in Juvenile Idiopathic Arthritis, 4<sup>th</sup> Annual Translational Research in Pediatric Rheumatology (TRiPR) meeting, Genoa Italy, May 27, 2010</p>	<p>2010</p>
<p><b>Becker ML,</b> Gaedigk R, van Haandel L, et al. Genetic Predictors of Methotrexate</p>	<p>2010</p>

<p>Polyglutamate Patterns in Juvenile Idiopathic Arthritis, Pediatric Academic Society meeting, Vancouver, Canada, May 4, 2010</p>	
<p><b>Becker ML</b>, Gaedigk R, van Haandel L, et al. Clinical and Genetic Predictors of Methotrexate Polyglutamate Patterns in Juvenile Idiopathic Arthritis, ASCPT meeting, Atlanta Georgia, March 20, 2010</p>	2010
<p><b>Becker M</b>, Rosé CD, Doyle T, et al. Early Onset Sarcoid Arthritis and Blau Syndrome are Genetically Linked. Podium presentation at the American College of Rheumatology academic meeting, San Antonio, TX, 2004</p>	2004
<p><u>Regional Meetings</u></p>	
<p>Patel D (b) (6) vanHaandel L, Lasky A, Hoeltzel MF, Leeder JS, <b>Becker ML</b> The relationship of Folate and Methotrexate with Drug Response in Juvenile Idiopathic Arthritis. Plenary Session at Midwest Society for Pediatric Research, Madison, WI. October 7, 2011</p>	2011
<p><b>Becker ML</b>, Gaedigk R, Lasky A, et al. Folate Polymorphisms in Juvenile Idiopathic Arthritis. Plenary Session I at Midwest Society for Pediatric Research, October 16, 2008</p>	2008
<p><b>Posters</b></p>	
<div style="background-color: #cccccc; height: 250px; width: 100%;"></div> <p style="text-align: right;">(b) (4)</p>	
<p>Kessler EA, Smith C, Anderson R, <b>Becker M</b>. Cost of Care Associated With Pediatric Rheumatology Clinic Visits and Interest in Telemedicine. Pediatric Academic Societies, San Diego, CA, April 27, 2015</p>	2015
<p>van Haandel L... <b>Becker ML</b>. Baseline Erythrocyte Folate Status is Associated with Methotrexate Response in Juvenile Idiopathic Arthritis at 3 Months. Pediatric Academic Society Annual Meeting, Vancouver BC, May 2014</p>	2014
<p><b>Becker ML</b> et al. Subcutaneous Methotrexate Dosing Results in Improved Early Response in Juvenile Idiopathic Arthritis. Pediatric Academic Society Annual Meeting, Vancouver BC, May 2014</p>	2014
<p>Prahalad S et al. The Autoimmune Genetic Architecture of Childhood Onset Rheumatoid Arthritis. PRYSM Pediatric Rheumatology Meeting, Orlando FL April, 2014</p>	2014
<p>Cooper AM, Watters H, <b>Becker, ML</b>. Implementing a Risk Education Strategy for Adolescent Girls Treated with Teratogenic Medications in the Pediatric Rheumatology Clinic. PRYSM Pediatric Rheumatology Meeting, Orlando FL. April, 2014</p>	2014
<p>Funk RS (b) (6) van Haandel L, Chan M, Rosenwasser L, Lasky A, Ibarra MF, Hoeltzel, MF, Leeder JS, <b>Becker ML</b>. Plasma Cytokine Levels Correlate with Six Month</p>	2014

Response and Erythrocyte Methotrexate Disposition in Juvenile Idiopathic Arthritis American Society of Clinical Pharmacology and Therapeutics annual meeting, March, 2014	
Li SC, Torok KS, <b>Becker ML</b> et al. A Pilot Study of Juvenile Localized Scleroderma (jLS) Consensus Treatment Plans. American College of Rheumatology annual meeting, San Diego, CA, October 2013	2013
Funk RS (b) (6) van Haandel L, Chan M, Rosenwasser L, Lasky A, Ibarra MF, Hoeltzel, MF, Leeder JS, <b>Becker ML</b> . Plasma Cytokine Concentrations are Associated with Folate Perturbations and Methotrexate polyglutamate Accumulation in the peripheral Blood of Juvenile Idiopathic Arthritis Patients Treated with Low Dose Methotrexate. American College of Rheumatology annual meeting, San Diego, CA, October 2013	2013
Funk RS (b) (6) van Haandel L, Chan M, Rosenwasser L, Lasky A, Ibarra MF, Hoeltzel, MF, Ye SQ, Leeder JS, <b>Becker ML</b> . Plasma Nicotinamide Phosphoribosyltransferase Correlates with Markers of Inflammation and may Predict Early Therapeutic response to Low Dose Methotrexate. American College of Rheumatology annual meeting, San Diego, CA, October 2013	2013
van Haandel L (b) (6) Funk RS, <b>Becker ML</b> , Leeder JS. Cellular Folate polyglutamation Distribution is Altered in Response to Methotrexate. ASCPT annual meeting, 2013	2013
Funk RS (b) (6) van Haandel L, <b>Becker ML</b> , Leeder JS A Paradoxical Dose-Response Relationship for Methotrexate-mediated Accumulation of Intracellular Aminoimidazole carboxamide Ribotide <i>in vitro</i> . ASCPT annual meeting, 2013	2013
Funk RS (b) (6) van Haandel L, <b>Becker ML</b> , Leeder JS, Low-Dose Methotrexate and the Selective Accumulation of Intracellular Aminoimidazolecarboxamide Ribotide American College of Rheumatology annual meeting, Washington, DC November 14, 2012	2012
Reliability of Scoring a Disease Damage Measure for Juvenile Localized Scleroderma American College of Rheumatology annual meeting, Washington, DC November 14, 2012	2012
Initial Evaluation of a Localized Scleroderma (LS) Clinical Activity Measure American College of Rheumatology annual meeting, Washington, DC November 14, 2012	2012
vanHaandel L, Leeder, JS, <b>Becker ML</b> . Measurement of Methotrexate Metabolites in Peripheral Blood Mononuclear Cells in Juvenile Idiopathic Arthritis: Hope for Individualization of Therapy? Poster presentation at ACR Nation Meeting, Chicago, November 7, 2011	2011
Hoeltzel MF, <b>Becker ML</b> , et al. Race is a Risk Factor for Calcinosis in Patients with Juvenile Dermatomyositis: Early Observations from the Children's Arthritis and Rheumatology Research Alliance Registry (CARRAnet). Poster presentation at ACR Nation Meeting, Chicago, November 9, 2011	2011
Hoeltzel MF, <b>Becker ML</b> , et al. Clinical Characteristics of Children with Juvenile Dermatomyositis Recruited within the First 11 Months of the Children's Arthritis and Rheumatology Research Alliance Registry (CARRAnet). Poster presentation at ACR Nation Meeting, Chicago, November 9, 2011	2011
Robinson A, Hoeltzel MF, <b>Becker ML</b> , et al. Diagnostic evaluation and medication usage in a cohort of subjects with JDM Recruited within the First 11 Months of the Children's Arthritis and Rheumatology Research Alliance Registry (CARRAnet). Poster presentation at ACR Nation Meeting, Chicago, November 9, 2011	2011
Rizk VTE, <b>Becker ML</b> , Hoeltzel, MF Olitsky S, Lasky A. Comparison of Idiopathic and Secondary Uveitis Patients seen in a Dual Pediatric Rheumatology-Ophthalmology Clinic. ACR/ARHP Pediatric Rheumatology Symposium (PRYSM), Miami, Florida, June, 2011	2011
Hoeltzel MF, <b>Becker ML</b> , Robinson AB, Huber A, Feldman BM Reed AM. Clinical Characteristics of Children with Juvenile Dermatomyositis Recruited within the First 7 Months of the CARRAnet Registry. ACR/ARHP Pediatric Rheumatology Symposium (PRYSM), Miami, Florida, June, 2011	2011

<p>Hoeltzel MF, <b>Becker ML</b>, Robinson AB, Huber A, Feldman BM Reed AM. Race is a Risk Factor for Calcinosis in Patients with JDM-Early Results from the CARRAnet Registry Study. ACR/ARHP Pediatric Rheumatology Symposium (PRYSM), Miami, Florida, June, 2011</p>	<p>2011</p>
<p><b>Becker ML</b>, van Haandel L, Talib, N, Lasky, A, Hoeltzel, MF, Leeder, JS. Intracellular Folate Concentrations in Down Syndrome Patients with Arthritis. ACR/ARHP Pediatric Rheumatology Symposium (PRYSM), Miami, Florida, June, 2011</p>	<p>2011</p>
<p><b>Becker, ML</b>, van Haandel L, Gaedigk, R, et al. Effect of Methotrexate and Genotype on RBC Folate Concentrations and Polyglutamate Distribution in JIA. Poster presentation at the ACR academic meeting, Atlanta, Georgia, November 2010</p>	<p>2010</p>
<p><b>Becker ML</b>, Gaedigk R, van Haandel L, et al. Genetic Variation Associated with Methotrexate Response in Juvenile Idiopathic Arthritis: Role of the Mitochondrial and Purine Synthesis Pathway. Poster presentation at the ACR academic meeting, Atlanta, Georgia, November 2010</p>	<p>2010</p>
<p><b>Becker, ML</b>, van Haandel L, Lasky A, et al. Analysis of Intracellular Methotrexate Polyglutamates in Juvenile Idiopathic Arthritis. Poster presentation at the American College of Rheumatology academic meeting, Philadelphia, PA, October 2009</p>	<p>2009</p>
<p><b>Becker, ML</b>, Gaedigk R, van Haandel L, et al. Effect of Route of Administration On Intracellular Methotrexate Polyglutamate Patterns in Juvenile Idiopathic Arthritis. Poster presentation at the American College of Rheumatology academic meeting, Philadelphia, PA, October 2009</p>	<p>2009</p>
<p>Chastain K, Gaedigk R, Lasky A, Schindel B, Leeder JS, <b>Becker ML</b>. Folate Gene Polymorphism is Down Syndrome patients with Arthritis. Poster presentation at the Midwest Society for Pediatric Research, October 16, 2008</p>	<p>2008</p>
<p><b>Becker ML</b>, Rosé CD, Cron, RQ <i>et al.</i> Association of Methotrexate Dose with Hepatic Enzyme Abnormality in Juvenile Idiopathic Arthritis. Poster presentation at the Pediatric Academic Society Meeting, Toronto, Canada</p>	<p>2007</p>
<p><b>Becker ML</b>, Cron RQ, Lautenbach E, <i>et al.</i> High dose vs. Standard dose Methotrexate in JIA: Effects on Liver Toxicity and Clinical Response. Poster presentation at the American College of Rheumatology academic meeting, Washington, DC</p>	<p>2006</p>
<p><b>Becker ML</b>, Cron RQ, Lautenbach E, <i>et al.</i> Hepatic Enzyme Abnormalities in Children with JIA Receiving High Dose Methotrexate. Poster presentation at the American College of Rheumatology academic meeting, Washington, DC</p>	<p>2006</p>
<p><b>Becker ML</b>, Rosé CD, Martin T, <i>et al.</i> CARD15 Mutation in Blau Syndrome Families: Experience Between Two Centers. Poster presentation at the American College of Rheumatology academic meeting, San Antonio, TX</p>	<p>2004</p>
<p><b>Becker ML</b>, Athreya B, Rosé CD, <i>et al.</i> P46L Mutation in Tumor Necrosis Factor Receptor-Associated Periodic Syndrome: A Clinical Description of Three African-American patients. Poster presentation at the American College of Rheumatology academic meeting, San Antonio, TX</p>	<p>2004</p>
<p>McIlvain-Simpson G, <b>Becker ML</b>, Rose C. Niacin-Like Effect Associated with Infliximab therapy in Systemic JRA. Poster presentation at the Pediatric Rheumatology-Park City and Beyond academic meeting, Snowmass, CO</p>	<p>2003</p>

**Publications**

<p>1.</p>	<p>(b) (4)</p>	<p>2015</p>
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# **EXHIBIT 48**

Declaration of Rachel Clattenburg  
*Public Citizen v. FDA et al.*, 16-cv-781



12/6/2013

## Curriculum Vitae and Bibliography Kimberly K. Amrami, MD

### PERSONAL INFORMATION

Citizenship: (b) (6)

Work Address: Mayo Clinic  
200 First Street SW  
Rochester, MN 55905  
507-284-1728

Email Address: amrami.kimberly@mayo.edu

### PRESENT ACADEMIC RANK AND POSITION

<b>Consultant</b> - Department of Radiology, Mayo Clinic, Rochester, Minnesota	10/14/2001 - Present
<b>Master's Faculty Privileges in Clinical &amp; Translational Science</b> - Mayo Graduate School, Mayo Clinic College of Medicine	06/11/2007 - Present
<b>Consultant (Joint Appointment)</b> - Department of Neurologic Surgery, Mayo Clinic, Rochester, Minnesota	04/09/2008 - Present
<b>Professor of Radiology</b> - Mayo Clinic College of Medicine	01/01/2009 - Present
<b>Chair</b> - Division of Musculoskeletal Radiology, Department of Radiology, Mayo Clinic, Rochester, Minnesota	06/05/2013 - Present
<b>Consultant</b> - Division of Musculoskeletal Radiology, Department of Radiology, Mayo Clinic, Rochester, Minnesota	06/05/2013 - Present

### EDUCATION

University of Minnesota BA, Hebrew Language and Literature	1973 - 1978
University of Minnesota BS, Secondary Education with Elementary Endorsement	1983 - 1984
University of Minnesota MD	1989 - 1993
University of Minnesota Resident, Diagnostic Radiology	1993 - 1997
Mayo Clinic in Rochester Fellow, Musculoskeletal Radiology	1997 - 1998

### CERTIFICATION(S)

#### Board Certification(s)

<b>American Board of Radiology</b> Diagnostic Radiology	1997 - Present
<b>National Board of Medical Examiners (NBME)</b> Diplomate	1994 - Present

MRI Peripheral nerve MSK CORE Lecture Mayo Clinic College of Medicine Rochester, Minnesota	10/2008
MSK Core - MRI of Peripheral Nerves with Case Review Mayo Clinic College of Medicine Rochester, Minnesota	08/12/2009
Radiology of the Sacroiliac Joint Rheumatology Update Course Mayo Clinic College of Medicine Rochester, Minnesota	08/15/2009
MRI of Peripheral Nerves In-service Education for Technologists Mayo Clinic College of Medicine Rochester, Minnesota	11/13/2009
Radiology Conference Division of Rheumatology, Friday Afternoon Conference Mayo Clinic College of Medicine Rochester, Minnesota	12/18/2009
Arthritis - MSK Conference MSK Conference Mayo Clinic College of Medicine Rochester, Minnesota	05/12/2010
Radiographic Assessment of Suspected Scaphoid Fractures - MSK Conference Mayo Clinic College of Medicine Rochester, Minnesota	11/22/2010
MR Imaging of the Hand and Wrist in Athletes Mayo Clinic College of Medicine Rochester, Minnesota	05/13/2011
My Technique on Reading Wrist MRI - New Fellow & Consultant Talk Mayo Clinic College of Medicine Rochester, Minnesota	10/28/2011
MSK Core - "Arthritis" Mayo Clinic College of Medicine Rochester, Minnesota	01/27/2012
MSK Core-Peripheral Nerve Imaging Mayo Clinic College of Medicine rochester, Minnesota	04/30/2012

**Mentorship**

(b) (6) MD (Radiology Fellow)	1999 - 2000
<b>Description:</b> Reviewed Mayo Clinic experience with Ewing Sarcoma of the small bones.	
<b>Outcomes:</b> (b)(6)	
[Redacted] society of Skeletal Radiology 3/2000.	
<b>Published:</b> (b)(6)	
[Redacted]	

(b)(6) J, MD (Radiology Fellow) 1999 - 2000  
**Description:** Reviewed Mayo Clinic experience with chondroblastoma of the small bones.  
**Outcomes:** (b)(6)  
(b)(6). Society of Skeletal Radiology 3/2000.

(b)(6) (Radiology Resident) 2000 - Present  
**Outcomes:** Reviewed Mayo Clinic experience with chondroblastoma of the hands and feet. Poster presentation at RSNA 11/2001.  
  
Published: (b)(6)  
(b)(6) J Investig Med  
2002 Mar; 50(2):156A.

(b)(6)  
(b)(6)  
Skeletal Radiol 2004 Oct; 33(10):582-7.

(b)(6) (Radiology Resident) 2000 - 2005  
**Description:** Seminar Project: Reviewing Mayo Clinic experience with CT-guided bone biopsies.  
**Outcomes:** Presented: (b)(6)  
(b)(6), Chicago, IL, December 1 – 6, 2002.

(b)(6) (Doctoral Student) 2001 - 2007

**Description:** Thesis Committee. Biomedical Engineering, Mayo Graduate School.

**Current Status:** Ph.D. in June 2007

Post-doctoral fellowship, National Institutes of Health 2007-2009.

**Outcomes:** Published: (b)(6)

(b)(6)  
Physiology, Function, and Structure from Medical Images (SPIE) 2004 Feb (b)(6)

(b)(6)  
2007 Feb; 25 (b)(6)

(b)(6)  
Magn Reson Med 2008 Feb; 59(2) (b)(6)

**Presentations:** (b)(6) /2003.

(b)(6) 5/2004.

(b)(6) SMRM 5/2004.

(b)(6) (Radiology Fellow) 2001 - 2002

**Outcomes:** Published: (b)(6)

Radiologic case study - (b)(6) (GLAD) lesion.

Orthopedics 2002 Jan; 25(1) (b)(6)

(b)(6) (Doctoral Student) 2002 - Present

**Description:** Thesis Committee. Biomedical Engineering, Mayo Graduate School

**Outcomes:** Presented: (b)(6)

2005 Miami FL.

Best Paper Award from Skeletal Radiology December (b)(6)  
Chronic exertional compartment syndrome of the lower extremities: improved screening using a novel dual birdcage coil and in-scanner exercise protocol. E-pub 2007 Aug.

(b)(6) (Medical Student) 2002

**Outcomes:** Published: (b)(6)

Radiologic Case Study - (b)(6)

Orthopedics 2002 Oct; 25(10) (b)(6)

- (b)(6) MD (Radiology Resident) 2002  
**Outcomes:** Published: (b)(6)  
Radiologic case study.  
Orthopedics 2002 Jul; 25 (b)(6)
- (b)(6), MD (Radiology Fellow) 2002 - 2003  
**Outcomes:** Published: (b)(6)  
Radiologic case study (b)(6)  
Orthopedics 2003 Jul; 26 (b)(6)  
**Presented:** (b)(6)  
Society of Skeletal Radiology 3/2003.
- (b)(6) MD (Radiology Resident) 2002 - 2007  
**Description:** Advisee  
**Outcomes:** Presented: (b)(6)  
RSNA 11/2004
- (b)(6) (Medical Student) 2003  
**Current Status:** Visiting Medical Student
- (b)(6) E (Summer Student) 2003 - 2005  
**Description:** Motion Lab  
**Outcomes:** Published: (b)(6)  
Skeletal Radiology 2005 Oct;  
34(10) (b)(6). E-pub ahead of print.  
**Presented:** (b)(6)  
Society of Skeletal Radiology 3/2005.
- (b)(6)  
American Association for Hand Surgery 1/2004.
- (b)(6)  
Proc Orthopedic Research Society 3/2004.
- (b)(6) S, MD (Radiology Resident) 2003 - 2007  
**Description:** Seminar project.  
**Outcomes:** Presentation: (b)(6)  
ARRS Orlando, FL  
May 2007.

(b)(6) (Visiting Graduate Student) 2004 - 2005

**Description:** Mayo Graduate School '05

**Outcomes:** Presented: (b)(6)  
Washington DC, Feb 2005; (b)(6)

Poster.

**Publication:** (b)(6)  
(b)(6)  
epub Jan 2007).

(b)(6)  
2008 Jul; 37 (b)(6). E-pub May 2008.

(b)(6) J (Summer Student) 2004 - 2006

**Description:** Motion Lab

**Outcomes:** Published: (b)(6)  
2005

Oct;34(10)(b)(6)8. E-pub 2005 July.

(b)(6) F, PhD (Postdoctoral Fellow) 2004 - 2007

Outcomes: Presenting: (b)(6)  
1/2006. Poster

(b)(6)  
July 31, 2005.

(b)(6)  
3/2006.

(b)(6)  
ISMRM 5/2006.

(b)(6)  
. ISMRM 5/2006.

(b)(6)  
ISMRM 5/2006.

(b)(6)  
ISMRM 5/2007.

(b)(6)  
SMRM 5/2007.

(b)(6)  
9/2007.

(b)(6)  
3/2008.

Published: (b)(6)  
Feb; 15 (b)(6) 4. E-pub 2006.

(b)(6)  
2008 May 6. E-pub.

(b)(6)  
In Press.

(b)(6) (Radiology Resident & Fellow) 2006 - 2009  
Description: Mentored Fellowship Research Project

(b)(6) (Radiology Fellow) 2006 - 2009  
Description: Musculoskeletal Fellow; Mentored Fellowship Research Project

(b)(6) L (Radiology Resident) 2006 - Present

Outcomes: Abstract: (b)(6)  
American Society for Peripheral Nerve.

Presented: (b)(6)  
ISMRM 2008.

(b)(6), MD (Radiology Resident) 2006 - Present

Current Status: CRTP Master's 2007  
Outcomes: Presentation: (b)(6)  
2007.

(b)(6) 2007 RSNA Trainee  
Research Prize.

(b)(6) A Clinical Comparison. RSNA 2007.

Publication: (b)(6)  
2008 May-June;33 (b)(6)

(b)(6) (Visiting Clinician) 2007 - Present

Description: (b)(6)

(b)(6) ISS. 2009.

(b)(6) Radiological  
Society of North America. 2009.

(b)(6) International Society for Magnetic Resonance in Medicine.  
2009.

(b)(6) 2009.



(b)(6)	(Pre-Med Student)	2008 - Present
	<b>Description:</b> Summer Mentored Undergraduate Student 2008	
(b)(6)	(Visiting Clinician)	2008 - 2009
	<b>Description:</b> (b)(6)	
	RSNA 2008.	
(b)(6)	(Radiology Resident)	2008 - 2010
(b)(6)	(Research Trainee)	2009 - Present
	<b>Description:</b> Radiology Resident	
(b)(6)	(Medical Student)	2010 - Present
	<b>Description:</b> Radiology Resident	
(b)(6)	(Radiology Fellow)	2011 - 2012
	<b>Description:</b> Musculoskeletal Fellow; Mentored Fellowship Research Project	
(b)(6)	(Radiology Fellow)	2012 - Present
	<b>Description:</b> Musculoskeletal Fellow; Mentored Fellowship Research Project	
(b)(6)	(Radiology Fellow)	2012 - Present
	<b>Description:</b> usculoskeletal Fellow; Mentored Fellowship Research Project	

**Academic Career Development**

Professional Development Seminar for Junior Women Faculty Association of American Medical Colleges Savannah, Georgia	12/2000
Career and Leadership Development (CALD) Programs - All STaff Leadership Program (Diversity) Mayo Clinic College of Medicine Rochester, Minnesota	01/10/2002
Career and Leadership Development (CALD) Programs - All Staff Leadership II Mayo Clinic College of Medicine Rochester, Minnesota	02/07/2003
Career and Leadership Development (CALD) Programs - Finance at Mayo: A Primer for Physician/Scientist Leadership Mayo Clinic College of Medicine Rochester, Minnesota	02/12/2004
Career and Leadership Development (CALD) Programs - Chairs and Executive Team Mayo Clinic College of Medicine Rochester, Minnesota	10/30/2006
Career and Leadership Development (CALD) Programs - Module II, Crucial Conversations Mayo Clinic College of Medicine Rochester, Minnesota	12/04/2007
Leadership Education and Development (LEAD) Programs Mayo Clinic College of Medicine Rochester, Minnesota	2009 - 2010

## **EXHIBIT 49**

Declaration of Rachel Clattenburg  
*Public Citizen v. FDA et al.*, 16-cv-781

## CURRICULUM VITAE

**Raj Rao, M.D.**  
**Vice-Chairman, Department of Orthopaedic Surgery**  
**Professor of Orthopaedic Surgery and Neurosurgery**  
**Medical College of Wisconsin**

### Address:

Medical College of Wisconsin  
9200 W. Wisconsin Ave  
Milwaukee, WI 53226-0099  
Phone: (414) 805-7425  
Fax: (414) 805-7499

(b)(6)



### Education and Fellowships:

07/1995-06/1996	Spine Surgery Fellow: (b)(6) MD William Beaumont Hospital Royal Oak, MI
07/1991-06/1995	Resident, Orthopaedic Surgery University of Southern California Los Angeles, CA
06/1990-06/1991	Internship, General Surgery University of Southern California Los Angeles, CA
01/1990-06/1990	Post-doctoral Research Fellow: (b)(6) MD Chairman, Dept of Orthopaedics University of Southern California, Los Angeles, CA
09/1988-11/1989	Post-doctoral Research Fellow: (b)(6) MD St. Joseph's Hospital London, Ontario, Canada
12/1987-08/1988	Post-doctoral Research Fellow: Prof. U. Rodegerdts Orthopadische Klinik Seepark Bremerhaven, Germany
07/1984-09/1987	M.S. Orthopaedics University of Bombay, India
11/1978-06/1984	M.D., University of Bombay Bombay, India

**Specialty Boards and Certification:****Board Certification**

American Board of Orthopaedic Surgery Issued 07/1998 - 12/31/2008  
 Recertified 1/1/2009 - 12/31/2018

**Licensure**

Wisconsin License Issued 07/1999 Expires 10/31/2015  
 California Medical Licensure Issued 07/24/91 Expires 05/31/2015  
 DEA Issued 03/27/06 Expires 04/30/2015

**Awards and Honors:**

05/2014 2014 David Selby Award for contributing greatly to the art and science of spinal disorder management through service to the North American Spine Society. (~ 9,000 members)

05/2014 "Volunteer Family of the Year Award" – Salvation Army; Wisconsin & Upper Michigan Region.

04/2013 Recognized by Froedtert Memorial Lutheran Hospital as one of top 20 highest scoring physicians for patient care in the inpatient environment 2011- 2012 (~ 800 physicians on staff)

12/2012 Voting Panel Member – MEDCAC (Medicare Evidence Development and Coverage Advisory Commission); Centers for Medicare and Medicaid Services. Invited based on expertise in field of orthopaedic surgery. Two year term.

11/2012 Best poster 2012. Cureus Online Medical Journal. Thoracolumbar Spine Injuries in the Elderly Involved in Motor Vehicle Collisions: A Study of 661 Elderly Subjects. Presented by (b)(6) BS

08/2011 Recognition for delivery of quality in back pain care by National Committee for Quality Assurance (NCQA)

06/2011 Best Research Paper: MCW Orthopaedic Research Day. Long Term Radiographic Follow-up of Uninstrumented Anterior Cervical Decompression and Fusion. Presented by (b)(6) MD

03/2011 Becker's Orthopedic and Spine Review - Top 100 Best Spine Surgeons and Specialists in America

3/2009 Appointed Editor for Orthopaedic Knowledge Update: Spine. A premier Orthopaedic textbook for the Spine published by the American Academy of Orthopaedic Surgeons

10/2008 Guest of Honor, GE Healthcare Asian Pacific American Celebration, Pewaukee, Wisconsin

- 06/2008 'Outstanding Orthopaedic Faculty Instructor 2007-2008'  
award presented by Orthopaedic Surgery residents, Medical  
College of Wisconsin
- 7/2009 Organizational Excellence Recognition Pin: Recognized by  
Reward and Recognition Committee, Froedtert Memorial  
Lutheran Hospital for outstanding customer service.
- 06/2008 Best Research Paper: MCW Orthopaedic Research Day.  
The Anatomic Course of the Vertebral Artery in the Subaxial  
Spine: A Computerized Tomographic Study of the Vertebral  
Artery Foramen in an Asymptomatic Young  
Population. Presented by (b)(6) MD
- 06/2008 Elected to American Orthopaedic Association  
Orthopaedic Honor Society composed of chairmen, program  
directors, and other leaders in the orthopaedic community.  
Selection for membership by nomination and voting by  
membership.
- 11/2006 Appointed to US Food and Drug Administration Advisory  
Panel: Orthopaedic and Rehabilitation Devices  
Responsible for providing scientific input to FDA on all  
Orthopaedic, Spinal and Rehabilitation devices submitted to  
FDA for approval
- 09/2006 2006 Learning Resources Innovative Educational Project  
Award.  
Presented by Dean at 2006 MCW Convocation.  
Selected for award by Curriculum and Evaluation  
Committee, MCW, for "Introduction to Clinical Examination of  
the Musculoskeletal System – Development of an  
Orthopedic Examination DVD-ROM for M3 and M4 students"
- 04/2006 Runner up Outstanding Paper Award for Surgical Science  
from NASS (North American Spine Society) and The Spine  
Journal, 2006
- 09/2005 Selected by American Academy of Orthopaedic Surgeons to  
Leadership Fellows Program 2006-7. Program designed to  
identify and develop leadership within structure of AAOS.
- 06/2005 First Place - Resident Paper Presentations  
Wisconsin Orthopedic Society meeting  
Waukesha, WI, June 2005  
Research presented by (b)(6), MD, resident
- 11/2001 Third Place: Best Research Award  
National Resident and Fellows Conference  
Sponsored by Sofamor- Danek, New Orleans, LA  
Research presented by (b)(6) MD, resident  
3<sup>rd</sup> best paper of over 100 papers submitted
- 08/1993 First place: Best Research Award  
XI National Orthopaedic Residents Conference  
Smith and Nephew Richards, Memphis, TN

05/2013	Orthopaedic Grand Rounds – William Beaumont Hospital and Oakland University Program, Royal Oak, MI
09/2012	Orthopaedic Grand Rounds – University of Chicago, Chicago, IL
05/2012	Orthopaedic Grand Rounds – Combined Residency Program Harvard University, Boston
03/2012	Department of Orthopaedic Surgery University of Kansas, Wichita
03/2010	Department of Orthopaedic Surgery Texas Tech University of Health Sciences, Lubbock, Texas
04/2008	Department of Orthopaedic Surgery Brown University, Providence, Rhode Island
09/2006	Department of Orthopaedic Surgery University of Miami, Miami, Florida

### **Washington D.C. / Health Policy Activities: 2008-2011**

Coordinated and led national health policy related advocacy efforts on behalf of North American Spine Society. Examples of activity include:

- Development of coherent advocacy program for North American Spine Society
- Spokesman for Alliance of Specialty Medicine - coalition of specialty medicine organizations in Washington, D.C., representing over 100,000 physicians
- Coordinated and assisted with development of multiple advocacy “position papers” for the North American Spine Society, on
  - Medicare Sustainable Growth Rate Formula
  - Comparative Effectiveness Research
  - Physician Quality Reporting Initiative
  - Medical Liability Reform
  - Physician Ownership of Medical Facilities
- Interfaced with multiple members of the House and Senate.
- Invited panelist Medicare Coverage Advisory Commission - MedCAC - Clinical Use of Bone Morphogenetic Proteins
- Attended Alliance of Specialty Medicine Washington D.C. meetings in July 2009, July 2010, July 2011. Met with members of Congress, CMS, media to discuss healthcare reform issues.
- Attend MedPAC meetings and review deliberations.

- Attended fundraisers for members of Congress in Washington, D.C. and in Wisconsin.
- Multiple letters to members of Congress on various healthcare reform issues.
- Multiple media interviews on issues pertaining to health policy / advocacy and spine surgery
- Fundraiser at home for members of Congress
- Hosted Advocacy reception at North American Spine Society, October 2010. Guest - (b) (6), former Democratic White House advisor and (b)(6)
- Hosted Advocacy reception at North American Spine Society, November 2011. Guest - (b)(6) former Republican White House advisor and Fox (b)(6)

**Memberships in Professional and Honorary Societies:**

- Current (04/2008) Founding member, Lumbar Spine Research Society
- Current (06/2008) American Orthopaedic Association
- Current (10/1998) North American Spine Society
- Current (09/1999) Milwaukee Orthopaedic Society
- Current (07/1995) American Academy of Orthopaedic Surgeons
- Current (06/2001) Order of Merit  
Orthopaedic Research and Education Foundation
- Current (07/2003) Wisconsin Orthopaedic Society, Active member
- Current (01/2011) American Medical Association
- 06/2000-06/2001 Medical Society of Milwaukee County
- 01/2001-12/2003 Association of American Physicians from India
- 06/2000-06/2001 Wisconsin State Medical Society
- 09/1996-09/1999 California Medical Association
- 09/1996-09/1999 Yuba Sutter Colusa Counties Medical Association
- 06/1996-06/2000 American Medical Association
- 07/1995-12/2003 University of Southern California: Graduate Orthopaedic Society

**Leadership and Committee Positions - National:**

- Current (09/2014) Chairperson, US FDA Orthopaedic and Rehabilitation Devices Panel
- Current (03/2014) Elected to Board of Directors  
American Academy of Orthopaedic Surgeons (30,000 member organization)
- Current (04/2013) Executive Board of Directors

**Research Grants, Contracts, Awards, Projects:**

Title: Community-based Yoga Therapy in the Management of Chronic Low Back Pain

Source: Patient-Centered Outcomes Research Program, Medical College of Wisconsin

Role: Principal Investigator

Dates: 07/01/2014 - 6/30/2015

Funds: Awarded (b)(6)

Title: Rehabilitation Engineering Research Center on Individual Mobility and Manipulation

Source: U.S. Department of Education, National Institute on Disability and Rehabilitation Research

Role: Co- Program Director

Program Director: G. Harris, Ph.D.

Dates: 10/10/2013 - 9/30/2018

Funds: Applied for \$4,625,000

Title: Characterization of Lumbar Spine Fractures in Elderly Patients following Motor Vehicle Collisions

Source: T35 Training Grant from National Institutes of Health

Awardee: (b) (6), M1 Student, MCW

Role: Mentor

Dates: June 1, 2012 onwards, for twelve weeks

Funds: Mentee awarded \$5500 for 12 weeks during summer

Title: Human Injury Tolerance Toward Development and Validation of a Warrior Manikin

Source: Department of Defense, US Army Medical Research Acquisition Activity  
Number: W81XH-12-2-0041, Cooperative Agreement# 11195006

Role: Co- Investigator

Principal Investigator: (b)(6)

Dates: 5/1/2012 - 5/31/2017

Funds: Awarded \$ 7,563,985

Title: Time-Dependent Behaviors of the Cervical Spinal Segment under Sustained Loading

Source: T35 Training Grant from National Institute for Aging

Awardee: (b) (6) M1 Student, MCW

Role: Mentor

Dates: June 1, 2011 onwards, for twelve weeks

Funds: Mentee awarded \$5400 for 12 weeks during summer

Title: Advanced Rehabilitation Research Training in Pediatric to Adult Transition



Source: U.S. Department of Education, National Institute on Disability and Rehabilitation Research (H133P100008)

Role: Co- Program Director

Program Director: (b)(6)

Dates: 10/1/2010 - 9/30/2015

Funds: Awarded \$750,000 (Direct Costs \$736,962)

Title: Biomedical Analysis, Tolerance and Mitigation of Acute and Chronic Trauma

Source: United Stated Department of Defense – Army Medical Research Acquisition

Role: Co-Investigator

Principal Investigator: (b)(6)

Dates: 07/01/2010-07/01/2011

Funds: Awarded \$250,000 (Direct Costs \$142,496)

Title: Prediction and Prevention of Musculoskeletal and Blast Injury during Naval Operations

Source: United Stated Department of Defense - Navy

Role: Co-Investigator

Principal Investigator: (b)(6)

Dates: 05/03/2010-05/02/2015

Funds: Awarded \$2,275,303 (Direct Costs \$1,758,177)

Title: Crash Injury Research and Engineering Network (CIREN)

Source: National Highway Traffic Safety Administration

Role: Co-Investigator

Principal Investigator: (b)(6)

Dates: 06/01/2010-05/31/2015

Funds: Awarded \$2,601,807 (Direct costs \$2,064,926)

Title: Time-Dependent Behaviors of the Cervical Vertebral Motion Segment under Sustained Loading with Varying Cervical Posture

Source: Intramural funds. Department of Orthopaedic Surgery, MCW.

Role: Principal Investigator

Co-PI: (b)(6)

Dates: 1/2011-12/2011

Funds: Awarded (b)(6)

Title: Developmental Aircrew Systems and Devices for use in High-Performance Tactical, Rotary, and Support Aircraft (N00421-06-C-0046)

Source: United Stated Department of Defense - Navy

Role: Co-Investigator

Principal Investigator: N. Yoganandan, Ph.D.

Dates: 07/14/2006-07/13/2010

Funds: Awarded \$614,879

Title: Effects of rhBMP-2 on allograft incorporation and immunogenesis  
Source: National Arthritis Foundation, Wisconsin Chapter  
Role: Co-Investigator  
Principal Investigator: (b)(6)  
Dates: 06/1999-06/2000  
Funds: Awarded (b)(6)

Title: Laminotomy versus Laminectomy – A Comparison of the Mechanical Properties of the Functional Spinal Unit  
Source: Intramural funds. Department of Orthopaedic Surgery, MCW  
Role: Principal Investigator  
Dates: 04/2000-07/2001  
Funds: Awarded (b)(6)

Title: Human Head-Neck Biomechanics in Low Speed Crashes  
Source: CDC  
Role: Co-Investigator  
Principal Investigators: (b)(6)  
Dates: 09/2001-09/2004  
Funds: Awarded \$899,993

Title: Adjacent Segment Stresses in the Cervical Spine Following Fusion – Are They Increased by a Kyphotic Fusion?  
Source: Intramural funds. Department of Orthopaedic Surgery, MCW  
Role: Principal Investigator  
Dates: 04/2001-04/2002  
Funds: Awarded (b)(6)

Title: Anterior Cervical Plating –Does it Increase Adjacent Segment Stress?  
Source: Intramural funds. Department of Orthopaedic Surgery, MCW  
Role: Principal Investigator  
Dates: 08/2000-07/2001  
Funds: Awarded (b)(6)

Title: The End-plate of the Cervical Vertebra –An Anatomic and Histologic Study  
Source: Intramural funds. Department of Orthopaedic Surgery, MCW  
Role: Principal Investigator  
Dates: 02/2002-03/2003  
Funds: Awarded (b)(6)

Title: Pre-Clinical Evaluation of Novel Tissue Engineered Titanium Devices for Hard Tissue Implants  
Source: Medtronic Sofamor Danek  
Role: Co-Investigator  
Principal Investigator: (b)(6)

Dates: 07/2000-07/2001

Funds: Awarded (b)(6)

Title: Pre-Clinical Evaluation of Carbon Composite Devices for Hard Tissue Implants: Radiographic, Biomechanic, and Histologic Evaluation

Source: Medtronic Sofamor Danek

Role: Co-investigator

Principal Investigator: (b)(6)

Dates: November 1999-November 2001

Funds: Awarded (b)(6)

Title: Pre-Clinical Evaluation of Novel Tissue Engineered Titanium Sponge Devices for Hard Tissue Implants

Source: Medtronic Sofamor Danek

Role: Co-investigator

Principal Investigator: (b)(6)

Dates: April 2000-June 2002

Funds: Awarded (b)(6)

Title: Calcium Phosphate Cements: A Tissue Engineered Approach

Source: Medtronic Sofamor Danek

Role: Co-investigator

Principal Investigator: (b)(6)

Dates: January 2001-June 2002

Funds: Awarded (b)(6)

Title: A Study of the Effects of Tapered and Cylindrical Interbody Cages on Lumbar Spine Foraminal Height

Source: Stryker Spine

Role: Principal Investigator

Co-Investigator: (b)(6)

Dates: 1/01/2004-1/03/2005

Funds: Awarded (b)(6)

Title: Introduction of Clinical Examination of the Musculoskeletal System- Development of an Orthopaedic Examination DVD-ROM for M3 and M4 Students

Source: MCW Learning Resources

Role: Principal Investigator

Dates: 1/26/2004- 12/1/2004

Funds: Awarded (b)(6)

Title: Localized Facet Joint Kinematics under Physiologic Loading differ from Dynamic Whiplash Loading

Source: Medical College of Wisconsin New Faculty Grant Program

Role: Co-Investigator

Principal Investigator: (b)(6)

Dates: 01/2005-01/2006

Funds: Awarded (b)(6)

Title: Comparative evaluation of BMP-2, Bone marrow and platelet gels for improving spine fusion

Source: Medtronic Sofamor Danek

Role: Principal Investigator

Co-Investigator: (b)(6)

Dates: 7/05/2004-8/15/2005

Funds: Awarded (b)(6)

Title: Comparison of Graft Containment Device for Use in Posterolateral Spine Fusion

Source: EBI.

Role: Principal Investigator

Co-Principal Investigator: (b)(6)

Dates: 11/2004-7/2005

Funds: Awarded (b)(6)

Title: Evaluation of Cell Source for Spine Fusion Mass after Autologous Bone Grafting using Transgenic Mice

Source: Intramural funds. Department of Orthopaedic Surgery, MCW.

Role: Principal Investigator

Co-Principal Investigator: (b)(6)

Dates: 4/2005-3/2006

Funds: Awarded (b)(6)

Title: 2005 Medical Student Summer Fellowship

Source: T35 Training Grant from National Heart Lung Blood Institute (NHLBI)

Awardee (b)(6) M1 Student, MCW

Role: Mentor

Dates: June 1, 2005 onwards, for ten weeks

Funds: Awarded \$1615 for each 4 weeks of work

Title: Effects of Osteoporosis on a Mouse Posterolateral Lumbar Spine Fusion Model

Source: Intramural funds. Department of Orthopaedic Surgery, MCW.

Role: Principal Investigator

Co-Investigators: (b)(6)

Dates: 7/2007-6/2008

Funds: Awarded (b)(6)

Title: Evaluation of Diffusion Tensor Imaging and Histopathological Changes in Progressive Compressive Cervical Myelopathy in a Mouse Model

Source: Intramural funds. Department of Orthopaedic Surgery, MCW.

Role: Principal Investigator

Co-Investigators: (b)(6)

(b)(6)

Dates: 7/2008-6/2009

Funds: Awarded (b)(6)

Title: Comparison of Supplemental Posterior Fixation for two-level Anterior Lumbar Interbody Fusion with Stand-alone Cages

Source: Intramural funds. Department of Orthopaedic Surgery, MCW

Principal Investigator: (b)(6)

Role: Co-Investigator

Dates: 05/2009-05/2010

Funds: Awarded (b)(6)

**MCW Students, Faculty, Residents or Fellows Mentored:**

Medical Student Clinical / Pathway Advisor: (Self selected by students)

(b)(6)

Orthopaedics, Brown University, Rhode Island  
Orthopaedics, Baylor College of Medicine, Texas  
Orthopaedics, Tulane University, New Orleans, LA  
Orthopaedics, Medical College of Wisconsin  
Orthopaedics, Walter Reed Hosp, Washington, D.C.  
Family Medicine, Fort Bragg, NC  
Orthopaedics, Michigan State University, MI  
Orthopaedics, Baylor University, Houston, TX.  
Orthopaedics, Medical College of Wisconsin  
Orthopaedics, University of Nebraska, NE  
General Surgery, Rush University, Chicago, IL  
Orthopaedic Surgery, University of Rochester  
Orthopaedic Surgery, SUNY Brooklyn HSC, NY

Orthopaedic Surgery, Medical College of Wisconsin  
Orthopaedic Surgery, Rush University, Chicago, IL  
Orthopaedic Surgery, Marshall Univ, Huntington, WV  
General Surgery, UC Riverside, Riverside, CA  
Orthopaedic Surgery, Univ Saint Louis, St. Louis, MO

Clinical / Research Fellows and subsequent career path:

(b)(6)

Currently in private practice, TX  
Research Fellow in Spine Surgery  
Currently private practice, Nagpur, India  
Research Fellow in Spine Surgery  
Assistant Professor, Orthopaedic Surgery  
Christian Medical College, Vellore, India  
Research Fellow in Spine Surgery  
Currently private practice, Nagpur, India  
Research Fellow in Spine Surgery  
Currently PGY-3 in PM & R  
William Beaumont Hospital  
Royal Oak, MI  
Research Fellow in Spine Surgery  
Currently Faculty in Spine Surgery  
Veterans Administration Hospital  
Syracuse University, NY  
Research Fellow in Spine Surgery

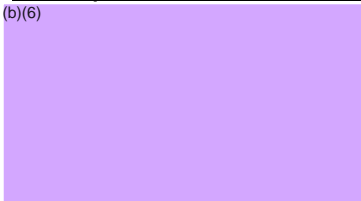
(b)(6)



Currently practicing Spine Surgery  
Hartland, South Carolina  
Research Fellow in Spine Surgery  
Currently Associate Professor  
Medical School, Jinan University, Guangzhou  
Senior Registrar in Orthopaedics  
New Delhi, India  
Currently Clinical Fellow in Pediatric  
Orthopaedics, Boston, MA  
Currently Clinical Fellow in Spine surgery,  
Boston, MA

Orthopaedic Resident Faculty Advisor / Mentor: (Appointed by Chairman)

(b)(6)



Private practice, Orthopaedics, Michigan  
Faculty, Trauma Orthopaedics, Med Coll WI  
Private practice, Orthopaedics, Wisconsin  
Faculty, Pediatric Orthopaedics, Univ. of Utah  
Private practice, Orthopaedics, Wisconsin

Marquette University Graduate Students, Department of Biomedical Engineering

(b)(6)



Masters Thesis Committee

Thesis: Augmentations of Calcium Phosphate Cements with Bone  
Morphogenetic Proteins for Vertebroplasty

(b)(6)



Masters Thesis Committee

Thesis: Biomechanical Evaluation of Hamstrings Length During Gait in  
Adults with Low Back Pain

**Media Interviews:**

Television interview – local Fox channel– Milwaukee, 2002, Kyphoplasty

HealthLink – MCW, 02/2005, Vertebroplasty Can Ease Pain of Compression  
Fractures

Health Link Quarterly, Milwaukee, 06/2005, Low Back Pain, Causes and early  
treatment

Health Link Quarterly, Milwaukee, 08/2005, Spine Surgery – when to and not to

FMLH community outreach program, 02/2006, Neck Pain, Disc Herniation and  
Spine Surgery

## **EXHIBIT 4:**

Declaration of Rachel Clattenburg  
*Public Citizen v. FDA et al.*, 16-cv-781



January 1, 2016

**CURRICULUM VITAE**  
G. Caleb Alexander, MD, MS

**PERSONAL DATA**

*Business Address*

Johns Hopkins School of Public Health  
Center for Drug Safety and Effectiveness  
Department of Epidemiology  
615 N. Wolfe Street W6035  
Baltimore, MD 21205  
Phone: 410 955 8168  
Fax: 410 955 0863  
Email: galexand@jhsph.edu

*Clinical Address*

Johns Hopkins at Green Spring Station  
10753 Falls Road Suite 325  
Lutherville, MD 21093  
Clinic Phone: 410 583 2926  
Clinic Fax: 410 583 2883

**EDUCATION AND TRAINING**

1988-1990	Candidate for BA, Oberlin College
1991-1993	University of Pennsylvania, BA (Philosophy)
1994-1998	Case Western Reserve University, MD
1998-1999	Intern, Internal Medicine, University of Pennsylvania
1999-2001	Resident, Internal Medicine, University of Pennsylvania
2001-2003	Robert Wood Johnson Clinical Scholar, University of Chicago
2002-2003	University of Chicago, Department of Health Studies, MS

*Medical Licensure*

Illinois Physician and Controlled Substance License, through 2014  
Drug Enforcement Agency Controlled Substance Licensure, through 2014  
Maryland Physician and Controlled Substance License, through 2014

*Medical Board Certification*

American Board of Internal Medicine, through 2021

**PROFESSIONAL EXPERIENCE**

2014-	Affiliate Faculty, Center for Health Services and Outcomes Research (CHSOR), Johns Hopkins University
2012-	Associate Professor of Epidemiology and Medicine, Johns Hopkins Bloomberg School of Public Health

## HONORS AND AWARDS

### *Honors*

1993	Cum Laude, University of Pennsylvania
1997	Alpha Omega Alpha, Case Western Reserve University
2003-2005	John A. Oremus Memorial Scholar (\$ (b) (4) Research Stipend), MacLean Center for Medical Ethics, University of Chicago
2006	Top 5% of reviewers, Medical Care (also received annually through 2011)
2007	Top 10% of reviewers, Ann Intern Med (also received 2008, 2009, 2014)
2011	Elected Fellow of the American College of Physicians (FACP)
2011	Top Reviewers, Pharmacoepidemiology and Drug Safety (annually through 2014)

### *Awards*

2001	Edward W. Holmes Resident Research Award, University of Pennsylvania
2006-2009	Robert Wood Johnson Foundation Faculty Scholar Career Development Award
2007	Research Finalist, International Society for Pharmacoeconomics and Outcomes Research, Annual Meeting
2008	Outstanding Physician Scientist Award, Central Society for Clinical Research
2008	Career development award (\$ (b) (4) Research Stipend), Central Society for Clinical Research
2008	Department of Medicine Research Award (awarded to trainee for mentored research; also received by mentored trainees in 2009 and 2010)
2009	Pritzker School of Medicine Sigma Xi Award for Impact on Science (awarded to trainee for mentored research)

## PUBLICATIONS

### *Peer Reviewed Journal Articles* (b) (6)

1. Szele F, **Alexander GC**, Chesselet MF. "Expression of molecules associated with neuronal plasticity in the striatum after aspiration versus thermocoagulatory lesions in the adult cortex in adult rats." *Journal of Neuroscience*. 1995;15:4429-4448. PMID: 7790918
2. **Alexander GC**, Fera B, Ellis R. "From the students: learning continuous improvement by doing it." *Joint Commission Journal on Quality Improvement*. 1996;22:198-205. PMID: 8664952
3. **Alexander GC**, Sehgal AR. Dialysis patient assessments of the quality of medical care provided by generalists, nephrologists and other specialists. *American Journal of Kidney Disease*. 1998;32:284-289. PMID: 9708614
4. **Alexander GC**, Sehgal AR. Barriers to cadaveric renal transplantation among blacks, women, and the poor. *JAMA*. 1998;280:1148-1152. PMID: 9777814  
 Editorial: Milford EL. Organ transplantation--barriers, outcomes, and evolving policies. *JAMA*. 1998;280:1184-1185. PMID: 9777820
5. Lewin L, Agneberg B, **Alexander GC**. A course in end-of-life care for third year medical students. *Academic Medicine*. 2000;57:519-520. PMID: 10824792

6. **Alexander GC**, Sehgal AR. Why hemodialysis patients fail to complete the transplant process. *American Journal of Kidney Disease*. 2001;37:321-328. PMID: 11157373  
  
Editorial: Chertow GM, Zenios SA. Gridlock on the road to kidney transplantation. *American Journal of Kidney Disease*. 2001;37:435-437. PMID: 11157389
7. Werner RM, **Alexander GC**, Fagerlin A, Ubel PA. The "hassle factor": How physicians respond when third party payers decline reimbursement for important health care services. *Archives of Internal Medicine*. 2002;162:1134-1139. PMID: 12020183
8. **Alexander GC**, Sehgal AS. Variation in access to kidney transplantation across dialysis facilities: using process of care measures for quality improvement. *American Journal of Kidney Disease*. 2002;40:824-831. PMID: 12324919  
  
Editorial: Powe NR, Boulware LE. The uneven distribution of kidney transplants: getting at the root causes and improving care. *American Journal of Kidney Disease*. 2002;40:861-863. PMID: 12324926
9. **Alexander GC**, Werner RM, Fagerlin A, Ubel PA. Public support for physician deception of insurance companies. *Annals of Internal Medicine*. 2003;138:472-475. PMID: 12639080
10. **Alexander GC**, Wynia MK. Ready and willing? Physicians' sense of preparedness for bioterrorism. *Health Affairs*. September/October 2003;22:189-197. PMID: 14515895
11. **Alexander GC**, Casalino LP, Meltzer DO. Patient-physician communication about out-of-pocket costs. *JAMA*. 2003;290:953-958. PMID: 12928475
12. **Alexander GC**, Werner RM, Ubel PA. The costs of denying scarcity. *Archives of Internal Medicine*. 2004;164:593-596. PMID: 15037486
13. **Alexander GC**, Casalino LP, Tseng CW, McFadden D, Meltzer DO. Barriers to patient-physician communication about out-of-pocket costs. *Journal of General Internal Medicine*. 2004;19:856-860. PMID: PMC1492500
14. **Alexander GC**, Tseng CW. Strategies to identify and assist patients burdened by out-of-pocket prescription costs. *Cleveland Clinic Journal of Medicine*. 2004;71:433-437. PMID: 15195778
15. Werner RM, **Alexander GC**, Fagerlin A, Ubel PA. Lying to insurance companies: the desire to deceive among physicians and the public. *American Journal of Bioethics*. 2004;4:1-7. PMID: 16192208
16. Dai C, Stafford RS, **Alexander GC**. National trends in Cox-2 inhibitor use since market release: non-selective diffusion of a selectively cost-effective innovation. *Archives of Internal Medicine*. 2005;165:171-177. PMID 15668363  
  
Editorial: Solomon DH, Avorn J. Coxibs, science, and the public trust. *Archives of Internal Medicine*. 2005;165:158-160. PMID: 15668360
17. **Alexander GC**, Casalino LP, Metlzer DO. Physician strategies to reduce patients' out-of-pocket prescription costs. *Archives of Internal Medicine*. 2005;165:633-636. PMID: 15795338

18. Buss MK, **Alexander GC**, Switzer GE, Arnold RM. Assessing competence of residents to discuss end-of-life issues with patients. *Journal of Palliative Medicine*. 2005;8:363-371. PMID: 15890047
19. Lang P, Schwarze M, **Alexander GC**. New technologies meeting old professional boundaries: the emergence of carotid artery stenting. *Journal of the American College of Surgery*. 2005;200:854-860. PMID: 15922195
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29. **Alexander GC**, Sayla MA, Holmes HM, Sachs GA. Prioritizing and stopping prescription medicines. *Canadian Medical Association Journal*. 2006;174:1083-1084. PMCID: PMC1421477
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- Editorial: Stuart B. Where are the Medicare Part D claims data? *Annals of Internal Medicine*. 2008;148:1-2. PMID: 18180463
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 Editorial: Arredondo A. Out-of-pocket costs to users: medicine options for hypertension. *American Journal of Hypertension*. 2008;21:492-492. PMID: 18437138
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- Editorial: Rodewald LE, Orenstein WA. Vaccinating adolescents – new evidence of challenges and opportunities. *Journal of Adolescent Health*. 2009;45:427-429. PMID: 19837347
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- Editorial: Rochon PA, Anderson GM. Prescribing optimal drug therapy for older people: sending the right message. *Archives of Internal Medicine*. 2010;170:103-106. PMID: 20065206
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72. Qato DM, Lindau ST, Conti RM, Schumm P, **Alexander GC**. Racial and ethnic disparities in cardiovascular medication use among older adults in the United States. *Pharmacoepidemiology and Drug Safety*. 2010;19:834-842. PMID: 20681002
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78. Redmann AJ, Brasel KJ, **Alexander GC**, Schwarze ML. Use of Advanced Directives for High Risk Operations: A National Survey of Surgeons. *Annals of Surgery*. 2011 Dec 1. [Epub ahead of print]. PMID: 22167006
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- Editorial: Siegel MD, Perez MT. Within the black box: Exploring how intensivists resolve conflict at the end-of-life. *Critical Care Medicine*. 2012;40:1339-1340.
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# Caleb Alexander, MD

Associate Professor

## Departmental Affiliations

Epidemiology (Primary)

Division: Cardiovascular Disease and Clinical Epidemiology  
School of Medicine (Joint)

## Center & Institute Affiliations

Center for Drug Safety and Effectiveness  
Center for Health Services and Outcomes Research

## Contact Information

615 N. Wolfe Street  
Room W6035  
Baltimore, Maryland 21205

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Center for Drug Safety and Effectiveness: <http://www.jhsph.edu/cdse>

## Education

MS, University of Chicago, 2003  
MD, Case Western Reserve University, 1998

## Overview

Dr. Alexander is a practicing general internist and pharmacoepidemiologist who is internationally renowned for his work examining prescription drug utilization. He is an Associate Professor in the Departments of Epidemiology and Medicine and founding co-Director of the Johns Hopkins Center for Drug Safety and Effectiveness. His work focuses on population-based patterns and determinants of pharmaceutical use, clinical decision-making regarding prescription drugs, and the impact of changes in regulatory and payment policy on pharmaceutical utilization. In addition to expertise conducting survey-based investigations, Dr. Alexander has also extensive experience with the analysis of secondary data sources including administrative claims, the Medical Expenditure Panel Survey and the National Ambulatory Medical Care Survey. Dr. Alexander is the author of more than one hundred and fifty scientific articles and book chapters and is Chair of the FDA's Peripheral and Central Nervous System Advisory Committee. He is currently the Principal or Co-Principal Investigator of RO1s from the AHRQ and the NHLBI that examine the effect of FDA regulatory communications and direct-to-consumer advertising on prescription and non-prescription health care utilization.

Dr. Alexander has served on numerous editorial boards including Drug Safety, Medical Care, Medical Decision Making, American Journal of Health-System Pharmacy and the Journal of General Internal Medicine.

Research Interests: prescription drugs; drug utilization; drug safety; drug effectiveness; pharmacoepidemiology; pharmaceutical policy

## Honors and honors

Honors



1993 Cum Laude, University of Pennsylvania

1997 Alpha Omega Alpha, Case Western Reserve University

2003-2005 John A. Oremus Memorial Scholar (\$40,000 Research Stipend), MacLean Center for Medical Ethics, University of Chicago

2006 Top 5% of reviewers, Medical Care (also received annually through 2011)

2007 Top 10% of reviewers, Ann Intern Med (also received annually through 2009)

2011 Elected Fellow of the American College of Physicians (FACP)

## Awards

2001 Edward W. Holmes Resident Research Award, University of Pennsylvania

2006-2009 Robert Wood Johnson Foundation Faculty Scholar

2007 Research Finalist, International Society for Pharmacoeconomics and Outcomes Research, Annual Meeting

2008 Outstanding Physician Scientist Award, Central Society for Clinical Research

2008 Career development award (\$10,000 Research Stipend), Central Society for Clinical Research

2008 Department of Medicine Research Award (awarded to trainee for mentored research; also received by mentored trainees in 2009 and 2010)

2009 Pritzker School of Medicine Sigma Xi Award for Impact on Science (awarded to trainee for mentored research)

## Research Interests

prescription drugs  
drug utilization  
drug safety  
drug effectiveness  
patient-provider communication  
pharmacoepidemiology  
regulatory policy  
Food and Drug Administration

## Publications

Select Peer-Reviewed Publications (of over 125 total; trainees' names are underlined)

Yin W, Basu A, Zhang J, Rabbani A, Meltzer DO, **Alexander GC**. Impact of the Medicare Part D Prescription Drug Benefit on drug utilization and out-of-pocket expenditures. *Annals of Internal Medicine*. 2008;148:169-177.

Dorsey R, Rabbani A, Gallagher SA, Conti R, **Alexander GC**. The impact of black box warnings on the use of atypical antipsychotic medicines. *Archives of Internal Medicine*. 2010;170:96-103.

Dusetzina SB, Higashi A (\*co-first author), Dorsey ER, Conti R, Huskamp HA, Zhu S, Garfield

CF, **Alexander GC**. Impact of FDA risk communications on health care utilization and health behaviors: a systematic review. *Medical Care*. 2012;50:466-78.

Kirley K, Qato DM, Kornfield R, Stafford RS, **Alexander GC**. National trends in oral anticoagulant use in the United States, 2007-2011. *Circulation: Cardiovascular Outcomes and Quality*. 2012;5:615-621.

Daubresse M, Chang H-Y, Yu Y, Viswanathan S, Shah ND, Stafford RS, Kruszewski SP, **Alexander GC**. Ambulatory Diagnosis and Treatment of Non-Malignant Pain in the United States, 2000-2010. *Medical Care*. 2013;51:870-8.

## **EXHIBIT 4;**

Declaration of Rachel Clattenburg  
*Public Citizen v. FDA et al.*, 16-cv-781

*Curriculum vitae*

**Date Prepared:** May 1, 2013

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**Work E-Mail:** James.delemos@utsouthwestern.edu

**Work Fax:** 214-645-2480

(b) (6)

**Education**

Year	Degree (Honors)	Field of Study	Institution
1997	Certificate	Clinical Effectiveness Program	Harvard School of Public Health
1992	M.D.	Medicine	Harvard Medical School
1987	B.A. (Summa Cum Laude)	Liberal Arts	The University of Texas at Austin

**Postdoctoral Training**

Year(s)	Titles	Specialty/Discipline	Institution
1996-1999	Fellow	Cardiology	The Brigham and Women's Hospital, Boston, MA
1995-1996	Chief Resident	Internal Medicine	UT Southwestern Medical Center, Dallas, TX
1992-1995	Intern/Resident	Internal Medicine	UT Southwestern Medical Center, Dallas, TX

**Current Licensure and Certification**Licensure

Texas (b) (6) 1993

Board and Other Certification

American Board of Internal Medicine Certification, 1995  
Cardiovascular Subspecialty Certification, 1999, renewed 2009

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Revision Date: April 20, 2013



**Curriculum Vitae**

**Dennis R. Ownby, M.D.**

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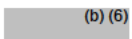
EDUCATION:



Undergraduate:	Ohio University, Athens, Ohio, B.S. (Cum Laude) Major: Zoology	1966 - 1969
Medical School:	Medical College of Ohio, Toledo, Ohio, M.D. Graduation date: June 15, 1972	1969 – 1972
Residency:	Duke University School of Medicine, Pediatrics (PL-1&2) Durham, North Carolina	1972 - 1974
Fellowship:	Duke University School of Medicine, Pediatrics, Division of Allergy, Immunology and Pulmonary Disease Durham, North Carolina	1974 - 1977

BOARD CERTIFICATION AND LICENSURE:

National Board of Medical Examiners, July, 1973  
American Board of Pediatrics, July, 1977  
American Board of Allergy and Immunology - A conjoint board of the American Board of Internal Medicine and the Board of Pediatrics, October, 1977;  
Re-certified, October 11, 1993 and October 13, 2006.  
Diagnostic Laboratory Immunology - The Joint Committees on Diagnostic Immunology, American Board of Internal Medicine and the American Board of Pediatrics, October 10, 1986

Licensed - North Carolina, 1977; License No. , In-active

Dennis R. Ownby, M.D.  
Curriculum Vitae, page 2 of 29

Licensed - Michigan, 1980; License No. (b) (6), In-active  
Licensed - Georgia, 1998; License No. (b) (6), Active  
Licensed - South Carolina, 2010; License No. (b) (6), Active

PROFESSIONAL ACTIVITIES:

Academic Appointments:

Assistant Professor, Division of Allergy, Immunology, and Pulmonary Disease  
Department of Pediatrics, Duke University School of Medicine,  
Durham, North Carolina, 1977 - 1979  
Senior Staff Physician, Division of Allergy-Clinical Immunology  
Henry Ford Hospital, Detroit, Michigan, 1980 - 1997  
Clinical Assistant Professor, Pediatrics and Communicable Diseases  
University of Michigan Medical School, Ann Arbor, Michigan, 1980 - 1987  
Director Allergy-Immunology Laboratory, Henry Ford Hospital  
Detroit, Michigan, 1985 - 1997  
Clinical Associate Professor, Pediatrics and Communicable Diseases  
University of Michigan Medical School, Ann Arbor, Michigan, 1987 - 1995  
Professor of Pediatrics (with tenure), Department of Pediatrics, Case Western  
Reserve University School of Medicine, Cleveland, Ohio, 1997  
Professor of Pediatrics with tenure, Department of Pediatrics,  
Medical College of Georgia, Augusta, Georgia, 1998-present  
Professor of Medicine, Department of Medicine,  
Medical College of Georgia, Augusta, Georgia, 1998-present  
Chief, Division of Allergy and Immunology, Department of Pediatrics  
Medical College of Georgia, Augusta, Georgia, 2000-present  
Betty B. Wray Chair of Allergy and Immunology, Department of Pediatrics  
Medical College of Georgia, Augusta, Georgia, 2008-2012  
Professor of Pediatrics, Department of Pediatrics, Georgia Regents University,  
Retired: December 30, 2012 and rehired: February 1, 2013

Major Institutional Committees of the Medical College of Georgia:

Standards and Scholarship Committee: 1999-2000  
Chair, Educational Standards Subcommittee, 1999 - 2000  
Managed/Contracted Care Committee of PPG, 2000 - present  
Chair, 2007-present  
Graduate Medical Education Committee, 2000 - 2002  
Subcommittee on internal program review, 2000 - 2002  
Executive Committee, Faculty Senate, 2001-2002  
University Assessment Committee, 2006-2009, member  
Pilot Study Research Program (PSRP) Committee member 2008-present  
Research Planning Committee, School of Medicine, 2007-2008, member  
Search Committee, Chair, Department of Pediatrics, member, 2008-2009  
Research Pillar Committee, 2010

**Steve N. Georas, M.D.**

Date: November 26, 2013

**PERSONAL INFORMATION**

Business Address

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Spouse: (b) (6)

Fax Number: (585) 273-1114

E-Mail Address: Steve\_Georas@urmc.rochester.edu

Date of Birth: (b) (6)

Place of Birth: (b) (6)

Citizenship: (b) (6)

**EDUCATION**

- |             |   |
|-------------|---|
| 1979 – 1983 | B.S. in Applied Mathematics - Biology<br>Brown University, Providence, RI |
| 1983 – 1987 | M.D.<br>Brown University Medical School, Providence, RI                   |

**POSTDOCTORAL TRAINING**

- |             |   |
|-------------|---|
| 1987 – 1990 | Internship and Residency, Internal Medicine<br>Duke University Medical Center, Durham, NC |
| 1990 – 1994 | Fellowship, Pulmonary & Critical Care Medicine<br>Johns Hopkins University, Baltimore, MD |

**LICENSURE AND CERTIFICATION**

Maryland Medical License ( (b) (6) )

New York Medical License ( (b) (6) )

American Board of Internal Medicine (ID (b) (6)

Internal Medicine (1990)

Pulmonary Diseases (1994, recertified 2004)

Critical Care Medicine (1995, recertified 2005)

**FELLOWSHIP AWARDS**

- |      |   |
|------|---|
| 1991 | Allen & Hanburys Pulmonary Fellowship Award |
| 1992 | American Lung Association Fellowship Award  |



**DUKE UNIVERSITY MEDICAL CENTER**  
**CURRICULUM VITAE**  
**For**  
**Permanent Record**  
**And the**  
**Appointments and Promotions Committee**

**Date Prepared: 05/01/2013**

**Name:** Jennifer S. Li, MD MHS

**Primary Academic Appointment:** Department of Pediatrics  
Division of Cardiology

**Secondary Appointment:** Department of Medicine

**Present Academic Rank and Title:** Beverly C. Morgan Professor of Pediatrics  
Professor of Medicine  
Division Chief, Pediatric Cardiology  
Director, Pediatric Research, Duke Translational  
Medicine Institute

**Date and Rank of First Duke Faculty Appointment:** 1993: Associate in Pediatrics

**Medical Licensure:** North Carolina License (b) (6)  
**Date of License:** 6/24/1989

**Specialty Certifications and Dates:** American Board of Pediatrics: 1992, 2000  
Sub-board of Pediatric Cardiology: 1994, 2001, 2008

(b) (6)

<u>Education</u>	<u>Institution</u>	<u>Date</u>	<u>Degree</u>
(b) (6)			
College	Stanford University Stanford, CA	1983	B.A.S. with Distinction Chemistry and English
Graduate or Professional School	Duke University Durham, NC	1987	M.D.
	Duke University Durham, NC	2005	MHS Clinical Research

## **EXHIBIT 52**

Declaration of Rachel Clattenburg  
*Public Citizen v. FDA et al.*, 16-cv-781

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Revision Date: April 20, 2013



**Curriculum Vitae**

**Dennis R. Ownby, M.D.**

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PERSONAL:




EDUCATION:



Undergraduate:	Ohio University, Athens, Ohio, B.S. (Cum Laude) Major: Zoology	1966 - 1969
Medical School:	Medical College of Ohio, Toledo, Ohio, M.D. Graduation date: June 15, 1972	1969 – 1972
Residency:	Duke University School of Medicine, Pediatrics (PL-1&2) Durham, North Carolina	1972 - 1974
Fellowship:	Duke University School of Medicine, Pediatrics, Division of Allergy, Immunology and Pulmonary Disease Durham, North Carolina	1974 - 1977

BOARD CERTIFICATION AND LICENSURE:

National Board of Medical Examiners, July, 1973  
American Board of Pediatrics, July, 1977  
American Board of Allergy and Immunology - A conjoint board of the American Board of Internal Medicine and the Board of Pediatrics, October, 1977;  
Re-certified, October 11, 1993 and October 13, 2006.  
Diagnostic Laboratory Immunology - The Joint Committees on Diagnostic Immunology, American Board of Internal Medicine and the American Board of Pediatrics, October 10, 1986

Licensed - North Carolina, 1977; License No. , In-active

Dennis R. Ownby, M.D.  
Curriculum Vitae, page 2 of 29

Licensed - Michigan, 1980; License No. (b) (6), In-active  
Licensed - Georgia, 1998; License No. (b) (6), Active  
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PROFESSIONAL ACTIVITIES:

Academic Appointments:

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Department of Pediatrics, Duke University School of Medicine,  
Durham, North Carolina, 1977 - 1979  
Senior Staff Physician, Division of Allergy-Clinical Immunology  
Henry Ford Hospital, Detroit, Michigan, 1980 - 1997  
Clinical Assistant Professor, Pediatrics and Communicable Diseases  
University of Michigan Medical School, Ann Arbor, Michigan, 1980 - 1987  
Director Allergy-Immunology Laboratory, Henry Ford Hospital  
Detroit, Michigan, 1985 - 1997  
Clinical Associate Professor, Pediatrics and Communicable Diseases  
University of Michigan Medical School, Ann Arbor, Michigan, 1987 - 1995  
Professor of Pediatrics (with tenure), Department of Pediatrics, Case Western  
Reserve University School of Medicine, Cleveland, Ohio, 1997  
Professor of Pediatrics with tenure, Department of Pediatrics,  
Medical College of Georgia, Augusta, Georgia, 1998-present  
Professor of Medicine, Department of Medicine,  
Medical College of Georgia, Augusta, Georgia, 1998-present  
Chief, Division of Allergy and Immunology, Department of Pediatrics  
Medical College of Georgia, Augusta, Georgia, 2000-present  
Betty B. Wray Chair of Allergy and Immunology, Department of Pediatrics  
Medical College of Georgia, Augusta, Georgia, 2008-2012  
Professor of Pediatrics, Department of Pediatrics, Georgia Regents University,  
Retired: December 30, 2012 and rehired: February 1, 2013

Major Institutional Committees of the Medical College of Georgia:

Standards and Scholarship Committee: 1999-2000  
Chair, Educational Standards Subcommittee, 1999 - 2000  
Managed/Contracted Care Committee of PPG, 2000 - present  
Chair, 2007-present  
Graduate Medical Education Committee, 2000 - 2002  
Subcommittee on internal program review, 2000 - 2002  
Executive Committee, Faculty Senate, 2001-2002  
University Assessment Committee, 2006-2009, member  
Pilot Study Research Program (PSRP) Committee member 2008-present  
Research Planning Committee, School of Medicine, 2007-2008, member  
Search Committee, Chair, Department of Pediatrics, member, 2008-2009  
Research Pillar Committee, 2010



## Composite State Board of Medical Examiners

# PHYSICIAN PROFILE SEARCH RESULT

Physician's Name: **Dennis Randall Ownby** License **44978**

**Disclaimer:** This information has been provided by the physician and has not been verified by the board. The Patient Right to Know Act requires physicians licensed to practice in the State of Georgia to provide certain information to the Board that is to be made available to the public. The Board relies upon information provided by physicians to be true and correct, as required by statute. It is an act of unprofessional conduct for a licensee to provide erroneous information to the Board. The Board makes no warranty or guarantee concerning the accuracy or completeness of physician profiles.

## I. Physician Data

### License and Reciprocity Information:

<b>License Number:</b>	44978	<b>Designation:</b>	MD
<b>Licensure Date(MM/DD/YYYY):</b>	02/05/1998	<b>Licensure Date in another state (MM/DD/YYYY):</b>	05/06/1977
<b>Issued in another State:</b>	North Carolina		

### Address:

1120 15th Street AUGUSTA, 30912-1790

### Practice Location History (Maximum = 5):

City	State	Country	From MM/DD/YYYY	To MM/DD/YYYY
Durham	North Carolina	United States	07/01/1977	12/31/1979
Detroit	Michigan	United States	01/01/1980	12/31/1997

### Does this physician currently accept Medicaid patients?

Yes

## II. Medical Education and Training

### Medical School (Maximum = 1):

School Name	From Date MM/DD/YYYY	To Date MM/DD/YYYY	Graduation Date MM/DD/YYYY
Medical College of Ohio	09/01/1969	06/15/1972	06/15/1972

### Other Medical Schools (Maximum = 3):

This physician has not reported any other medical school information.

**Training (Maximum = 5):**

Graduate Medical Education	Location of Training			From MM/DD/YYYY	To MM/DD/YYYY
	City	State	Country		
Allergy - Immunology	Durham	NC	US	07/01/1974	06/30/1977
Pediatrics	Durham	NC	US	07/01/1972	06/30/1974

**III. Specialty Board Certifications**

Disclaimer: Please note that many valid certifying specialty boards do not participate in the American Board of Medical Specialties (1-866-ASK-ABMS or www.abms.org) and actual verification of a physician's board certification is best accomplished by contacting the individual certifying specialty board.

**List of applicable specialty board certifications. (Maximum = 3)****CERTIFYING BOARD**

American Board of Pediatrics  
 American Board of Allergy and Immunology  
 American Board of Allergy and Immunology

**SPECIALTY/SUBSPECIALTY**

Pediatrics  
 Allergy and Immunology  
 Diagnostic Laboratory Immunology

**IV. Current Hospital Staff Privileges****List of hospitals where physician currently holds staff privileges. (Maximum = 7)****Hospital Name**

Children's Medical Center, Medical College of Georgia, Georgia Regents University

**V. Final Disciplinary Action****List of final disciplinary actions taken by licensing boards against this physician on or after April 11, 2001.**

This physician has indicated that he/she has **NOT** had any final public disciplinary action or second subsequent final private reprimand taken against him/her by a licensing board regulating his/her medical or any other license in this state or any other state.

**List of privilege revocation or disciplinary actions taken against this physician on or after April 11, 2001.**

This physician has indicated that he/she has **NOT** had any hospital privileges revoked involuntarily or by agreement, or restricted for reason(s) related to competence or character.

**VI. Criminal Offenses****Below is a list of the physician's criminal offenses.**

This physician has indicated that he/she has **NOT** been convicted of a felony, irrespective of the pendency or availability of an appeal, or pled guilty or nolo contendere to a felony in any jurisdiction.

**VII. Medical Malpractice Judgment Arbitration Awards****List of medical malpractice court judgment and/or arbitration awards against this physician entered on or after**

**April 11, 2001 that was in excess of \$100,000 limited to the most recent 10 years.**

This physician has indicated that he/she has **NO** medical malpractice court judgment(s) and/or arbitration award(s) against his/her license.

Disclaimer: Settlement of a claim may occur for a variety of reasons which do not necessarily reflect negatively on the professional competence or conduct of the physician. A payment in settlement of a medical malpractice action or claim should not be construed as creating a presumption that medical malpractice has occurred.

**VIII. Medical Malpractice Settlement Amounts****List of settlements required to be reported on the profile and against the physician entered on or after April 11, 2001 and limited to the most recent 10 years .**

- A. Minimum 4 settlements (regardless of amount).**
- B. 3 settlements with at least one settlement over \$100,000.00.**
- C. 1 or 2 settlements of which one has a value of over \$300,000.00.**

This physician has indicated that he/she has **NO** medical settlements against his/her license.

Disclaimer: Settlement of a claim may occur for a variety of reasons which do not necessarily reflect negatively on the professional competence or conduct of the physician. A payment in settlement of a medical malpractice action or claim should not be construed as creating a presumption that medical malpractice has occurred.

**IX. Optional Information.****List of physician's articles, journals, or publications limited to the most recent ten years. (Maximum = 4)**

<b>Title</b>	<b>Publication</b>	<b>Date</b> (MM/DD/YYYY)
Exposure to dogs and cats and risk of allergic disease at 7	Journal of the American Medical Association	08/28/2002

**List of professional organizations, community service organization memberships or activities. (Maximum = 5)****Professional Organization, Community Service Organization Membership or Activity**

American Academy of Allergy, Asthma and Immunology  
American Thoracic Society

**List of awards. (Maximum = 5)**

<b>Award/Honor</b>	<b>Organization</b>
Membership	Alpha Omega Alpha

**List of all languages excluding English used the by physician to communicate with patients and/or translation services available to their patients at the primary place of practice. (Maximum = 6)**

This physician has not indicated that any languages other than English are used to communicate with patients, or that any translation service is available for patients, at his/her primary place of practice.

**List of Appointments to Medical School Faculties. (Not hospital affiliations or privileges) (Maximum = 6)**

**Appointment**

Professor of Pediatrics, Georgia Regents University

## X. Physician Comments

The physician has not submitted any comments.



## **EXHIBIT 53**

Declaration of Rachel Clattenburg  
*Public Citizen v. FDA et al.*, 16-cv-781

**VIVIAN LEWIS, M.D**  
137 Wallis Hall  
Box 270016  
University of Rochester  
Rochester NY 14627-0016  
vivian.lewis@rochester.edu  
585-273-2760

## **EDUCATION**

### Leadership:

Executive Leadership in Academic Medicine (ELAM)  
Drexel University College of Medicine  
Philadelphia, PA  
Certificate-2004

University of Rochester  
William E. Simon Graduate School of Business  
Executive Program in Health Care Leadership  
Certificate-2000

### Fellowship:

University of California, San Francisco  
Dept of Ob-Gyn & Reproductive Sciences and Cardiovascular Research Institute  
Reproductive Endocrinology-1983

### Residency:

Mount Sinai Hospital, New York City  
Mount Sinai School of Medicine  
Obstetrics-Gynecology-1981

### Medical School

Columbia University  
College of Physicians and Surgeons  
Medical Degree -1977

### Undergraduate

Harvard University  
Cambridge, MA  
Bachelor of Arts  
Biology Concentration-1973

*Reproductive Endocrinology*. Jaffe R and Pierson R editors, JB Lippincott. Philadelphia, 1994

Lewis V, Abramowicz JS: "Hysterosalpingography of the Abnormal Pelvis" in *Imaging in Infertility and Reproductive Endocrinology*: Jaffe R and Pierson R, editors. JB Lippincott, Philadelphia, 1994

Lewis V: Biology of early pregnancy loss in *Loss during pregnancy and the early newborn period*, Woods JR and Woods JE, editors, AL Janetti, New Jersey, 1997

Lewis V: Hyperprolactinemia in *Clinical Reproductive Medicine*, Cowan B, and Seifer D, editors. Lippincott-Raven. Philadelphia, 1997

Abramowicz J, Lewis V: Plain radiography and fluoroscopy in *Gynecologic Imaging*, Anderson JC, editor, Churchill-Livingstone, London 1999

Lewis V, Abramowicz J: Hysterosalpingography of the Fallopian Tubes in *Gynecologic Imaging*, Anderson JC, editor, Churchill-Livingstone, London 1999

Lewis V, Abramowicz J: Hysterosalpingography of the Endometrium in *Gynecologic Imaging*, Anderson JC, editor, Churchill-Livingstone, London 1999

Abramowicz J, Lewis V: "Hysterosalpingography of the Myometrium" in *Gynecologic Imaging*: Anderson JC, editor, Churchill-Livingstone, London 1999

Grady-Weliky T, Lewis V: Premenstrual syndrome in *Primary Care for Women*, 2<sup>nd</sup> edition: Leppert P, Hartmann D, editors. Lippincott, Philadelphia. 2004

Lewis V: Genetic screening of potential oocyte donors in *Donor oocyte IVF*. Allahbadia GN, editor. Jaypee Brothers Medical Press, New Delhi. 2009.

**COMMUNITY SERVICE (selected)**

(b) (6)

Task force for health care careers for the deaf and hard of hearing community. 2010-2012. This was a partnership begun by the National Technical Institute for the Deaf at Rochester Institute of Technology, Gallaudet University, the National Center for Deaf Health Research at the University of Rochester Medical Center, and the Rochester General Health System.

(b) (6)

Planning committee (and speaker)- *Speaking of Women's Health*- daylong health information event for the public sponsored by local PBS station and various businesses, 2003-2004. Co-chair 2009-2010

(b) (6)

Editorial board- *Healthy Women* – Highland Hospital newsletter, 2006-2007

Board of Directors, Ferre Institute, an organization for the reproductive health education of women, (central and western New York), 1995-2002. Vice president, 2000-2002

Patient education talks and seminars in Rochester, Buffalo, Syracuse and Utica (Resolve of Western NY, Adoption Resource Network, Infertility Focus, Ferre Institute, Endometriosis Association of Rochester, and National Conference of Jewish Women, Lupus Foundation).

University of Rochester School of Medicine and Dentistry- Summer Urban Research Fellowship program for undergraduates interested in medical school (lecturer 1995-2010; mentor for summer student 1998)

CURRICULUM VITAE (2015)  
**William R. Hiatt, MD, FACP, FAHA**

Novartis Foundation Professor for Cardiovascular Research  
Section of Vascular Medicine  
Division of Cardiology  
University of Colorado School of Medicine  
President, CPC Clinical Research

Address

CPC Clinical Research  
13199 E. Montview Blvd. Suite 200  
Aurora, CO 80045  
Phone: (303) 860-9900, Fax (303) 860-1288  
E-mail: Will.Hiatt@cpcmed.org

University of Colorado School of Medicine  
Division of Cardiology  
Mail stop B130  
12631 East 17th Avenue, room 7119  
P.O. Box 6511  
Aurora, CO 80045  
Phone: 303-724-2089  
E-mail: Will.Hiatt@UCDenver.edu

(b) (6)

Education

1972 B.A., Knox College  
1976 M.D., University of Colorado School of Medicine

Postdoctoral Training

1976-7 Intern, Department of Medicine, Boston University Hospital, Boston, MA  
1977-8 Junior Resident in Medicine, Boston University Hospital, Boston, MA  
1978-9 Senior Resident in Medicine, Department of Medicine, University of Colorado Denver (UCD), Denver, CO  
1979-81 Fellow in General Internal Medicine and Vascular Medicine, Department of Medicine, UCD

Licensure and Certification

1979 State of Colorado, # 22122  
1980 American Board of Internal Medicine, # 71371  
2006-15 American Board of Vascular Medicine, # 144

1982-2000 Meiklejohn inpatient medical service  
 1993- Cardiovascular Pathophysiology (second year medical students)  
 1993-2000 Cardiovascular Disease Epidemiology

#### Administrative Responsibilities

1981-4 Director, Primary Care Residency Program, Division of General Internal Medicine  
 1984-7 Co-Director, General Medicine/Clinical Pharmacology Consult Service  
 1988-96 Co-Director, Cardiovascular Rehabilitation Center, UCD  
 1991-2 Director of Meiklejohn inpatient medical service  
 1992- Chairman, Scientific Advisory Committee of the General Clinical Research Center  
 1996- President, Colorado Prevention Center (CPC Clinical Research and CPC Community Health)  
 2007- Chair, Clinical and Translational Research Advisory Committee, School of Medicine

#### University Committees

1984-5 Curriculum Review Committee, UCD  
 1985-91 Intern Selection Committee, Department of Medicine, UCD  
 1987-2008 Scientific Advisory Committee, General Clinical Research Center, UCD  
 1991-2 Biomedical Research Support Committee, UCD  
 1995- Department of Medicine Promotions Committee, UCD  
 1996- Advisory Board, Center on Aging, UCD  
 2005- Clinical and Translational Research Advisory Committee, UCD

#### Journal Editorial Boards

1993- Journal of Vascular Medicine and Biology (Editorial Board)  
 1998- Cochrane Review Group on Peripheral Vascular Disease (Editorial Board)  
 1999 Exercise and Sport Sciences Reviews (Assistant Editor)  
 1999- Periphery (Editor in Chief)  
 2001- Journal of Vascular Medicine (Associate Editor)  
 2002-2007 Journal of Vascular Surgery (Editorial Board)  
 2005 Circulation (Guest Editor)  
 2009 - Co-editor, TASC guidelines in PAD  
 2014 Journal of the American College of Cardiology Section Editor

#### Student Advising

(b) (6)

#### Community Activities

(b) (6)

(b) (6)

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(b) (6)

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Active Grants (Other Support)

Upon Request

Division of Gastroenterology and Hepatology  
Dallas VA Medical Center  
4500 S. Lancaster Rd, 111B1  
Dallas, Texas 75216  
(214) 857-1820, (b) (6)

**CURRENT POSITION**

**UNIVERSITY OF TEXAS – SOUTHWESTERN MEDICAL CENTER**, Dallas, TX  
Assistant Professor of Medicine, Division of Gastroenterology and Hepatology, 2008-present  
**VA NORTH TEXAS HEALTH CARE SYSTEM**, Dallas, TX  
Staff Gastroenterologist and Director of the Inflammatory Bowel Disease Clinic, 2008 - present

**EDUCATION & TRAINING**

**UNIVERSITY OF TEXAS – SOUTHWESTERN MEDICAL CENTER**, Dallas, TX  
Fellowship, Gastroenterology, 2003-2007

**UNIVERSITY OF TEXAS – SOUTHWESTERN MEDICAL CENTER**, Dallas, TX  
Internship, Internal Medicine, 2001-2002  
Residency, Internal Medicine, 2002-2003

**BAYLOR COLLEGE OF MEDICINE**, Houston, TX  
Doctor of Medicine, May 23, 2001

**VANDERBILT UNIVERSITY**, Nashville, TN  
Bachelor of Engineering, Biomedical Engineering, Molecular Biology (double major), May 1997  
GPA: 3.8/4.0 (engineering), 3.7/4.0 (overall), Magna Cum Laude

(b) (6)

**LICENSING**

**USMLE 1**, passed January 2000  
**USMLE 2**, passed March 2001  
**USMLE 3**, passed September 2001  
**Texas Medical License**, December 20, 2002  
**American Board of Internal Medicine**, August 24, 2004  
**American Board of Internal Medicine, Subspecialty Board on Gastroenterology**, 2008

**RESEARCH**

**Division of Gastroenterology, Dallas VA Medical Center / UT Southwestern** (March 2008 – present)

Currently pursuing clinical research with emphasis in inflammatory bowel diseases and colonic diseases. Research includes investigating triggers for flares in IBD, mucosal healing in IBD, post-polypectomy bleeding risk with thienopyridine use, utility of prophylactic hemoclip placement after large polypectomy, and building a database of IBD patients seen at the Dallas VA.

**Division of Gastroenterology, University of Texas Southwestern** (July 2003 – December 2007)

Spent 3 years of 4 ½ year gastroenterology fellowship delineating molecular mechanisms for pathogenesis of cancer in Barrett's esophagus related cancer. Specifically studied the role of oxidant stress and acid in the neoplastic progression of Barrett's esophagus. Funded by NIH T-32 Grant and ACG Clinical Research Award. Mentors – (b) (6) and (b) (6)

**Department of Surgery, Baylor College of Medicine** (September 1999 – August 2000)

Non-blood contacting circulatory support, Mentor – Mark P. Anstadt, MD. Results led to **abstract** publication, *Myocardial Dynamics During Direct Mechanical Ventricular Actuation of the Fibrillating Heart*, and **poster presentation** at the 46<sup>th</sup> annual ASAIO conference, June 2000. Awarded **ASAIO Fellowship Award** for the ASAIO Conference 2000.

**School of Engineering, Vanderbilt University** (January 1997-May 1997)

Free Electron Laser Project – Designed hand-held interface, software, and hardware for control of the Free Electron Laser in otolaryngologic surgery.

**GRANT AWARDS**

(b) (6)  
UT STAR Translational Pilot Program 2012 Service Package Grant, *Assessing the role of the mammalian acetate switch in colon cancer growth and metastasis*. [Mentor: (b) (6)]  
UCB Medical Education Grant, 2011, to support the Katherine McArthur Lectureship



Hormi-Carver K, Shewmake K, Pearson S, **Feagins LA**, Maniar R, Spechler SJ, Souza RF, Ramirez RD. *Treatment of Metaplastic Barrett's Cells with Retinoic Acid Increases Sensitivity to Apoptosis with and without UV-B Irradiation.* Gastroenterology 2005 April; 128 (4) S2: A-232.

Hormi-Carver K, Shewmake K, Pearson S, **Feagins LA**, Maniar R, Spechler SJ, Ramirez RD, Souza RF. *UV-B Irradiation Induces Apoptosis in Esophageal Squamous Cells, but Not in Metaplastic Barrett's Cells.* Gastroenterology 2005 April; 128 (4) S2: A-232.

**Feagins LA**, Terada LS, Shewmake K, Morales CP, Spechler SJ, Souza RF. *Acid and Acidified Bile Salts Increase Oxidant Production in Barrett's Esophagus.* Gastroenterology 2004 April; 126 (4) S2: A-236.

**Feagins LA** et al., *Myocardial Dynamics During Direct Mechanical Ventricular Actuation of the Fibrillating Heart.* ASAIO Journal 2000, 46(2):168

**PROFESSIONAL SOCIETIES**

Crohn's and Colitis Foundation of America, member, 2008-present  
American Gastroenterology Association, member, 2003 – present  
American College of Gastroenterology, member, 2003 – present  
Gastroenterology Research Group, member, 2003 – present  
American Society for Gastrointestinal Endoscopy, 2004 – present  
American College of Physicians, 2012 – present  
American Association for Cancer Research, 2004 – 2006  
American Medical Association, member, 1997 – present  
Texas Medical Association, Student Rep. from MSS Committee on Patient-Physician Advocacy, 1998-99

**TEACHING / MENTORING**

Co-director. Dallas VA Medical-Surgical Combined Conference. 2011-current



(b) (6)

Preceptor, Introduction to Clinical Medicine Course, UT-Southwestern, 2002-2003  
Instructor, Kaplan Educational Corporation, Houston, TX, Sept. 1997 – Sept 1998, taught MCAT, DAT, OAT, and PCAT preparatory classes. Specialized in teaching areas of biology, math, and physics. Part-time (4-8 hours/week).

Vanderbilt Students Volunteer for Science, 1996, taught biweekly science lessons to jr. high students

(b) (6)

**OTHER WORK EXPERIENCE**

Dallas VA Emergency Department Physician, part-time, nights and weekends, 2003 – 2006

**ACTIVITIES**

International elective, Tropical Infectious Disease Course – Universidad Peruana Cayetano Heredia, Lima and Iquitos, Perú, April and May, 2000

Work-Study, Eastwood Health Clinic, Houston, TX, Feb-June 1998

Medical Missions Trip to Mexico, April 1998

Internal Medicine Preceptorship, Summer 1998 in Geriatrics and Hospice Care

Member, Student Internal Medicine Society, Baylor College of Medicine, 1997-2001

American Medical Women's Association, member, 1997-2001

Baylor College of Medicine Christian Medical Association, 1997-2001

Intern, Texas Children's Hospital, Biomedical Engineering Department, Summer 1996



Volunteer, Vanderbilt Medical Center Emergency Department, Nashville, TN, 1994-95

Member, Biomedical Engineering Society, Vanderbilt University, 1994-1997  
Rho Chi (Rush Counselor), Panhellenic Council, Vanderbilt University, 1996-1997



(b) (6)

**OTHER**

**INFORMATION** Speak Spanish - out of country experience (Spain, Mexico, Peru). Hobbies include  (b) (6)  


**CURRICULUM VITAE**

**STEVEN D. NATHAN, M.D.**

**Updated 02/02/2015**

**PERSONAL INFORMATION:**

**BUSINESS ADDRESS:**

Inova Heart and Vascular Institute  
Inova Fairfax Hospital  
3300 Gallows Road  
Falls Church, VA 22042-3300  
Tel: (703) 776-3610  
Fax: (703) 776-3515  
[steven.nathan@inova.org](mailto:steven.nathan@inova.org)

**LICENSURE:**

1994-active	Virginia (0101050649)
1988-1994	California (A044888)

**OTHER CERTIFICATION:**

1984	FMGEMS
1983	Certificate of full registration as Medical Practitioner of General Medical Council, London, U.K.

**BOARD CERTIFICATION:**

2011	Recertified in Critical Care Medicine
2010	Recertified in Pulmonary Diseases
2000	Recertified in Pulmonary Diseases and Critical Care Medicine
1991	American Board of Critical Care Medicine
1990	American Board of Pulmonary Diseases
1988	American Board of Internal Medicine

**EDUCATION:**

1976-1981	M.B.B.cH University of the Witwatersrand Medical School, Johannesburg, South Africa
1971-1975	Matriculation, Parktown Boys High School, Johannesburg, South Africa. Distinctions in Mathematics, Science and Latin.

**POSTGRADUATE EDUCATION:**

1991-1992	Fellow, Lung Transplantation, Cedars-Sinai Medical Center, Los Angeles, CA.
1988-1991	Fellow, Pulmonary Medicine and Critical Care, Cedars-Sinai Medical Center, Los Angeles, CA.
1985-1988	Internal Medicine Residency, Long Island Jewish Hospital, New York City, NY
1983-1985	South African Defense Force, Medical Corps
1982	Internship - six months Internal Medicine - Six months General Surgery - Johannesburg Hospital, South Africa.

**PROFESSIONAL APPOINTMENT:**

July 2011-	Professor of Medicine, Virginia Commonwealth University
May 2008-June 2011	Associate Professor of Medicine, Virginia Commonwealth University
September 2007- January 2006-	Co-Director, NIH-Inova Advanced Lung Disease Program Affiliate Professor of Biomedical Sciences George Mason University
November 2004-May 06	Interim Medical Director, Heart Transplant Program
September 2004 -	Medical Director, Advanced Lung Disease Program Inova Fairfax Hospital
January 1998	Director of Thoracic Immunology Inova Fairfax Hospital
March 1997	Clinical Assistant Professor Georgetown University Medical Center
September 1996	Medical Director Lung Transplantation/Heart-lung transplantation Inova Fairfax Hospital Falls Church, VA
April 1994-August 96	Medical Director Lung Transplantation McGuire VA Medical Center Richmond, VA
April 1994-August 96	Staff Physician Pulmonary Medicine/Internal medicine McGuire VA Medical Center Richmond, VA
Sep 1994-August 96	Assistant Professor, Department of Medicine Medical College of Virginia Richmond, VA
July 1992-March 94	Associate Medical Director

Journal of Intensive Care Medicine  
Progress in Transplantation  
Respiration  
The Journal of Heart and Lung Transplantation  
The Journal of Rheumatology  
Thorax  
BMJ Point of Care  
Future Cardiology  
Respirology  
International Journal of COPD  
Respiratory Research  
Clinical Transplantation  
Lung  
Contemporary Clinical Trials  
Acta Cardiologica  
Clinical Investigation  
Proceedings of the American Thoracic Society

**Editorial Boards:**

2014- active Editorial Board, Annals ATS  
2013- active Associate Editor, Thorax  
1999- active Editorial Board, Progress in Transplantation

**PUBLIC SERVICE:**

2011-2013 Chair of the Finance Committee, Washington Regional Transplant Community  
1997-2001 Member, Fairfax County Commission on Organ and Tissue Donation and Transplantation  
2002-active Board Member, Washington Regional Transplant Community

**Extracurricular Achievements:**

(b) (6) [Redacted]  
[Redacted]  
[Redacted]  
[Redacted]  
[Redacted]  
[Redacted]  
[Redacted]  
[Redacted]  
[Redacted]  
[Redacted]

## CURRICULUM VITAE

**Raj Rao, M.D.**  
**Vice-Chairman, Department of Orthopaedic Surgery**  
**Professor of Orthopaedic Surgery and Neurosurgery**  
**Medical College of Wisconsin**

### Address:

Medical College of Wisconsin  
9200 W. Wisconsin Ave  
Milwaukee, WI 53226-0099  
Phone: (414) 805-7425  
Fax: (414) 805-7499

(b)(6)

### Education and Fellowships:

07/1995-06/1996	Spine Surgery Fellow: (b)(6) MD William Beaumont Hospital Royal Oak, MI
07/1991-06/1995	Resident, Orthopaedic Surgery University of Southern California Los Angeles, CA
06/1990-06/1991	Internship, General Surgery University of Southern California Los Angeles, CA
01/1990-06/1990	Post-doctoral Research Fellow: (b)(6) MD Chairman, Dept of Orthopaedics University of Southern California, Los Angeles, CA
09/1988-11/1989	Post-doctoral Research Fellow: (b)(6) MD St. Joseph's Hospital London, Ontario, Canada
12/1987-08/1988	Post-doctoral Research Fellow: Prof. U. Rodegerdts Orthopadische Klinik Seepark Bremerhaven, Germany
07/1984-09/1987	M.S. Orthopaedics University of Bombay, India
11/1978-06/1984	M.D., University of Bombay Bombay, India

Becker's Orthopaedic & Spine, June 8, 2012, Five points on how PPACA will affect physicians.

Angie's List Magazine – Interview on back pain and various options within spine surgery. Sept 2012

Wall Street Journal – Quoted in article on Metal on Metal Hips, based on FDA panel participation. June 29, 2012

The Daily Briefing – Quoted in article on MOM Hips, based on FDA panel feedback. July 3, 2012

The New Physician – Interview on gender diversity initiatives of AAOS and women in the orthopaedic workforce. September 2012

The Baltimore Sun – Interview on operative and nonoperative treatment options for back pain. Nov 4, 2012

Prevention Magazine – Interview on Sciatica – causes, prevention and treatment options. April 2013

Becker's Spine Review – Listed in Top Leadership Strategies by spine surgeons. Discussed core concepts for leadership in the field today and the key qualities of spine surgeon leaders in the future. December 2013

Consumer Reports – Interview on dealing with back pain while traveling. June 2014. Vol 26, Number 6

Becker's Spine Review – Interview on “most challenging issues facing spine surgeons today”. May 2014

Becker's Spine Review – Interview on what drives hospital employment? June 2014

Detroit Free Press – Interview on Back pain and Preventive Measures. September 2014

**Community Service / Interests:**

(b)(6)



## **EXHIBIT 54**

Declaration of Rachel Clattenburg  
*Public Citizen v. FDA et al.*, 16-cv-781



## Curriculum Vitae

**Kurt M. Ribisl, Ph.D.**

Department of Health Behavior and Health Education  
 UNC Gillings School of Global Public Health  
 University of North Carolina at Chapel Hill  
 Campus Box #7440; 316 Rosenau Hall  
 Chapel Hill, NC 27599-7440

e: kurt\_ribisl@unc.edu

t: 919.843.8042

f: 919. 966.2921

w: <http://www.sph.unc.edu/hbhe/>

**RESEARCH INTERESTS**

- Tobacco control policy
- Point-of-sale cigarette advertising and marketing
- Role of the Internet in promoting and discouraging tobacco use
- Innovative applications of information technology for promoting healthy behaviors
- Using regulation to reduce tobacco-related health disparities
- Development and evaluation of community-based cancer prevention and control interventions

**EDUCATION**

- |                                |      |  |
|--------------------------------|------|--|
| <b>Postdoctoral Fellowship</b> | 1997 | <b>Stanford Center for Research in Disease Prevention</b> ,<br>Stanford University School of Medicine, Palo Alto, CA<br><i>Concentration:</i> Cardiovascular disease epidemiology and prevention |
| <b>Ph.D.</b>                   | 1995 | <b>Michigan State University</b> , East Lansing, MI<br><i>Department:</i> Ecological-Community Psychology<br><i>Cognate:</i> Health Studies and Public Health                                    |
| <b>M.A.</b>                    | 1992 | <b>Michigan State University</b> , East Lansing, MI<br><i>Department:</i> Ecological-Community Psychology  |
| <b>B.A.</b>                    | 1989 | <b>Wake Forest University</b> , Winston-Salem, NC<br><i>Major:</i> Psychology; Honors in Psychology  |

**PROFESSIONAL EXPERIENCE**

- |                 |  |
|-----------------|--|
| 2005 to present | <b>Associate Professor (with tenure)</b> , Department of Health Behavior and Health Education, UNC Gillings School of Global Public Health, University of North Carolina at Chapel Hill.         |
| 2004 to present | <b>Director</b> , UNC Coordinating Center, Cancer Prevention and Control Research Network ( <a href="http://www.cpcrn.org">www.cpcrn.org</a> ), UNC Prevention Research Center, Chapel Hill, NC. |
| 2004 to 2011    | <b>Director of Graduate Admissions</b> , Department of Health Behavior and Health Education, UNC Gillings School of Global Public Health, University of North Carolina at Chapel Hill.           |
| 2002 to 2005    | <b>Training Program Director</b> . UNC Pre-doctoral Tobacco Use Prevention and Control Training Program, UNC School of Public Health, Chapel Hill, NC.   |

- Member, Steering Committee.** UNC Center for Health Promotion and Disease Prevention (2008 to present).  
**Member, Steering Committee on the Interdisciplinary Health Communication Certificate & School of Public Health Representative,** UNC-CH (2006 to present).  
**Grant Reviewer,** Social and Behavioral Research in Cancer – Small Grants Program, UNC Lineberger Comprehensive Cancer Center and Vice Provost for Graduate Studies and Research (Spring 2000 to present).  
**Member, Strategic Theme Team-Improving Cancer Outcomes,** UNC Lineberger Comprehensive Cancer Center (2008 to present).

**Completed**

- Member, Search Committee** – Dean, School of Journalism and Mass Communication (2010 to 2011).  
**Member, Search Committee,** health communication faculty member, UNC Lineberger Comprehensive Cancer Center (2008 to 2010).  
**Member, Subcommittee on the Future of Tenure.** UNC-CH (2009).  
**Advisory Committee to the Senior Director and Associate Vice Chancellor for Research,** UNC Office of Sponsored Research, (2008 to 2009; 2002 to 2006).  
**Advisor, Humphreys Fellowship Program,** (b) (6) (Tanzania), UNC-CH (2007 to 2008).  
**Member, External program review team for the UNC School of Journalism and Mass Communication,** UNC Graduate School (2006).  
**Member, Boka Hadzija Graduate Student Award Selection Committee -** UNC Graduate School (Spring 2006).  
**Member, Search Committee** — Deputy Director of Operations, UNC Center for Health Promotion and Disease Prevention (2006).  
**Advisory Committee,** Carolina Collaborative for Health Informatics, (Spring 2003 to 2005).  
**Member, Search Committee -** Director of Pre-Award Services, UNC Office of Sponsored Research, (Fall 2004-2005).  
**Member, Search Committee -** Associate Vice Chancellor for Research, UNC Office of Sponsored Research, (2003).  
**Advisory Committee,** UNC Health Sciences Library and the UNC School of Information and Library Science, “Public Access to North Carolina Health Information Online” - funded by the National Network of Libraries of Medicine, Southeastern Atlantic Region (<http://www.nchealthinfo.org/board.cfm>) (Fall 2000-2005).

**SERVICE - EXTERNAL**

(b) (6)

***Reviewer of Research and Grant Applications***

**Completed**

- Grant Reviewer,** Substance Abuse Policy Research Program (SAPRP), a National Program supported by the Robert Wood Johnson Foundation with direction and assistance provided by the Center for Creative Leadership, Greensboro, NC (2000 to 2009).  
**Reviewer for Faculty Promotions**  
 University of South Carolina (2011).  
 University of California at Los Angeles (2010).  
 Johns Hopkins University (2009).  
 University of Medicine & Dentistry of New Jersey (2008).  
**Ad hoc Grant Reviewer,** ClearWay Minnesota, Tobacco control grants, Minneapolis, MN (September 2007).  
**Ad hoc Grant Reviewer,** Cancer Prevention and Control Section, Pennsylvania Department of Health, — Review Panel on *Pennsylvania Cancer Education Network* applications (December, 2005).  
**Ad hoc Grant Reviewer,** National Institutes of Health — Review Panel on *Social and Behavioral Sciences – Small Business Innovations in Research (SBIR) Grants* (July, 2003; July, 2002; March, 2000; September,

## Curriculum Vitae

# Kurt M. Ribisl, Ph.D.

Department of Health Behavior  
UNC Gillings School of Global Public Health  
University of North Carolina at Chapel Hill  
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## RESEARCH INTERESTS

- Tobacco control policy and tobacco product regulation
- Point-of-sale cigarette advertising and marketing
- Role of the Internet in promoting and discouraging tobacco use
- Innovative applications of information technology for promoting healthy behaviors
- Using regulation to reduce tobacco-related health disparities
- Development and evaluation of community-based cancer prevention and control interventions

## EDUCATION

- |                                |      |  |
|--------------------------------|------|--|
| <b>Postdoctoral Fellowship</b> | 1997 | <b>Stanford Center for Research in Disease Prevention</b> ,<br>Stanford University School of Medicine, Palo Alto, CA<br><i>Concentration:</i> Cardiovascular disease epidemiology and prevention |
| <b>Ph.D.</b>                   | 1995 | <b>Michigan State University</b> , East Lansing, MI<br><i>Department:</i> Ecological-Community Psychology<br><i>Cognate:</i> Health Studies and Public Health                                    |
| <b>M.A.</b>                    | 1992 | <b>Michigan State University</b> , East Lansing, MI<br><i>Department:</i> Ecological-Community Psychology  |
| <b>B.A.</b>                    | 1989 | <b>Wake Forest University</b> , Winston-Salem, NC<br><i>Major:</i> Psychology; Honors in Psychology  |

## PROFESSIONAL EXPERIENCE

- |                 |   |
|-----------------|---|
| 2012 to present | <b>Professor</b> , Department of Health Behavior, UNC Gillings School of Global Public Health, University of North Carolina at Chapel Hill. |
| 2012 to present | <b>Program Leader</b> , Cancer Prevention and Control, UNC Lineberger Comprehensive Center, UNC-CH School of Medicine.                      |
| 2012 to present | <b>Chair, Board of Directors and Co-Founder (Executive Director 2012-2015)</b> , Counter Tools, 501c3 nonprofit, Carrboro, NC.              |
| 2013 to present | <b>Director</b> , UNC Center for Regulatory Research on Tobacco Communication.  |
| 2012 to 2016    | <b>Member</b> , Tobacco Products Scientific Advisory Committee, Center for Tobacco Products, US Food and Drug Administration.               |

- Member, Search Committee** – Faculty intervention researcher search. Lineberger Comprehensive Cancer Center. (2011 to 2012).
- Member, Search Committee** – Associate Vice Chancellor for Research (2010 to 2012).
- Member, Steering Committee.** UNC Center for Health Promotion and Disease Prevention (2008 to 2012).
- Member, Steering Committee on the Interdisciplinary Health Communication Certificate & School of Public Health Representative,** UNC-CH (2006 to 2011).
- Member, Search Committee** – Dean, School of Journalism and Mass Communication (2010 to 2011).
- Member, Search Committee,** health communication faculty member, UNC Lineberger Comprehensive Cancer Center (2008 to 2010).
- Member, Subcommittee on the Future of Tenure.** UNC-CH (2009).
- Advisory Committee to the Senior Director and Associate Vice Chancellor for Research,** UNC Office of Sponsored Research, (2008 to 2009; 2002 to 2006).
- Advisor, Humphreys Fellowship Program,** Bakari Ally (Tanzania), UNC-CH (2007 to 2008).
- Member, External program review team for the UNC School of Journalism and Mass Communication,** UNC Graduate School (2006).
- Member, Boka Hadzija Graduate Student Award Selection Committee -** UNC Graduate School (Spring 2006).
- Member, Search Committee** — Deputy Director of Operations, UNC Center for Health Promotion and Disease Prevention (2006).
- Advisory Committee,** Carolina Collaborative for Health Informatics, (Spring 2003 to 2005).
- Member, Search Committee -** Director of Pre-Award Services, UNC Office of Sponsored Research, (Fall 2004-2005).
- Member, Search Committee -** Associate Vice Chancellor for Research, UNC Office of Sponsored Research, (2003).
- Advisory Committee,** UNC Health Sciences Library and the UNC School of Information and Library Science, “Public Access to North Carolina Health Information Online” - funded by the National Network of Libraries of Medicine, Southeastern Atlantic Region (<http://www.nchealthinfo.org/board.cfm>) (Fall 2000-2005).

## SERVICE - EXTERNAL

- Co-chair,** The PhenX Toolkit
- President,** Westside Neighborhood Association. Chapel Hill, NC (2009 to present).
- Member,** preservation subcommittee, Preservation Chapel Hill (2013 to present)

### *Reviewer of Research and Grant Applications*

#### Current

- Grant reviewer,** University of Southern California Tobacco Center of Regulatory Science (2016-present)

#### Completed

- Co-Chair,** Tobacco Regulatory Research Vector Working Group (2014-2015).
- Grant Reviewer,** Substance Abuse Policy Research Program (SAPRP), a National Program supported by the Robert Wood Johnson Foundation with direction and assistance provided by the Center for Creative Leadership, Greensboro, NC (2000 to 2009).
- Reviewer for Faculty Promotions**
- Mayo Clinic (2014)
  - University of South Carolina (2011).
  - University of California at Los Angeles (2010).
  - Johns Hopkins University (2009).
  - University of Medicine & Dentistry of New Jersey (2008).
- Ad hoc Grant Reviewer,** ClearWay Minnesota, Tobacco control grants, Minneapolis, MN (September 2007).
- Ad hoc Grant Reviewer,** Cancer Prevention and Control Section, Pennsylvania Department of Health, — Review Panel on *Pennsylvania Cancer Education Network* applications (December, 2005).

## EDGAR K. MARCUSE, M.D., M.P.H.

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**CURRENT POSITIONS**

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Associate Medical Director (QI) – Seattle Children’s Hospital, Seattle, Washington  
 Professor of Pediatrics – School of Medicine, University of Washington, Seattle, WA  
 Adjunct Professor of Epidemiology – School of Public Health and Community Medicine, University of Washington

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**PERSONAL DATA**

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Birthdate: -b(6)-  
 Birthplace: ----b(6)-----  
 Citizenship: --b(6)---  
 Married: -----b(6)-----  
 Children: ---b(6)-----  
 Business Address: Seattle Children’s Hospital  
 4800 Sand Point Way N.E., T-0111  
 P.O. Box 5371  
 Seattle, Washington 98105-0371  
 Telephone: (206) 987-2026  
 Fax: (206) 987-5105  
 E-mail address: ekmarcuse@aap.net

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**EDUCATION**

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<b>Undergraduate:</b>	Oberlin College Oberlin, Ohio A.B., 1962	1958 - 1962
<b>Graduate:</b>	Stanford University School of Medicine, Stanford, CA M.D., 1967	1962 - 1967
	University of Washington, School of Public Health and Community Medicine, Seattle, WA	1972 - 1973
	M.P.H.,	1973

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**POSTGRADUATE TRAINING**

---

<b>Internship, Pediatrics:</b>	Children’s Hospital Medical Center, Boston, MA	1967 - 1968
<b>Residency, Pediatrics:</b>	Children’s Hospital Medical Center, Boston, MA	1968 - 1969
	University of Washington Hospital and Children’s Hospital and Medical Center, Seattle, WA	1971 - 1972
<b>Fellowship:</b>	Department of Epidemiology, School of Public Health and Community Medicine University of Washington, Seattle, WA	1972 - 1973
<b>Uniformed Service:</b>	Epidemic Intelligence Service Officer Centers for Disease Control, USPHS	1969 - 1971
	Medical Epidemiologist Division of Social and Health Services State of Washington, Olympia, WA	1969 - 1971

## EDGAR K. MARCUSE, M.D., M.P.H.

**Special Local Responsibilities, continued**

Hospital Steering Committee	1993 -
Chair, Planning Group	1994 - 1998
CHMC Physician Hospital Organization, Board	1995 - 1998
Quality Improvement Steering Committee	1998 -
Information Technology Strategic Planning Committee	2000 - 2005
Children's University Medical Group:	
Secretary	1986 - 1992
CUMG/AUP Retirement Committee	1991 - 1992
University of Washington School of Medicine, Department of Pediatrics:	
Residency Committee	1976 - 1990
Clinical Faculty Appointment and Promotions Committee	1976 - 2000
WWAMI Visiting Professor	1986, 1987, 1995, 1996, 2000
Quality and Performance Improvement Committee	1997 - 1999
Council on University Relations	2009 - 2010
University of Washington Health Sciences:	
Risk Management Education Advisory Committee	2003 - 2005
University of Washington School of Public Health and Community Medicine:	
Maternal/Child Health Program Advisory Committee	1985 - 1995
Newborn Eye Prophylaxis Study Data & Safety Monitoring Committee	1986 - 1991
Study of Neurologic Illness in Children Technical Advisory Panel	1987 - 1990
University of Washington:	
CDMRC Review Committee	1984 - 1985
CDMRC Director Search Committee: ---b(6)-----	1986
CHDD (CDMRC) Advisory Board	1987 - 1997
Faculty Senate	2009
Senate Chairman's Cabinet	2009 - 2010
Group Health Cooperative:	
Consultant, Multicenter Data Collection – Immunization and Adverse Events	1990 - 1993
Consultant, Immunization Advisory Committee	1994 - 2001
Co-Investigator, Vaccine Safety Datalink (with R. Davis et al)	1996
Post-Licensing DTaP Adverse Event Surveillance (with ---b(6)-----)	1997 - 2000
<b>Community Responsibilities:</b>	
Seattle Academy of Arts and Sciences	
Trustee	1986 - 1992
Chair, Education Committee	1987 - 1991
Nesholm Family Foundation	
Trustee	1987 -
Treasurer	1987 -
---b(6)-----	1986 - 1994
---b(6)-----	1991 - 2000
Chair, Combined Immunization Advisory Group: I3, Robert Wood Johnson, Seattle, King County, Snohomish, WA State Health Depts.	1992 - 1999
---b(6)-----	1993 - 1998
---b(6)-----	1994 - 1999
Washington State Department of Health Vaccine Advisory Committee	
Member	1995 - 1999
Consultant	2000 -

EDGAR K. MARCUSE, M.D., M.P.H.

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**CURRENT POSITIONS**

---

Medical Director for QI – Seattle Children’s Hospital, Seattle, Washington  
Professor of Pediatrics – School of Medicine, University of Washington, Seattle, WA  
Adjunct Professor of Epidemiology – School of Public Health, University of Washington

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**PERSONAL DATA**

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Birthdate: 1940  
Birthplace: New York, New York  
Citizenship: U.S.A.  
Married: Linda Mickelson, 1963 (School Psychologist)  
Children: Andrew, 1968; Nicholas, 1972  
Business Address: Seattle Children’s Hospital  
4800 Sand Point Way N.E., RB.2.419  
P.O. Box 5371  
Seattle, Washington 98105-0371  
Telephone: (206) 987-2026  
Fax: (206) 987-5022  
E-mail address: ekmarcuse@aap.net

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**EDUCATION**

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<b>Undergraduate:</b>	Oberlin College Oberlin, Ohio A.B., 1962	1958 - 1962
<b>Graduate:</b>	Stanford University School of Medicine, Stanford, CA M.D., 1967	1962 - 1967
	University of Washington, School of Public Health and Community Medicine, Seattle, WA M.P.H., 1973	1972 - 1973

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**POSTGRADUATE TRAINING**

---

<b>Internship, Pediatrics:</b>	Children's Hospital Medical Center, Boston, MA	1967 - 1968
<b>Residency, Pediatrics:</b>	Children's Hospital Medical Center, Boston, MA University of Washington Hospital and Children's Hospital and Medical Center, Seattle, WA	1968 - 1969 1971 - 1972
<b>Fellowship:</b>	Department of Epidemiology, School of Public Health and Community Medicine University of Washington, Seattle, WA	1972 - 1973
<b>Uniformed Service:</b>	Epidemic Intelligence Service Officer Centers for Disease Control, USPHS	1969 - 1971
	Medical Epidemiologist Division of Social and Health Services State of Washington, Olympia, WA	1969 - 1971

## EDGAR K. MARCUSE, M.D., M.P.H.

**Special Local Responsibilities, continued**

Medical Executive Committee	1979 -
Professional Fee Management Committee	1980 - 1990
Chair	1985 - 1990
Strategic Planning Committee	1982 - 1986
UW/CHMC Affiliation Committee	1983 - 1990
Uncompensated Care Committee	1986 - 1989
Chair	1986 - 1988
Quality Assurance Committee	1989 - 1997
Utilization Review Committee	1990 - 1991
Hospital Steering Committee	1993 -
Chair, Planning Group	1994 - 1998
CHMC Physician Hospital Organization, Board	1995 - 1998
Quality Improvement Steering Committee	1998 -
Information Technology Strategic Planning Committee	2000 - 2005
Board of Trustees Quality & Safety Committee	2005 -
Children's University Medical Group:	
Secretary	1986 - 1992
CUMG/AUP Retirement Committee	1991 - 1992
University of Washington School of Medicine, Department of Pediatrics:	
Residency Committee	1976 - 1990
Clinical Faculty Appointment and Promotions Committee	1976 - 2000
WWAMI Visiting Professor	1986, 1987, 1995, 1996, 2000
Quality and Performance Improvement Committee	1997 - 1999
Council on University Relations	2009 - 2010
University of Washington Health Sciences:	
Risk Management Education Advisory Committee	2003 - 2005
University of Washington School of Public Health and Community Medicine:	
Maternal/Child Health Program Advisory Committee	1985 - 1995
Newborn Eye Prophylaxis Study Data & Safety Monitoring Committee	1986 - 1991
Study of Neurologic Illness in Children Technical Advisory Panel	1987 - 1990
University of Washington:	
CDMRC Review Committee	1984 - 1985
CDMRC Director Search Committee: Michael Guralnik	1986
CHDD (CDMRC) Advisory Board	1987 - 1997
Faculty Senate	2009 - 2012
Senate Chairman's Cabinet	2009 - 2010
Group Health Cooperative:	
Consultant, Multicenter Data Collection – Immunization and Adverse Events	1990 - 1993
Consultant, Immunization Advisory Committee	1994 - 2001
Co-Investigator, Vaccine Safety Datalink (with R. Davis et al)	1996
Post-Licensing DTaP Adverse Event Surveillance (with L. Jackson et al)	1997 - 2000
<b>Community Responsibilities:</b>	
Seattle Academy of Arts and Sciences	
Trustee	1986 - 1992
Chair, Education Committee	1987 - 1991
Nesholm Family Foundation	
Trustee	1987 -
Treasurer	1987 -



## EDGAR K. MARCUSE, M.D., M.P.H.

**Community Responsibilities, *continued***

The Little School, Pediatric Consultant	1986 - 1994
Seattle Junior League, Community Advisor	1991 - 2000
Chair, Combined Immunization Advisory Group: I3, Robert Wood Johnson, Seattle, King County, Snohomish, WA State Health Depts.	1992 - 1999
KidStar Radio, Advisory Board	1993 - 1998
Children's Museum, Honorary Advisory Board	1994 - 1999
Washington State Department of Health Vaccine Advisory Committee	
Member	1995 - 1999
Consultant	2000 -
Washington State Children's Justice Center	
Founding Board Member, Secretary	1996 - 1999
Seattle Children's Home: Board Member	1999 - 2001
Chair, Medical Advisory Committee	1999 - 2001
Washington Vaccine Association	
Board member	2010 -
Chair, Vaccine Working Group	2010 -
VAX Northwest, Steering Committee	2010 -
Public Health – Seattle & King County: Communities Putting Prevention to Work, Leadership Team	2010 - 2011

**RESEARCH FUNDING**

Group Health Research Institute: Evaluation of provider vaccine hesitancy intervention; 5%	2011 -
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**BIBLIOGRAPHY****Manuscripts in Refereed Journals:**

1. Lovejoy FH, **Marcuse EK**, Landrigan PJ. Two examples of *purpura factitia*. *Clinical Pediatrics* 1971;3:183-184
2. **Marcuse EK**, Peterson DR, Thompson RS, et al. Retrospective survey of congenital rubella syndrome in the State of Washington, 1963-1968. *HSMHA Health Reports* 1971;86:161-167
3. **Marcuse EK**, Grand MG. Epidemiology of diphtheria in San Antonio, Texas, 1970. *JAMA* 1973;224:305-310
4. Hattwick MA, **Marcuse EK**, Britt MR, et al. Skunk rabies: the risk to man. *Am J Public Health* 1973;63:1080-1085
5. **Marcuse EK**. Pediatrician's immunization consent practice, Washington State. *Pediatrics* 1979;63:419
6. Brender JW, **Marcuse EK**, Weiss NS, Koepsell TD. Is childhood appendicitis familial? *Am J Dis Child* 1985;139:338-340
7. Brender JW, Weiss NS, Koepsell TD, **Marcuse EK**. Fiber intake and childhood appendicitis. *Am J Public Health* 1985;75:399-400
8. Kastner L, **Marcuse EK**, McGuire T, Rothenberg MB. A method for the teaching of interviewing skills. *Am J Dis Child* 1985;139:899-902
9. Brender JW, **Marcuse EK**, Koepsell TD, Hatch EI. Childhood appendicitis: factors associated with perforation. *Pediatrics* 1985;76:301-306
10. Quan L, **Marcuse EK**. The epidemiology and treatment of radial head subluxation. *Am J Dis Child* 1985;139:1194-1197
11. Ramsey BW, **Marcuse EK**, Brewer D, Foy H, Cooney M, Smith A. Use of bacterial antigen detection in the diagnosis of pediatric lower respiratory tract infections. *Pediatrics* 1986;78:1-9
12. Holt V, **Marcuse EK**, Coombs J. Pediatrician's immunization consent practices in Washington State. *Am J Dis Child* 1987;141:734-735