

# **Meeting of the IACC**

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# **Science Update**

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## Science Update

**Bruce Cuthbert, Ph.D.**

Acting Director, National Institute of Mental Health and Chair, IACC  
IACC Full Committee Meeting – January 12, 2016

# Q1. When should I be concerned?



October 2015

## **Comorbidity of Intellectual Disability Confounds Ascertainment of Autism: Implications for Genetic Diagnosis**

Polyak A, Kubina RM, Girirajan S

**PEDIATRICS®**

October 2015

OFFICIAL JOURNAL OF THE AMERICAN ACADEMY OF PEDIATRICS

## **Early Screening of Autism Spectrum Disorder: Recommendations for Practice and Research**

Zwaigenbaum L, Bauman ML, Fein D, Pierce K, Buie T, Davis PA, Newschaffer C, Robins DL, Wetherby A, Choueiri R, Kasari C, Stone WL, Yirmiya N, Estes A, Hansen RL, McPartland JC, Natowicz MR, Carter A, Granpeesheh D, Mailloux Z, Smith Roley S, Wagner S



November 2015

## **Have Racial and Ethnic Disparities in the Quality of Health Care Relationships Changed for Children With Developmental Disabilities and ASD?**

Magaña S, Parish SL, Son E

# Q1. When should I be concerned?

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September 2015

## **Diagnostic stability in young children at risk for autism spectrum disorder: a baby siblings research consortium study**

Ozonoff S, Young GS, Landa RJ, Brian J, Bryson S, Charman T, Chawarska K, Macari SL, Messinger D, Stone WL, Zwaigenbaum L, Iosif AM

**PEDIATRICS®**

October 2015

OFFICIAL JOURNAL OF THE AMERICAN ACADEMY OF PEDIATRICS

## **Early Identification of Autism Spectrum Disorder: Recommendations for Practice and Research**

Zwaigenbaum L, Bauman ML, Stone WL, Yirmiya N, Estes A, Hansen RL, McPartland JC, Natowicz MR, Choueiri R, Fein D, Kasari C, Pierce K, Buie T, Carter A, Davis PA, Granpeesheh D, Mailloux Z, Newschaffer C, Robins D, Roley SS, Wagner S, Wetherby A

# Q2. How can I understand what is happening?



July 22, 2015

## **Arginine Vasopressin Is a Blood-Based Biomarker of Social Functioning in Children with Autism**

Carson DS, Garner JP, Hyde SA, Libove RA, Berquist SW, Hornbeak KB, Jackson LP, Sumiyoshi RD, Howerton CL, Hannah SL, Partap S, Phillips JM, Hardan AY, Parker KJ



September 4, 2015

## **Sex differences in structural organization of motor systems and their dissociable links with repetitive/restricted behaviors in children with autism**

Supekar K, Menon V



**Current  
Biology**

December 16, 2015

## **Reduced GABAergic Action in the Autistic Brain**

Robertson CE, Ratai EM, Kanwisher N

# Q2. How can I understand what is happening?

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The Journal of  
**Neuropsychiatry**  
and Clinical Neurosciences

September 25, 2015

## **White Matter Abnormalities in Autism and Unaffected Siblings**

Jou RJ, Reed HE, Kaiser MD, Voos AC, Volkmar FR, Pelphrey KA



July 16, 2015

## **Behavioral, cognitive, and adaptive development in infants with autism spectrum disorder in the first 2 years of life**

Estes A, Zwaigenbaum L, Gu H, St John T, Paterson S, Elison JT, Hazlett H, Botteron K, Dager SR, Schultz RT, Kostopoulos P, Evans A, Dawson G, Eliason J, Alvarez S, Piven J

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

**JAMA Pediatrics**

*Formerly Archives of Pediatrics & Adolescent Medicine*

February 2015

## **Preeclampsia, placental insufficiency, and autism spectrum disorder or developmental delay**

Walker CK, Krakowiak P, Baker A, Hansen RL, Ozonoff S, Hertz-Picciotto I

**PEDIATRICS**

OFFICIAL JOURNAL OF THE AMERICAN ACADEMY OF PEDIATRICS

October 2015

## **Interpregnancy Interval and Risk of Autism Spectrum Disorders**

Zerbo O, Yoshida C, Gunderson EP, Dorward K, Croen LA

**Molecular  
Psychiatry**

June 9, 2015

## **Autism risk associated with parental age and with increasing difference in age between the parents**

Sandin S, Schendel D, Magnusson P, Hultman C, Surén P, Susser E, Grønberg T, Gissler M, Gunnes N, Gross R, Henning M, Bresnahan M, Sourander A, Hornig M, Carter K, Francis R, Parner E, Leonard H, Rosanoff M, Stoltenberg C, Reichenberg A

# Q4. Which treatments and interventions will help?

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October 2015

OFFICIAL JOURNAL OF THE AMERICAN ACADEMY OF PEDIATRICS

## **Early Intervention for Children With Autism Spectrum Disorder Under 3 Years of Age: Recommendations for Practice and Research**

Zwaigenbaum L, Bauman ML, Choueiri R, Kasari C, Carter A, Granpeesheh D, Mailloux Z, Smith Roley S, Wagner S, Fein D, Pierce K, Buie T, Davis PA, Newschaffer C, Robins D, Wetherby A, Stone WL, Yirmiya N, Estes A, Hansen RL, McPartland JC, Natowicz MR

**Molecular  
Psychiatry**

October 27, 2015

## **The effect of oxytocin nasal spray on social interaction deficits observed in young children with autism: a randomized clinical crossover trial**

Yatawara CJ, Einfeld SL, Hickie IB, Davenport TA, Guastella AJ

# Q4. Which treatments and interventions will help?

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October 14, 2015

## **Multiple Antipsychotic Medication Use in Autism Spectrum Disorder**

Wink LK, Pedapati EV, Horn PS, McDougle CJ, Erickson CA

## **Research in Autism Spectrum Disorders**

September 1, 2015

## **Prevalence and predictors of complementary and alternative medicine use in a large insured sample of children with Autism Spectrum Disorders**

Owen-Smith AA, Bent S, Lynch FL, Coleman KJ, Yau VM, Pearson KA, Massolo ML, Quinn V, Croen LA



October 5, 2015

## **Randomized, Controlled Trial of a Comprehensive Program for Young Students with Autism Spectrum Disorder**

Young HE, Falco RA, Hanita M

# Q5. Where can I turn for services?

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February-March 2015

## **Service and Treatment Use Among Children Diagnosed With Autism Spectrum Disorders**

Zablotsky B1, Pringle BA, Colpe LJ, Kogan MD, Rice C, Blumberg SJ



September 2015

## **Vocational Rehabilitation Service Patterns and Outcomes for Individuals with Autism of Different Ages**

Chen JL, Sung C, Pi S

The International Journal of Research and Practice • Volume 18 Number 1 January 2014



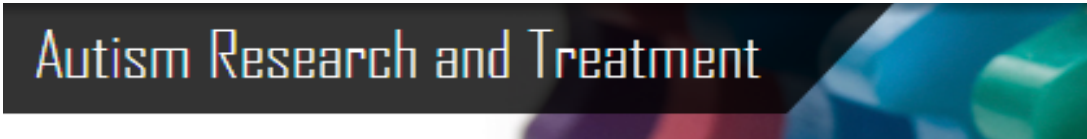
July 2015

## **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

# Q5. Where can I turn for services?

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## Autism Research and Treatment

November 2015

### **Characteristics of Two-Year College Students on the Autism Spectrum and Their Support Services Experiences**

Roux AM, Shattuck PL, Rast JE, Rava JA, Edwards AD, Wei X, McCracken M, Yu JW



## *Journal of Autism and Developmental Disorders*

December 2015

### **A Study of Physician Knowledge and Experience with Autism in Adults in a Large Integrated Healthcare System**

Zerbo O, Massolo ML, Qian Y, Croen LA

# Q5. Where can I turn for services?

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The International Journal of Research and Practice • Volume 18 Number 1 January 2014

**autism**

November 19, 2015

**“You think it’s hard now ... It gets much harder for our children”:  
Youth with autism and their caregiver’s perspectives of health care  
transition services**

Cheak-Zamora NC, Teti M

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**Obesity and Autism**

Hill AP, Zuckerman KE, Fombonne E

November 2, 2015

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

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September 11, 2015

## **Health Conditions and Functional Status in Adults with Autism: A Cross-Sectional Evaluation**

Fortuna RJ, Robinson L, Smith TH, Meccarello J, Bullen B, Nobis K, Davidson PW



October 7, 2015

## **The Costs and Benefits of Employing an Adult with Autism Spectrum Disorder: A Systematic Review**

Jacob A, Scott M, Falkmer M, Falkmer T

The International Journal of Research and Practice • Volume 18 Number 1 January 2014



October 2015

## **Characterizing the daily life, needs, and priorities of adults with autism spectrum disorder from Interactive Autism Network data**

Gotham K, Marvin AR, Taylor JL, Warren Z, Anderson CM, Law PA, Law JK, Lipkin PH

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

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The International Journal of Research and Practice • Volume 18 Number 1 January 2014

**autism**

October 15, 2015

## **The mental health of individuals referred for assessment of autism spectrum disorder in adulthood: A clinic report**

Russell AJ, Murphy CM, Wilson E, Gillan N, Brown C, Robertson DM, Craig MC, Deeley Q, Zinkstok J, Johnston K, McAlonan GM, Spain D, Murphy DG

The International Journal of Research and Practice • Volume 18 Number 1 January 2014

**autism**

October 2015

## **Longitudinal patterns of employment and postsecondary education for adults with autism and average-range IQ**

Taylor JL, Henninger NA, Mailick MR

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

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The International Journal of Research and Practice • Volume 18 Number 1 January 2014

**autism**

October 2015

## **The health status of adults on the autism spectrum**

Croen LA, Zerbo O, Qian Y, Massolo ML, Rich S, Sidney S, Kripke C

The International Journal of Research and Practice • Volume 18 Number 1 January 2014

**autism**

October 2015

## **“Respect the way I need to communicate with you”: Healthcare experiences of adults on the autism spectrum**

Nicolaidis C, Raymaker DM, Ashkenazy E, McDonald KE, Dern S, Baggs AE, Kapp SK, Weiner M, Boisclair WC

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

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## National Health Statistics Reports

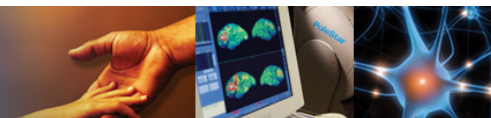
November 2015 to July 2016 update

November 2015

### **Estimated Prevalence of Autism and Other Developmental Disabilities Following Questionnaire Changes in the 2014 National Health Interview Survey**

Zablotsky B, Black LI, Maenner MJ, Schieve LA, Blumberg SJ

## **Psychological Medicine**



February 2015

### **The epidemiology and global burden of autism spectrum disorders**

Baxter AJ, Brugha TS, Erskine HE, Scheurer RW, Vos T, Scott JG