International Consensus Statement on ADHD

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We, the undersigned consortium of international scientists, are deeply concerned about the periodic inaccurate portrayal of attention deficit hyperactivity disorder (ADHD) in media reports. This is a disorder with which we are all very familiar and toward which many of us have dedicated scientific studies if not entire careers. We fear that inaccurate stories rendering ADHD as myth, fraud, or benign condition may cause thousands of sufferers not to seek treatment for their disorder. It also leaves the public with a general sense that this disorder is not valid or real or consists of a rather trivial affliction.

We have created this consensus statement on ADHD as a reference on the status of the scientific findings concerning this disorder, its validity, and its adverse impact on the lives of those diagnosed with the disorder as of this writing (January 2002).

Occasional coverage of the disorder casts the story in the form of a sporting event with evenly matched competitors. The views of a handful of nonexpert doctors that ADHD does not exist are contrasted against mainstream scientific views that it does, as if both views had equal merit. Such attempts at balance give the public the impression that there is substantial scientific disagreement over whether ADHD is a real medical condition. In fact, there is no such disagreement—at least no more so than there is over whether smoking causes cancer, for example, or whether a virus causes HIV/AIDS.

The U.S. Surgeon General, the American Medical Association, the American Psychiatric Association, the American Academy of Child and Adolescent Psychiatry, the American Psychological Association, and the American Academy of Pediatrics, among others, all recognize ADHD as a valid disorder. Although some of these organizations have issued guidelines for evaluation and management of the disorder for their membership, this is the first consensus statement

Address all correspondence to Russell A. Barkley, PhD, Department of Psychiatry and Neurology, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, Massachusetts 01655; e-mail: barkleyr@ummhc.org.

issued by an independent consortium of leading scientists concerning the status of the disorder. Among scientists who have devoted years, if not entire careers, to the study of this disorder there is no controversy regarding its existence.

ADHD and Science

We cannot overemphasize the point that, as a matter of science, the notion that ADHD does not exist is simply wrong. All of the major medical associations and government health agencies recognize ADHD as a genuine disorder because the scientific evidence indicating it is so overwhelming.

Various approaches have been used to establish whether a condition rises to the level of a valid medical or psychiatric disorder. A very useful one stipulates that there must be scientifically established evidence that those suffering the condition have a serious deficiency in or failure of a physical or psychological mechanism that is universal to humans. That is, all humans normally would be expected, regardless of culture, to have developed that mental ability.

And there must be equally incontrovertible scientific evidence that this serious deficiency leads to harm to the individual. Harm is established through evidence of increased mortality, morbidity, or impairment in the major life activities required of one's developmental stage in life. Major life ctivities are those domains of functioning such as education, social relationships, family functioning, independence and self-sufficiency, and occupational functioning that all humans of that developmental level are expected to perform.

As attested to by the numerous scientists signing this document, there is no question among the world's leading clinical researchers that ADHD involves a serious deficiency in a set of psychological abilities and that these deficiencies pose serious harm to most individuals possessing the disorder. Current evidence indicates that deficits in behavioral inhibition and sustained attention are central to this

disorder—facts demonstrated through hundreds of scientific studies. And there is no doubt that ADHD leads to impairments in major life activities, including social relations, education, family functioning, occupational functioning, self-sufficiency, and adherence to social rules, norms, and laws. Evidence also indicates that those with ADHD are more prone to physical injury and accidental poisonings. This is why no professional medical, psychological, or scientific organization doubts the existence of ADHD as a legitimate disorder.

The central psychological deficits in those with ADHD have now been linked through numerous studies using various scientific methods to several specific brain regions (the frontal lobe, its connections to the basal ganglia, and their relationship to the central aspects of the cerebellum). Most neurological studies find that as a group those with ADHD have less brain electrical activity and show less reactivity to stimulation in one or more of these regions. And neuro-imaging studies of groups of those with ADHD also demonstrate relatively smaller areas of brain matter and less metabolic activity of this brain matter than is the case in control groups used in these studies.

These same psychological deficits in inhibition and attention have been found in numerous studies of identical and fraternal twins conducted across various countries (US, Great Britain, Norway, Australia, etc.) to be primarily inherited. The genetic contribution to these traits is routinely found to be among the highest for any psychiatric disorder (70–95% of trait variation in the population), nearly approaching the genetic contribution to human height. One gene has recently been reliably demonstrated to be associated with this disorder and the search for more is underway by more than 12 different scientific teams worldwide at this time.

Numerous studies of twins demonstrate that family environment makes no significant separate contribution to these traits. This is not to say that the home environment, parental management abilities, stressful life events, or deviant peer relationships are unimportant or have no influence on individuals having this disorder, as they certainly do. Genetic tendencies are expressed in interaction with the environment. Also, those having ADHD often have other associated disorders and problems, some of which are clearly related to their social environments. But it is to say that the underlying psychological deficits that comprise ADHD itself are not solely or primarily the result of these environmental factors.

This is why leading international scientists, such as the signers below, recognize the mounting evidence of neurological and genetic contributions to this disorder. This evidence, coupled with countless studies on the harm posed by the disorder and hundreds of studies on the effectiveness of medication, buttresses the need in many, though by no means all, cases for management of the disorder with multiple therapies. These include medication combined with educational, family, and other social accommodations. This is in striking contrast to the wholly unscientific views of some social critics in periodic media accounts that ADHD constitutes a fraud, that medicating those afflicted is questionable if not reprehensible, and that any behavior problems associated with ADHD are merely the result of problems in the home, excessive viewing of TV or playing of video games, diet, lack of love and attention, or teacher/school intolerance.

ADHD is not a benign disorder. For those it afflicts, ADHD can cause devastating problems. Follow-up studies of clinical samples suggest that sufferers are far more likely than normal people to drop out of school (32-40%), to rarely complete college (5–10%), to have few or no friends (50–70%), to underperform at work (70–80%), to engage in antisocial activities (40–50%), and to use tobacco or illicit drugs more than normal. Moreover, children growing up with ADHD are more likely to experience teen pregnancy (40%) and sexually transmitted diseases (16%), to speed excessively and have multiple car accidents, to experience depression (20-30%) and personality disorders (18–25%) as adults, and in hundreds of other ways mismanage and endanger their lives.

Yet despite these serious consequences, studies indicate that less than half of those with the disorder are receiving treatment. The media can help substantially to improve these circumstances. It can do so by portraying ADHD and the science about it as accurately and responsibly as possible while not purveying the propaganda of some social critics and fringe doctors whose political agenda would have you and the public believe there is no real disorder here. To publish stories that ADHD is a fictitious disorder or merely a conflict between today's Huckleberry Finns and their caregivers is tantamount to declaring the earth flat, the laws of gravity debatable, and the periodic table in chemistry a fraud. ADHD should be depicted in the media as realistically and accurately as it is depicted in science—as a valid disorder having varied and substantial adverse impact on those who may suffer from it through no fault of their own or their parents and teachers.

Sincerely,

Russell A. Barkley, PhD

Professor

Departments of Psychiatry and Neurology University of Massachusetts Medical School 55 Lake Avenue North Worcester, MA 01655

Edwin H. Cook, Jr, MD

Professor

Departments of Psychiatry and Pediatrics

University of Chicago 5841 S. Maryland Avenue Chicago, IL

Adele Diamond, PhD Professor of Psychiatry

Director, Center for Developmental Cognitive

Neuroscience

University of Massachusetts Medical School

Shriver Center, Trapelo Road

Waltham, MA

Alan Zametkin, MD Child Psychiatrist Kensington, MD

Anita Thapar, MB BCh, MRCPsych, PhD Professor, Child and Adolescent Psychiatry Section

Department of Psychological Medicine University of Wales College of Medicine

Heath Park, Cardiff CF14 4XN, United Kingdom

Ann Teeter, EdD

Director of Training, School of Psychology University of Wisconsin – Milwaukee Milwaukee, WI 53201

Arthur D. Anastopoulos, PhD

Professor, Co-Director of Clinical Training

Department of Psychology

University of North Carolina at Greensboro

P. O. Box 26164

Greensboro, NC 27402-6164

Avi Sadeh, DSc

Director, Clinical Child Psychology Graduate

Program

Director, The Laboratory for Children's Sleep

Disorders

Department of Psychology

Tel-Aviv University

Ramat Aviv, Tel Aviv 69978

Israel

Bennett L. Leventhal, MD

Irving B. Harris

Professor of Child and Adolescent Psychiatry Director, Child and Adolescent Psychiatry Vice Chairman, Department of Psychiatry

The University of Chicago 5841 S. Maryland Ave. Chicago, IL 60637

Betsy Hoza, PhD Associate Professor

Department of Psychology, #1364

Purdue University

West Lafayette, IN 47907-1364

Blythe Corbett, PhD M.I.N.D. Institute

University of California, Davis 4860 Y Street, Suite 3020 Sacramento, CA 95817

Brooke Molina, PhD

Assistant Professor of Psychiatry and Psychology

Western Psychiatric Institute and Clinic University of Pittsburgh School of Medicine

3811 O'Hara Street Pittsburgh, PA 15213

Bruce Pennington, PhD

Professor

Department of Psychology University of Denver 2155 South Race Street Denver, CO 80208

Carl E. Paternite, PhD Professor of Psychology Miami University Oxford, OH 45056

Carol Whalen, PhD

Professor

Department of Psychology and Social Behavior

University of California at Irvine

3340 Social Ecology II Irvine, CA 02215 Caryn Carlson, PhD

Professor

Department of Psychology University of Texas at Austin

Mezes 330 Austin, TX 78712

Charlotte Johnston, PhD

Professor

Department of Psychology University of British Columbia

2136 West Mall

Vancouver, BC, Canada V6T 1Z4

Christopher Gillberg, MD

Professor

Department of Child and Adolescent Psychiatry

University of Gothenburg Gothenburg, Sweden

Cynthia Hartung, PhD Assistant Professor Oklahoma State University 215 North Murray

Stillwater, OK 74078

Daniel A. Waschbusch, PhD Assistant Professor of Psychology Director, Child Behaviour Program Department of Psychology

Dalhousie University

Halifax, Canada NS, B3H 4R1

Daniel F. Connor, MD
Associate Professor
Department of Psychiatry
University of Massachuset

University of Massachusetts Medical School

55 Lake Avenue North Worcester, MA 01655

Deborah L. Anderson, PhD

Assistant Professor Department Pediatrics

Medical University of South Carolina

Charleston, SC 29425

Donald R. Lynam, PhD Associate Professor Department of Psychology University of Kentucky 125 Kastle Hall

Lexington, KY 40506-0044

Eric J. Mash, PhD

Professor

Department of Psychology University of Calgary 2500 University Drive N.W. Calgary, Alberta T2N 1N4

Eric Taylor

Professor of Psychiatry Institute of Psychiatry London, England

Erik Willcutt, PhD Assistant Professor

Department of Psychology Muenzinger Hall D-338

345 UCB

University of Colorado Boulder, CO 80309

Florence Levy, MD

Associate Professor, School of Psychiatry

University of New South Wales

Avoca Clinic Joynton Avenue

Zetland, NSW 2017, Australia

Gabrielle Carlson, MD Professor and Director

Division of Child and Adolescent Psychiatry State University of New York at Stony Brook

Putnam Hall

Stony Brook, NY 11794

George J. DuPaul, PhD

Professor of School Psychology

Lehigh University

111 Research Drive, Hilltop Campus

Bethlehem, PA 18015

Harold S. Koplewicz, MD

Arnold and Debbie Simon Professor of Child and

Adolescent

Psychiatry and Director of the NYU Child Study

Center, New York 10016

Hector R. Bird, MD

Professor of Clinical Psychiatry

Columbia University

College of Physicians and Surgeons 1051 Riverside Drive (Unit 78)

New York, NY 10032

Herbert Quay, PhD Professor Emeritus University of Miami 2525 Gulf of Mexico Drive, #5C Long Boat Key, FL 34228

Howard Abikoff, PhD
Pevaroff Cohn Professor of Child and Adolescent
Psychiatry, NYU School of Medicine
Director of Research, NYU Child Study Center

550 First Avenue New York, NY 10016

J. Bart Hodgens, PhD

Clinical Assistant Professor of Psychology and Pediatrics

Civitan International Research Center University of Alabama at Birmingham Birmingham, AL 35914

James J. McGough, MD Associate Professor of Clinical Psychiatry UCLA School of Medicine 760 Westwood Plaza Los Angeles, CA 90024

Jan Loney, PhD Professor Emeritus State University of New York at Stony Brook Lodge Associates (Box 9) Mayslick, KY 41055

Jeffrey Halperin, PhD Professor, Department of Psychology Queens College, CUNY 65-30 Kissena Avenue Flushing, NY 11367

John Piacentini, PhD Associate Professor Department of Psychiatry UCLA Neuropsychiatric Institute 760 Westwood Plaza Los Angeles, CA 90024-1759

John S. Werry, MD Professor Emeritus Department of Psychiatry University of Auckland Auckland, New Zealand

Jose J. Bauermeister, PhD Professor, Department of Psychology University of Puerto Rico San Juan, PR 00927 Joseph Biederman, MD Professor and Chief Joint Program in Pediatric Psychopharmacology Massachusetts General Hospital and Harvard Medical School 15 Parkman Street, WACC725 Boston, MA 02114

Joseph Sergeant, PhD Chair of Clinical Neuropsychology Free University Van der Boecharst Straat 1 De Boelenlaan 1109 1018 BT Amsterdam, The Netherlands

Keith McBurnett, PhD Associate Professor, Department of Psychiatry University of California at San Francisco Children's Center at Langley Porter 401 Parnassus Avenue, Box 0984 San Francisco, CA 94143

Ken C. Winters, PhD Associate Professor and Director, Center for Adolescent Substance Abuse Research Department of Psychiatry University of Minnesota F282/2A West, 2450 Riverside Avenue Minneapolis, MN 55454

Kevin R. Murphy, PhD Associate Professor Department of Psychiatry University of Massachusetts Medical School 55 Lake Avenue North Worcester, MA 01655

Laurence Greenhill, MD
Professor of Clinical Psychiatry
Columbia University
Director, Research Unit on Pediatric
Psychopharmacology
New York State Psychiatric Institute
1051 Riverside Drive
New York, NY 10032

Lawrence Lewandowski, PhD Meredith Professor of Teaching Excellence Department of Psychology Syracuse University Syracuse, NY Lily Hechtman MD, FRCP

Professor of Psychiatry and Pediatrics, and Director of Research, Division of Child Psychiatry

McGill University and Montreal Children's Hospital

4018 St. Catherine St. West

Montreal, Quebec, Canada H3Z-1P2

Linda Pfiffner, PhD

Associate Professor, Department of Psychiatry University of California at San Francisco Children's Center at Langley Porter 401 Parnassus Avenue, Box 0984 San Francisco, CA 94143

.

Lisa L. Weyandt, PhD

Professor, Department of Psychology Central Washington University

400 East 8th Avenue

Ellensburg, WA 98926-7575

Marc Atkins, PhD Associate Professor Department of Psychiatry Institute for Juvenile Research University of Illinois at Chicago 840 South Wood Street, Suite 130

Chicago, IL 60612-7347

Margot Prior, PhD

Professor

Department of Psychology Royal Children's Hospital Parkville, 3052 VIC

Australia

Mark A. Stein, PhD Chair of Psychology

Children's National Medical Center Professor of Psychiatry and Pediatrics

George Washington University Medical School

111 Michigan Avenue NW Washington, DC 20010

Mark D. Rapport, PhD

Professor and Director of Clinical Training

Department of Psychology University of Central Florida

P. O. Box 161390

Orlando, Florida 32816-1390

Mariellen Fischer, PhD

Professor, Department of Neurology Medical College of Wisconsin 9200 W. Wisconsin Avenue Milwaukee, WI 53226 Mary A. Fristad, PhD, ABPP

Professor, Psychiatry and Psychology

Director, Research and Psychological Services Division of Child and Adolescent Psychiatry

The Ohio State University 1670 Upham Drive Suite 460G Columbus, OH 43210–1250

Mary Solanto-Gardner, PhD

Associate Professor

Division of Child and Adolescent Psychiatry

The Mt. Sinai Medical Center One Gustave L. Levy Place New York, NY 10029–6574

Michael Aman, PhD

Professor of Psychology and Psychiatry

The Nisonger Center Ohio State University 1581 Dodd Drive Columbus, OH

Michael Gordon, PhD Professor of Psychiatry

Director, Child & Adolescent Psychiatric Services,

and Director, ADHD Program SUNY Upstate Medical University

750 East Adams Street Syracuse, NY 13210 Michelle DeKlyen, PhD

Office of Population Research Princeton University

286 Wallace

Princeton, NJ 08544

Mina Dulcan, MD

Professor

Department of Child and Adolescent Psychiatry

2300 Children's Plaza #10 Children's Memorial Hospital

Chicago, IL 60614

Oscar Bukstein, MD Associate Professor Department of Psychiatry

Western Psychiatric Institute and Clinic

3811 O'Hara Street Pittsburgh, PA 15213

Patrick H. Tolan, PhD

Director, Institute for Juvenile Research Professor, Department of Psychiatry University of Illinois at Chicago

840 S. Wood Street Chicago, IL 60612 Philip Firestone, PhD

Professor

Departments of Psychology and Psychiatry

University of Ottawa 120 University Priv. Ottawa, Canada K1N 6N5

Richard Milich, PhD Professor of Psychology Department of Psychology University of Kentucky Lexington, KY 40506-0044

Rob McGee, PhD Associate Professor

Department of Preventive and Social Medicine

University of Otago Medical School

Box 913 Dunedin New Zealand

Ronald T. Brown, PhD

Associate Dean, College of Health Professions

Professor of Pediatrics

Medical University of South Carolina 19 Hagood Avenue, P. O. Box 250822

Charleston, SC 29425

Rosemary Tannock, PhD Brain and Behavior Research Hospital for Sick Children 55 University Avenue

Toronto, Ontario, Canada M5G 1X8

Russell Schachar, MD Professor of Psychiatry Hospital for Sick Children 555 University Avenue Toronto, Ontario Canada M5G 1X8

Salvatore Mannuzza, MD Research Professor of Psychiatry New York University School of Medicine

550 First Avenue New York, NY 10016

Sandra K. Loo, PhD Research Psychologist

University of California, Los Angeles

Neuropsychiatric Institute 760 Westwood Plaza, Rm 47-406

Los Angeles, CA 90024

Sheila Eyberg, PhD, ABPP

Professor of Clinical & Health Psychology

University of Florida

Box 100165

600 SW Archer Blvd. Gainesville, FL 32610

Stephen Houghton, PhD Professor of Psychology

Director, Centre for Attention and Related

Disorders

The University of Western Australia

Perth, Australia

Stephen P. Hinshaw, PhD

Professor

Department of Psychology, #1650 University of California at Berkeley

3210 Tolman Hall

Berkeley, CA 94720-1650

Stephen Shapiro, PhD Department of Psychology

Auburn University

226 Thach

Auburn, AL 36849-5214

Stephen V. Faraone, PhD

Associate Professor of Psychology

Harvard University

750 Washington Street, Suite 255

South Easton, MA 02375

Steven R. Pliszka, MD

Associate Professor and Chief

Division of Child and Adolescent Psychiatry University of Texas Health Sciences Center

7703 Floyd Curl Drive

San Antonio, TX 78229-3900

Steven W. Evans, PhD

Associate Professor of Psychology

MSC 1902

James Madison University Harrisonburg, VA 22807

Susan Campbell, PhD

Professor

Department of Psychology

4015 O'Hara Street University of Pittsburgh

Pittsburgh, PA 15260

Terje Sagvolden, PhD Professor Department of Physiology University of Oslo N-0316 Oslo, Norway

Terri L. Shelton, PhD

Greensboro, NC 27402

Director Center for the Study of Social Issues University of North Carolina – Greensboro

Thomas E. Brown, PhD Assistant Professor Department of Psychiatry Yale University School of Medicine New Haven, CT

Thomas Joiner, PhD
The Bright–Burton Professor of Psychology
Florida State University
Tallahassee, FL 32306-1270

Thomas M. Lock, MD

Associate Professor of Clinical Pediatrics

Acting Chief, Division of Developmental Pediatrics and Rehabilitation

Acting Director, Robert Warner Rehabilitation Center

State University of New York at Buffalo School of Medicine and Biomedical Sciences 936 Delaware Ave. Buffalo, NY 14209

Thomas Spencer, MD

Associate Professor and Assistant Director, Pediatric Psychopharmacology

Harvard Medical School and Massachusetts General Hospital

15 Parkman Street, WACC725 Boston, MA 02114

William Pelham, Jr, PhD Professor of Psychology Center for Children and Families State University of New York at Buffalo 318 Diefendorf Hall, 3435 Main Street, Building 20 Buffalo, NY 14214

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