

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



Q1. When should I be concerned?

CHILD DEVELOPMENT

June 30, 2014

Limited fine motor and grasping skills in 6-month-old infants at high risk for autism

Libertus K, Sheperd KA, Ross SW, Landa RJ

Autism Research and Treatment

June 22, 2014

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

Hasehmi J, Tepper M, Spina TV, Esler A, Morellas V, Papanikolopoulos N, Egger H, Dawson G, Sapiro G

Journal of Autism and Developmental Disorders

Jun 27, 2014

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

Germani T, Zwaigenbaum L, Bryson S, Brian J, Smith I, Roberts W, Szatmari P, Roncadin C, Sacrey LA, Garon N, Vaillancourt T



Q2. How can I understand what is happening?

Translational Psychiatry

May 6, 2014

Network inefficiencies in autism spectrum disorder at 24 months

Lewis JD, Evans AC, Pruett JR, Botteron K, Zwaigenbaum L, Estes A, Gerig G, Collins L, Kostopoulos P, McKinstry R, Dager S, Paterson S, Schultz RT, Styner M, Hazlett H, Piven J



June 3, 2014

Elevated fetal steroidogenic activity in autism

Baron-Cohen S, Auyeung B, Nørgaard-Pedersen B, Hougaard DM, Abdallah MW, Melgaard L, Cohen AS, Chakrabarti B, Ruta L, Lombardo MV.

PEDIATRICS

June 23, 2014

OFFICIAL JOURNAL OF THE AMERICAN ACADEMY OF PEDIATRICS

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

Becerra TA, von Ehrenstein OS, Heck JE, Olsen J, Arah OA, Jeste SS, Rodriguez M, Ritz B



Q3. What caused this to happen and can it be prevented?



June 23, 2014

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



enetics

nature

May 7, 2014

The familial risk of autism

Sandin S, Lichtenstein P, Kuja-Halkola R, Larsson H, Hultman CM, Reichenberg A

May 25, 2014

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

Uddin M, Tammimies K, Pellecchia G, Alipanahi B, Hu P, Wang Z, Pinto D, Lau L, Nalpathamkalam T, Marshall CR, Blencowe BJ, Frey BJ, Merico D, Yuen RK, Scherer SW These slides do not reflect decisions of the IACC and are for discussion purposes only.



Q4. Which treatments and interventions will help?

May 15, 2014

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

Journal of the American Academy of CHILD & ADOLESCENT PSYCHIATRY

BMC

Neurology

June 2014

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

Kasari C, Kaiser A, Goods K, Nietfeld J, Mathy P, Landa R, Murphy S, Almirall D

PEDIATRICS

June 23, 2014

OFFICIAL JOURNAL OF THE AMERICAN ACADEMY OF PEDIATRICS

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

Kasari C, Lawton K, Shih W, Barker TV, Landa R, Lord C, Orlich F, King B, Wetherby A, Senturk D

ACC Q5. Where can I turn for services?

PEDIATRICS

May 26, 2014

OFFICIAL JOURNAL OF THE AMERICAN ACADEMY OF PEDIATRICS

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

JAMA Pediatrics

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

Barrett B, Mosweu I, Jones CR, Charman T, Baird G, Simonoff E, Pickles A, Happé F, Byford S



Q6. What does the future hold, particularly for adults?



April 29, 2014

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

June 10, 2014

Depression and its measurement in verbal adolescents and adults with autism spectrum disorder

Gotham K, Unruh K, Lord C

Journal of Autism and Developmental Disorders

June 11, 2014

Adult Outcomes in Autism: Community Inclusion and Living Skills

Gray KM, Keating CM, Taffe JR, Brereton AV, Einfeld SL, Reardon TC, Tonge BJ

Q7. What other infrastructure and surveillance needs must be met?

JAMA Psychiatry

Formerly Archives of General Psychiatry

Molecular

Psychiatry

June 18, 2014

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

June 19, 2014

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

Di Martino A, Yan CG, Li Q, Denio E, Castellanos FX, Alaerts K, Anderson JS, Assaf M, Bookheimer SY, Dapretto M, Deen B, Delmonte S, Dinstein I, Ertl-Wagner B, Fair DA, Gallagher L, Kennedy DP, Keown CL, Keysers C, Lainhart JE, Lord C, Luna B, Menon V, Minshew NJ, Monk CS, Mueller S, Müller RA, Nebel MB, Nigg JT, O'Hearn K, Pelphrey KA, Peltier SJ, Rudie JD, Sunaert S, Thioux M, Tyszka JM, Uddin LQ, Verhoeven JS, Wenderoth N, Wiggins JL, Mostofsky SH, Milham MPHoffmann TJ, Windham GC, Anderson M, Croen LA, Grether JK, Risch N