

The Congressionally Directed Medical Research Programs: Autism Research Program

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Program Manager



The views expressed in this presentation are those of the author and may not reflect the official policy or position of the Department of the Army, Department of Defense, or the U.S. Government.



US Army Medical Research and Materiel Command

CDMRP 
Department of Defense

Who is the CDMRP?



DEPARTMENT OF DEFENSE



DEPARTMENT OF THE ARMY



ARMY MEDICAL COMMAND
Serving To Heal...Honored To Serve

ARMY
MEDICAL
COMMAND



MEDICAL
RESEARCH
AND
MATERIEL
COMMAND



CONGRESSIONALLY
DIRECTED MEDICAL
RESEARCH
PROGRAMS



CDMRP Partnerships

Advocates

- ❖ Demonstrate need
- ❖ Participate at all levels
- ❖ Passion and perspective



Congress

- ❖ Add funds to budget
- ❖ Targeted guidance
- ❖ Opportunity to leverage



IMPROVE
HEALTH
(CURE)

Researchers

- ❖ Innovation and gaps
- ❖ Risk/Benefit
- ❖ Product-oriented



DOD

- ❖ Program management
- ❖ Regulatory and budget requirements
- ❖ Institute of Medicine model

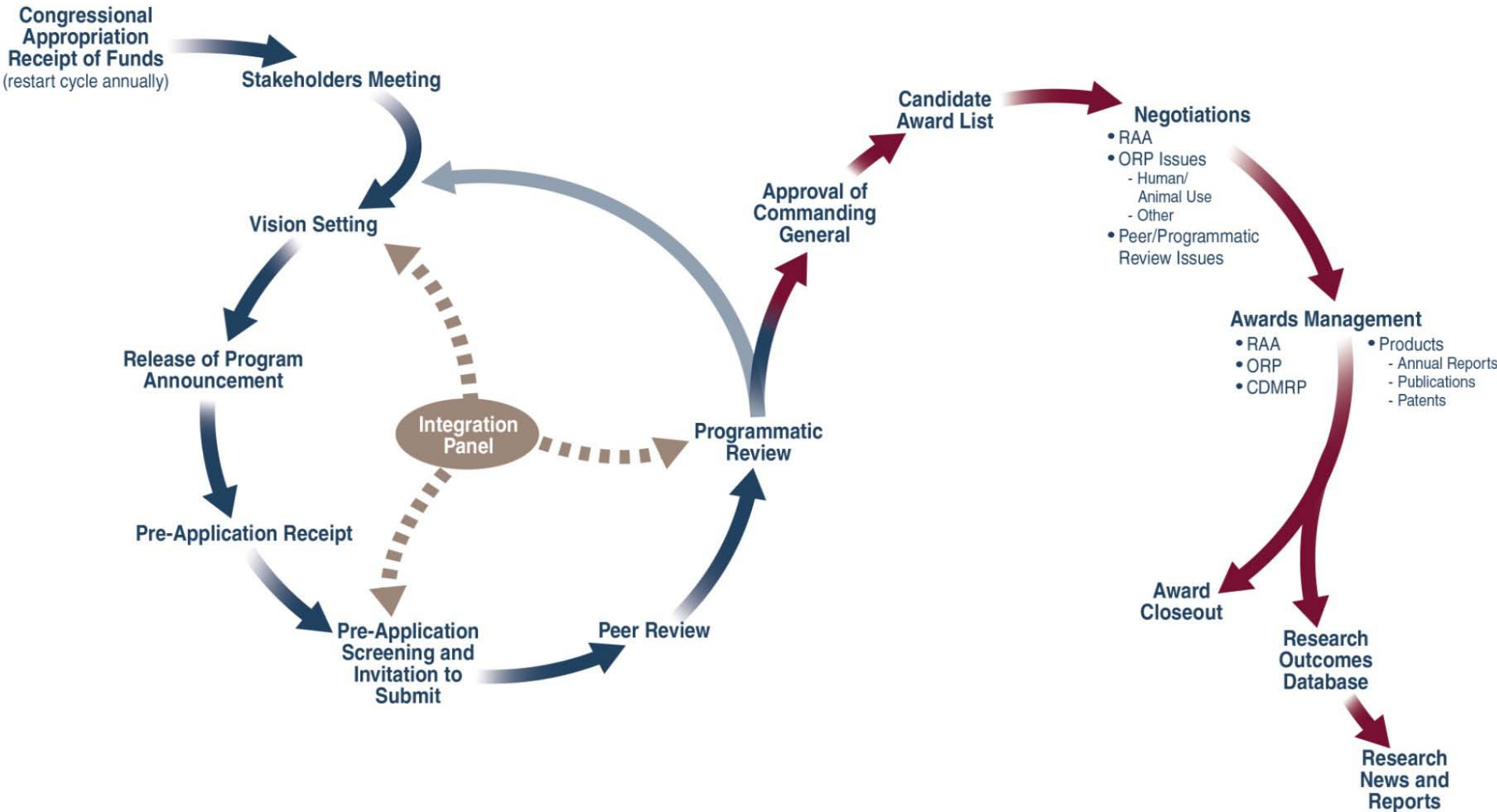


Hallmarks of the CDMRP

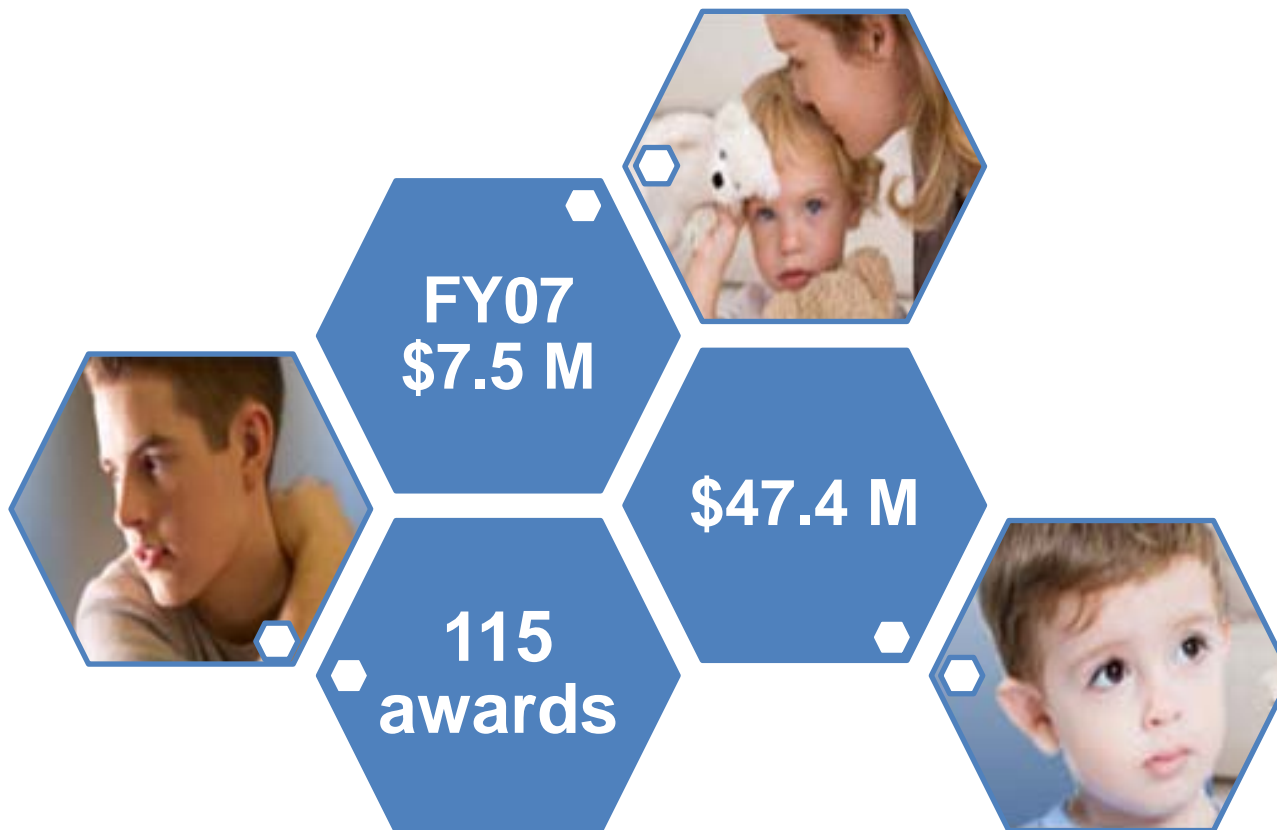
- Research funds added to DOD budget by Congress
- Vision is adapted yearly, and award mechanisms are changed as needed
- Advocates participate throughout process
- Fund highly innovative, high-impact research
- Fund nationally and internationally
- Two-tier formal review of applications – Institute of Medicine model



Program Execution



History and Background



FY14 ARP Integration Panel Members

- Craig Powell, M.D., Ph.D, Chair
University of Texas Southwestern
Medical Center
- David Bellinger, Ph.D.
Harvard School of Public Health,
Children's Hospital Boston
- Daniel Campbell, Ph.D.
University of Southern California
- Katarzyna Chawarska, Ph.D.
Yale University
- Diane Chugani, Ph.D.
Wayne State University;
Children's Hospital of Michigan
- Julie Daniels, Ph.D.
University of North Carolina
- John Davison III, MBA, Ph.D.
Defense Health Agency
- Ann Gibbons, J.D.
Autism Speaks
- Nancy Minshew, M.D.
University of Pittsburgh
- Shelley Reynolds, B.A.
Unlocking Autism
- Col Cherri Shireman
US Air Force Medical Support
Agency
- Christopher Stodgell, Ph.D.
University of Rochester
- Robert Vogt, Jr., Ph.D.
Centers for Disease Control and
Prevention



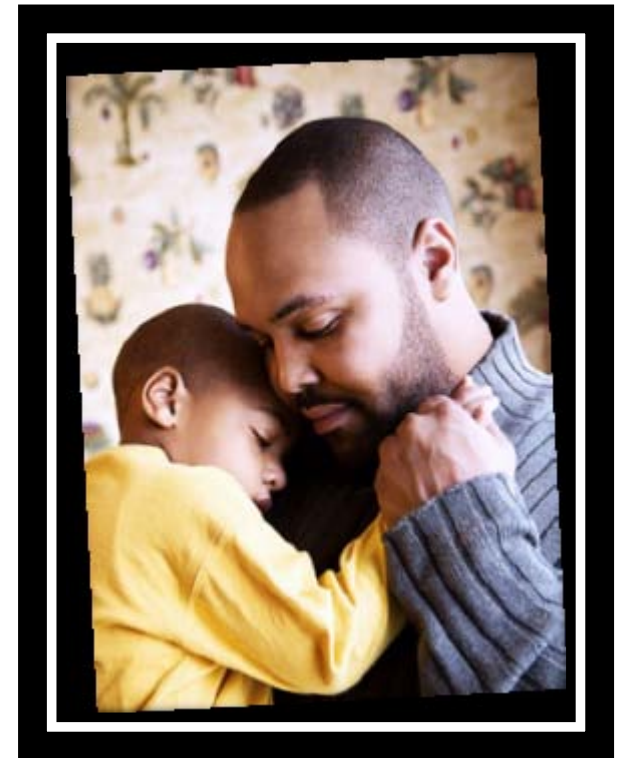
Vision and Mission

Vision

Improve the lives of individuals with autism spectrum disorder now

Mission

Promote innovative research that advances the understanding of autism spectrum disorder and leads to improved outcomes



Mechanisms toward the ARP Vision

Improve the lives of individuals with autism spectrum disorder now

As a research funding agency how do we do this?



FY14 Areas of Interest

Clinical Trial Award

- Behavioral and other non-pharmacological therapies
- Pharmacological treatments in autism or well-defined subgroups of autism (e.g., genetic, phenotypic, co-occurring conditions)
- Dissemination/Implementation of established, efficacious behavioral interventions
- Therapies to alleviate conditions co-occurring with ASD (e.g., sleep disturbances, gastrointestinal issues, aggression, depression, anxiety)



FY14 Areas of Interest

Idea Development Award

- Environmental risk factors
- Mechanisms of heterogeneous clinical expression or response to treatment of ASD, excluding new gene discovery
- Mechanisms underlying conditions co-occurring with ASD (e.g., sleep disturbances, gastrointestinal issues, aggression, depression, anxiety)
- Novel therapeutics using valid preclinical models
- Psychosocial factors promoting success in key transitions to independence for individuals living with ASD



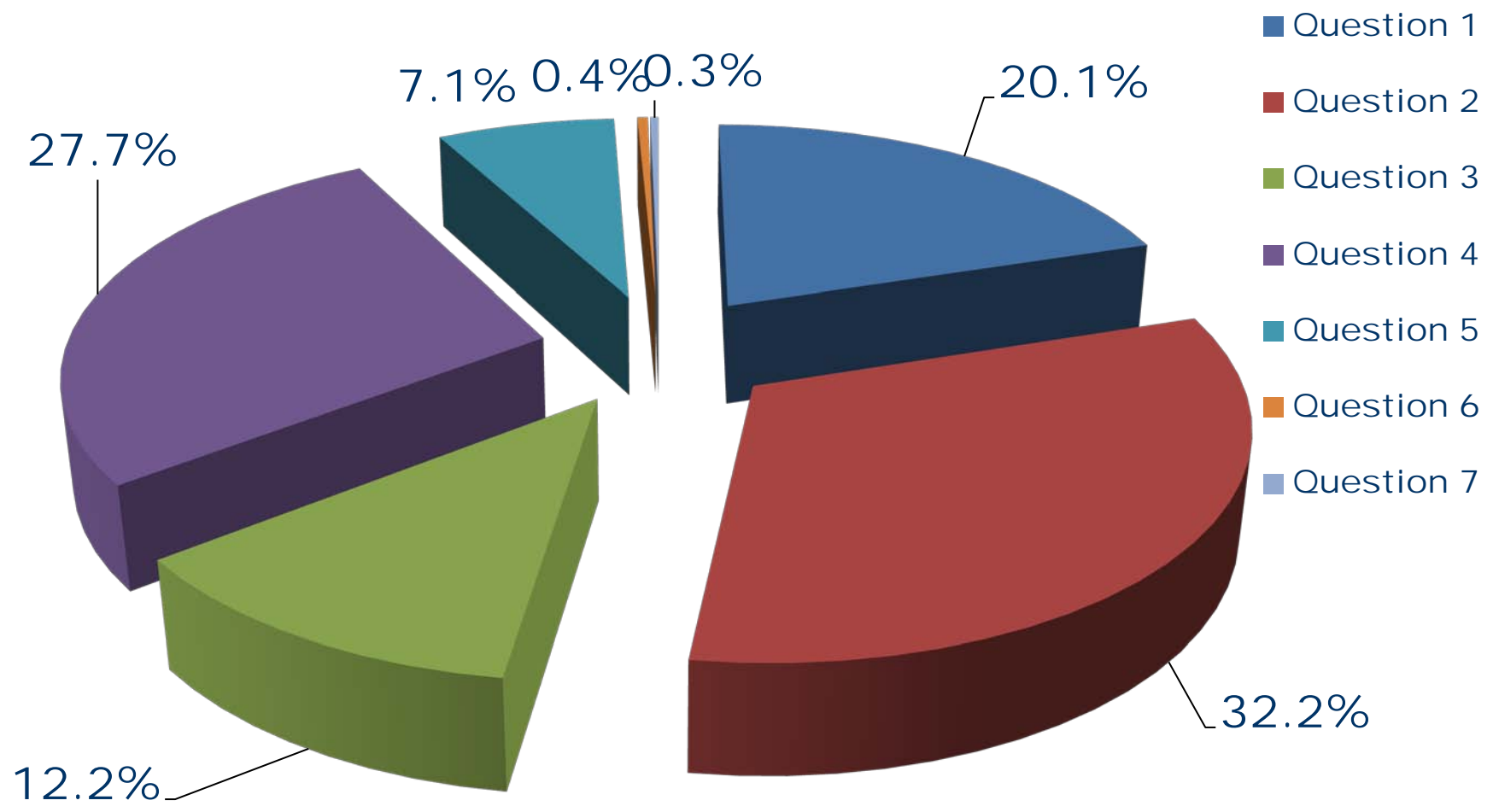
How Does DoD ARP Fit: IACC Strategic Plan Objectives

Question 1	When should I be concerned?
Question 2	How can I understand what is happening?
Question 3	What caused this to happen and can it be prevented?
Question 4	Which treatments and interventions will help?
Question 5	Where can I turn for services?
Question 6	What does the future hold, particularly for adults?
Question 7	What other infrastructure and surveillance needs must be met?



FY07-FY12 ARP Portfolio

Percentage of Funds Invested per IACC Question



Advancing Access Through Technology



Wayne Fisher, Ph.D.
University of Nebraska Medical Center
*Technology-Enhanced Early Intensive
Behavior Intervention Services for Children
with ASD in Military Families*

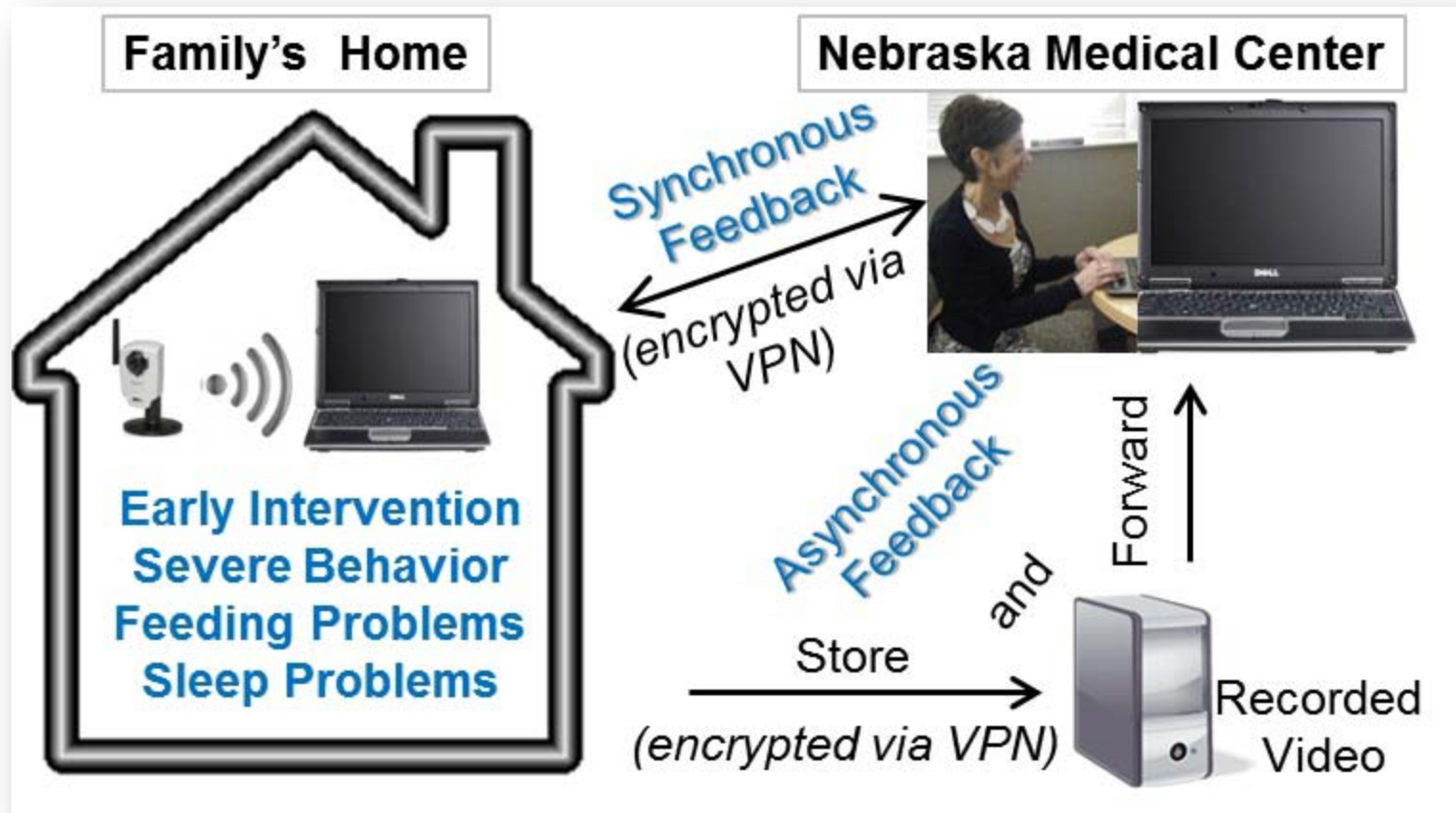


Brooke Ingersoll, Ph.D.
Michigan State University
*Development of Internet Based Parent
Training Intervention for Children with ASD*



Technology-Enhanced Early Intensive Behavior Intervention Services for Children with ASD in Military Families

Dr Wayne Fisher
University of Nebraska Medical Center



Advancing Independence

- Daniel Cox, Ph.D. and Ronald Reeve, Ph.D.
University of Virginia
- Daniel Cox, Ph.D. and Timothy Brown, Ph.D.
University of Virginia and University of Iowa
Evaluating and Enhancing Driving Skills of Individuals with ASD



Virtual Reality Driver Simulator and Eye Tracking



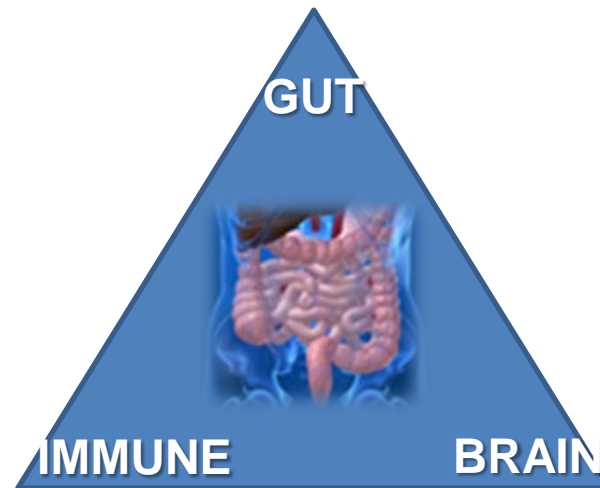
Understanding the Immune System and ASD

➤ Armin Alaedini, Ph.D.
Columbia University



Systematic Characterization of the Immune Response to Gluten and Casein in ASD

Proteomic Mapping of the Immune Response to Gluten in Children with ASD



Idea Development Awards – Nourishing the Future

Improving Healthcare *Transition Planning and Health-Related Independence* for Youth with ASD and Their Families - Nancy Cheak-Zamora, University of Missouri, Columbia

Precursor to the Development of *Anxiety Disorders* in Young Children with Autism Spectrum Disorder - Geraldine Dawson, Helen Egger, Duke University and Grace Baranek, University of North Carolina, Chapel Hill

Proteomic Mapping of the *Immune Response* to Gluten in Children with Autism - Armin Alaedini, Columbia University

Brain Mechanisms of *Affective Language Comprehension* in Autism Spectrum Disorder - Donald Bolder, University of Maryland, College Park

Disruption of *Trophic Inhibitory Signaling* in Autism Spectrum Disorder - Anis Contractor, Northwestern University

Genetic and Diagnostic *Biomarker Development* in ASD Toddlers Using Resting State Functional MRI - Peter Fox, University of Texas, Health Science Center at San Antonio, Eric Courchesne, University of California, San Diego, and David Glahn, Yale University

***Maternal Brain-Reactive Antibodies* and Autism Spectrum Disorder**- Betty Diamond, Feinstein Institute for Medical Research



Pilot Awards – Exploration of Novel Ideas

Autism and Obesity: Co-Occurring Conditions or Drug Side Effects?

Zohreh Talebizadeh, Children's Mercy Hospitals and Clinics

Mobile Device-Prompted Workplace Culture Analysis, Self-Efficacy, and *Anxiety Reduction* in the Transition to Independent Employment for Individuals with ASD

David Hagner, University of New Hampshire

***Circadian Rhythms* in Children with ASD and Their Infant Siblings**

Marc Taylor, Naval Medical Research Center

Imaging *Depression* in Adults with ASD

Kenneth Gadow, State University of New York, Stony Brook

Implicit *Learning Abilities* Predict Treatment Response in ASD

Catherine Lord, Cornell University, Weill Medical College

***Placental Identification and Immune Quantification* of Acute and/or Chronic Inflammation in Children Diagnosed with ASD in University and Community Hospitals**

Carolyn Salafia, Research Foundation for Mental Hygiene, Inc., Staten Island



Autism Research Program



Vision

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Mission

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http://cdmrp.army.mil

Congressionally Directed Medical Research Programs



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Search CDMRP SEARCH

Finding and Funding the Best Research

RESEARCH PROGRAMS FUNDING OPPORTUNITIES CONSUMER INVOLVEMENT SEARCH AWARDS MEDIA CENTER ABOUT US



CDMRP Research Funding for 2011/2012



Duchenne Muscular Dystrophy Research Program

NEW Lung Cancer Research Program

Peer Reviewed Cancer Research Program

NEW Psychological Health and Traumatic Brain Injury Research Program

CDMRP Research Funding for 2011 - Press Release

