

Patrick Hanaway, M.D.

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Patrick Hanaway, M.D., is a board-certified family physician. He has spoken internationally on the subjects of nutrition, endocrinology, gastrointestinal health, and women's health in over 80 CME accredited clinician workshops. Recent presentations include the Georgia Academy of Family Physicians, the Institute for Functional Medicine, Johns Hopkins School of Medicine, and Harvard Medical School. As Chief Medical Officer for Genova Diagnostics, Dr. Hanaway concentrates on the clinical application of nutritional biochemistry, with an emphasis on digestive disease and wellness. Also in that capacity, he provides medical consultations for physicians and oversees the company's clinical research activities and health education program.

Dr. Hanaway is a member of the American Academy of Family Physicians, a member of the American Gastroenterology Association, President of the American Board of Holistic Medicine and member of the Editorial Board for Integrative Medicine: A Clinician's Journal. He is a graduate of the University of Wisconsin and earned his Doctorate of Medicine from Washington University School of Medicine.

Employment

- GENOVA DIAGNOSTICS 2002-present Chief Medical Officer, Vice President - 1st corporate Medical Director, including oversight of product development, clinical education, and extramural research for Genova Diagnostics.
- FAMILY TO FAMILY: Your Home for Whole Family Health 1999-present Owner & Founder - Established an integrative healing practice delivering holistic primary care and family medicine in Asheville, NC.
- Hugh Chatham HealthCare System 1997-1999 Director, AIM for Health - Research, develop and implement a model program in a rural hospital to increase options for persons seeking greater involvement in their own health care and to help health professionals to integrate self-management options into traditional medical care services.
- Help ER, P.A. 1996-1999
- President - Operate Emergency Room staffing company to contract with rural hospitals to provide physician services on a locum-tenens basis. Mountain Area Health Education Center
- 1996-1997 Clinical Faculty, MAHEC Family Medicine Residency - Taught family medicine residents through consultation, on a part-time basis.
- University of New Mexico, Department of Family Medicine 1994-1996 Medical Director, Mountainair Clinic -Developed comprehensive outpatient clinic to serve the residents of Southern Tarrant County. Faculty member at UNM teaching medical students and residents about rural practice. Worked with local and state EMS to develop a model for primary care outreach, based on work in rural Alaska.
- Yukon-Kuskokwim Health Corporation 1992-1994 Family Practitioner -Full scope family practice with inpatient and outpatient responsibilities including: Inpatient Care, Emergency Medicine, Obstetrics, Pediatrics, and Orthopedics. Director of the Maternal Child Health Program. Worked closely with the Community Health Aide Program to deliver primary care services and introduce tele-medicine to underserved villages in rural Alaska.
- Indian Health Service, Albuquerque Service Unit 1991-1992 General Medical Officer - Worked at Albuquerque Indian Hospital and Pueblo clinics as family doctor, delivering inpatient and outpatient services, including prenatal care to Native American people.
- University of New Mexico, Department of Family Medicine 1988-1991 House Officer - Residency with emphasis in maternal and child health care, including: birthing, breastfeeding, and child development.

- Missouri Department of Health 1987-1988
- Public Health Advisor - Coordinated health departments and community agencies to integrate MCH services in metropolitan St. Louis; primary emphasis on developing tools for community conflict resolution.
University of Colorado Health Sciences Center
- 1982-1983
- Research Assistant - Pharmacology Department aide performing research and data analysis on binding affinity of Insulin receptors with the central nervous system under varying physiological parameters.

Education

- Washington University School of Medicine 1983-1987 Doctorate of Medicine. May, 1987. Founding Member, 'Health Care Is a Human Right' Coalition. Participant, AMSA Health Promotion/Disease Prevention Project. Creator, Lunch and Learn Nutrition Seminar Series. Laboratory Technician, Lipid Research Center.
- University of Wisconsin, Madison 1978-1981 Bachelor of Science, Molecular Biology. December, 1981. Laboratory Researcher, Muscle Biology Laboratory.

Publications

- Zahniser NR, Hanaway PJ. Characterization and Regulation of Insulin receptors In Rat Brain. *J Neurochem.* 1984;42:1354-1362.
- Turner RC, Hanaway PJ. Iodination of myofibrils and myosin. *Journal of Muscle Research and Cell Motility.* 1984;5:665-676.
- The Corporatization of American Medicine: Report of the AMSA Study Group on For-Profit Health Care. Patrick Hanaway, Editor. AMSA Publications. Reston, VA. May, 1986.
- Hanaway PJ, Westpheling K. Medical Students Promoting Prevention: The AMSA Health Promotion/ Disease Prevention Project. *Perspectives in Prevention.* 1988;3:13-16.
- The Privatization of Public Health in St. Louis. *St. Louis Journalism Review.* January, 1988. 12 (1): 8-11.
- Murphy NJ, Murphy CM, Lukey F, Hanaway PJ, Tan JH. Antenatal diagnosis of a fetal sacral mass containing a pelvis and limb bones. *J Am Board Fam Pract.* 1995;8:491-3.
- Vaccination: Searching for Middle Ground. *New Life Journal.* 2002. 2(3): 8-10.
- Hanaway P. Irritable Bowel Syndrome: An Integrated Approach to "Gut Feelings". *Integrative Medicine: A Clinicians Journal.* 2004;:16-21.
- Stevens T, Conwell D, Zuccaro G, Van Lente F, Khandwala F, Hanaway P, Vargo JJ, Dumot JA. Analysis of pancreatic elastase-1 concentrations in duodenal aspirates from healthy subjects and patients with chronic pancreatitis. *Dig Dis Sci.* 2004;49:1405-1411.
- Hanaway P, Roseth A. Inflammatory Biomarkers Predict Relapse in IBD. *Gut.* 2005;54:1346-1347.
- "Preventive Genomics, Nutrigenomics, and the Promise of Personalized Medicine" with MC Culp; *Textbook of Natural Medicine, 3rd Edition.* Pizzorno JE, Murray MT (Eds). New York: Churchill Livingstone, 2005.
- "Testing for Nutritional and Digestive Status" in *Complementary Medicine in Clinical Practice.* Rakel DP, Faass N (Eds). Sudbury, MA: Jones & Bartlett, 2006.
- "Environmental Inputs - MicroOrganisms" in *Textbook of Functional Medicine.* Jones DS (Ed). Gig Harbor, WA: Institute for Functional Medicine, 2006.
- "Balance of Flora, GALT, and Mucosal Integrity" in *Textbook of Functional Medicine.* Jones DS (Ed). Gig Harbor, WA: Institute for Functional Medicine, 2006.

- D'Haens GR, Baert F, Norman M, et al. Fecal Calprotectin is a Reliable Surrogate Marker for Endoscopic Activity in Crohn's Disease. *Gastroenterology*. 2006;130(S2):A-212.
- Palmon R, Brown S, Ullman T, Hanaway P, Mayer, L. Calprotectin and Lactoferrin Decrease with maintenance Infliximab Administration in Luminal Crohn's Disease. *Gastroenterology*. 2006; 130 (S2): A-212.
- Hanaway P. Ask the experts. *Explore (NY)*. 2006;2:284.
- Hanaway P. Balance of Flora, GALT, and Mucosal Integrity. *Altern Ther Health Med*. 2006;12:52-60.
- "Irritable Bowel Syndrome" in *Textbook of Integrative Medicine*, Rakel DP (Ed). Philadelphia, PA: WB Saunders, 2007.
- D'Haens GR, Baert F, Verriere S, et al. "Mucosal Inflammation in Inflammatory Bowel Disease Can Reliably Be Predicted with the Fecal Calprotectin Test." *Gastroenterology*. 2007;132(S2):A-154.
- "Probiotics in Children." Benjamin Kliger, MD, MPH, Patrick Hanaway, MD, Andreas Cohrsen, MD, in *Pediatric Clinical North America* 2007 Dec;54(6):94967; xi.,
- "Fecal Calprotectin is useful in predicting disease relapse in pediatric inflammatory bowel disease." Dorota Walkiewicz, MD , Steven L. Werlin, MD , Daryl Fish, MD , Mathew Scanlon, MD , Patrick Hanaway, MD , Subra Kugathasan, MD, in *Complementary Medicine in Clinical Practice*. 2006 May;14(5):66973
- "Testing for Nutritional and Digestive Status." Patrick Hanaway, MD, in *Complementary Medicine in Clinical Practice*. 2006: 85-88
- Presentations "Primary Prevention in Community Health Centers: The AMSA HP/DP Project." National Association of Community Health Centers Annual Meeting. New Orleans, LA. 9/15/87.
- "Innovations in Medical Education: The Role of the Community Health Center." National Association of Community Health Centers Annual Meeting. Miami, FL. 9/21/89.
- "Community-Based Medical Education: The University of New Mexico Experience." Conference on Community Responsive Practice. Washington, D.C. 3/22/90.
- "AIM for Health - Alternative & Integrative Medicine." Jefferson County Medical Society. Roaring Gap, NC. 2/19/99.
- "Integrative Medicine: Combining Wisdom and Compassion." Keynote Speech, North Carolina Chapter National Association of Social Workers; Asheville, NC., 11/18/1999.
- "Synergy: The Whole Is Greater Than the Sum of the Parts." Grace Health Care System Wellness Conference; Morganton, NC. 8/9/2001.
- "From Fatigued to Fantastic." Achieving Clinical Excellence [ACE] Seminar Series. Detroit, MI; Dallas, TX. November, 2001.
- "Genomics In Primary Care." Achieving Clinical Excellence [ACE] Seminar Series. Asheville, NC; Phoenix, AZ; Los Angeles, CA; Denver, CO; Orlando, FL; Atlanta, GA; Westport, CN. March - June, 2002.
- "Functional Laboratory Testing." 3rd Annual American Board of Holistic Medicine Review Course. Denver, CO. November 19, 2002.
- "Cancer and Detoxification Defects." The Center for Mind-Body Medicine Comprehensive Cancer Care Conference. Washington, DC. April 10, 2003.
- "Functional Laboratory Testing." 4th Annual American Board of Holistic Medicine Review Course. Denver, CO. October 13, 2003.
- "Optimizing Gut Function: Improving Diagnostic and Therapeutic Decisions in Common GI Complaints" Achieving Clinical Excellence [ACE] Seminar Series. Asheville, NC; Orlando, FL; Atlanta, GA; Los Angeles, CA; Seattle, WA; Denver, CO; Dallas, TX; Toronto, CAN; Chicago, IL; Boston, MA; Washington, DC. March - April, 2004.
- "Irritable Bowel Syndrome: An Integrated Approach." Integrative Medicine Symposium. Miami, FL April 2, 2004.

- "Functional Laboratory Testing." American Holistic Medical Association 26th Annual Conference. Albuquerque, NM. May 1, 2004.
- "Preventive Genomics in Clinical Practice." Clinical Nutrition Certification Board, Diplomate in Advanced Nutritional Laboratory Assessment (DANLA). Atlanta, GA. June 12, 2004.
- "Native American Healing." 5th Annual American Board of Holistic Medicine Review Course. Los Angeles, CA. October 18, 2004.
- "Functional Laboratory Testing." 5th Annual American Board of Holistic Medicine Review Course. Los Angeles, CA. October 19, 2004.
- "Holistic Medical Therapy for Gastrointestinal Disorders." 5th Annual American Board of Holistic Medicine Review Course. Los Angeles, CA. October 20, 2004.
- "Personalized Approach to Inflammation." Medical Spa Conference & Expo. Indian Wells, CA. December 6, 2004.
- "Irritable Bowel Syndrome: An Integrated Approach." InnoVision's CAM Expo Pre-Conference. New York, NY. February 11, 2005.
- "Fire Fighting on the Frontline: Inflammation & the Immune System." CAM Expo. New York, NY. February 12, 2005.
- "Autism and the Gut: Going to the Source." DAN! Conference. Boston, MA. April 15, 2005.
- "Preventive Genomics in Clinical Practice." Clinical Nutrition Certification Board, DANLA. Phoenix, AZ. April 22, 2005.
- "Functional GI Testing." Clinical Nutrition Certification Board, DANLA. Phoenix, AZ. April 22, 2005.
- "Personalized Approach to HRT." Medical Spa Conference. Las Vegas, NV. April 29, 2005.
- "Fire Fighting on the Frontline: Inflammation & the Immune System." CAM Expo West. Los Angeles, CA. October 8, 2005.
- "Native American Healing." 6th Annual American Board of Holistic Medicine Review Course. Austin, TX. October 16, 2005.
- "Functional Laboratory Testing." 6th Annual American Board of Holistic Medicine Review Course. Austin, TX. October 17, 2005.
- "Integrative Holistic Medical Therapy for Gastrointestinal Disorders." 6th Annual American Board of Holistic Medicine Review Course. Austin, TX. October 19, 2005.
- "Autism and the Gut: Going to the Source." DAN! Conference. Long Beach, CA. October 28, 2005.
- "Introduction to Functional Medicine." InnoVision's CAM Expo. New York, NY. March 3, 2006.
- "The [Oxidative] Stress of Life." InnoVision's CAM Expo. New York, NY. March 5, 2006.
- "Estrogen Metabolism, Genomics, and HRT" PCCA International Symposium. Houston, TX. March 9, 2006.
- "IBS: An Integrative Approach." Family Medicine Grand Rounds. Florida Hospital East. Orlando, FL. April 3, 2006.
- "Functional Medicine and the GUT." Fellowship of Anti-Aging & Functional Medicine, Module 3. Orlando, FL. April 4, 2006.
- "Autism and the Gut: Going to the Source." DAN! Conference. Washington, DC. April 7, 2006.
- "Functional Nutritional Testing." ACAM Spring Conference. Dallas, TX. May 6, 2006.
- "Laboratory Assessment Options." CMBM's Food as Medicine. Baltimore, MD. June 13, 2006.
- "Estrogen Metabolism & HRT." Fellowship of Anti-Aging & Functional Medicine. Module 1. Chicago, IL. July 17, 2006

- "Mind the GUT: GI Dysfunction in Autism." DAN! Conference. Seattle, WA. October 6, 2006.
- "Preparing for Life: Nutritional Needs in Infancy." True North Conference. Portland, ME. October 12, 2006.
- "Nutritional Evaluation: What Vitamin Should I Take?" True North Conference. Portland, ME. October 13, 2006.
- "Introduction to Autism Spectrum Disorders." Fellowship of Anti-Aging & Functional Medicine. Module 4. October 14, 2006.
- "Native American Healing." 7th Annual American Board of Holistic Medicine Review Course. San Diego, CA. October 29, 2006.
- "Functional Laboratory Testing." 7th Annual American Board of Holistic Medicine Review Course. San Diego, CA. October 30, 2006.
- "Integrative Holistic Medical Therapy for Gastrointestinal Disorders." 7th Annual American Board of Holistic Medicine Review Course. San Diego, CA. October 31, 2006.
- "Estrogen Metabolism & HRT." Fellowship of Anti-Aging & Functional Medicine. Module 1. Las Vegas, NV. December 6, 2006
- "EstroGenomics & Hormone Replacement Therapy." 14th Annual American Academy of Anti-Aging Medicine Conference. Las Vegas, NV. December 9th, 2006.
- "The Gastrointestinal System: A Functional Approach to Clinical Practice." Institute for Functional Medicine's Applying Functional Medicine in Clinical Practice. Pasadena, CA. February 5, 2007.
- "NutriGenomics and PharmacoGenomics in Clinical Practice." Society for Orthomolecular Health and Medicine. San Francisco, CA. February 25, 2007.
- "GUT Function: Anatomy and Physiology." Institute for Functional Medicine Fellowship @ Sanoviv Hospital. Rosario, MX. March 17, 2007.
- "Mind the GUT: GI Dysfunction in Autism." DAN! Conference. Alexandria, VA. April 20, 2007.
- "Functional Medicine and the GUT." Fellowship of Anti-Aging & Functional Medicine, Module 3. Orlando, FL. April 23, 2007.
- "Hormone Essentials: Personalizing Hormone Assessment." 15h Annual American Academy of Anti-Aging Medicine Conference. Orlando, FL. April 25, 2007.
- "Hormone Essentials: The Whole Picture." 15h Annual American Academy of Anti-Aging Medicine Conference. Orlando, FL. April 27, 2007.
- "Achieving Clinical Excellence: Diagnostic Tools in Digestive Health." Individual Well-Being Diagnostic Laboratory. London, England, UK. May 16, 2007.
- "Functional Lab Assessment of Autism." DAN! Europe: Autism and Our Future. Rome, Italy. May 19, 2007.
- "Optimizing GUT Function: IBS and Beyond." 30th Annual American Holistic Medical Association Conference. Portland, OR. June 7, 2007.
- "Balance of Flora, GALT, and Mucosal Integrity." Johns Hopkins School of Medicine 3rd Annual 'Current Concepts in Complementary and Alternative Medicine: Evidence-Based Medicine.' Baltimore, MD. June 21, 2007.
- "Laboratory Assays for Vitamins and other measures." Johns Hopkins School of Medicine 3rd Annual 'Current Concepts in Complementary and Alternative Medicine: Evidence-Based Medicine.' Baltimore, MD. June 22, 2007.
- "Estrogen Metabolism & HRT." Fellowship of Anti-Aging & Functional Medicine. Module 1. Chicago, IL. July 31, 2007
- "Doctor, What Vitamins Should I Take?" California Association of Osteopathic Family Physicians Annual Meeting. Anaheim, CA. August 1, 2007
- "Mind the GUT: GI Dysfunction in Autism" DAN! Think Tank. Anaheim, CA. October 11, 2007
- "Functional Medicine in Pediatrics." PANGEA, San Francisco, CA. October 24, 2007
- "Functional Medicine and the GUT " Science and Clinical Application of Integrative Holistic Medicine, October 27, 2007

- "GUT Function: Anatomy and Physiology." Applying Functional Medicine in Clinical Practice, November 26, 2007
- " "Boulder FM, December, 4 2007
- "Which Hormones? Seeing the Whole Picture." Fellowship of Anti-Aging & Functional Medicine. Las Vegas, Nevada, December 11, 2007
- "Physiology of Hormones." Fellowship of Anti-Aging & Functional Medicine. Las Vegas, Nevada, December 11, 2007
- "The Symphony of Hormones." Fellowship of Anti-Aging & Functional Medicine. Las Vegas, Nevada, December 11, 2007
- "The Whole is Greater than the Sum of the Parts." Fellowship of Anti-Aging & Functional Medicine. Las Vegas, Nevada, December 11, 2007
- "Hormone Essentials: Personalizing Hormone Assessment." Nardella, Calgary, Canada, February 13, 2009
- "When in doubt, start with the gut!" AFMCP, Pasadena, CA February 17, 2009
- "Adrenal Hormones." Duke Medical Center for Integrative Medicine, Durham, NC February 28, 2009
- "Functional Medicine: The Basics" Fellowship of Anti-Aging & Functional Medicine. Module II. San Diego, CA March 28, 2008
- "Functional Nutrition Evaluation: Understanding your patient's supplement needs." ACA Council on Nutrition, San Francisco, CA, April 10, 2008
- "Gut & Immunology with Bob Roundtree." MD, ACA Council on Nutrition, San Francisco, CA, April 10, 2008
- "Cardiogenomics: Balancing Genes & Environment." American College for Advancement in Medicine, Orlando, FL, April 12, 2008
- "When in doubt, start with the gut!" Fellowship of Anti-Aging & Functional Medicine. Module III. Orlando, FL, April 24, 2008
- "Hormone Essentials: The Symphony of Hormones." The American Academy of Anti-Aging Medicine, Session 3, Orlando FL, April 25, 2008
- "Laboratory Assessment," Food as Medicine. Baltimore, MD, June 14 2008
- "Using Pharmacogenomics in Pain Management: Ready for Prime Time?" International Symposium of Functional Medicine, Carlsbad, CA, May 23, 2008
- "Estrogen Metabolism," Fellowship of Anti-Aging & Functional Medicine. Washington, DC, July 16 2008
- "Hormone Essentials," Fellowship of Anti-Aging & Functional Medicine. Washington, DC, July 16 2008
- "Which Hormones? Seeing the Whole Picture." European Congress on Anti-Aging & Aesthetic Medicine. Dusseldorf, Germany, September 11, 2008
- "Physiology of Hormones." European Congress on Anti-Aging & Aesthetic Medicine, Dusseldorf, Germany, September 11, 2008
- "The Symphony of Hormones." European Congress on Anti-Aging & Aesthetic Medicine. Dusseldorf, Germany, September 11, 2008
- "The Whole is Greater than the Sum of the Parts." European Congress on Anti-Aging & Aesthetic Medicine. Dusseldorf, Germany, September 11, 2008
- "The Challenged Brain: Using Biomarkers to understand and treat autistic spectrum Disorders." True North Health Center. Dusseldorf, Germany, October 16, 2008
- "Optimizing Nutrition to Optimize Health." Georgia Academy of Family Physicians, 60th Annual Scientific Assembly. Atlanta, GA November 17, 2008
- "Estrogen Metabolism." Fellowship of Anti-Aging & Functional Medicine. Module Las Vegas, NV, December 10, 2008
- "Hormone Essentials: Personalizing Diagnosis and Treatment." Fellowship of Anti-Aging & Functional Medicine. Module I. Las Vegas, NV, December 10, 2008
- "Laboratory Assessment." Food as Medicine, San Francisco, CA, January 01, 2009
- "Module 1: Restoring Gastrointestinal Equilibrium: Practical Applications for Understanding, Assessing, and Treating gut Dysfunction." Integrative Functional Medicine, February 5-7, 2009

- "Nutritional Evaluation: Understanding Your Patients' Nutrition and Supplement Needs." Integrative Healthcare Symposium, New York City, NY, February 20, 2009
- "Workforce and Education" IOM Integrative Medicine Panelist, Washington, DC, February 25, 2009
- "Hormone Essentials." GYN Society, West Palm Beach, FL, March 27, 2009
- "Mind the Gut." DAN! Atlanta, GA, April 17, 2009
- "Nutritional Testing." CAM, San Diego, CA, April 29, 2009
- Professional Editorial Board, Integrative Medicine: A Clinicians Journal
- Affiliations President, American Board of Holistic Medicine Member, American Academy of Family Practice Member, American Gastroenterology Association
- Professional American Board of Family Practice, Diplomat (1992, 1998, 2005) Certifications American Board of Holistic Medicine, Diplomat (2002, 2009)

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Birthplace: Santa Maria, CA
Birth date: May 21, 1962

Medical Training:

- Certified in Clinical Metal Toxicology and Advanced Proficiency in Chelation Therapy 1999.
- Diplomate, American Board of Internal Medicine 1992. Re-certified 2002.
- Residency in Internal Medicine at St. Vincent Hospital and Medical Center: 1990 -1992.
- Internship in Internal Medicine at University of Missouri-Columbia Hospital and Clinics: 1989-1990.

Education:

- University of Missouri-Columbia School of Medicine: M.D., cum laude 1989.
- University of Missouri-Columbia: BA Biology, magna cum laude 1984.
- Fox High School, Arnold, Missouri: 1980.
- EMPLOYMENT:
- 1997 - Present Private Practice: Asheville Integrative Medicine, Asheville, NC.
- 1996 - 1997 Private Practice: The Energy Medicine Clinic, Black Mountain, NC.
- 1993 - 1995 Emergency Room Physician: Tillamook County General Hospital, Tillamook OR.
- Private Practice: The Center for Natural Medicine, Portland OR.
- Extern: Department of Physical Medicine and Rehabilitation, UMC Hospital and Clinics.
- 1984 - 1985 Teaching Assistant: Biology, UMC.
- 1984 - 1985 Autopsy Assistant: Harry S. Truman Memorial VA Hospital, Columbia MO.
- 1982 - 1984 Resident Assistant: Residential Life at UMC
- 1980 - 1985 Painter/Remodeler.

Honors And Awards:

- Bernard M. Baruch national essay award.
- 1980 - 1986 Curators Scholars.
- Phi Beta Kappa.
- General Honors Curriculum Certificate.

Organizations:

- American College of Physicians, Member since 1992.
- American College for Advancement in Medicine, Member since 1996; Board Member since 2003.
- American Academy of Environmental Medicine, Member since 1998.
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Certifications:

- Licensed Massage Therapist, Oregon.
- Certified Reiki Master, Oregon.
- Clinical Hypnotherapy; Portland Academy of Clinical Hypnosis.

Publication:

- Annals of Internal Medicine 127 (8) pg. 653 10/15/97, Amiodarone and Thyroid Function (Letter to the Editor).
- ACCME CME-CERTIFIED CONFERENCE CHAIRMANSHIPS:
- ACAM Fall 2008 Scientific Conference "Frontiers of Integrative Oncology", Oct 17-19, 2008 in Las Vegas NV.
- ACAM Fall 2007 Scientific Conference "Integrative Medicine: Advancing Science and Clinical Practice", Nov 16th-18th, 2007 in Scottsdale AZ.
- ACAM Spring 2006 Scientific Conference "Infection and Chronic Illness: Integrative Approaches to Lyme Disease, Stealth Infections, and Inflammation", May 4-6, 2006 in Dallas (Addison) TX.
- ACAM Fall 2005 Scientific Conference "Scientific Integrative Medicine: Advancing Health Horizons", Nov 11-13, 2005 in Anaheim CA.
- ACCME CME-CERTIFIED LECTURES:
- ACAM Spring 2008 Heavy Metals Pre-Conference Workshop "Introduction to Heavy Metal Toxicity" on 4-9-08 in Orlando FL.
- ACAM Spring 2008 Nutrition Pre-Conference Workshop "Nutrition for Vascular Health" on 4-9-08 in Orlando FL.
- ACAM Spring 2007 Heavy Metals Pre-Conference Workshop "Heavy Metals and Vascular Disease" on 5-9-07 in Chicago IL.
- ACAM Spring 2006 Heavy Metals Pre-Conference Workshop "Heavy Metals and Vascular Disease" on 5-4-06 in Dallas TX.
- ACAM Fall 2005 Nutrition Pre-Conference Workshop "ASCVD Risk Factors: Understanding Cause and Effect" in 11-05 in Anaheim CA.
- ACAM Spring 2004 Nutrition Pre-Conference Workshop "Nutrition and the Cardio-Vascular System" in Orlando FL.
- ACAM Fall 2003 Nutrition Pre-Conference Workshop "Nutrition and the Cardio-Vascular System" in Las Vegas NV.

Other Lectures:

- Invited Keynote Speaker at "Integrate Chicago" Medical Student Conference 1-20-07 in Chicago IL. Delivered keynote speech "In Defense of Medical Heresy" and break-out session "Advanced Cardiovascular Risk Factors and Therapies".
- ACAM Fall 2007 Chelation Therapy Pre-Conference Workshop "Heavy Metals and Vascular Disease" on 11-14-07 in Palm Springs CA.
- ACAM Fall 2006 Chelation Therapy Pre-Conference Workshop "ASCVD Risk Factors: Understanding Cause and Effect" on 11-14-7 in Scottsdale AZ.
- ACAM Fall 2005 Chelation Therapy Pre-Conference Workshop "ASCVD Risk Factors: Understanding Cause and Effect" in 11-05 in Anaheim CA.
- ACAM Fall 2004 Chelation Therapy Pre-Conference Workshop "ASCVD Pathophysiology, Risk Factors, and Evaluation" on 11-17-04 in San Diego CA.
- ACAM Fall 2003 Chelation Therapy Pre-Conference Workshop "ASCVD Pathophysiology, Risk Factors, and Evaluating Extent and Severity of Disease" in 11-03 in Las Vegas NV.

Joe-Ann H. McCoy, Ph.D.

Director - Bent Creek Medicinal Germplasm Repository
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cell 828-301-6490 fax: 828-665-5409 jmccoy@ncarboretum.org

Education

- CLEMSON UNIVERSITY - CLEMSON, SC
Ph.D. - Plant Physiology - 12/2004
Dissertation - Development of Seed and Rhizome Propagation Protocols for *Actaea racemosa* L.(black cohosh) and Analysis of Associated Triterpene Glycosides
- CLEMSON UNIVERSITY - CLEMSON, SC
M.S. - Plant Pathology - 12/1998
Thesis - In Vitro Culture of *Hypericum perforatum* L. (St. John's wort) and HPLC Analysis of Hypericins
- UNIVERSITY OF NORTH CAROLINA - ASHEVILLE, NC
B.S. - Environmental Studies - 12/1994
Research - Distribution and Identification of Lichen Flora of the Southern Appalachians

Experience

- 12/2007 - Current. Director, Bent Creek Medicinal Germplasm Repository at the NC Arboretum
BCI - Bent Creek Institute / NCSU / Asheville, NC
- 4/2004 - 12/2007. Curator / Medicinal Plants. USDA / NIH / NCCAM
Center for Research on Botanical Dietary Supplements
NCRPIS - North Central Regional Plant Introduction Station. Ames, Iowa
Full-time Duties:
Development of germplasm management protocols for medicinal plant genera
Identification and acquisition of new germplasm, both domestic and foreign, from native populations via plant exploration and research collaboration.
Collection in NC, SC, GA, AR, MO, WA, OR, IA, AK, Republic of Georgia
- 10/1998- 2/2004: Research Associate - NCSU - Fletcher, North Carolina
Duties:
Development of in vitro seed and field rhizome propagation protocols for native medicinal plants and HPLC analysis of marker compounds
Development of a tissue culture research laboratory; staff training in aseptic technique
- 5/1997 - 5/1998: Analytical Lab Technician / Plant Pathologist - Gaia Herbs Inc. - Brevard, NC
Duties: Extraction and HPLC analysis of phytopharmaceuticals for quality control and medicinal research; Plant pathologist for commercial organic production facility

Publications

- Qiang, Z., Zhong, Y., Hauck, C., Murphy, P., McCoy, J., Widrlechner, M., Reddy, M., Hendrich, S. 2010. (submitted) Permeability of Rosmarinic Acid from *Prunella vulgaris* and Ursolic Acid from *Salvia officinalis* Extracts Across Caco-2 Cell Monolayer's. *Journal of Nutrition*.
- Huang, N., Hauck, C., Yum, M., Rizshsky, L., Widrlechner, M., McCoy, J., Murphy, P., Dixon, P., Nikolau, B., Birt, D. 2009. *Prunella vulgaris* Ethanol Extract and Rosmarinic Acid Inhibit LPS-Induced Prostaglandin E2 Nitric Oxide in Mouse Macrophages. *Journal of Agricultural and Food Chemistry*. 57(22):10579-10589.

- Birt, D., Widrlechner, M., Hammer, K., Hillwig, M., Wei, J., Kraus, G., Murphy, P., McCoy, J.A., Wurtele, E., Neighbors, J., Wiemer, D., Maury, W., and Price, J. 2009. Hypericum in Infection: Identification of anti-viral and anti-inflammatory constituents. *Pharmaceutical Biology*. 47(8): 774-782.
- Brindley, M., Widrlechner, M., McCoy, J., Murphy, P., Hauck, C., and Maury, W. 2009. Inhibition of Lentivirus Replication by Aqueous Extracts of *Prunella vulgaris*. *Virology Journal*. 6(8):1-30.
- Percifield, R., Hawkins, J., McCoy, J., and Wendel, J. 2007. Genetic Diversity in *Hypericum* and AFLP Markers for Species-specific Identification of *H. perforatum* L. *Planta Medica*. 73:1614-1621.
- Haidet, M., Byrne, M., and McCoy, J. 2007. Safeguarding the Seeds of Native Plants. A review of Germplasm Collection Efforts and Conservation Potential. *HerbalGram*. The Journal of the American Botanical Council. 75:30-37.
- McCoy, J. 2007. Medicinal Plant Curation for Conservation and New Crop Development Research. In: *Medicinal and Aromatic Plants: Plants and Plant Systems for Small Farm Product Diversification*. 5:65-68.
- McCoy, J. 2007. Propagation Research Results for *Actaea racemosa* and Analysis of Associated Triterpene Glycosides. In: *Medicinal and Aromatic Plants: Plants and Plant Systems for Small Farm Product Diversification*. 5:87-89.
- Utilizing the National Plant Germplasm System (NPGS) for Medicinal Plant Research. McCoy, J. 2007. In: *Issues in New Crops and New Uses*. (Jules Janick, Editor) 258-260.
- McCoy, J. 2007. Lavender - A Review. *The Lavender Journal*. Australia. 44:6-9.
- Senchina, D., Wu L., Flinn, G., Konopka, D., McCoy, J., Widrlechner, M., Wurtele, E., Kohut, M. 2006. Dried Echinacea sp. roots retain cytokine-modulating capabilities in an in vitro human adult model of influenza vaccination. *Planta Medica*. 72: 1207-1215.
- McCoy, J., Davis, J., Camper, N., Kahn, I. and Bharathi, A. 2006. Influence of Rhizome Propagule Size on Yields and Triterpene Glycoside Concentrations of *Actaea racemosa*. *Hortscience*. 42(1):61-64.
- McCoy, J. H. 2005. Medicinal Plant Pathogens. In: *Persons, W.S. and J.M. Davis. Growing and Marketing Ginseng, Goldenseal & Other Woodland Medicinals*. Bright Mountain Books. p. 423-432. Fairview, NC, 466 p.
- McCoy, J. 2005. Disease and Pest Management of Medicinal Crops. In: *Morales, M.R., Foster, J., Editors. Proceedings of the Third Annual Symposium Medicinal and Aromatic Plants*. September 25, 2004, Beaver, West Virginia. P. 27-35.
- McCoy, J. 2004. Noteworthy Collections - *Actaea racemosa* var. *dissecta*. *Castanea*. 69(4).
- McCoy, J., Camper, N. 2002. Development of a Micropropagation Protocol for *St. John's Wort*, *Hypericum perforatum* L. *Hortscience*. 37(6):978-980.

Published Abstracts (Ten recent)

- McCoy, J. 2009. A New Research Resource, The Bent Creek Medicinal Germplasm Facility at the NC Arboretum in Asheville, NC. *American Society of Pharmacognosy*. 0-023
- McCoy, J. 2009. Seed and Rhizome Propagation Studies with Black Cohosh (*Actaea racemosa*) and Analysis of Associated Triterpene Glycosides. *Appalachian Center for Ethnobotanical Studies Conference*.
- McCoy, J. 2009. Establishing a new Southeastern Medicinal Germplasm Repository at the NC Arboretum. *Economic Botany*. 67.
- Clement, J., Willis, T., Kelly, R., McCoy, J., Schmitt, J. 2009. Antitumor Activity of *Aralia racemosa*. *Planta Medica*. 75:P-97.

- McCoy, J. 2009. Development of the Bent Creek Medicinal Plant Germplasm Repository at the NC Arboretum for Collaborative Research and Conservation. *Planta Medica*. 75:P-19.
- McCoy, J. 2006. Preservation of Medicinal and Aromatic Crops. The 6th National Symposium - Creating Markets for Economic Development of New Crops and New Uses. San Diego, CA. 10/14-18/2006. 6:5.
- Hillwig, M., Wurtele, E., Hammer, K., Birt, D., Maury, W., Price, J., McCoy, J. 2006. Understanding Bioactivity and Metabolite Diversity in St. John's Wort and Related Species. The 2nd Scientific Meeting of the Metabolomics Society. Harvard Medical School. Boston, MA. 6/24-28/2006.
- McCoy, J. and Widrlechner, M. 2006. Utilizing the NPGS (National Plant Germplasm System) via GRIN for Medicinal Plant Research. In Proc. of 2006 American Society of Horticultural Science. New Orleans, LA. ASHS. 41(4): 961.
- McCoy, J., Widrlechner M., and Carstens, J. 2005. A Comprehensive Echinacea Germplasm Collection Located at the NCRPIS, Ames, IA. In Proceedings of the 2005 American Society of Horticultural Science. Las Vegas, NV. 40(4): 406.
- Marek, L.F., Brenner, D.M., McCoy, J.H., Gardner, C.A. 2005. Germplasm Resources for New Crops Research: North Central Regional Plant Introduction Station, Ames, IA. In Proceedings Association for Advancement of Industrial Crops (AAIC) Annual Meeting.
- McCoy, J., Camper, N., and Davis, J. 2004. Rhizome Propagation of *Actaea racemosa* (black cohosh) and Analysis of Associated Triterpene Glycosides. In Proceedings of the 2004 International Conference on Natural Products Research. July 31-August 4, 2004. Phoenix, Arizona, P:585.

Grants / Fellowship / Awards

- The NC Biotech Center, The Mission Healthcare Foundation, Buncombe County Administrative Fund, UNC Research, Cherokee Preservation Society, USDA / CRSP - 2008-10
- Plant Exploration in the Republic of Georgia to Collect Medicinal Germplasm - USDA/ARS- 2007
- ODS/NIH / NCCAM - Center for Research on Botanical Dietary Supplements - 2005-2008
- USDA Superior Performance Award - 2007
- McKinny Fellowship - 2003;
- USFWS - Ecology and Population Biology of *Actaea racemosa* - 2002
- Virginia Crouch Memorial Fund Fellowship - 2002; Alcoa Foundation Fellowship - 2000

Professional Affiliations

- The American Society of Pharmacognosy, The Society for Economic Botany, Sigma Xi - Science Honor Society, American Botanical Council, American Herbal Pharmacopia
- Reviewer- American Herbal Pharmacopia, The American Society of Pharmacognosy, Castanea, CRC Press, Environmental and Experimental Botany, Hortscience, International Journal of Biodiversity Science and Management, Journal of Agricultural and Food Chemistry, Industrial Crops and Products, Natural Products Communication, Agronomy Journal, World Health Organization
- Member, USDA-NPGS-PGOC - Chair - Medicinal Plants Subcommittee
- Complimentary Appointment, The University of Iowa, Research Scientist, The Department of Epidemiology- 2004-2005

Jeffrey J. Segal, M.D., J.D., FACS

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jsegal@medicaljustice.com

Current:

Medical Justice Services, Inc., Greensboro, NC, Founder and CEO.

Medical Justice is an entity designed to keep physicians from being sued for frivolous reasons by holding proponents of those suits accountable in a number of venues. The idea was conceived in 1998 and launched as a business in 2002 when the intellectual property of Medical Justice was licensed to an insurance carrier. Expanded the business and assumed stewardship, full-time, as CEO, in November, 2003.

Originated the ideas behind the business, developed a portfolio of intellectual property, funded the enterprise, established the infrastructure, contracted with a national sales force, and proved the concept. Medical Justice deters medical malpractice cases as evidenced by its national experience. The average suit rate for physicians is 8-10% per physician per year. Medical Justice plan members are sued at a rate of under 2% per physician per year. Medical Justice has been featured in AMA News, Wall Street Journal, Florida Medical Business, Physician's Money Digest, and more. Two patents were issued and two are pending.

Past Management History:

DarPharma, Inc, Chapel Hill, N.C.: Co-Founder, Director, and CEO (2000- 2003)

DarPharma, was created to bring to the clinic unique break-through therapies for schizophrenia, Parkinson's disease, and other selected CNS disorders. The company was founded with an exclusive license to a large intellectual property portfolio among which are D1 dopamine full agonists. Dopamine D1 receptors have been recognized as one of the most promising targets for the management of numerous disorders, including Parkinson's disease, the cognitive deficits and negative symptoms associated with schizophrenia, ADHD, substance abuse, and autism. DarPharma's families of compounds represent the only full D1 agonists in any stage of active development for any indication. DarPharma has a world leading position in this D1 arena, with one compound in early clinical testing for Parkinson's and a second that completed trial for clinical testing for schizophrenia in late 2005 and is scheduled to start three new trials in 2006..

Raised the initial private funds, developed early partnership relationships, and organized the infrastructure to allow the company to attain its early milestones. Developed a deep understanding of pharmaceutical discovery and development, including financial, technical, regulatory, and organizational issues. Grew the company to the point of attracting a seasoned pharmaceutical veteran to take over of stewardship and lead the organization into its next phase. DarPharma was purchased by BioValve in late, 2005.

On-Call Solutions, Inc., Terre Haute, IN: Co-Founder, Director, and CEO (1999-2002)

Venture-financed company focused on web-based design of physician call-schedules. Creation of such schedules range from tedious to impossible. Developed algorithms to optimize development of such schedules. Web interface developed to simplify their creation and revision. Company achieved all technical milestones, but could not launch the service without additional tranche of funding; funding which was difficult to procure during the "tech-bubble" of 2001-3.

Clinical Work History:

- Private Practice Neurosurgery, Terre Haute, IN (1994-2000)

- Private Practice Neurosurgery, San Diego, CA (1991-1994)

Education:

- Law School: Concord Law School, J.D., (2005-2008)
- Spinal Surgery Fellowship, University of South Florida, Tampa, FL (1990-1991)
- Neurosurgical Residency, Baylor College of Medicine, Houston, TX (1985-1990)
- General Surgical Internship, Baylor College of Medicine, Houston, TX (1984-1985)
- Medical Degree, Baylor College of Medicine, Houston, TX (1980-1984)
- B.A., Liberal Arts, University of Texas, Austin, TX (1976-1980)
- AWARDS AND HONORS:
- AOA Medical Honor Society
- Phi Beta Kappa

Recent Professional Activities:

- Co-Chair Piedmont Life Science Executive Roundtable (2002-Present): Piedmont region in N.C. is home to over 50 life science companies.
- Secretary, Indiana State Neurosurgical Society (1997-2000)
- Led Indiana Neurosurgical Political Action Committee (1998-1999)

Professional Memberships:

- American Association of Neurological Surgeons
- American College Legal Medicine
- Fellow of American College of Surgeons
- North American Spine Society
- Board Certified, Neurological Surgery
- AMA, North Carolina Medical Society
- American College Legal Medicine, Member

Recreational Interests:

- Cycling. Completed Hawaiian Ironman Triathlon
- Reading History
- Juggling
- Spending time with my family.....

Jean Winborne Boyles

Johnson, Hearn, Vinegar, Gee & Glass, PLLC

Summary

Thirty six years legal experience including employment as in-house counsel with major teaching hospital and medical school with appointment to North Carolina Attorney General's Staff; local government attorney; and private practice concentrating in health law, corporate law, bankruptcy and creditor's rights, commercial leasing, antitrust, estate law and state administrative law; Certified Mediator Superior Courts of North Carolina and Certified Mediator before the Clerk. AV rated.

Education And Certification

- Licensed Attorney, North Carolina, 1973
- Certified Mediator, 2000; Certified Mediator before the Clerk 2006
- University of North Carolina, Chapel Hill, North Carolina, Juris Doctor, 1973
- University of North Carolina, Chapel Hill, North Carolina, B.A. English, 1966
- Duke University Private Adjudication Center, 2000
- Martindale Hubbell AV Rated

Work History

- Johnson, Hearn, Vinegar, Gee & Glass, PLLC - 2003 - Present
- Solo Practitioner, March 1997 - January 2003
- Hall, O'Donnell & Boyles - September 1995 - March 1997
- Solo Practitioner - April 1992 - September 1995

Full-time practice focused on representation of core corporate clients on general corporate issues with a specific focus on creditor's rights, bankruptcy matters, lease issues, and Corporate Debtors; representation of physicians, nurses and other health care professionals in practice issues, licensing; corporate and transactional matters including establishing profit and non-profit corporations and representation before state licensing boards. Creditor representation of banks and national corporate entities in Relief from Stay, Objection to Discharge and general Creditor representation in all Federal Districts of North Carolina. Successfully opposed Eckerd's proposed buy-out of Revco based on antitrust concerns. Represented corporate real estate clients in significant national bankruptcies including Revco, Interco, McCrory, Best Products, Roses, Service Merchandise, Heilig Meyers, Winn Dixie and Bi-Lo. Recent litigation caseload includes cases involving state and federal antitrust violations; franchise representation; federal RICO claims; defense and prosecution of collection issues; representation of developers in lease negotiations with national tenants; wind down of a corporation and break-up of a medical technology company; Attorney for Trustee in International Heritage Bankruptcy; contract work for Nortel Networks, Inc.; representation of a Medical Specialist Group with the hospital, physicians, licensing board and other groups after a litigious break-up; representation of Hardees Franchisees in disputes with franchisor; and work out for small business and debtor representation; and mediation of civil claims in the Superior Courts in North Carolina. Representation and drafting of estate plans for non-taxable estates and estate administration of the same. Participation in complex estate issues with divergent family interests. Participation in litigation in state and federal and appellate courts and mediation in the Superior Courts of North Carolina.

William L. Yeager, Esq. and Randall, Yeager & Jervis, Of Counsel - March 1992 - March 1998 Represented health care professionals before licensure boards; served as attorney for trustee in numerous individual bankruptcies and others involving

corporate and insurance firms dissolutions, SIPA liquidation, sale of properties and partnerships and related litigation; represented creditor's rights involving enforcement of liens and judgments, and attachments of debtor's funds; and advised clients on matters of employment law. Guest Lecturer, Business Law Class, Fuqua School of Business, Duke University.

Office of the Governor, State of North Carolina, Assistant Legislative Liaison - April - August 1987

Advised Office of the Governor regarding pending Tort Reform Bill; drafted position papers and letters for Governor's review; attended legislative sessions, committee meetings, and press conferences; and worked with special interest groups.

Consultant Health Care Attorney - January 1982 - April 1987

Served as officer for the North Carolina Society of Health Care Attorneys; Board Member and Officer, Health Law Section of the North Carolina Bar Association; participated in two year revisions of North Carolina Medical Legal Code; drafted majority of second revisions to North Carolina Brain Death Statute and lectured extensively on subject; member of Project Review Committee of the Western North Carolina Health Systems Agency; consultant to attorneys for malpractice litigation; participated in volunteer legal work in health care field.

North Carolina Memorial Hospital, Hospital Attorney with Appointment to North Carolina Attorney General's Office as Assistant Attorney General - October 1977 - December 1981

Served as Member of Management Council of N.C. Memorial Hospital and Chairman of Legal Department with responsibilities divided among legal, administrative and managerial functions. As member of Attorney General's staff, additional duties included handling criminal appeals and advising other University Departments. Primary responsibilities as hospital attorney included organization of risk management system and self-insurance program for hospital, employees and physician; coordination of defense for malpractice actions; representation of institution on all contractual, business and personnel matters; development of institutional policies and departmental protocols; and response to internal and external legal inquiries. Guest Lecturer at University of North Carolina Medical School on specialized legal topics. Coordinated legal matters between N.C. Memorial Hospital, University of North Carolina, and Consolidated University Headquarters.

Town of Chapel Hill, Assistant Town Attorney - December 1973 - October 1977

Served as Police Attorney for initial two years with responsibility for teaching officers, advising Chief of Police on disciplinary and personnel matters, and assistance in policy development. Coordinated prosecution and advised on arrest, search and seizure issues. Assisted Town Manager in drafting ordinances, implementation of policies, and communication with special interest groups. Worked in collaboration to define and institute first state protocol for rape victims and coordination of policies for collection of criminal evidence in hospital emergency rooms for prosecution of rape offenses. Taught at North Carolina Justice Academy in Salemburg and consulted with medical and law enforcement personnel with special emphasis on medical aspects of crime and preservation of medical evidence.

John Carl Pittman, M.D

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Date of Birth: January 15, 1959
Place of Birth: Tifton, Georgia

Present Occupation:

1994 - Present Medical Director: The Carolina Center for
Integrative Medicine, P.A., Raleigh,
North Carolina

Previous Occupations:

- 1989 - 1993 Emergency Department Medical Director
 - o Community Hospital of Rocky Mount
 - o Rocky Mount, North Carolina
- Emergency facility with an annual volume of 12,000 patients.
- 1988 - 1992 Emergency -Department Medical Co-Director
 - o Doshier Memorial Hospital
 - o Southport, North Carolina
- Emergency facility with an annual volume of 8000 patients.
- 1987 - 1988 Emergency Department Staff Physician
 - o Johnston Memorial Hospital
 - o Smithfield, North Carolina
- Emergency facility with an annual volume of 16,000 patients.

Education:

- 1986 -1987 House Officer I - Pediatrics
 - o Bowman Gray School of Medicine
 - o Winston-Salem, North Carolina
- 1982 - 1986 Medical Student, Charter Class
- Mercer University School of Medicine Macon, Georgia - Charter Class
- 1981 - 1982 American University of the Caribbean
 - o Montserrat, British West Indies
 - o Attended for six months prior to acceptance at US
 - o Medical school
- 1980 - 1981 Postgraduate Year
 - o University of Georgia
 - o Athens, Georgia
 - o Majors: Biochemistry and Microbiology
- 1976 - 1980 Undergraduate - B.S. Biology
 - o Valdosta State College
 - o Valdosta, Georgia
 - o Double Major: Biology, Music

Professional Speaking:

2009

- International Association of Colon Hydrotherapy - Atlantic Region Conference
- Keynote Speaker: "The History and Scientific Evidence for Colon Hydrotherapy"
- Gifts NC - Spring Conference on Children with Special Needs

2007

- Keynote Speaker: "An Integrative Approach to Treatment of Children with Special Needs"
- UNC School of Medicine - Program on Integrative Medicine"
- "An Overview of Integrative Medicine"

2006

- UNC School of Medicine - Program on Integrative Medicine"
- "Chelation Therapy and Integrative Medicine"

2005:

- UNC School of Medicine - Program on Integrative Medicine Monthly Seminar
- "Oxidative Medicine - History and Use as a Complementary Therapy" UNC School of Medicine - Guest Lecturer for the course "Principals and Practice of Integrative Medicine", an elective for students from the schools of Medicine, Dentistry, Nursing, Public Health, and Pharmacy. Subject: "Oxidative Medicine and Chelation Therapy - History and Current Use"

2004:

- North Carolina Integrative Medical Society - Spring Conference, Winston-Salem
- "Mercury Toxicity and Chelation Therapy"
- UNC School of Medicine - Guest Lecturer for the course "Principals and Practice of Integrative Medicine", an elective for students from the schools of Medicine, Dentistry, Nursing, Public Health, and Pharmacy. Subject: "Mercury Metal Toxicity and Chelation" - November

2003:

- UNC School of Medicine - Program on Integrative Medicine Monthly Seminar
- "Mercury Toxicity and Chelation" - May
- UNC School of Medicine - Program on Integrative Medicine Monthly Seminar
- "Cellular Based Medicine" - September

2001:

- American College for Advancement of Medicine - Spring Conference -
- "Chelation Therapy for Heavy Metal Toxicity - Nashville, TN - May
UNC School of Medicine - Guest Lecturer for the course "Principals and Practice of Integrative Medicine", an elective for students from the schools of Medicine, Dentistry, Nursing, Public Health, and Pharmacy. Subject: "Mercury Metal Toxicity and Chelation" - September

2000:

- UNC School of Medicine - Guest Lecturer for the course "Principals and Practice of Integrative Medicine", an elective for students from the schools of Medicine, Dentistry, Nursing, Public Health, and Pharmacy. Subject: "Mercury Metal Toxicity and Chelation" - September

1999:

- North Carolina Associate of Health Plans, State Conference, Greensboro -
- "Integrative Medicine - The Best of Both Worlds" - September
- UNC School of Medicine - Guest Lecturer for the course "Principals and Practice of Integrative Medicine", an elective for students from the schools of Medicine, Dentistry, Nursing, Public Health, and Pharmacy. Subject: "Mercury Metal Toxicity and Chelation" - October

1998:

- UNC School of Medicine - Guest Lecturer for the course "Principals and Practice of Integrative Medicine", an elective for students from the schools of Medicine, Dentistry, Nursing, Public Health, and Pharmacy. Subject: "General Concepts of Integrative Medicine - Working at the Cellular Level" - October

1997:

- UNC School of Medicine - Guest Lecturer for the course "Principals and Practice of Integrative Medicine", an elective for students from the schools of Medicine, Dentistry, Nursing, Public Health, and Pharmacy. Subject: "Oxidative Medicine and Chelation Therapy" - October

Awards:

- 2009: Triangle Business Journal's Health Care Heroes Award for 2009
- 2008: Triangle Business Leader - Triangle Impact Health Care Leader for 2008

Offices:

- 2009-11: President, NC Integrative Medical Society

Certifications:

- American Board of Clinical Metal Toxicology - Diplomate
- American Board of Oxidative Medicine - Interim Diplomate

Memberships:

- North Carolina Integrative Medical Society
- American College for the Advancement of Medicine
- International College of Integrative Medicine
- The Autism Research Institute

David Clark, DC, DACNB, FACFN, FABVR, VRS, DCCN

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Education

- Diplomate College of Clinical Nutrition 2010
- Fellow American College of Functional Neurology, 2009
- Fellow American Board of Vestibular Rehabilitation, 2009
- Vestibular Rehabilitation Specialist, American Chiropractic Neurology Board, 2008
- Diplomate, American Chiropractic Neurology Board, 2005
- Doctor of Chiropractic Parker College, 2002
- B.S. University of Oklahoma, 1994

Presentations and Teaching Activities

2009

- "Functional Neurology & Functional Medicine of Autistic Spectrum Conditions" Nutritional Club, Parker College of Chiropractic
- "Thyroid Disorders" Nutritional Club, Parker College of Chiropractic
- "Functional Blood Chemistry Analysis" Bridgeport University College of Chiropractic
- "Functional Neurology & Functional Medicine of Autistic Spectrum Disorder" Dallas, TX
- "Metabolic Syndrome" Nutritional Club, Parker College of Chiropractic
- "Neurotransmitter & Brain" Dallas, Bridgeport University College of Chiropractic
- "Neurotransmitter & Brain" Kansas City, Bridgeport University College of Chiropractic

2009

- "Learning & Memory Disorders" Nutritional Club, Parker College of Chiropractic
- "Functional Blood Chemistry Analysis" New York, NY Bridgeport University College of Chiropractic
- "Functional Blood Chemistry Analysis" Houston Bridgeport University College of Chiropractic
- "Master's Class in Functional Neurology: Multiple Sclerosis, Peripheral Neuropathy & Vertigo" Dallas, TX
- "Neurotransmitters & Brain" Atlanta, GA Bridgeport University College of Chiropractic
- "Neurotransmitters & Brain" Houston, TX Bridgeport University College of Chiropractic
- "Master's Class in Functional Neurology" Dallas, TX (June & July)
- "Introduction to Neurochemistry" Dallas, TX
- "Treatment of Vertigo, Dizziness & Balance Disorders" Dallas, TX

2008

- "Stroke Rehabilitation" Dallas, TX
- "Introduction to Brain-Based Rehabilitation" Dallas, TX

2007

- "Introduction to Brain-Based Rehabilitation" Appleton, WI
- "Unlimited Potential" Equest-Equine Therapy Institute Wylie TX
- Teaching Assistant for Dr. Brandon Brock with Carrick Institute Modules Dallas, TX

2006

- "Brain Food" Eastfield College Senior Fest Mesquite, TX

2005

- ADHD: A Teacher's Survival Guide" Eastfield College Mesquite, TX
- "Communicating with the ADHD Learner" Dallas Academy Dallas TX

2004

- "Neurochemistry of Plasticity" Parker College of Chiropractic Dallas, TX
- "Chiropractic Philosophy and Treatment" UTSW medical School Dallas, TX

Research

- Compendium of natural compounds that stimulate the TH1 and TH2 cytokine systems. In process.
- "Preventing Autism" Submitted Abstract
- "Idiopathic Intracranial Hypertension - A Case of Chasing the Dragon" Submitted Abstract

Joanne ("JP") Pizzino, M.D., M.P.H., F.A.C.O.E.M.

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Cary NC 27511
(919)651-0820
DrJP@raleigh.twcbc.com
www.whole-health-solutions.com

Place of Birth: Cleveland, Ohio, USA

Licensed to Practice: North Carolina

Education

- Undergraduate: Case Western Reserve University
 - o B.A. Degree in Chemistry and Spanish
 - o summa cum laude, January, 1979
- Graduate: Ohio State University
 - o M.D. Degree, June, 1982
- Postgraduate: Baylor College of Medicine Affiliated Hospitals
 - Internal Medicine Internship
 - o June, 1982 to June, 1983
- Postgraduate Degree: University of Texas School of Public Health
 - o Master of Public Health
 - Completed September, 1986
- Residency (1): University of Texas School of Public Health
 - o Houston, Texas
 - o Occupational Medicine Residency
 - o Completed June, 1987
- Residency (2): University of Texas
 - o Health Science Center at Tyler
 - o Family Practice Residency,
 - o Completed December, 1990.

Academic Honors

- Undergraduate: Phi Beta Kappa
 - o Presidential Merit Scholarship
 - o Iota Sigma Pi (women chemist's honor society-elected vice president)
- Graduate: Honors in Ophthalmology and Clinical Pharmacology rotations
- Letter of Commendation in Core Medicine rotation and
 - o Alcoholism elective

Professional Honors

Fellow of the American College of Occupational and Environmental Medicine (1993)

Certification

- National Board: Diplomate 1983
- Flex: Diplomate 1983
- Board Certifications: American Board of Preventive Medicine
 - o Occupational Medicine Subspecialty
 - o Diplomate, 1988
 - o American Board of Family Practice

- o Diplomate, 2012
- o American Board of Independent Medical Examiners
- o Diplomate, 1996
- Medical Review Officer: MRO for Urine Drug Testing
 - o American College of Occupational Medicine
 - Certified by MROCC, October, 1997
- Basic Cardiac Life Support: BLS - certified by
 - o American Heart Association Renewed 2006.
- Advanced Cardiac Life Support: ACLS - certified by
 - o American Heart Association Renewed 2005.
- Advanced Trauma Life Support: ATLS - certified by
 - o American College of Surgeons, Committee on Trauma, 1990.
- Aviation Medical Examiner: FAA designation.
- November, 1994
- Americans with Disabilities Act: Texas Rehabilitation
 - o Commission ADA - Texas, Training for Trainers
 - o December, 1991
- Occupational Hearing Conservationist: Certified by Council for
 - o Accreditation in Occupational Hearing Conservation - August, 1997.
- Medical Acupuncturist: Accredited by UCLA School of Medicine,
 - April, 2003.
- Reiki III Practitioner: 1998
- Graduate of HealthCoachingU: November, 2009

Professional Organizations (Year Of First Affiliation)

- Texas Medical Association (1985)
- American Medical Association (1985)
- American Academy of Clinical Toxicology (1985)
- Association of Methadone Program Physicians, Inc.(1986)
- Travis County Medical Society (1987)
- American College of Occupational and Environmental Medicine (1987)
- Smith County Medical Society (1988)
- International Commission on Occupational Health (1992)
- Mecklenburg County Medical Society (1993)
- North Carolina Medical Society (1993)
- North Carolina Medical Group Managers Association(1993)
- American Holistic Medical Association (1998)
- American Academy of Medical Acupuncture (2003)
- Institute of Functional Medicine (2003)
- American Academy of Anti-Aging Medicine (2007)

Foreign Language

Spanish

Employment

- February, 2002 to present Medical Director & President of Whole Health Solutions, PA
- July, 2009 to present Physician Affiliate of Fibromyalgia and Fatigue Centers
- December, 2003 to present Physician Panel Member NIOSH/Department of Energy: Office of Worker Advocacy
- September, 2000 to January, 2002 Sabbatical to South America to do medical volunteer work

- January, 1999 to September, 2000 Medical Director of Spectrum Medical Centers
- April, 1998 to November, 1998 Medical Director of Integrative Physicians Bridges to Health Primary Care Physician
- January, 1995 to April, 1998, and April, 2002 to Nov. 2008 Physician Program Manager IBM Corporation
- Summers, 1995-1997 Volunteer Physician with Wake County Migrant Health Project
- April, 1995 to April, 1998 After-hours physician Coastal Medical Centers
- February, 1993 - January, 1995 Director of Department of Preventive Medicine/Occupational Medicine. Nalle Clinic
- February, 1991 - February, 1993 Director of Employee Health University of Texas Health Center at Tyler
- January, 1991 - February, 1993 Assistant Professor of Medicine Occupational Medicine Specialty University of Texas Health Center at Tyler
- September, 1989 - April, 1990 Staff Physician Taylor Medical Center
- January, 1989 - December, 1990 Resident in Family Practice University of Texas Health Center at Tyler
- September, 1987 - December, 1988 Assistant Medical Director Austin Occupational Health Center
- September, 1983 - March, 1987 Private Practice in Clinical Toxicology with Eric G. Comstock, M.D., P.A.
- September, 1983 - March, 1987 Methadone Maintenance Program Physician Toxicology Associates, Inc.
- November, 1983 - April, 1984 After-hours Physician MacGregor Emergency Clinic

Academic Appointments

January, 1991 - February, 1993 University of Texas Health Center at Tyler - Assistant Professor of Medicine

Professional Activities

- Medical Toxicologist with Eric Comstock, M.D., Houston, Texas. September, 1983 - March, 1987. Consultative practice on all aspects of medical toxicology, specializing in occupational and environmental exposures. Particular expertise in asbestos, pesticides, and heavy metals. Provided legal testimony.
- Clinical Director of methadone maintenance clinics, Houston, Texas. September, 1983 - March, 1987.
- Staff physician at the Milby Clinic, Houston, Texas .September, 1986 - April, 1987. Medical management of employees for diverse companies including Houston Ship Channel, trucking, heavy manufacturing, transportation, and service industries.
- Co-developer of Health Risk Appraisal for Tenneco, Houston, Texas. April, 1987.
- On-site physician for Goodyear Tire and Rubber Company Houston, Texas. January, 1987 - April, 1987.
- On-site physician for Shell Chemical Plant and Refinery, Deer Park, Texas. May, 1987 - June, 1987.
- Fellowship in acute medical toxicology, Ben Taub Hospital, Houston, Texas. July, 1987 - August, 1987. Emergency room treatment of acute intoxication.
- Assistant Medical Director, Austin Occupational Health Clinic, Austin, Texas. September, 1987 - December, 1988. Full service occupational medicine practice with acute care of illnesses, pre- placement examinations and case management. Medical consultation and treating physician for UPS, Advanced Micro Devices, Texaco

- PetroChemicals Division and over 300 other companies. Developed nationwide medical surveillance program for Radian Corporation. Advisor to National Toxicology Program.
- Citizen Ambassador to China for Hospital Occupational Medicine with People to People, September, 1990.
- Assistant Medical Director, Texas Institute of Occupational Safety and Health (TIOOSH), University of Texas Health Center at Tyler. February, 1991 - February, 1993. Medical consultant and treating physician to Gibraltar Chemical Resources, Merico Asbestos Abatement Company, Petrolite, Brentex Mills and diverse other industries. Consultant in environmental medicine. Activities include a project to computerize medical records of the department to increase efficiency of paperwork handling and facilitate Continuous Quality Improvement program.
- Director of Employee Health, University of Texas Health Center at Tyler. February, 1991 - February, 1993. Centralized Employee Health into one location to increase compliance with CDC recommendations for protecting workers from influenza, HBV and HIV; TB surveillance, case management of workers injuries. Computerized tracking of TB surveillance. Aided organization of employee wellness activities for American Heart Association "February - Heart Month," including smoking cessation program and blood pressure monitoring.
- Organized The University of Texas Health Center at Tyler as designated provider for decontamination unit and Earth Day Hazardous Waste Recycling project, April, 1992.
- Panel member of the "ADA - Americans with Disabilities Act: Challenges and Opportunities for Occupational Health and Human Resource Professionals." Washington, D.C., May 2-3, 1992.
- Green Acres Baptist Church mission physician to Belize, December, 1991
- Vice-Chairperson, Computers in Occupational Medicine Section, ACOEM. Elected May 6, 1992.
- Oversight of Corporate Health Services for the Nalle Clinic, a multisite, 104-physician multispecialty group practice in Charlotte, NC, February, 1993 to January, 1995. Duties included development of medical advisor role for Med CONNECT, an accountable, provider-based Workers' Compensation managed care system.
- Medical Director and Consultant, Sandoz Chemicals Corp. June, 1993 to October, 1995. Clinical activities along with all aspects of employee health management for locations in seven states.
- Medical Director, City of Charlotte, November, 1993 to August, 1994. Performed on-site Workers' Compensation treatment, administered pre-placement physical exams, employee health, OSHA & ADA compliance, Hearing Conservation program, etc. Consultation concerning transition to state-of-the-art Occupational Medicine services
- Physician Program Manager, IBM Corp., January, 1995 to April, 1998, and April, 2002 to present. Responsible for corporate health activities for 85,000 employees in diverse geographies. Using innovative systems management strategies, I directed a team which reduced Workers' Compensation costs by 40% in one year. Includes direct provision of worker's compensation care, case management review & oversight of 5-10 nurses, administration of OSHA, periodic surveillance examinations, hearing conservation, infectious diseases, international assignments, disaster planning, chemical authorizations, and wellness programs. Frequent interaction with Industrial Hygiene/Safety, Human Resources, EO, and Legal departments. Clinical back-up for first-aid responders. Areas of special interest: Indoor Air Quality issues and management of contagious diseases in the workplace, electronic medical record, mobile workforce health issues, global occupational medicine services.

- Medical Director for Bridges to Health, a Center for Integrative Health, April, 1998 to November, 1998. As the allopathic preventive medical specialist at this innovative integrative health care center, I organized an interdisciplinary team approach to integrating mind, body, emotions and spirit to achieve optimum health. Our other health care providers included a Doctor of Oriental Medicine/acupuncturist, massage therapists, clinical social worker, physical therapist and Feldenkrais practitioner, meditation teacher/spiritual counselor, and a nurse who performs healing touch, zero balancing, and biofeedback.
- Medical Director, Spectrum Medical Centers. January, 1999 to September, 2000. Our full-service Occupational Medicine, travel medicine and primary care clinics provide hands-on clinical care as well as consultative services to major employers and their employees in Research Triangle Park, North Carolina.
- Regional Medical Director, Aventis Crop Science. April, 2000 to September, 2000. Medical consultation and directorship for a large agricultural chemical company.
- Medical Director, Whole Health Solutions. February, 2002 to present. A unique, personalized general medical practice emphasizing holistic health care to individuals, and consultation to employers.
- Physician Program Management Consultant, IBM. April, 2002 to November, 2008. Physician oversight of Workers' Compensation, OSHA, disability management, Ergonomics, periodic surveillance and hearing conservation programs.
- Physician Panel Member, NIOSH/DOE: Office of Worker Advocacy. December, 2003 to present. Physician review of cases submitted for compensation related to exposures in the nuclear weapons industry.
- Consultant, Disney Corporation. April, 2005. Reviewed OSHA logs.

Committees

- Poison Control Ad Hoc Committee for the State of Texas, June, 1984 - January, 1986.
- Hospital Occupational Medicine Delegation to People's Republic of China, People to People Citizen Ambassador Program, September, 1990.
- Computers in Occupational Medicine Section - Executive Committee, ACOEM, April, 1991 - present.
- Section on International Occupational Medicine, American College of Occupational and Environmental Medicine. April, 1991 - present.
- Infection Control Committee, University of Texas Health Center at Tyler. June, 1991 - February, 1993.
- Committee on the Environment, Texas Medical Association. July, 1991 - February, 1993.
- Committee to develop modified duty policy, University of Texas Health Center at Tyler. August, 1991 - February, 1993.
- Rehabilitation Committee, University of Texas Health Center at Tyler. September, 1992 - February, 1993.
- Quality Assurance Committee, Department of Medicine, University of Texas Health Center at Tyler. September, 1991 - February, 1993.
- Planning Committee and Faculty for the American College of Occupational and Environmental Medicine, Americans with Disabilities Act Training Course. October, 1991 - present.
- Educational Committee of the Texas Occupational Medicine Association. May, 1992 - February, 1993.
- Clinical Faculty Assembly, University of Texas Health Center at Tyler, Secretary/Treasurer. September, 1992- February, 1993.
- North Carolina Medical Society Occupational and Environmental Health Committee, March, 1994.
- ACOEM Ad-hoc Committee on Low Back Pain. April, 1994.

- ACOEM Health Care Quality and Cost Management Committee. April, 1994.
- IBM Task Force on Electronic Medical Folder, June, 1995.
- Force on Workers' Compensation Best Practices, June, 1996.
- IBM Task Force on Loss Prevention, June, 1996.
- IBM Task Force "Check-up 2000", January, 1997. Reviewing international standards for medical surveillance examinations.
- IBM Ergonomics Technical Advisory Committee, June, 1997.
- Work-Loss Data Institute Editorial Advisory Board for Official Disability Guidelines, June, 1997.

Research And Publications

- 1 1/2 years of hematological research on T and B cells in leukemic children at Rainbow Babies' and Children's Hospital with Samuel Gross, M.D., partly under grant from the American Cancer Society.
- 1/2 year of chemical research on L-asparagine as an anti-leukemic agent at Case Western Reserve University with Jules Klopman, Ph.D.
- Pizzino, J. "Ocular Changes in Graves' Diseases" Ohio State Medical Journal, 79: 627-9. 1983.
- Master of Public Health Thesis: "Crackling Rules in Asbestos Disease," published by the University of Texas School of Public Health, Houston, Texas. September, 1986.
- Levin JL, Pizzino J. "What is a specialist? The role of board certification in occupational medicine." Environmental Research, 1992; 59: 132-138.
- Pizzino J. "Possible Chromate-Associated Urticaria." J Occ Med., 1993; 35:97-97.
- Pizzino J., Levin JL. "Drug Testing Issues in the Workplace." Environmental Choices. Summer, 1994:16-17.
- Pizzino J., Levin JL. "Extra thoracic Sites of Joanne ("JP") Pizzino, M.D., M.P.H., F.A.C.O.E.M. Asbestos-Related Cancer: A Review." Submitted for publication.
- Levin JL, Pizzino J., Kronenberg R. "Invisible Gas: Who's Liable?" Tx Med., 1993; 89: 58-60.
- Levin JL, Pizzino J., Kronenberg R. "Building Associated Illness, Lead, Radon: Do They Really Affect Health?" EIA Journal, Summer 1994: 14-19.
- Levin, JL, Pizzino, J. Kronenberg, R. "Lead Exposure: Its Causes and Effects." ECON, Aug. 1995, 16-18.
- Pizzino, J. "Your Whole Health Environment." Health and Healing in the Triangle. Vol.6, Number 3, Summer, 2003.
- Pizzino, J. "Doctor, Could Acupuncture Help Me?" Health and Healing in the Triangle.
- Pizzino, J. "The 'New' Science of Integrative Medicine." Health and Healing in the Triangle.
- Pizzino, J. "Caveat Emptor: Applying Science to the Use of Supplements." Health and Healing in the Triangle.

Presentations

- Treatment of Tricyclic Antidepressant Overdose." Presented to Ben Taub Emergency Department rotating students and physicians. August, 1987. Speaker in seminar: "Human Response to Asbestos Exposure," October 11-13, 1984.
- "Potential Health Effects Related to Asbestos Exposure" and "Medical Monitoring." Lectures given as guest lecturer for the Occupational Environmental Safety Training Division, Texas Engineering Extension Service, Texas A&M University. January, 1991 -February, 1993.
- "Health Effects of Man-made Mineral Fibers." Presented
- to Gulf Coast section of American Industrial Hygiene
- Association, Houston, Texas. March 21, 1991.

- "Introduction to the Americans with Disabilities Act." Presented to the American Society of Safety Engineers, Tyler, Texas. September 17, 1991.
- "Potential Health Effects Related to Asbestos Exposure" and "Medical Monitoring." Lectures presented to environmental staff at Kennedy Space Center in Florida. October 14, 1991.
- "Overview of the Americans with Disabilities Act (ADA)". Presented to ARKLATEX section of American Industrial Hygiene Association, Longview, Texas November 7, 1991.
- "The Safe Use of Ionizing Radiation in the Hospital". Presented at the Pacific Rim Conference on Occupational and Environmental Health issues in Industrialized Nations, Bangkok, Thailand. November 23, 1991.
- Faculty for "A Winning Formula for Implementing the Employment Guideline of the Americans With Disabilities Act. The role of the physician." The University of Texas Health Center at Tyler, Texas Institute of Occupational Safety and Health. February, 1992.
- Speaker at National Asbestos Council Symposium on Indoor Air Quality, "Lead in the Environment," Pittsburgh, Pennsylvania. April, 1992.
- Numerous radio and television interviews on subjects relating to toxicology and occupational medicine.
- "MedConnect: An accountable provider-based Workers' Compensation Managed Care System." Presented at Ryan Associates 8th Annual National Conference. Oct. 1994.
- "The Role of the Corporate Occupational Health Provider" presented at Rehabilitation conference, Sept., 1996.
- Workers' Compensation Best Practices Workshops presented throughout IBM in Fall, 1996
- "Ergonomic Case Management" presented at IBM World-wide Environmental, Health and Safety conference, June, 1997.
- "Independent Medical Examinations: Results or Confusion" presented to Triangle AAOHN, September, 1999.
- "Systems Management. How It Can Control Workers' Compensation and Other Disability Management Costs." Presented at Ryan Associates 13th Annual Conference, October, 1999.
- "Effective Workers' Compensation Management Strategies. Systems Management strategies for success, a case study." Presented at the Spectrum Lecture Series, March, 2000.
- "You and Your Bones: Osteoporosis. The Silent Disease." Presented at IBM OHS Rounds, and to Raleigh Business and Professional Women. November, 2002.
- "Functional Medicine: Using Orthomolecular Medicine to Improve Your Quality of Life." Presented to Orange County Senior Center, July, 2003.
- "Medical Acupuncture." Presented to IBM GWBS, 2004.
- "Mold and Indoor Air Quality." Presented to UNC Preventive Medicine Seminar Series, March, 2005.
- "Integrative Medicine: Cutting Edge Technology and Ancient Wisdom." Presented at St. Philip's Church, October, 2004.
- "Pandemic Flu: Facts and Business Implications." Presented to Raleigh Chamber of Commerce, June, 2006.
- "Passive Poisoning: How To Survive Life In a Chemical Soup." Presented at Unity Church of the Triangle, July, 2006.

Joanne Pizzino, MD, MPH, FACOEM, is a graduate of Ohio State Medical School. She completed residency training with the Baylor College of Medicine and the University of Texas. Dr. Pizzino is board-certified in Preventive/Occupational Medicine and in Family Practice. She has also been certified as an Independent Medical Examiner. Since 1983, she has been involved with virtually every aspect of occupational and environmental health, including extensive background in medical toxicology, ergonomics, indoor air quality, workers' compensation, disability management, and medical surveillance. She has worked with the National

Toxicology Program and been Medical Director for the City of Charlotte, North Carolina, as well as for corporations such Aventis and Clariant.

Dr. Pizzino approaches health care from a holistic paradigm that integrates mind, body and spirit in healing. In addition to over 20 years of clinical experience in teaching and treating environmental/occupational health concerns and other ambulatory problems, she now practices utilizing a variety of complementary and alternative therapies, including Medical Acupuncture, condition-specific nutrition, botanical medicine, Functional Matrix Medicine, and Interactive Guided Imagery. Our clinic now offers state-of-the-art scientifically-based treatments for fibromyalgia and chronic fatigue syndrome with proven success in over 80% of patients. Dr. Pizzino also provides accredited health coaching to achieve Preventive Aging goals. Dr. Pizzino is living younger everyday through active lifestyle choices, including daily exercise, precision nutrition, and strong interpersonal connections. Her avocations include a passion for exploring the world's cultures, and the land and seas that surround them.

Amir Koohestani D.O.

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I am a family medicine physician; board certified in the state of North Carolina, successfully involved in a solo hospital based practice since 2002 in Richfield, NC. I am also the founding president of Healing Arts, an integrative medical center, devoted to providing a patient-centered, compassionate medical care based on the principles of functional medicine.

Licenses/ Certifications:

- Board certified by the American College of Osteopathic Family Practice
- Board certified in Osteopathic Manipulative Medicine
- Functional Medicine Certification in progress
- North Carolina state Board certification in family medicine
- DEA controlled substance registration

Education/ Training:

- Family practice residency, Wilson Memorial Regional Medical Center, Binghamton, NY, 1999-2002
- Medical school, Western University of health sciences, Pomona, CA 1995-1999
- Bachelor of arts, microbiology, University of California, Santa Barbara, 1989-1992

Active Professional Memberships/ Affiliations:

- American Osteopathic Association, 95- present
- Member of the house staff at Stanly Regional Medical Center 2002- present
- Medical Director of Southern Piedmont Community Care Program, Stanly County 2006-present
- Chair of the Stanly County Advisory Committee, 2006-present
- Chair of the Medical Management Committee at Stanly Regional Medical Center, 2007- present
- American Academy of Functional Medicine 2007-present
- Board of Directors of Hospice of Stanly County 2007-present
- Member of the Quality Standards Committee, Stanly Medical Services, Stanly Medical Services, 2008-present
- Member of the Credentialing Committee, Stanly Regional Medical Center, 2009-present
- Founding chair of the Transitional Care Committee, Stanly Regional Medical Center, 2010
- Founding president of Healing Arts Center, 2010
- Medical Director for Stanly County in the 646 Demonstration Program, a Medicare Healthcare Quality Demonstration program, run in association with Center for Medicare and Medicaid services CMS, 2010

Experiences/ Activities:

- Microbiology research assistant 1991-1992 UCSB
- Elected president of house staff at Wilson Memorial Regional Medical Center, 2000-2001

- Elected chief resident of Family Medicine residency at Wilson Memorial Regional Medical Center, 2001-2002
- Assistant clinical faculty at SUNY upstate Medical University, Syracuse, NY, 1999-2002
- Dually board certified in Family Medicine and Osteopathic Manipulative Medicine

Lectures:

- Health and nutrition series at Martin Luther King Hospital, Los Angeles, California, 1994
- Alternative approaches to treatment of attention deficit hyperactivity disorder at Wilson Memorial Regional Medical Center, Binghamton, New York, 2001
- Osteopathic manipulative medicine used in care of hospitalized patient with cystic fibrosis, Wilson Memorial Regional Medical Center, Binghamton, New York, 2002
- Osteopathic manipulative techniques during the last trimester of pregnancy to reduce dependent edema, Wilson Memorial Regional Medical Center, Binghamton, New York, 2002
- Various lectures given to medical students during my service as an assistant clinical faculty at SUNY upstate medical school, 1999-2002, detailed list available upon request
- Multiple grand rounds presentations as the chief resident, 2001-2002, detailed list available upon request
- Food as Medicine series at Pfeifer University, Misenheimer, North Carolina, 2008
- Healthy Aging series at Stanly community college, Albemarle, North Carolina, 2009

References: Available upon request

Cheryl Burdette, N.D.

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Lilburn, GA 30047
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Clinical Experience

Current Position: Director of Naturopathic Medicine at Progressive Medical. I serve as a staff physician, and manage the other Naturopathic Doctors on staff. I conduct one of the only integrated Naturopathic residencies outside of the major Naturopathic Universities. (2005 to present). I serve on the BOA for Xymogen, a Fortune 500 top 50 Inc. company, designing nutrient formulas. I am director of a nutritional lab known as NutraTest for which I design clinical profiles. I also serve on an independent IRB to give feedback concerning various studies in the area of integrated medicine. I am called upon yearly to do grand rounds at all the major Naturopathic medical schools.

Previous Experience

Staff clinician and educational consultant at Metamatrix laboratory. As a member of the education department, I am involved in clinical consultations with health care practitioners, as well as on-going research efforts to evolve lab data and analysis. Job responsibilities also included writing and editing of educational materials for physicians and clients.

I completed my residency at Cancer Treatment Centers of America in Tulsa (CTCA). CTCA is an integrated hospital that provides both conventional and complementary therapies. In addition to seeing patients, I taught weekly classes designed to educate the patient about researched natural therapies. I also participated on various committees such as the tumor board and the scientific advisory committee/IRB in order to help direct research initiatives. There are 20 residencies available for the 400 NDs that graduate each year. I was accepted to do the three residencies that I applied for. (2001-2002)

Lecture Experience:

Lecturer for all Naturopathic Medical Schools in North America - I have been routinely invited to speak at Grand Rounds at all Naturopathic Medical schools in an on-going basis since 2005. I consistently receive positive evaluations and am asked to return. Based on my lectures

done for Xymogen in 2007, each school has asked me to return in 2008, unless policy prevents two years in a row.

Physician lectures and webinars for Xymogen-2008. Rated one of the "best lectures ever," by attendees.

Lecturer for DANLA (Diplomat in Advanced Nutrition and Laboratory Assessment)—focused on presentations involving hormones and laboratory assessment. This was an 8-hour lecture to a group of integrated physicians including M.D.s, D.O.s, nurse practitioners, etc.

Guest lecturer at the Institute of Functional Medicine, 2005, "Managing the Biochemistry of Parkinson's"

On-going lecturer for "Alive Expo," a trade show for the public centered around natural health, 2006 to present

On-going appearances on local radio talk shows discussion the impact of natural medicine on health

Publications:

Laboratory Evaluations For Integrative and Functional Medicine, 2nd Edition

Richard S. Lord and J. Alexander Bralley, Editors

(Contributing Author)

Biochemical Individualities of Fatigue, A Clinicians Guide to Integrative Medicine, December 2006

Urinary Markers of Yeast Overgrowth. Integrative Medicine. 2004;3(5): 24-29.(Oct/Nov 2004)

Significance of urinary tartaric acid.

Clin Chem. 2005 Mar;51(3):672-3. No abstract available.

PMID: 15738524 [PubMed - indexed for MEDLINE]

Other work experience

Faculty member or Rising Spirit Massage School 2003-2004

Staff Clinician at "Family Health and Wellness Center," Tulsa, OK

Instructor and administrator at Stanford's College Admission prep camp,

instructor at Stanford National Debate Institute, instructor and

assistant director at Austin National Debate Institute and instructor

at Berkeley National Debate Institute (1996-2001)
Research Assistant for Nancy Aagnas, N.D., and president of American
Association of Naturopathic Physicians. (1996)
Debate coach at Vestavia Hills High School (1993-1996)
Research project focused on Biofeedback (1995-1996) at UAB

School

N.D. program Bastyr University, a four year accredited graduate level
medical program which requires 4,100 hours of study for completion as
well as over 500 supervised patient contacts. Graduated in June 2001
Board certified, in Oregon, August 2001
Graduated University of Alabama at Birmingham 1996, B.S. Psychology and
premed with honors

- Presented with the Dean's Award of Outstanding Achievement
- Debate State Champion, 1994
- Member of Psi Chi honors society