

Heather M. Snyder Ph.D.

heathersnyder1@me.com

Executive Director in Clinical Research and Development Central Nervous System

Seasoned clinical researcher with over 20 years of experience in psychiatric, neurological, and cognitive therapeutic areas. Over 14 years of leadership roles in pharmaceutical Central Nervous System (CNS) clinical research and development; strong job history with early success, and consequent rapid advancement. Positions within leading pharmaceutical companies, including Astra, Cephalon & Merck, afforded opportunities to acquire stellar experience in drug development across many neurological and psychiatric indications. Previous 10 years dedicated to university and hospital based research & clinical treatment for respective patient populations. Specialty fellowship clinical/research training with neuropsychiatric conditions in pediatrics. Published author in scientific journals including Neurology, Journal of Clinical Psychiatry, & Journal of Clinical & Experimental Neuropsychology. A polished and professional presenter, trainer, and mentor.

Extensive experience in pharmaceutical clinical development program leadership to include: creation of strategic clinical development plans, management of all development partnerships (e.g., international joint project teams, clinical research organizations, academic consortia, NIH), responsibility for protocol design, study implementation, data interpretation, and publication of results.

Clinical research experience extends across the following indications: Pediatric Traumatic Brain Injury, Attention Deficit Hyperactivity Disorder, Schizophrenia, Multiple Sclerosis, Parkinson's Disease, Amyotrophic Lateral Sclerosis, Alzheimer's Disease, Pain (Opioid Tolerant & Neuropathic), Major Depression, Generalized Anxiety Disorder, Post-traumatic Stress Disorder, and Sleep Disorders.

Excellent qualifications across a diverse set of functions:

- Lead for Strategic Planning and Execution of Multiple CNS Development Programs
- Therapeutic Expertise Across Neurological & Psychiatric Conditions
- Lead for Conduct of International Scientific Advisory Boards; for Collaborations with Key Opinion Leaders (KOL), Scientific Consultants, Data Safety Committee Members, Advisory Board Members
- Primary Liaison with FDA & NIH
- Lead for Joint International Development Partnerships
- Specialty in Clinical Neuropsychology, Especially Pediatric Acquired & Traumatic Brain Injury; Speciality in Assessments Utilized in CNS Research
- Lead Author for Scientific Publications
- Project Leader for Multiple Matrix (multi-disciplinary) & Clinical Teams
- Supervision of Directors, Associate Directors, & Senior Trial Managers.

EDUCATION

Post Doctoral Fellowship	Neuropsychology & Pediatric Psychology University of Pennsylvania School of Medicine, Philadelphia PA	1996 - 1997
Ph.D., Clinical Psychology	George Mason University, Fairfax VA	1996
M.A., Clinical Psychology	George Mason University, Fairfax VA	1992
B.A., Philosophy/Psychology	Georgetown University, Washington DC	1986

PROFESSIONAL EXPERIENCE (Pharmaceutical)

<u>HOFFMAN-LA ROCHE, INC., Nutley NJ</u>	2010 - present
<u>JOHNSON & JOHNSON, INC., Titusville NJ</u>	
<u>Start Up Companies re: CNS Trial Execution</u>	

Independent Consultant: Pharmaceutical Based Clinical Research in the Neurosciences

- Provide scientific and clinical expertise to Schizophrenia and Sleep Development Programs for Proof-of-Concept & Phase III program planning and design, respectively
- Provide expertise in Neuropsychology for choice of experimental measures to assess cognitive skills
- Provide clinical assessment expertise towards the enhancement of global clinical trial methodological standardization; improvement of sensitivity and precision in CNS trials; capture standard data points internationally to support outcomes research
 - implement certification processes to ensure qualification/training of raters and selection of valid trial subjects
 - provide management and oversight for execution of certification/validation processes across 17 national programs
 - coordinate global processes through partnerships with expert clinicians

<u>YAUPON THERAPEUTICS, INC., Radnor PA</u>	2008 - 2009
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Executive Director, Clinical Research and Development; Central Nervous System Programs

Reporting directly to CEO & Executive Vice President of Clinical and Regulatory Departments, solely responsible for all aspects of strategy, protocol design, execution, and oversight for clinical development of all compounds in CNS franchise.

- Provided strategic input and status updates for all CNS compounds at senior management and company board meetings; Phases I and II
- Provided oversight for operational parameters respective to each development program
- Led communication with FDA and NIH divisions, as well as academic institutions, respective to strategic development, and logistical implementation, of all CNS compound indications
- Identified and consulted with expert thought leaders for input across all therapeutic indications
- Coordinated multi-disciplinary input, with sole responsibility for all clinical input, to IND submission
- Located sources of grant funding, and served as primary author for FDA and NIH submissions

CEPHALON, INC., Frazer PA

2001 – 2007

Director, Clinical Research and Development, Neurology & Psychiatry Programs

Reporting directly to Vice President of Clinical Research Department, responsible for all aspects of strategic clinical development programs (up to 5) across multiple neurological, psychiatric, and neurocognitive therapeutic indications (Phase IIa through Phase IV).

- Created and led International Scientific Advisory Board Meetings, comprised of key opinion leaders (KOLs) and senior management, to discuss comprehensive regulatory and clinical strategic issues, as well as specific protocol design parameters; served as primary liaison with KOLs for consultation throughout study implementation, data interpretation and publication of study results; professionally represented Cephalon, Inc. with KOLs at scientific meetings
- Provided oversight for operational execution of multiple trials across programs; management of all vendor and partner relationships
- Elected as member of Senior Program Oversight Committees and Business Strategy Teams; Led joint international project teams, internal multi-disciplinary project teams, and clinical project teams
- Acted as primary clinical liaison with FDA, NIH, international industry partners, external academic consortiums, & contract research organizations
- Comprised Data Safety Monitoring Board Committees and, as committee clinical member, was primary lead for coordination of all related activities
- Led National Investigator and Data Review Meetings
- Managed multiple directors/associate directors, clinical trial managers, and clinical research assistants
- Maintained responsibility for medical monitoring, ensuring compliance with FDA/ICH guidelines, and corporate SOPs

MERCK & CO. & ASTRA-MERCK, Blue Bell & Wayne

1997– 2001

Clinical Associate, Clinical Research & Development, Neuroscience & Psychiatry (2000-2001)**Clinical Project Team Lead, Central Nervous System Research & Development (1997-1999)**

In conjunction with Clinical Medical Directors, managed life cycle development for multiple early phase compounds as Lead Clinical Scientist and Cross-Functional Project Team Lead; responsible for submission of joint international IND submission.

- Developed and implemented Advisory Board meetings to create clinical development plans, study designs, and strategic analysis of market potential for several compounds and therapeutic indications
- Worked closely over time with key thought leaders in Psychiatry and Alzheimer's Disease to critique and revise strategic clinical development plans, and to address challenges to study implementation
- Led critique and choice of cognitive outcome measures for Alzheimer's Disease protocol
- Served as project leader for coordination of all operational aspects of development throughout compounds' life cycles

PROFESSIONAL EXPERIENCE (ACADEMICALLY BASED)

<u>MAIN LINE EDUCATIONAL SERVICES, Rosemont PA</u>	1997
Clinical Psychologist <i>Clinical psychologist in a private practice. Conducted pediatric neuropsychological assessments.</i>	
<u>NORTHERN VIRGINIA PSYCHIATRIC GROUP, P.C. Fairfax VA</u>	1993-1994
Psychological Associate <i>Conducted neuropsychological assessments; specialized in ADHD.</i>	
<u>GEORGE MASON UNIVERSITY PSYCHOLOGICAL CLINIC, Fairfax Virginia</u>	1991-1994
Assistant Director <i>Supervised and managed all clinic activities; conducted psychological assessments</i>	
<u>CHILDREN'S NATIONAL MEDICAL CENTER (Hospital), Washington D.C.</u>	1986-1995
Numerous Positions <i>Worked in several clinical research capacities with increasing responsibility at Children's National Medical Center. As a Research Assistant in the Department of Psychiatry, participated in NIH funded study of psychological profiles for chronically ill adolescents' (neurological conditions) transitions to adulthood; As a Clinical Research Specialist in the Emergency Trauma Services Department, conducted an NIH funded study of children with traumatic brain injuries that entailed coordinated working collaborations with multi-disciplinary experts across several hospital departments (e.g. neurology, psychiatry, speech pathology, internal medicine). Throughout graduate school training, continued to conduct increasingly independent research activities as a Clinical Research Consultant.</i>	

ACADEMIC APPOINTMENTS

Adjunct Clinical Assistant Professor of Psychology, Department of Psychiatry University of Pennsylvania, Philadelphia PA	1998-2002
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PROFESSIONAL MEMBERSHIPS

American Society for Experimental Neurotherapeutics, Inc.	1999-present
Anxiety Disorders Association of America	2003-present
International Society for CNS Clinical Trials & Methodology	2005-present

LICENSE

Pennsylvania Psychology Board License # PS-008566-L	1997
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ACADEMIC AND PROFESSIONAL HONORS

Summa cum Laude, Georgetown University	1986
Phi Beta Kappa, Georgetown University	1986
Fellowship Award, George Mason University	1990-1993
Honors Commendation for Doctoral Comprehensive Exams, George Mason University	1992

SCIENTIFIC PUBLICATIONS

- The Parkinson Study Group PRECEPT Investigators, Snyder, H., Ondrasik, J., Brown, C., Kingsbury, L., Russell, L., (2007). The mixed lineage kinase inhibitor CEP-1347 fails to delay disability in early Parkinson's disease. Neurology, 69, 1480-1490.
- Pollack, M., Roy-Bryne, P., Van Ameringen, M., Snyder, H., Brown, C., Ondrasik, J., Rickels, K. (2005). The selective GABA reuptake inhibitor (SGRI) tiagabine for the treatment of generalized anxiety disorder: Results of a placebo-controlled study. Journal of Clinical Psychiatry, 66 (11), 1401-1408.
- Papero, P, Snyder, H., Gotschall, C. and Eichelberger, M. (1997). The relationship of two measures of injury severity to pediatric psychological outcome one to three years following acute head injury: A preliminary study. Journal of Head Trauma and Rehabilitation, 12 (3), 51-67.
- Gotschall, C., Papero, P., Snyder, H., Johnson D. and Eichelberger, M. (1995). Comparison of three measures of injury severity in children with traumatic brain injury. Journal of Neurotrauma, 12 (4), 611-619.
- Papero, P., Prigatano, G.P., Snyder, H., and Johnson, D. (1993). Children's adaptive behavioral competence after head injury. Neuropsychological Rehabilitation, 3 (4), 321-340.
- Papero, P., Prigatano, G.P. & Snyder, H. (1991). The effects of age, severity, and chronicity on children's adaptive behavioral competence. Journal of Clinical and Experimental Neuropsychology, 13, 431.
- Snyder, H.M. (1990). Speech and language assessment of brain-injured children. In Eichelberger, M. and Ball, J. (Eds), EMSC: Assessment battery for the brain injured child, Washington, D.C.: Children's National Medical Center.
- Snyder, H.M. (1990). Psychosocial assessment of brain-injured children. In Eichelberger, M. and Ball, J. (Eds), EMSC: Assessment battery for the brain injured child, Washington, D.C.: Children's National Medical Center.

CHILDREN'S BOOK – Pediatric Brain Injury

Snyder, H.M., Elvin, the Elephant that Forgets. Illustrated by Susan Beebe. Published by Lash & Associates Publishing/Training Inc., First Edition 1998; Second Edition, 2005. ISBN 1-931117-04-7. Pediatric book to assist young children with their psychological adjustment to cognitive and emotional sequelae from traumatic brain injuries.

PRESENTATIONS

Snyder, H. (2002). **Overview of DSM-IV Anxiety Disorders: Neurobiology, Clinical Profile, and Current Treatments**; Cephalon, Inc.

Snyder, H. (1999). **Separation Anxiety and Panic Disorder in the Prepubertal Child**. University of Pennsylvania School of Medicine; Department of Child and Adolescent Psychiatry.

Snyder, H. (1997). **Traumatic Brain Injury and Psychiatric Sequelae**. Bancroft Rehabilitation Services; Special Topic Multidisciplinary Rounds.

Snyder, H. (1996). **The Role of Parent and Teacher Behavioral Attributions in the Psychosocial Adjustment of Children with Mild Brain Injuries**. Children's Seashore House, Pediatric Division; Philadelphia Neuropsychological Society.

Snyder, H., Maddux, J. and Denham, S. (April 1995, Poster Presentation). **The Role of Self-concept in Children's Adjustment to Traumatic Brain Injury**. Fifth Florida Conference on Child Health Psychology, Gainesville, Florida.

Gotschall, C., Papero, P., Snyder, H., Johnson, D., and Eichelberger, M. **Predication of long-term neuropsychological outcome in children with traumatic brain injury by three measures of severity**; Invited paper; presented at Head Injury 1994 International Symposium on Head Injury Research, United States Department of Transportation; National Highway Safety Control. Sponsored by The George Washington University Center for Engineering and Applied Sciences.

Snyder, H. (1994). **Predictors of Adjustment in the Traumatically Brain-injured Child**. Newington Children's Hospital; Topics in Pediatric Health - Rounds.

Snyder, H. (1988). **Administering Psychosocial Assessments to Traumatically Brain Injured Children and their Families**. Children's National Medical Center; Emergency Trauma Services.

Snyder, H. (1987). **Overview of Spina Bifida**. Children's National Medical Center; Department of Psychiatry.

PROFESSIONAL TRAINING

February, 2006. International Society for CNS Clinical Trials and Methodology, Second Annual Scientific Congress. New Designs and Regulatory Opportunities: **Drug Development for Parkinson's Disease (PD) Motor Control and Beyond, Defining Dose for Psychopharmacological Agents in Early Development, Cognition in PD and Schizophrenia**.

March, 2004. American Society for Experimental NeuroTherapeutics. Bakshi, R & Walton, M. **Neuroimaging as an Outcome Measure**.

March, 2004. American Society for Experimental Neurotherapeutics. National Institute of Neurological Disorders and Stroke. **Genetic Testing for Parkinson's Disease and Related Disorders**.

May, 2001. American Academy of Neurology. Morris, J. **Alzheimer's Therapy**.

May, 2000. Institute for International Research. CNS Clinical Trials and Drug Development: **Strategies for Improving Clinical Trial Design and Conduct for Successful CNS Drug Development**

Professional Training, continued:

May, 2000. American Psychiatric Association. Janicak, P. ***Drug Treatment for Schizophrenia.***

May, 1999. American Psychiatric Association. Popper, C. ***Practical Techniques in Child and Adolescent Psychopharmacology.***

March, 1999. Emory University. Nemeroff, C. ***Preceptorship in Neuropsychopharmacology.***

June, 1998. American Psychiatric Association. Coffey, E & Cummings J. ***Advances in Neuropsychiatry.***