

CHERYL BURDETTE, N.D.

1185 Parkview Way Lilburn, GA 30047 678-464-7172

cherburdette@earthlink.net

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

National Naval Medical Center, Bethesda, Maryland

Internship and Residency, June 1975–June 1977

National Naval Medical Center, Bethesda, Maryland

Medical Officer in Charge of the Emergency Room □

July 1977

Naval Regional Medical Center, Corpus Christi, Texas
Director of the Primary Care Department □

August 1977~March 1979

National Naval Medical Center, Bethesda, Maryland
Medical Officer in Charge of the Emergency Room d
March 1979~June 1979

Howard County General Hospital, Columbia, Maryland
Department of Emergency Medicine

July 1979~July 1980

Emergency Medical Services Associates
Broward General Medical Center, Fort Lauderdale, Florida
Department of Emergency Medicine, Active Staff
Director of Continuing Education

July 1980~July 1981

Fort Lauderdale Emergency Physicians, P.A.
Holy Cross Hospital, Fort Lauderdale, Florida
Department of Emergency Medicine, Assistant Director

July 1981~December 1981

University of Florida, College of Medicine, Gainesville, Florida
Department of Surgery, Division of Emergency Medicine
Assistant Professor, January 1982-July 1983

Acting Director, July 1982-November 1982

Medical Director ACLS Project, 1982-1983

Medical Director, Union Co. EMS, 1982-1983

EmCare, Inc.

Orlando Regional Medical Center, Orlando, Florida
Medical Director

April 1985~April 1986

Fredric C. Wurtzel, M.D., P.A.

Winter Park Memorial Hospital, Winter Park, Florida
Emergency Department, Active Staff

August 1983~April 1985; May 1986~August 1993

South Seminole Community Hospital, Longwood, Florida
Medical Director, Department of Emergency Medicine,
May 1984~April 1985

DAVID LAWRENCE BURK, JR., M.D., C.E.H.P., (LARRY)

PRESIDENT, HEALING IMAGER, INC.

Contact Info: 2713 Winton Road, Durham, NC 27707
919-489-2811 (work phone/fax), 919-599-3515 (cell)
burk0001@yahoo.com, www.letmagichappen.com

Place of Birth: Pittsburgh, Pennsylvania, USA

EDUCATION:

Fox Chapel High School, Pittsburgh, PA, 1969-1973
Duke University, Durham, NC, 1973-1977, B.A., Chemistry
University of Pittsburgh School of Medicine, Pittsburgh, PA, 1977-1981, M.D.

PROFESSIONAL TRAINING:

Radiology Internship/Residency, University Health Center of Pittsburgh, Pittsburgh, PA, 1981-1985
Musculoskeletal Imaging Fellowship, Hospital of the University of Pennsylvania, Philadelphia, PA, 1986-1987
Anodyne Imagery Practitioner Training, Duke University Medical Center, Durham, NC, 1995
Medical Acupuncture for Physicians Course, UCLA School of Medicine, Santa Monica, CA, 1998
ACEP Energy Health Practitioner Certification, Chapel Hill, NC, 2010
ASCH Certification in Clinical Hypnosis, Durham, NC, 2011

Medical Licensure: North Carolina, Kentucky, Georgia, Texas, Florida, Arizona, California
National Board of Medical Examiners -1982
American Board of Radiology - 1985

CONTINUING EDUCATION:

Contemporary Electro-Acupuncture for Upper Extremity Sports Injuries Workshop, Hamilton, Ontario, 2002
McMaster University Health Sciences, www.fhs.mcmaster.ca/anaesthesia/acupuncturecourses/

Dynamic Interactive Acu-Bodywork Internship, Victoria, British Columbia, 2002
Victoria Pain Clinic, www.vicpain.com

Success and Abundance with EFT Workshop, Stamford, CT, 2004
Gary Craig, and Carol Look, www.carollook.com

EFT for Serious Illnesses Workshop, Stamford, CT, 2005
Gary Craig, www.emofree.com

9th Annual International Energy Psychology Conference, Chantilly, VA, 2007
Association for Comprehensive Energy Psychology, www.energypsych.org

New Frontiers in Trauma Treatment, Durham, NC, 2008
Bessel A. Van der Kolk, MD, Institute for the Advancement of Human Behavior, www.iahb.org

Psychological Trauma: Neuroscience, Attachment and Therapeutic Interventions, Boston, MA, 2008
19th Annual International Trauma Conference, www.traumacenter.org

Feeling Good Now: New Rapid Recovery Techniques for Depression Workshop, Durham, NC, 2009
David Burns, MD, Institute for the Advancement of Human Behavior, www.iahb.org

Certified Energy Health Practitioner 4-Day Certification Workshop, Chapel Hill, NC, 2009
Larry Stoler, PhD, Association for Comprehensive Energy Psychology, www.energypsych.org

10th Annual Clinical Hypnosis Workshop for Health Care Professionals, , Durham, NC, 2009
Wellness Consultants International, PLLC, www.wciconsultants.org

Energetic Applications in Energy Medicine Course, Fair Grove, MO, 2009
Norm Shealy, MD, PhD, Holos Institutes of Health, www.normshealy.com

Neurotransmitters and Brain Seminar, Charlotte, NC, 2010
DatisKharrazian, DC, Apex Energetics, Inc., www.apexenergetics.com

Functional Blood Chemistry Foundations, Raleigh, NC, 2010
Steve Noseworthy, DC, Apex Energetics, Inc., www.apexenergetics.com

Mastering the Thyroid, Ft. Lauderdale, FL, 2010
DatisKharrazian, DC, Apex Energetics, Inc., www.apexenergetics.com

Functional Endocrinology, Charlotte, NC, 2010
Steve Noseworthy, DC, Apex Energetics, Inc., www.apexenergetics.com

Understanding Constitutional Diagnosis, Raleigh, NC, 2010
Lonnie Jarrett, MAC, NC Association of Acupuncture & Oriental Medicine, www.spiritpathpress.com

Initial Mind-Body Medicine Professional Training Program, Washington, DC, 2010
Center for Mind-Body Medicine, www.cmbm.org

12th Annual Canadian Energy Psychology Conference, Toronto, Canada, 2010
Canadian Association for Integrative and Energy Therapies, www.torontoepc.com

Advanced Mind-Body Medicine Professional Training Program, Washington, DC, 2011
Center for Mind-Body Medicine, www.cmbm.org

12th Annual Clinical Hypnosis Workshop for Health Care Professionals, , Durham, NC, 2011
Medical Hypnosis Consultants, PLLC, www.wciconsultants.org

13th Annual International Energy Psychology Conference. Reston, VA, 2011
Association for Comprehensive Energy Psychology, www.energypsych.org

13th Annual Canadian Energy Psychology Conference, Toronto, Canada, 2011
Canadian Association for Integrative and Energy Therapies, www.torontoepc.com

Psychological Trauma: Neuroscience, Attachment and Therapeutic Interventions, Boston, MA, 2008
19th Annual International Trauma Conference, , www.traumacenter.org

Feeling Good Now: New Rapid Recovery Techniques for Depression Workshop, Durham, NC, 2009
David Burns, MD, Institute for the Advancement of Human Behavior, www.iahb.org

Certified Energy Health Practitioner 4-Day Certification Workshop, Chapel Hill, NC, 2009
Larry Stoler, PhD, Association for Comprehensive Energy Psychology, www.energypsych.org

10th Annual Clinical Hypnosis Workshop for Health Care Professionals, , Durham, NC, 2009
Wellness Consultants International, PLLC, www.wciconsultants.org

Energetic Applications in Energy Medicine Course, Fair Grove, MO, 2009
Norm Shealy, MD, PhD, Holos Institutes of Health, www.normshealy.com

Neurotransmitters and Brain Seminar, Charlotte, NC, 2010
DatisKharrazian, DC, Apex Energetics, Inc., www.apexenergetics.com

Functional Blood Chemistry Foundations, Raleigh, NC, 2010
Steve Noseworthy, DC, Apex Energetics, Inc., www.apexenergetics.com

Mastering the Thyroid, Ft. Lauderdale, FL, 2010

DatisKharrazian, DC, Apex Energetics, Inc., www.apexenergetics.com

Functional Endocrinology, Charlotte, NC, 2010
Steve Noseworthy, DC, Apex Energetics, Inc., www.apexenergetics.com

Understanding Constitutional Diagnosis, Raleigh, NC, 2010
Lonnie Jarrett, MAc, NC Association of Acupuncture & Oriental Medicine, www.spiritpathpress.com

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Center for Mind-Body Medicine, www.cmbm.org

12th Annual Clinical Hypnosis Workshop for Health Care Professionals, , Durham, NC, 2011
Medical Hypnosis Consultants, PLLC, www.wciconsultants.org

13th Annual International Energy Psychology Conference. Reston, VA, 2011
Association for Comprehensive Energy Psychology, www.energypsych.org

13th Annual Canadian Energy Psychology Conference, Toronto, Canada, 2011
Canadian Association for Integrative and Energy Therapies, www.torontoepc.com

ORGANIZATIONAL EXPERIENCE:

- 2007 - Program Committee, Duke Across the Threshold: Creativity, Being & Healing Conference
- 2007 - 2008 President of the Board, Rhine Research Center, Durham, NC
- 1998 - 2004 Co-Founder, Director of Education, Duke Center for Integrative Medicine
- 1996 - 2002 Co-Program Chair, Duke Integrating Mind, Body and Spirit in Medical Practice Conference
- 1993 - 1998 Coordinator, Duke University Medical Center Mind-Body Medicine Study Group

COURSE DIRECTOR:

- 2000 - 2004 CFM-251 Integrative Medicine: Research and Clinical Perspectives
Duke University Medical, PA and PT Students
- 1996 - 2003 HPER-14 Stress Management and Performance Enhancement
Duke University Undergraduate Students

INVITED LECTURES/WORKSHOPS:

Synchronicity, Intuitive Imagery and Wholeness. Duke University Medical Center 2nd Annual Integrating Mind, Body and Spirit in Medical Practice Conference, Sheraton Imperial Hotel, Research Triangle Park, NC. 10/30-11/1/1997.

Intuitive Medicine. Yoga Research Society 27th Annual Conference. Thomas Jefferson University, Philadelphia, PA, 11/10-11/11/2001.

Acupuncture and Emotional Release for Chronic Pain. North Carolina Integrative Medical Society and North Carolina Academy of Medical Acupuncture Joint Conference. Adam's Mark Hotel. Winston-Salem, NC. 3/20/2004.

Emotional Freedom Techniques (EFT) for Weight Loss and Pain Relief. Relaxation Centre of Queensland. Brisbane, QLD, Australia. 8/5/2004.

Emotional Freedom Techniques (EFT) for Pain Relief and Weight Loss. UNC Integrative Medicine Seminar. Chapel Hill, NC. 11/5/2004.

Emotional Freedom Techniques (EFT). A Non-invasive, Drug-free, Therapy Addressing Phobias, Chronic Pain, Addictions, Traumas and Anxieties. One-Day Workshop. Outcomes, Inc. Albuquerque, NM. UNM Continuing Education Bldg. 1/28/2005.

Emotional Freedom Techniques (EFT) for PTSD after Near Death Experiences. International Association for Near Death Studies Annual Conference. Virginia Beach, VA. Virginia Beach Resort Hotel. 9/8/2005.

Emotional Freedom Techniques (EFT) for Anxiety, Pain Relief and Self-Healing. Guest Lecture Psychology Stress Management Course. Central Carolina Community College. Sanford, NC. 11/21/2005.

Emotional Freedom Techniques (EFT): Energy Therapy and the Future. 3-Day Workshop (Approved Levels 1 & 2) Assistant to Carol Look, LCSW, DCH, EFT Master. National Institute for the Clinical Application of Behavioral

Medicine Annual Conference. Hilton Head Island, SC. Hilton Head Marriott Beach and Golf Resort. 12/5-12/7/2005.

Emotional Freedom Techniques (EFT) for Health and Abundance. Duke Institute for Learning in Retirement. Winter 2006 Course: Health, Ecospirituality, and Sustainability. Durham, NC. 1/12/2006.

Emotional Freedom Techniques for Attracting Abundance in Wealth, Health and Relationships. Spiritual Frontiers Fellowship. Raleigh, NC. 4/5/2007.

Emotional Freedom Techniques (EFT) for PTSD. Semper Fit Health Promotion and Fitness Programs Seminar. Camp Lejeune. United States Marine Corps. Jacksonville, NC. 11/21/2008

Intersections and Conflicts between Western Medicine and Traditional Healing. Osher Lifelong Learning Institute at Duke University. Symposia: Scientific Excursions and Diversions. Durham, NC, 9/15/2009.

Anodyne Imagery for Radiological Procedures. University of Pittsburgh Medical Center Department of Radiology Noon Conference. Pittsburgh, PA. 9/22/2009.

Emotional Freedom Techniques (EFT) for Anxiety Relief and Stress Management. Duke University Student Health Clinic Monthly CME Conference. Durham, NC. 1/6/2010.

Healing Stress-related Symptoms after Motor Vehicle Accidents with EFT and Dynamic Interactive Acu-bodywork. 12th Annual Energy Psychology Conference, Canadian Association for Integrative and Energy Therapies. Toronto, Canada. 11/5-7/2010.

Introduction to Meridian Tapping Techniques. 12th Annual Energy Psychology Conference, Canadian Association for Integrative and Energy Therapies. Toronto, Canada. 11/5-7/2010.

MRI, Acupuncture, EFT, and Dynamic Interactive Acu-Bodywork for Shoulder Pain. 13th Annual International Energy Psychology Conference, Association for Comprehensive Energy Psychology. Reston, VA. 6/2-5/2011.

Let Magic Happen: Weight loss and food craving relief with EDANVIR Tapping. 13th Annual Energy Psychology Conference, Canadian Association for Integrative and Energy Therapies. Toronto, Canada, 10/20-24/2011.

SELECTED PUBLICATIONS:

Refereed Journals (from 39 total):

35. Schiffman JS, Lasch HM, Rollag MD, Flanders AE, Brainard GC, **Burk DL Jr.** Effect of magnetic resonance imaging (MRI) on the normal human pineal: Measurement of plasma melatonin. *JMRI* 4:7-11, 1994.
38. Sugarman J, **Burk L.** Physicians' ethical obligations regarding alternative medicine. *JAMA* 1998;280:1623-1625.
39. **Burk L.** Single session EFT (Emotional Freedom Techniques) for stress-related symptoms after motor vehicle accidents. *Energy Psychology: Theory, Research and Treatment*. 2010;2(1):65-71.

Non-Refereed Publications and Reviews (from 15 total):

4. **Burk DL Jr.** The basics of bioelectromagnetism. AAMA Review 2:13, 1990.
11. **Burk DL Jr.** New vistas for Anodyne imagery. Administrative Radiology Journal, July, 1996:38-40.

Letters to the Editor and Op-Ed Columns (from 29 total):

2. **Burk DL Jr.** Intuitive magnetic imaging. Radiology [letter] 182(3):897, 1992.
3. **Burk DL Jr.** Coming to terms with life and death. Diagnostic Imaging [letter] 1994;February:8.
4. **Burk DL Jr.** "Medical Intuitives" and remote diagnoses. Diagnostic Imaging [letter] 1994;October:10.
5. **Burk DL Jr.** Accessing intuition through imagery for stress management, creative problem solving, and diagnosis. AJR [letter] 1996;166:1231-1232.
6. **Burk, L.** Psychic/intuitive diagnosis: Two case reports and commentary. J Altern Complement Med [letter] 1997 Fall;3(3):209-11.

Selected Abstracts (from 69 total):

61. **Burk DL Jr.** Intuitive diagnosis of Ewing sarcoma: Anomaly or paradigm shift? Presented at the 18th Annual Scientific Session, Society of Skeletal Radiology in Tucson, AZ, March 8-11, 1995.
62. **Burk DL Jr.** Intuitive medical diagnosis of musculoskeletal diseases with radiographic correlation. NIH Conference on Complementary & Alternative Medicine Research Methodology, Bethesda, MD, April 26-28, 1995.
63. **Burk, DL.** Intuitive medical diagnosis of musculoskeletal diseases with radiographic correlation: Case report, literature review and research protocol design. Proceedings of the 38th Annual Convention of the Parapsychological Association. Durham, NC, August 5, 1995.
64. Eskinazi D, Laken MP, **Burk DL Jr.** Medical Training & Education Panel on "Alternative Medicine". The First Annual International Congress on Alternative & Complementary Medicine, Arlington, VA, May 22-26, 1995.
65. **Burk DL Jr.** Anodyne imagery for musculoskeletal radiologic procedures. Presented at 19th Annual Scientific Session, Society of Skeletal Radiology, Tucson, AZ, March 6-9, 1996.
66. **Burk DL Jr.** Accessing intuition through imagery for stress management, creative problem solving and diagnosis. Presented at 19th Annual Scientific Conference, American Holistic Medical Association, Philadelphia, PA, May 8-11, 1996.
67. **Burk DL.** Assessment of current models: Part 1. Complementary and Alternative Therapies in the Academic Medical Center: Issues of Ethics and Policy. University of Pennsylvania Center for Bioethics, NIH/NCCAM, November 10-12, 1999.
68. **Burk L.** Intuitive Diagnosis Research Methodologies: Past, Present and Future. Proceedings of the Bridging Worlds and Filling Gaps in the Science of Healing Conference. Keauhou Beach Resort, Hawaii. November 29 - December 3, 2001.
69. **Burk L, Curry L, Bulbrook MJ, Atwater B.** Intuitive Medical Diagnosis Panel Discussion: Scientific and clinical intuitive medical diagnosis. Rhine Research Center Consciousness Today Conference: Where Scientists and Psychics Meet. Myrtle Beach, SC. March 23-25, 2007.

Jorge David Flechas, M.D., M.P.H.

Office Address:
80 Doctors Drive, Suite 3
Hendersonville, NC 28792
Tel: (828) 684-3233
Fax: (828) 684-3253

1974-1977 Loma Linda University, Loma Linda, California
School of Medicine
•M.D. Degree

1979 Loma Linda University, Loma Linda, California
School of Health
•M.P.H. Degree

POST GRADUATE MEDICAL EDUCATION:

1977-1980 Residency: Orlando, Florida Family Practice: Florida Hospital

EDUCATION

MBA, Presidio School of Management (San Francisco) PhD, Immunology, Univ. of Minnesota (St. Paul) BS (magna cum laude), Genetics & Cell Biology, Univ. of Minnesota (Minneapolis)

PRIOR EXPERIENCE

- Researched biopharma market and competitive landscape, as well as customer needs and industry trends
- Developed methodologies to communicate the economic impact of company's scientific insights to current and prospective clients
- Provided recommendations to senior management regarding branding and value messaging
- Project/Team Leader Led multidisciplinary teams in executing fast-paced projects for international clients. Developed detail-oriented project plans, timelines, and strategies for execution and change control. Effectively engaged and motivated internal and external stakeholders. Communicated key insights and complex technical information using excellent verbal and written skills. Collaborated with technical and business development stakeholders to apply a whole-systems perspective and strategic outlook to the company's business activities.
- Organizational and Operations Management Coordinated internal efforts to identify areas for improvement, and to disseminate best practices across the organization.

Entelos, Inc. (Foster City, CA)

Associate Director, Marketing 1/2010-6/2010

Senior Scientist 2005-2009

Abgenix, Inc. (Fremont, CA)

Senior Scientist 2004-2005

Scientist II 2002-2004

Scientist I 2001-2002

Strategic planning

Collaborated with a team of colleagues (selected from over 400 employees) to analyze the company's prospects for future growth, reporting recommendations to the Board of Directors.

Project/Team leader

Managed over 20 projects in drug development alliances with pharma and biotech companies.

Led the identification and strategic design of new drug candidates for clients and Abgenix's own proprietary portfolio

Managed allocation of internal resources through dotted-line staff oversight.

Collaborated with Abgenix's business development group to generate new business leads and foster client relationships.

Finance, marketing, strategic planning: Intuit, Inc.

My team developed a marketing plan, strategic outlook, and financial analysis to help Intuit launch an innovative product offering aimed at small, "green" businesses.

Operations planning: Entelos, Inc.

I led a team that analyzed operations in the R&D department, providing senior management with recommendations to improve both the company's top and bottom lines, and a three-year cost-benefit analysis of several potential initiatives.

Education Venture: Bright Spring

Teachers lack time-saving ways to locate socially and environmentally relevant activities for grade-school students. My team developed a business plan and financial model for "Bright Spring", a novel venture to address this unmet need.

Presidio Graduate School (San Francisco, CA)

MBA Project- Oriented Learning 1/08-5/09

ADDITIONAL SKILLS

Proficiency in Microsoft Office Versant in German, Dutch; some French & Spanish

(Word, Outlook, Powerpoint, Excel, Project)

Volunteer tutor; designed and led sustainability workshops for the local chapter of the Boys & Girls Club of America

REFERENCES, PUBLICATIONS, AND PATENTS AVAILABLE UPON REQUEST

Rachel Marynowski, ND

Rmarynowski@intonuwellness.com

770-596-0828

HIGHLIGHTS OF QUALIFICATIONS

- Effective analytical, problem-solving, and communication skills
 - Personable; proven ability to work well with and for others
- Self-motivated; willing to take initiative and assume responsibility
 - Detail-oriented; thorough and organized

Clinical Modalities of Interest: Hydrotherapy, Homeopathy, Botanical Medicine, Clinical Nutrition, IV Nutrient Therapy, Lifestyle Counseling

Patient Focus Group/Areas of Focus: Women & Pediatrics; Primary Care, Environmental Medicine, Functional Medicine, Gastrointestinal Health

EDUCATION

Doctor of Naturopathic Medicine April 2010
National University of Health Sciences
Naturopathic Physician

Bachelor of Science May 2005
University of Georgia
Major: Public Health

INTERNATIONAL EXPERIENCE

Studies Abroad, University of Queensland, Australia Summer 2004
-Expanded knowledge of Aboriginal and Australian cultures
-Studied throughout Eastern Australian coast

WORK EXPERIENCE

Clinical Consultant May 2010- present
Metamatrix Clinical Laboratory, Duluth, GA

- Interpret functional medicine laboratory results for practitioner clients: MD's, DO's, ND's, DC's, RD's, PhD's
- Research laboratory analyses in relation to disease correlation
- Create educational pieces including power-point presentations, webinars, blogs
- Lecture at seminars on the topic of functional medicine, naturopathic medicine, whole health

Author Book published June 2010

"Mr. Sudsy-Wudsy, Soapy-Boapy's Dirty Adventures: A Lesson in Hand Washing"
-English & Spanish versions available

Contributor Book published May 2011

"Case Studies in Integrative and Functional Medicine"

Supervisor June 2006- December 2006

WellStar Corporate & Community Health Services, Marietta, GA

- Managed team of 45 health care representatives, RN's, RD's
- Established and maintained corporate client contacts at over 150 businesses
- Planned and conducted public health outreach events including wellness screenings, vaccinations, and school health programs
- Created and implemented \$1.5 million dollar budget

Health Care Representative January 2005-June 2006

WellStar Corporate & Community Health Services, Marietta, GA

- Gained knowledge of health screening activities and received skills training in blood pressure, bone density,

cholesterol, glucose, hearing and vision screenings

- Initiated contact with over 1200 businesses in order to expand corporate health relationships
- Called upon state representatives in attempts to gain support of and participation with *WellStar Health System*
- Disseminated health information packets throughout 4-county region
- Constructed various forms of advertising media for over 20 events

Patient Coordinator Summer 2004

Wellness Resources Inc., Alpharetta, GA

- Organized patients appointments and completed check-in procedures
- Completed Bio-impedance monitoring tests and evaluated results
- Formatted and distributed newsletters
- Gained knowledge of receiving shipments, completing inventory and using Excel

PREVIOUS SPEAKING ROLES

Metamatrix ALE Seminars

ProThera Annual Probiotic Symposium

VOLUNTEER WORK

Athens Community Council on Aging
Cobb SAFE KIDS

Northern Illinois Food Bank
Lakeview Retirement Community

HONORS AND ACTIVITIES

- CPR and First-Aid Certified
- President's Scholarship Award* (Jan 2008-April 2010)
- Student Council Representative, elected position (Oct 2008-April 2010)
- Students United by Naturopathy Club Secretary, elected position (Aug 2009-April 2009)
- Undergraduate Excellence Award*, UGA (Spring 2005)
- Dean's List, UGA

Thomas P. McKay, Jr. , D.C.

Sandhills Alternative Healthcare 780 NW Broad Street Suite 400 Southern Pines, NC 28387

Phone: 910-693-3700 Fax: 910-693-3709 E-mail: DrTMcKay@ yahoo.com

Objective

To provide clinical knowledge to patients and colleagues based on clinical and scientific research to allow the greatest opportunity for people to be well. To enhance and increase an individuals Quality of Life as much as it is possible.

Qualifications

I have been in private practice for 11 years and have always placed a strong emphasis on nutrition being paramount for good health. I am a chiropractic physician with 100 hours completed in Applied Kinesiology and also board eligible for a diplomate from the American Board of Chiropractic Internists having completed 300 hours of study.

Work History

2000– 2011 Owner ,Sandhills Alternative Healthcare

2001-2002 Adjunct professor, St. Andrews Presbyterian College Taught Human Physiology and Exercise Physiology

Education

2003-2006 Diplomate course (300 hours) American Board of Chiropractic Internists

2002– 100 hours Applied Kinesiology course 1996-2000 Doctor of Chiropractic, Palmer College of Chiropractic Cum Laude graduate 1992-1996 Bachelor of Science, St. Andrews Presbyterian College Major in Biochemistry

References

John Stephens, Jr., D.C., Alabama, 334-386-6343

William Shaw, Ph.D

Contact: Stacey Flanner – Marketing Events & Promotions Specialist
Address: 11813 W. 77th St, Lenexa KS 66214
Phone: 913-341-8949 ext. 125
Fax: 913-341-6207
Email: sflanner@gpl4u.com



William Shaw, Ph.D. is an innovative researcher dedicated to an understanding of the biochemical influences on health and wellness. Dr. William Shaw received a Ph.D. in biochemistry and human physiology from the Medical University of South Carolina. He is board certified in the fields of clinical chemistry and toxicology by the American Board of Clinical Chemistry, which has allowed him to study the relationship of chemical exposure on metabolic processes. He has supervised large endocrinology, nutritional biochemistry, toxicology and immunology departments in positions at the Center for Disease Control (CDC) and Smith Kline Laboratories in Atlanta, GA. He was Director of Clinical Chemistry, Endocrinology and Toxicology at Children's Mercy Hospital, the teaching hospital of the University of Missouri at Kansas City School of Medicine. Dr. Shaw is now the Director of The Great Plains Laboratory, Inc. for Health, Nutrition and Metabolism in Lenexa, Kansas, specializing in the diagnosis and treatment of mitochondrial disorders, neurological diseases, chronic immune diseases, and much more. He is author of *Biological Treatments for Autism and PDD* and is a frequent speaker at autism conferences worldwide. He is the stepfather of a child with autism and has helped thousands of parents and physicians successfully contribute to improving the lives of children with autism.

Speaking History:

William Shaw, Ph.D. is a frequent speaker at autism, environmental, and nutritional conferences worldwide. As director of The Great Plains Laboratory, Inc. he also sponsors many conferences annually throughout the world. Below are a few of the many conferences he has presented.

American College for the Advancement of Medicine (ACAM)	Defeat Autism Now (DAN!)
American Academy of Environmental Medicine (AAEM)	American Environmental Health Foundation (AEHF)
Autism Society of America (ASA)	United States Autism & Aspergers Association
(USAAA) International College of Integrative Medicine (ICIM)	Institute of Functional Medicine (IFM)
Pan American Allergy Association (PAAA)	Ontario Association of Naturopathic Doctors
(OAND)	
Academy of Integrative Medicine (AIM)	CCNM Naturopathic College of Toronto
International Society of Orthomolecular Medicine (ISOM)	Council on Nutrition (ACA)
Restorative Medicine	Long Island Autism Conference (LIAC)
Australian College of Nutritional & Environmental Medicine	Autism One
Autism Today	Autism Alliance
Autism Education Network Conference	National Autism Association (NAA)
Fibromyalgia Coalition International	Lyme Induced Autism Foundation (LIAF)

AV Requirements:

General – PowerPoint, Speakerphone, Projector

Director of The Great Plains Laboratory for Health, Nutrition, and Metabolism, a laboratory specializing in the diagnosis and treatment of metabolic disorders of adults and children with diseases such as autism, PDD, hyperactivity, inborn errors of metabolism, and adult disorders such as depression, fibromyalgia, and chronic fatigue. Dr. Shaw has presented information about his research throughout the world. The last ten years of Dr Shaw's research have been devoted to research on the metabolic, infectious, nutritional, and immunological causes of autism. Dr Shaw has been the keynote speaker at the National Autism Society of America National Meeting, the National Meeting of the American Association for Environmental Medicine, and the National Meeting of the American Academy for the Advancement of Medicine, the Pan American Allergy Association, The Academy of Neurologists of Mexico Autism Conference, and many others. He has spoken to numerous groups about autism and has provided medical training about autism in virtually every state in the United States and in England, Scotland, New Zealand, Singapore, Japan, Hong Kong, Indonesia, the Netherlands,

France, Germany, Spain, Venezuela, Mexico, Peru, Costa Rica, Canada, Chile, and Brazil. Dr. Shaw along with several co-authors recently published the second edition of his book "**Biological Treatments for Autism and PDD. What's going on? What can you do about it?**", a comprehensive and easy to read guide to the most current research and medical therapies for autism and PDD. This book has now been translated into French, Italian, German, Spanish, Portuguese, Dutch, Japanese, Arabic, Chinese, Japanese, and Indonesian and is now one of the most well-read books in the field of autism.

Children's Mercy Hospital, Kansas City, MO 64108
Director Clinical Chemistry, Endocrinology, Toxicology

1991-1996

RESPONSIBILITIES INCLUDE:

- Technical supervision of General Clinical Chemistry, Endocrinology, Toxicology Laboratories, and near patient testing activities.
- Development of a GC/MS screening method for organic acids excreted in a large number of inborn errors of metabolism.
- Maintenance of quality assurance program, new test development, consultation with medical staff concerning test selection and interpretation.
- Review of performance of supervisory personnel.
- Selection of equipment and planning of facilities for laboratory testing.
- Represent the laboratory on the Pharmacy and Therapeutics Committee, the Clinical Pharmacology Committee, and the Radiation Safety Committee of the hospital.

SIGNIFICANT ACCOMPLISHMENTS

- Development of a metabolic testing service for organic acids in which over 100 compounds are quantitated and a computerized spectral search is done in which 40 largest peaks are identified.
- Development of a new metabolic profile for the diagnosis of autism using newly discovered compounds in the urine of autistic children. (Clin. Chem. 41(8): 1094-1104).
- Our results indicate that these abnormal compounds are of (yeast) fungal origin and that the clinical symptoms of autism can be improved by antifungal drug therapy. Findings were presented at the 1995 and 1996 National Meetings of the Autism society of America.
- Worked with several different departments to obtain CAP certification for the laboratory.
- Has been invited to present the research on autism to groups throughout the world
- Completed organic acid testing on 70 different strains of anaerobic bacteria in order to be able to determine contribution of microbial metabolites to pediatric diseases.

SMITHKLINE BEECHAM CLINICAL LABORATORIES, Atlanta, Georgia
Director, Forensic Toxicology and NIDA Director

1979 - 1991

1990 - 1991

Responsible for the management of a staff of 53 including 22 technical personnel and 30 administrative personnel involved in accessioning, client response, and security activities. Performed approximately 2000 drug tests per day with a 1990 budget of \$5.4 million.

Started laboratory and within the first year obtained profits of \$100,000. Projected profits for second year were \$4.5 million.

Led the staff through two rigorous NIDA inspections and through four Nuclear Regulatory Commission (NRC) audits, which received high commendations from inspectors.

Increased productivity and efficiency through changing one set of confirmation tests from non-GC/MS to the GC/MS method.

Technical Manager, Immunology Department

1989 - 1990

Responsible for the development of a new immunology department and management of a staff of approximately 40, including 3 supervisors, and the development and control of a \$2.9 million budget.

The department consisted of 6 major service areas (Immunochemistry, Immunoserology, Immunohematology, Flow Cytometry, Steroid Receptors, and HLA/Paternity) and served as the referral center for esoteric immunology testing for sister laboratories. The department performed approximately 2,500 tests per day.

Implemented flow cytometry for lymphocytes for AIDS testing and DNA analysis of tumors as well as a research program for the use of DNA probe technology for paternity testing.

Started new department as a result of acquisition and made improvements in efficiency, which increased profits by 25%.

Developed and tested a new drug for the treatment of AIDS that was highly effective in in vitro tests.

Initiated and implemented the development of flow cytometry for AIDS testing including CD3, CD4, and CD8 cells which produced an added profit of \$1 million per year.

Developed a combination ERA/PRA/DNA analysis for patients with breast cancer and increased business through creating and writing promotional literature.

Started and implemented a project to add DNA probe technology to the standard paternity test.

Converted all blood-banking to microtiter trays to greatly reduce reagent costs and converted all immunoelectrophoresis over to the more efficient immunofixation.

Converted all specific protein tests to Beckman methodology to cut costs.

Technical Manager, Special Chemistry and Immunoserology Departments 1982 - 1989

Responsible for the performance of a wide range of RIA tests (e.g., testosterone, androstenedione, LH, FSH, ACTH), specialized urine analyses (e.g., 17-OH glucocorticoids, VMA, metanephrines, catecholamines, pregnanediol, porphyrins), and estrogen and progesterone receptor analyses in breast tumors.

Additionally, tests for fetal well-being, such as estriol and L/S determination and genetic screening were performed. Managed a staff of 70 and was responsible for the development and control of a \$10 million budget.

Was responsible for viral and microbial serology as well as autoimmune testing such as ANA, anti ds-DNA, thyroid autoantibodies, anti-SM and RNP, and others.

Streamlined software for lipoprotein testing so that electrophoresis was not needed on 95% of samples. Developed a computer software program for ERA samples that automatically edited bad data points so that finished results were printed out.

Developed automated testing for HDL cholesterol.

Developed expertise and consulted with physicians on every type of problem and clinical disease conditions, as well as on which tests were needed.

Wrote service manual on the use of specialty endocrine tests and on specialty tests for psychiatric diseases for use by the entire company.

Wrote a paper on the biochemical basis of Reye's syndrome and crib death described by experts in the field as one of the most creative papers ever published in Clinical Chemistry.

Wrote and published an article indicating that elevated phospholipase was implicated in the etiology of schizophrenia. Subsequent research in Germany confirmed predictions. The discovery could lead to new treatment for schizophrenia and new drug therapies.

Assistant Director Toxicology Department 1978 - 1982

Supervised the toxicology department which employed 70 medical technologists and chemists in a 24-hour-a-day, seven-days-a-week toxicology service for both therapeutic drug monitoring and drug screening including emergency toxicology.

The size of the staff, laboratory space, number of tests offered, and equipment made it the largest commercial toxicology service in the Southeast. The department performed 200 different tests and had a sample load of approximately 50,000 tests per month.

Responsible for supervision and training of personnel, trouble-shooting methods, instrument maintenance, implementation of quality control procedures, conferring with physicians and other medical personnel on interpretation and selection of appropriate tests for emergency toxicology and therapeutic drug monitoring, providing expert witness testimony, and development of new methods.

Laboratory instrumentation experience includes gas chromatography mass spectrometry-computer, several high-performance liquid chromatographs, atomic absorption spectrophotometers, flame ionization and nitrogen detector gas chromatographs, anodic stripping instrumentation, fluorometers, spectrophotometers, two different centrifugal analyzers, and scintillation counters.

Adapted EMIT (enzyme immunoassay) procedures to centrifugal analyzers using special adaptations to reduce cost and improve efficiency, trained and educated the staff to improve accuracy and precision in drug screening, and helped organize work schedules and work stations to maximize efficiency and to distribute the work load evenly over all shifts.

CENTERS FOR DISEASE CONTROL, Atlanta, Georgia
Supervisory Research Chemist Nutritional Biochemistry and Endocrinology

1971 - 1978

Served as chief of the radioimmunoassay laboratory and directed development of reference methods for radioimmunoassays, such as thyroxine and digoxin. Techniques used include radiolabeling, preparation of antigenic conjugates, and titrating of antisera. Important theoretical work was the development of the mathematical basis for the treatment of RIA data. The digoxin method developed was used as the national reference method for digoxin.

Purified thyroid binding proteins using protein purification techniques such as column chromatography, polyacrylamide gel electrophoreses, equilibrium dialysis, and immunonephelometry.

In the nutritional biochemistry section, directed research on nutritional and clinical biochemistry methods and service work on folic acid, vitamin B12, iron, magnesium, iodine, thiamine, and proteins in the body fluids using both automated and manual instrumentation.

Gained experience in clinical chemistry instrumentation such as autoanalyzers, spectrophotometers, fluorometers, atomic absorption, electrophoresis, gas chromatography, and scintillation counters.

MERCER UNIVERSITY, Atlanta, Georgia
Assistant Professor, School of Pharmacy

1978 - 1979

OTHER RELATED EXPERIENCE

Served as a member of the Toxicological Chemistry Certification Examination Committee of the American Board of Clinical Chemistry to prepare examinations for board certification in toxicology.

Served as an expert witness for the City of Atlanta in a wrongful death case involving alleged pesticide poisoning and in a large number of cases for both prosecution and defense cases involving illegal drug abuse.

Served as a forensic expert in court cases involving paternity testing using blood typing, HLA, and DNA gene probes.

Performed court-directed tests for illegal drugs at the Georgia State Crime Laboratory as a recognized expert for defense counsel.

Acted as a laboratory director or as a consultant for 4 other client laboratories for approximately 5 years.

Have served as an expert witness in numerous cases involving drug and/or alcohol related issues in both civil and criminal cases for both defense and prosecution.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Association of Clinical Chemistry
Atlanta Chromatography Discussion Group
Clinical Chemists of Georgia
Cure Autism Now
Defeat Autism Now
Autism Society of America

HONORS

N.D.E.A. Fellowship (Medical University of South Carolina)
N.D.E.A. Fellowship (Montana State University)
Seton Hall University Scholarship
South Carolina State Traineeship

EDUCATIONAL BACKGROUND

Medical University of South Carolina 1971
Charleston, South Carolina
Ph.D. Biochemistry, Genetics and Physiology

University of Georgia 1967
Athens, Georgia
B. S., Biology and Chemistry

Ph.D. DISSERTATION

The evaluation of the teratogenic effects of folic deficiency on pregnant mice and the evaluation of the biochemical effect of maternal folate deficiency on postnatal development of DNA metabolism in the central nervous system.

OTHER EDUCATION PREPARATION

Attended training courses in pesticide chemistry, industrial hygiene chemistry, environmental medicine, radiation safety, gas chromatography, and mass spectra interpretation. Recently completed graduate course in health care systems.

CERTIFICATIONS/CREDENTIALS

American Board of Clinical Chemistry - Toxicological Chemistry
(Board Certified) -#36
American Board of Clinical Chemistry - Clinical Chemistry
(Board Certified) - #634

PATENTS

1. Shaw, William. US Patent No. 5,686,311. Diagnosis of autism and treatment therefor. Awarded November 11, 1997.

GRANTS AWARDED

1. Shaw, W., Luxem, M., Chaves, E. Autism and yeast infection: the role of urine organic acids in the diagnosis and treatment of autism. Funded January 1995 by a grant from the Katherine B. Richardson Foundation (\$9,700), Pfizer Pharmaceuticals (\$30,000), and a \$10,000 donation from the parents of an autistic child.
2. Shaw, W. Development of a biochemical profile to assess disorders of fat metabolism in sudden infant death syndrome. Katherine B. Richardson Grant. Fall 1992. \$4,700.
3. Klem, S., and Shaw, W. Serum phospholipase A activity in children. Katherine B. Richardson Grant. Fall 1992. \$4,000.
4. Kilbride, H., and Shaw, W. Evaluation of threshold levels for determination of fetal cocaine exposure. Katherine B. Richardson Grant. Fall 1992. \$3,375.

PUBLICATIONS

Abstracts and papers presented at meetings

1. Shaw W. Role for certain yeast and bacteria byproducts discovered by organic acid testing in the etiology of a wide variety of human diseases. American College for Advancement of Medicine Fall Convention. Anaheim, CA. November 1997.
2. Shaw W. Exciting evidence to support a potential role for certain yeasts and bacteria in the etiology of autism and other neurological disorders. 31st Annual Meeting of the American Academy of Environmental Medicine. Boston, MA, October 1996.
3. Shaw, W and Chaves, E. Experience with organic acid testing to evaluate abnormal microbial metabolites in the urine of children with autism. Keynote address. Published in The Proceedings of the Autism Society of America National Conference on Autism. Milwaukee, WI, 1996.
4. Shaw, W., Chaves, E., and Luxem, M. Abnormal urine organic acids associated with fungal metabolism in urine samples of children with autism: preliminary results of a clinical trial with antifungal drugs. Published in The Proceedings of the Autism Society of America National Conference on Autism. Greensboro, NC, July 1995.
5. Shaw, W. Organic acid testing: abnormal metabolites in the urine of children may assist in the diagnosis of, and therapies for autism. Presented at the Autism Society of America National Conference on Autism, Las Vegas, NV,

July 1994.

6. Kilbride, H., Castor, C., and Shaw, W. Perinatal history does not adequately identify fetal drug exposure. Accepted for presentation at the Midwest Pediatric Research meeting, January 1994.
7. Kilbride, H., Castor, C., and Shaw, W. Diagnostic Products Corporation Radioimmunoassay is more sensitive than enzyme multiplied assay technique for screening meconium for fetal cocaine exposure. Accepted for presentation at the Midwest Pediatric Research Meeting. January 1994.
8. Shaw, W., Kassen, E., and Overman, J. Metabolic testing of Sudden Infant Death Syndrome Cases: Evidence for FumaricAcidemia as a New Cause of SIDS. Presented at the National Meeting of the Society of Forensic Toxicologists, Phoenix, Arizona, October 1993.
9. Kilbride, H., Castor, C., and Shaw, W. Threshold for Identifying Cocaine Metabolites in Infant Meconium. Presented at the Midwest Pediatric Research Meeting. November 1992.
10. Shaw, W., Powell, M., and Bayse, D. The influence of serum albumin concentration on fatty acid interference in the radioimmunoassay for serum digoxin. Presented at the 29th National Meeting of the American Association of Clinical Chemistry, Chicago, Illinois (1977).
11. Shaw, W., Hubert, I. L., Powell, M., and Spierto, F. W.. Interference of fatty acids in the competitive protein-binding assay for serum thyroxine. Presented at the 28th National Meeting of the American Association of Clinical chemistry, Houston, Texas (1976).
12. Shaw, W., Smith, J., and Spierto, F. W.. Interpretation and RIA quality control use of parameters with six different data reduction methods. Presented at the 28th National Meeting of the American Association of Clinical Chemistry, Houston, Texas (1976).
13. Spierto, F. W., Knight, M., Smith, J., and Shaw, W. A comparison of inter and intralaboratory performance of four common radioimmunoassay procedures. Presented at the 28th National Meeting of the American Association of Clinical Chemistry, Houston, Texas (1976).
14. Smith, J., Shaw, W., and Spierto, F. W. A comparison of several transformations for thyroxineradioassay data. Presented at the 28th National Meeting of the American Association of Clinical Chemistry, Houston, Texas (1976).
15. Shaw, W. The importance of the order of addition of reagents to the T4 radioassay. Presented at the Florida Section meeting of the American Association of Clinical Chemistry, Tampa, Florida (November, 1974).
16. Shaw, W., Hubert, I. L. and Spierto, F. W. Thyroxine competitive binding radioassay (CBR): Marked advantages of the new "Case A" CBR system over conventional "Case C" CBR systems. Presented at the 26th National Meeting of the American Association of Clinical Chemistry, Las Vegas, Nevada (August, 1974).
17. Slade, B., Harrison, J., and Shaw, W. The assay of folic acid in serum by L. casei assay and by competitive protein-binding radio-assay. Presented at the 25th National Meeting of the American Association of Clinical Chemistry, New York, New York (1973).
18. Shaw, W., Harrison, J., and Slade, B. Factors involved in the assay of folic acid in serum by microbiological assay. Presented at the Southeast Meeting of the American Association of Clinical Chemistry (October, 1972).
19. Shaw, W. and Zemp, J.W. 1971 Effects of maternal folate deficiency on some aspects of neonatal brain development. Federation Proceedings 30(2): Abstract No. 260.

Books

1. Spierto, F. W., Knight, M., and Shaw, W. 1977. The role of federal testing programs in external and internal quality control of clinical radioassay. In Quality Control in Nuclear Medicine. Mosby Co., St. Louis, Missouri.
2. Nino, H.W., and Shaw, W. 1976. "Nutritional Biochemistry". In Fundamentals of Chemistry, Second Edition. W.B. Saunders Co., Philadelphia, Pennsylvania.
3. Shaw, W., Rimland, B., Seemon, B., Scott, P., and Seroussi, K. 1998. Biological Treatments for Autism and PDD. Sunflower Press. 9335 W 75 Overland Park, KS. 913 341-8949. First edition.
4. Shaw, W., Rimland, B., Seemon, B., Scott, P., and Seroussi, K. 2002. Biological Treatments for Autism and PDD. Sunflower Press. 9335 W 75 Overland Park, KS. 913 341-8949. Second edition.
5. Shaw, W. 2009. Autism, Beyond the Basics. Sunflower Press. 11813 W 77th St, Lenexa, KS 66214

Articles

1. Shaw W. Increased urinary excretion of a 3-(3-hydroxyphenyl)-3-hydroxypropionic acid (HPHPA), an abnormal phenylalanine metabolite of Clostridia spp. in the gastrointestinal tract, in urine samples from patients with autism and schizophrenia. NutrNeurosci. 2010 Jun;13(3):135-43.
2. Shaw, W. The unique vulnerability of the human brain to toxic chemical exposure and the importance of toxic chemical evaluation and treatment in orthomolecular psychiatry. J. of Orthomolecular Medicine Vol 25, No 3, 2010
3. Shaw, W. OVERVIEW OF ORGANIC ACID TESTING, A new generation of organic acid testing: pushing the limits of detection with new technology. Townsend Letter for Doctors. Jan 2011

4. Shaw, W., Kassen, E., and Chaves, E. Assessment of antifungal drug therapy in autism by measurement of suspected microbial metabolites in urine with gas chromatography-mass spectrometry. *Clinical Practice of Alternative Medicine*: 15-26,2000.
5. Shaw, W., Kassen, E., and Chaves, E. 1995. Increased urinary excretion of analogs of Krebs cycle metabolites and arabinose in two brothers with autistic features. *Clin. Chem.* 41(8): 1094-1104.
6. Shaw, W. 1988. Possible synergistic effects of nonesterified fatty acids and lysolecithins, a toxic methionine metabolite, and ammonia in the production of hepatic encephalopathy and schizophrenia. *Orthomolecular Medicine* 3: 87.
7. Shaw, W. 1985. Possible role of lysolecithins and nonesterified fatty acids in the pathogenesis of Reye's syndrome, sudden infant death syndrome, acute pancreatitis, and diabetic ketoacidosis. *Clin. Chem.* 31:1109.
8. Shaw, W., Long, G., and McHan, J. 1983. High performance liquid chromatography method for clonazepam in serum. *J. Anal Tox* 7:119.
9. Shaw, W. 1982. Theoretical and mathematical conditions of use of linearization methods for saturation-type radioassay data. *Clin. Chem.* 28(5): 1196.
10. Shaw, W. And McHan, J. 1981. Adaptation of EMIT procedures for maximum cost effectiveness of two different centrifugal analyzer systems. *Therapeutic Drug Monitoring* 3:185.
11. Hubert, I.L., Shaw, W., and Spierto, F.W. 1977. Factors affecting T3 and T4 proficiency testing. *Amer. J. Med. Tech.* 43:329.
12. Shaw, W., Smith, J., and Spierto, F.W. 1977. Linearization of data for saturation-type competitive protein binding assay and radioimmunoassay. *Clin. Chim. Acta* 76:15.
13. Spierto, F.W., and Shaw, W. 1977. Problems affecting radioimmunoassay procedures. *CRC Critical Reviews in Clinical Laboratory Science* 7:365.
14. Shaw, W., Powell, M.K., Hubert, I. L., and Spierto, F. W. 1976. A comparison of the interference of fatty acids in the competitive protein binding radioassay and radioimmunoassay for serum T4. *Clin. Chim. Acta* 73:25.
15. Shaw, W., Hubert, I. L., and Spierto, F. W. 1976. Optimization of T4 assay: A model study. *Clin. Chim. Acta* 76:15.
16. Shaw, W., Hubert, I.L., Skelley, D., and Spierto, F. W. 1975. Improvement of serum thyroxine competitive binding radioassay by kinetic analysis. Centers for Disease Control. Proficiency Testing Branch Publication.
17. Spierto, F. W., Hubert, I. L., and Shaw, W. 1974. An interlaboratory and intralaboratory comparison of T4 methodologies. *Clin. Chim. Acta.* 56:28.
18. Slade, B., Harrison, J., and Shaw, W. 1974. Effect of incubation time on folate values. *Amer. J. Clin. Path.* 61:74.
19. Shaw, W., and Bailey, G. 1974. Evaluation of two vitamin B12 assay kits and L.Leishmanni bioassay. *Clin. Biochem.* 7:320.
20. Shaw, W., Slade, B., Harrison, J., and Nino, H. 1974. Assay of serum folate: Differences in serum folate values obtained by L.casei bioassay and competitive protein-binding assay. *Clin. Biochem.* 7:165.
21. Harrison, J., Slade, B., and Shaw, W. 1973. Relationships among the urinary aminoimidazole-carboxamide in urine and folate, and vitamin B12 concentrations in serum. *Clin. Chem.* 19:1049.
22. Shaw, W., Schreiber, R., and Zemp, J. 1973. Perinatal folate deficiency: effects on developing brain in C57 BL/6J mice. *Nutr. Reports Int.* 8:229.
23. Schreiber, R., Shaw, W., and Zemp, J. 1973. The effects of folic acid deficiency on some aspects of development in DBA/2J and C57BL/6J mice. *Nutr. Reports Int.* 8:229.

Letters

1. Friesen, C., Bauer, M., Shaw, W., Burry, V., and Roberts, C. 1994. Urinary 5-HIAA unrelated to cystic fibrosis. *Chest* 106:1309.
2. Shaw, W. 1975. Albumin interference on digoxin radioimmunoassay. *Clin. Chem.* 21:636.
3. Shaw, W. 1974. *Blood* 43:312.
4. Shaw, W., 1974. Folate radioassay. *Clin. Chem.* 20:87.
5. Shaw, W., 1973. Radioassay of serum folate: some criticisms. *Clin. Chem.* 19: 281.

ELIZABETH R. VAUGHAN, M.D.

1301A West Wendover Avenue Greensboro, NC 27408 Email: info@vaughanintegrative.com Website: www.vaughanintegrative.com

Education University of Virginia School of Medicine, Charlottesville, Virginia. M.D. 1975-1979 Duke University College of Arts and Sciences, Durham, North Carolina. B.A. 1971-1975. *Magna cum laude* with Distinction in Chemistry

Graduate Training Internal Medicine Residency: Southwestern Michigan Area Health Education Center, Kalamazoo, Michigan 1980-1982 Flexible Internship: Southwestern Michigan Area Health Education Center, Kalamazoo, Michigan 1979-1980

Certifications Diplomat: American Board of Integrative and Holistic Medicine 2008 Diplomat: American Board of Clinical Metal Toxicology 2008 Diplomat: American Board of Emergency Medicine 1989; Recert 1999 Diplomat: American Board of Internal Medicine 1982 Diplomat: National Board of Medical Examiners 1979

Professional Activities Primary Care and Management: Vaughan Integrative Medicine, formerly Vaughan Medical Center, Greensboro NC - Founder and CEO 2002-Present Medical Director of Natural Triad Magazine 2007-Present Primary Care and Management: Vaughan Medical Center, Martinsville VA - Founder and CEO 1991-2002 Emergency Medicine and Management: Memorial Hospital of Martinsville and Henry County Martinsville, Virginia, 1986-1990

Director, Department of Emergency Medicine 1989 Emergency Medicine: Lexington Memorial Hospital, Lexington, North Carolina 1984-1986 Emergency Medicine: Twin County Community Hospital, Galax, Virginia 1982-1984

Professional Societies Member: International College of Integrative Medicine 2008-present Member: North Carolina Integrative Medical Society 2006-present, Member of Board 2010-2012 Member: American Board of Clinical Metal Toxicology 2004-present Member: Institute of Functional Medicine 2002-2007 Fellow: American Academy of Emergency Medicine 1997-2007 Fellow: American College of Emergency Physicians 1989-1997 Member: Greensboro Society of Medicine 2003-present Member: North Carolina Medical Society 2003-present Officer, Member: Patrick Henry Medical Society 1986-2002 Member: Virginia Medical Society 1982-2002

Secretary, Member: Medical Staff, Memorial Hospital of Martinsville and Henry County 1986-1991

Licenses Commonwealth of Virginia 7/1/82-2005 State of North Carolina 3/17/84-present

Continuing Medical Education International Lyme and Associated Disease Society Course 2010 North Carolina Integrative Medical Society Courses 2010 American Board of Integrative and Holistic Medicine Review Course 2008 International College of Integrative Medicine Courses 2008, 2009, 2010 Anti-Aging Conference, American Academy for the Advancement of Medicine 2006 Environmental Medicine, Southwest College Naturopathic Medicine 2005 Clinical Metal Toxicology, American Board of Clinical Metal Toxicology 2004 Applying Functional Medicine in Clinical Practice, Institute of Functional Medicine, 2002 Diagnosis and Treatment of Food Allergies: American Academy of Environmental Medicine 2002 Clinical Nutrition for the Practicing Physician: American Academy of Environmental Medicine 2002 Integrative Medicine: Duke University Medical Center and University of Arizona Health Science Center 1999 Osteopathic medicine: OPP/Anatomy CME Series, WV School of Osteopathic Medicine, various courses 1996-2000 Many other studies in traditional and alternative medical disciplines

Interests, Medical Prevention of illness • Nutritional therapy • Alternative Medicine • Functional Medicine • Autoimmune disorders • Irritable Bowel Syndrome • Sexual health in men and women • Fitness • Weight control • Women's health • Anti-accelerated aging • Food sensitivities • Heavy metal toxicity • Detoxification • Metabolic Syndrome

Interests, Personal Ballroom dancing • Healthy international cuisines and cooking • Hiking • Flower gardening • Jazz and classical music • Travel • Meditation

Awards, Recognitions, Appearances and Charitable Activities (partial listing) Member, Women's Professional Forum, Greensboro, 2005-2008 Hundreds of speeches to civic clubs and other organizations, 1985-2010 United Arts Council, Greensboro, 2005-2007

Martinsville Men's Roundtable Community Service Award 2000 Martinsville Virginia's Outstanding Citizen Award 1999 Chair, Health Care Summit, Patrick Henry Community College 1996

Broadcast Television: Presently a regular guest on WGHP Fox 8 TV Morning News High Point, NC • Anchor, Heartbeat, Martinsville Cable 6 TV 1991-1992 Radio: Anchor, Healthy Advice, WHEE Radio 1991-1993 • Numerous talk shows and on-air interviews nationally, 1991-present

Print: Feature articles, Natural Triad Magazine, Greensboro, NC • Edited Preparing for the Written Board Exam in

Emergency Medicine with Carol S. Rivers, et. al. 1992

FREDERICK WHITMEYER, BS in Engineering, MBA

Mr. Whitmeyer has been an engineer, academician, and entrepreneur. As an academician, Mr. Whitmeyer served on the business faculties of LSU at Lafayette, Boston College and Wake Forest University. He also studied the management of health services as a Research Associate at Harvard Business School.

As an entrepreneur, he founded a computer software company and managed it for the better part of two decades. Mr. Whitmeyer now is a Medical Practice and Business consultant, Team Trainer and Executive Coach.

Kathleen Williams

184 Lystra Estates Drive Chapel Hill, North Carolina 27517 (919) 933-0584

April 5, 1950, Elizabeth, NJ Married to Michael C. Sharp, MD, 4 children, 2 grandchildren

Education

B.A., Highest Honors, Spanish, 1988, UNC-Chapel Hill Integrative Health Coach Professional Training Program, Duke Integrative Medicine, Spring, 2010 Integrative Health Coach Certification Program, Duke Integrative Medicine, August, 2011 Mindfulness Based Stress Reduction, Duke Integrative Medicine, Fall 2010 First Line Therapy Lifestyle Education program, Metagenics, May 2009

Employment

- Integrative Health Coach and Lifestyle Educator, Michael Sharp, MD, 2009-present
- Practice administrator, Michael Sharp, MD, August 2008 to present
- Administrative Director, Plum Spring Clinic for Integrative Medical Care, Chapel Hill, NC , January 2001- August 2008
- Department Administrator, Duke University Departments of Electrical Engineering, Computer Science, and Graduate School, 1990-2001 Certification
- Integrative Health Coach, Duke Integrative Medicine