IMFAR: ISRAEL MEETING FOR AUTISM RESEARCH

Ben Gurion University February 13-14, 2019





The Autism Center Hebrew University of Jerusalem

25 members

10 departments

>50 graduate students

4 pillars:





Ongoing Activities



■ Hierarchy of BA→MA courses

Annual stakeholder conferences

Student scholarships/fellowships

ADOS/ADI trainings

Monthly seminar

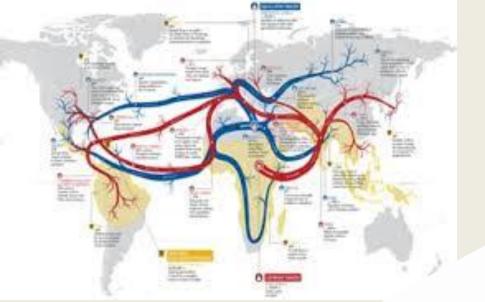
Involvement in national policy

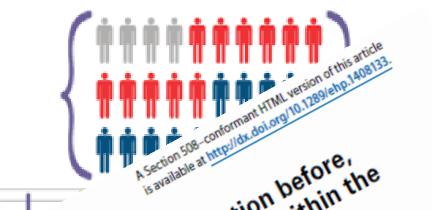
Development of clinical services with Hadassah













Autism Spectrum Disorder and Particulate Matter Air Pollution before the during, and after Pregnancy: A Nested Case Control Analysis within the Autism Spectrum Disorder and Particulate Matter Air Pollution before the Autism Spectrum Disorder and Particulate Case Control Analysis within the during, and after Pregnancy: A Nested Case Control Analysis within the Murses' Health Study II Cohort Nurses' Health Study II Cohort

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Nurses' Health Study II Cohort















DEVELOPMENTAL CHANGES IN ASD EXPRESSION OF YOUNG BOYS AND GIRLS





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Male Bias in ASD?



Kanner's and Asperger's samples were predominantly male

■ Range in male:female ratio in ASD literature is 11.7: 1 to 1.33:1

(Fombonne, Quirke, & Hagen, 2011, Kim et al., 2011; Lai, Baron-Cohen & Buxbaum, 2015)

■ Recent research suggests male: female ratios in ASD is 2-3:1

(Werling & Geschwind, 2015)



Where are the girls?



Females diagnosed later than males

(Lehnhardt et al., 2016)

Camouflage effect

(Rynkiewicz et al., 2016)

Instruments validated and reliable on males

(Lai et al., 2015, 2017)

Expression is different in girls

(Young, Oreve, & Speranza, 2018)





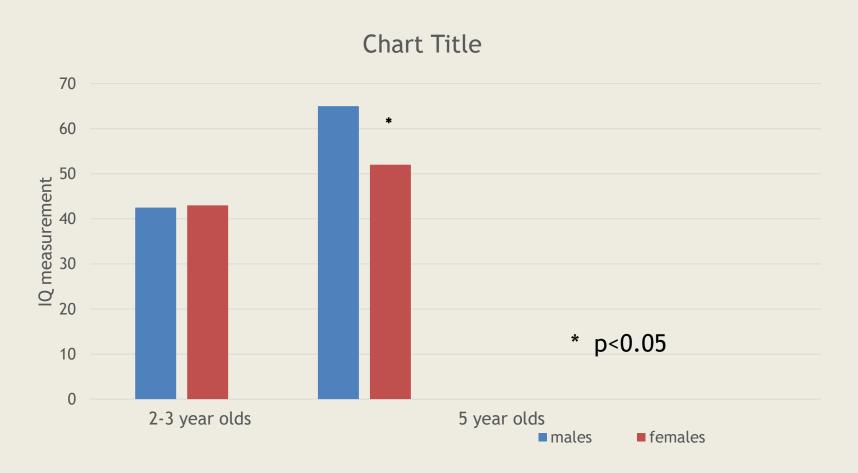


- Behavioral profiles
- Cognitive profiles
- Age of diagnosis
- Expression of autism symptomatology
- Co-morbidity





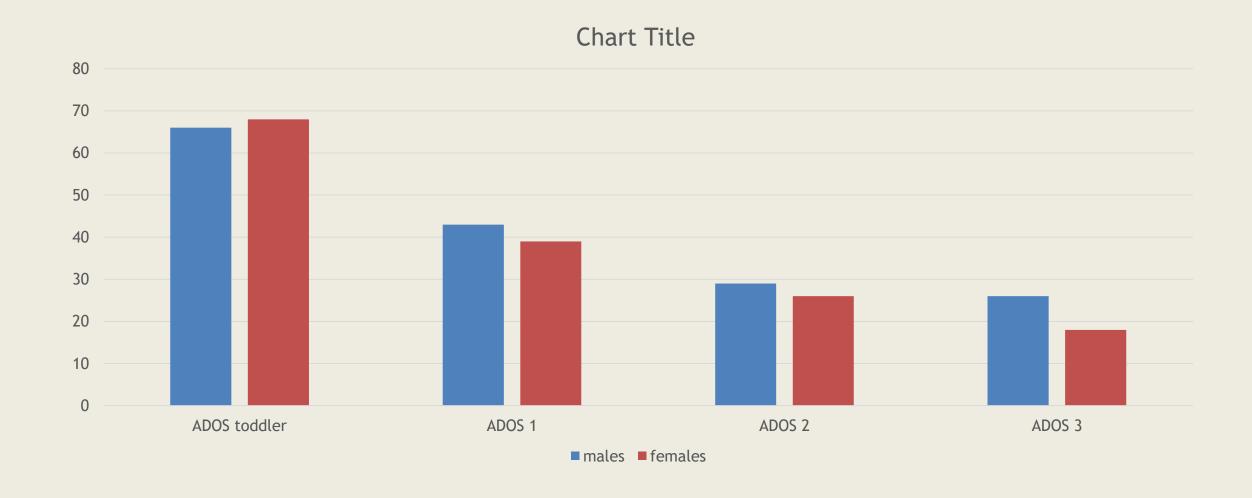






Comparison of male and female raw scores on ADOS modules







Results and conclusions



- No differences in ASD symptomology between males and females before age 3.
- Fewer girls referred before age 3.
- Less language in the boys referred for ASD diagnosis before age 3.
- Item analyses revealed difference between imaginative play between boys and girls even before age 3.



Results and conclusions



- Significant differences emerged between the boys and girls by age 5 with girls exhibiting less severe autism symptomatology.
- Differences not dependent on cognitive abilities.
- Young females with ASD has not been fully characterized.
- Females receiving an early ASD diagnosis (by age three) reveal similar patterns to males receiving an early ASD diagnosis.
- Differences may appear in developmental trajectory.