Meeting of the IACC

Science Update

Thomas R. Insel, M.D.
Director, National Institute of Mental Health and Chair, IACC
IACC Full Committee Meeting – July 8, 2014

These slides do not reflect decisions of the IACC and are for discussion purposes only.
Q1. When should I be concerned?

Limited fine motor and grasping skills in 6-month-old infants at high risk for autism
Libertus K, Sheperd KA, Ross SW, Landa RJ

Computer vision tools for low-cost and non-invasive measurement of autism-related behaviors in infants

Brief Report: Assessment of Early Sensory Processing in Infants at High-Risk of Autism Spectrum Disorder

These slides do not reflect decisions of the IACC and are for discussion purposes only.
Q2. How can I understand what is happening?

May 6, 2014

Network inefficiencies in autism spectrum disorder at 24 months

June 3, 2014

Elevated fetal steroidogenic activity in autism

June 23, 2014

Autism spectrum disorders and race, ethnicity, and nativity: a population-based study

These slides do not reflect decisions of the IACC and are for discussion purposes only.
Q3. What caused this to happen and can it be prevented?

Neurodevelopmental disorders and prenatal residential proximity to agricultural pesticides: The CHARGE study
Shelton JF, Geraghty EM, Tancredi DJ, Delwiche LD, Schmidt RJ, Ritz B, Hansen RL, Hertz-Picciotto I

The familial risk of autism

Brain-expressed exons under purifying selection are enriched for de novo mutations in autism spectrum disorder

These slides do not reflect decisions of the IACC and are for discussion purposes only.
Q4. Which treatments and interventions will help?

Corticosteroid therapy in regressive autism: a retrospective study of effects on the Frequency Modulated Auditory Evoked Response (FMAER), language, and behavior
Duffy FH, Shankardass A, McAnulty GB, Eksioglu YZ, Coulter D, Rotenberg A, Als H

Communication interventions for minimally verbal children with autism: a sequential multiple assignment randomized trial

Caregiver-Mediated Intervention for Low-Resourced Preschoolers With Autism: An RCT

These slides do not reflect decisions of the IACC and are for discussion purposes only.
Q5. Where can I turn for services?

May 26, 2014

Care Coordination and Unmet Specialty Care Among Children With Special Health Care Needs
Arauz Boudreau A, Goodman E, Kurowski D, Perrin JM, Cooley WC, Kuhlthau K

June 9, 2014

Costs of Autism Spectrum Disorders in the United Kingdom and the United States
Buescher AV, Cidav Z, Knapp M, Mandell DS

June 9, 2014

Comparing service use and costs among adolescents with autism spectrum disorders, special needs and typical development

These slides do not reflect decisions of the IACC and are for discussion purposes only.
Q6. What does the future hold, particularly for adults?

The cost-effectiveness of supported employment for adults with autism in the United Kingdom
Mavranezouli I, Megnin-Viggars O, Cheema N, Howlin P, Baron-Cohen S, Pilling S

Depression and its measurement in verbal adolescents and adults with autism spectrum disorder
Gotham K, Unruh K, Lord C

Adult Outcomes in Autism: Community Inclusion and Living Skills
Gray KM, Keating CM, Taffe JR, Brereton AV, Einfeld SL, Reardon TC, Tonge BJ

These slides do not reflect decisions of the IACC and are for discussion purposes only.
Q7. What other infrastructure and surveillance needs must be met?

Evidence of Reproductive Stoppage in Families With Autism Spectrum Disorder: A Large, Population-Based Cohort Study
Hoffmann TJ, Windham GC, Anderson M, Croen LA, Grether JK, Risch N

The autism brain imaging data exchange: towards a large-scale evaluation of the intrinsic brain architecture in autism

These slides do not reflect decisions of the IACC and are for discussion purposes only.