

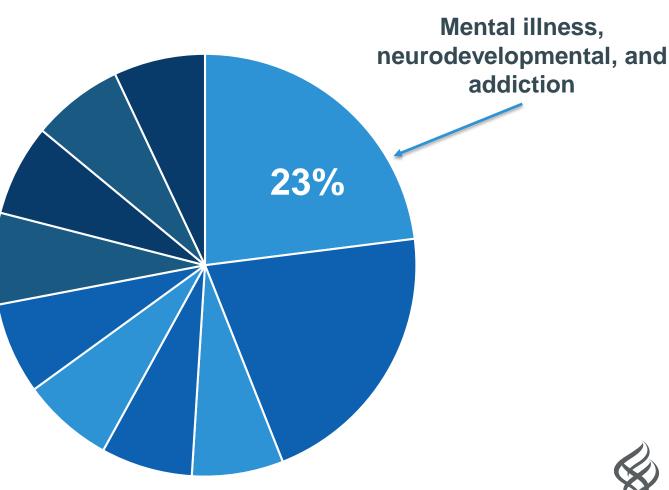
through ADHD Research

Steve Sharp Supporter

Joel Nigg, Ph.D. Director, OHSU Center for ADHD Research Professor, Department of Psychiatry



THE PROBLEM MENTAL HEALTH CRISIS





THE OHSU APPROACH IS DISTINCTIVE: Addressing the key gateway





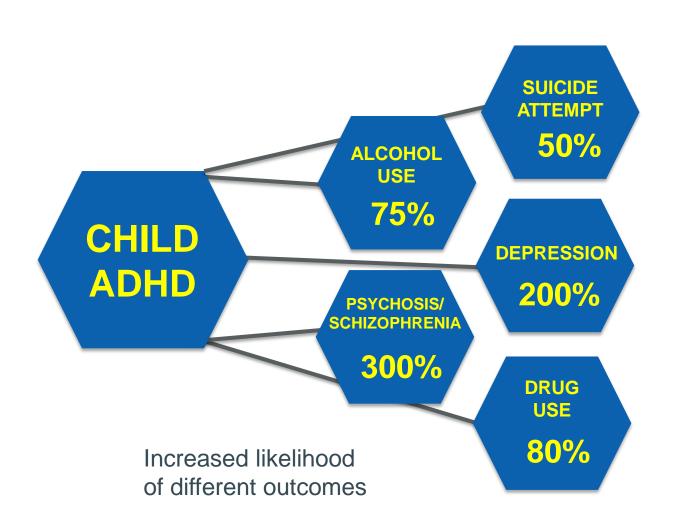
ADHD: GATEWAY TO MENTAL ILLNESS



Increased likelihood of different outcomes



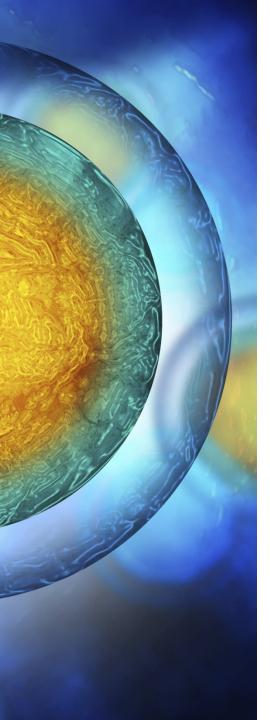
ADHD: GATEWAY TO MENTAL ILLNESS





ADHD: GATEWAY TO MENTAL ILLNESS





PEOPLE WITH ADHD

- 1 in 20 kids (6 million in US)
- 1 in 40 adults (9 million in US)
- 2x as many boys as girls
- 2/3 worsen over time--contrary to myth
- Similar prevalence worldwide
- Diagnosed by behavior (no blood/brain test)







OHSU: OUR STRENGTHS

- TOP SCIENTISTS
 - + Technical + staff + collaborators + data bases
- STRONG INSTITUTIONAL RESOURCES
- **INNOVATIVE CULTURE**
 - + Novel imaging + biomarkers + exciting new testing

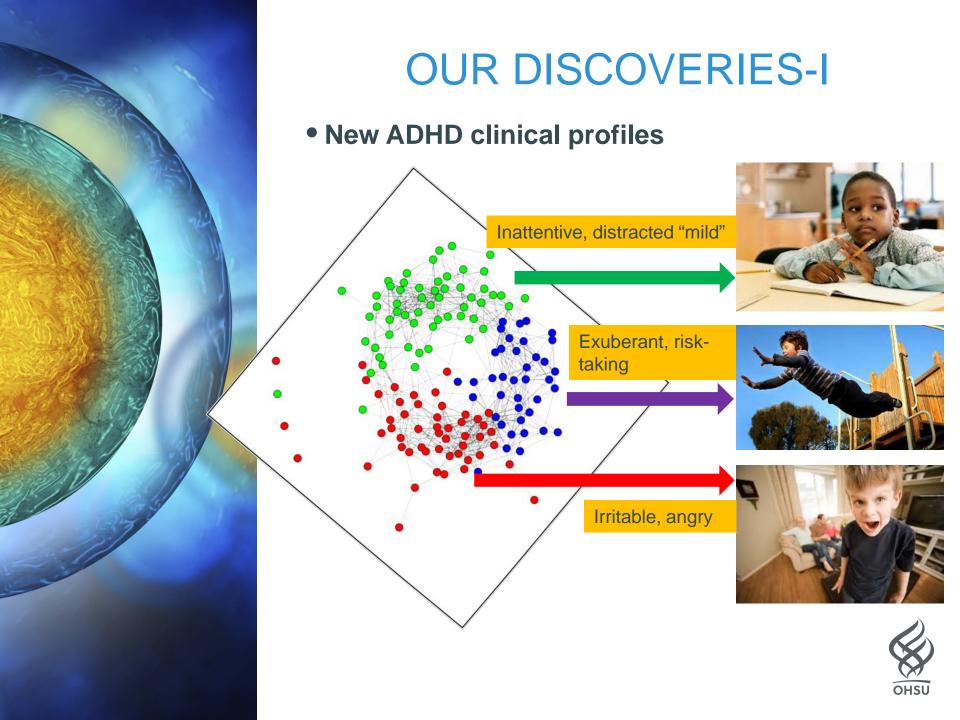


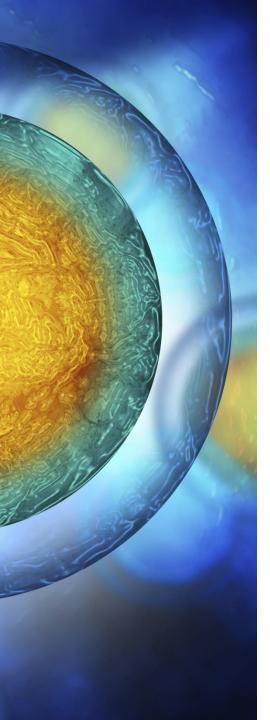


OUR RESULTS

- Pioneered maps of brain networks
- Discovered maternal blood predictor
- Confirmed effects of multi-nutrient treatment
- New ADHD clinical profiles

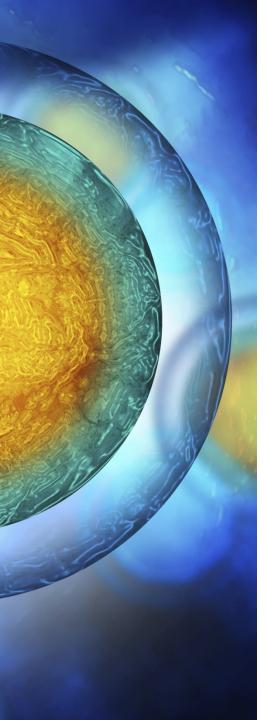






Prediction: Who will have worse clinical problems one year later?



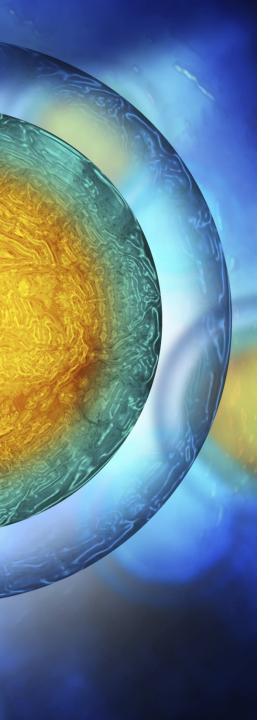


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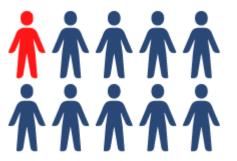


Non-ADHD



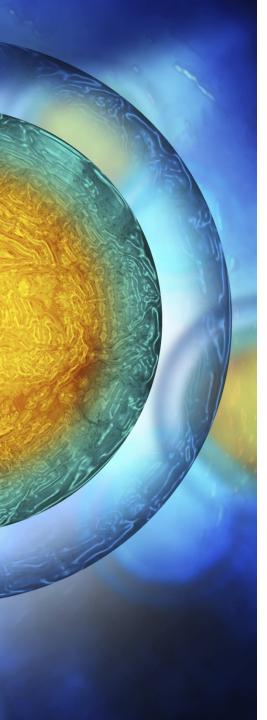


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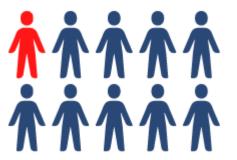


Non-ADHD 1 in 10





Prediction: Who will have worse clinical problems one year later?

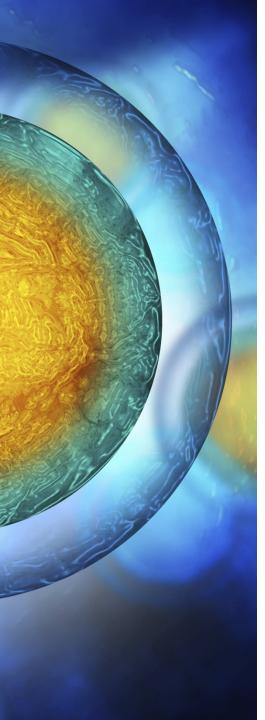


Non-ADHD 1 in 10

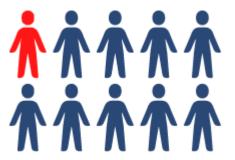


ADHD mild

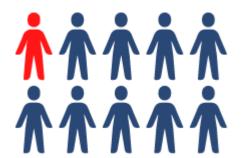




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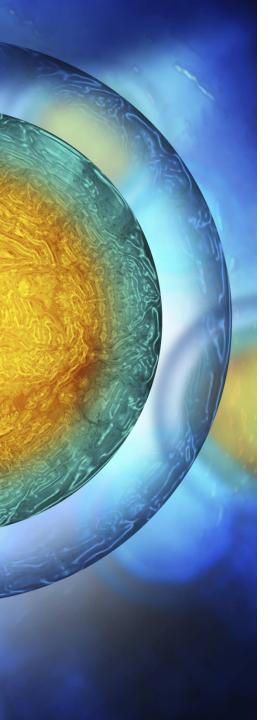


Non-ADHD 1 in 10



ADHD mild 1 in 10

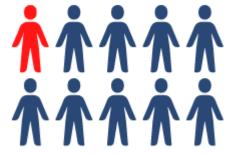




Prediction: Who will have worse clinical problems one year later?



Non-ADHD 1 in 10

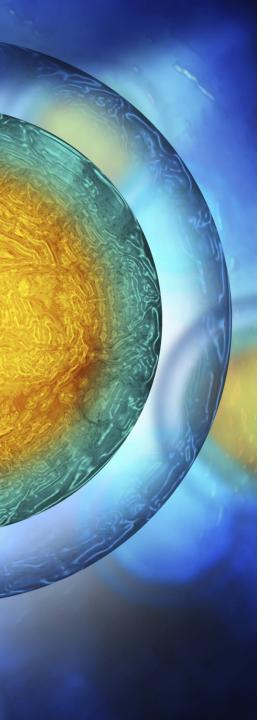


ADHD mild 1 in 10

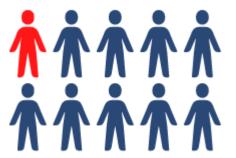


ADHD risk-taking

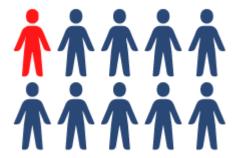




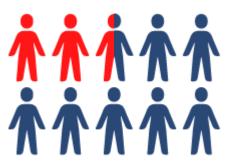
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Non-ADHD 1 in 10

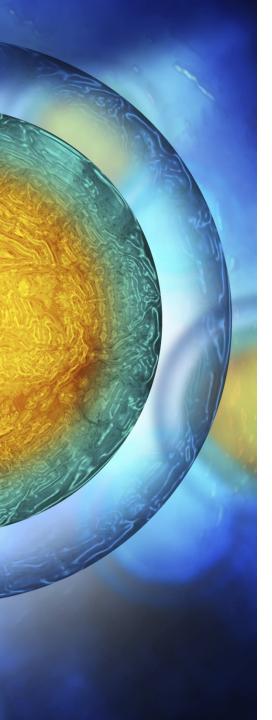


ADHD mild 1 in 10

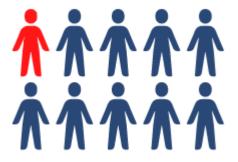


ADHD risk-taking 2.5 in 10

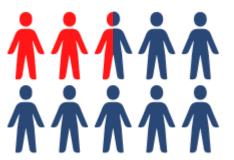




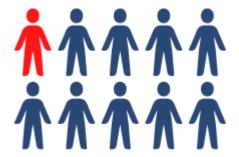
Prediction: Who will have worse clinical problems one year later?



Non-ADHD 1 in 10



ADHD risk-taking 2.5 in 10

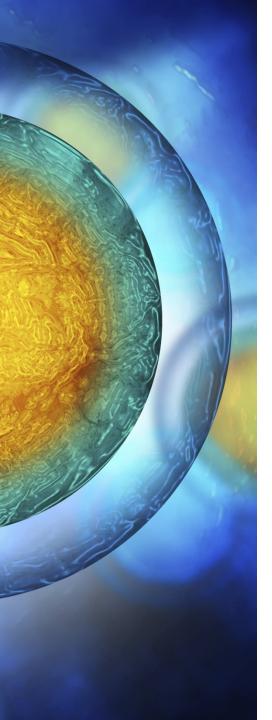


ADHD mild 1 in 10

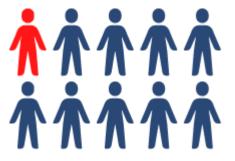


ADHD angry

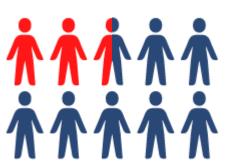




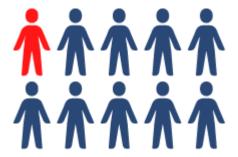
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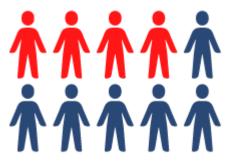
Non-ADHD 1 in 10



ADHD risk-taking 2.5 in 10

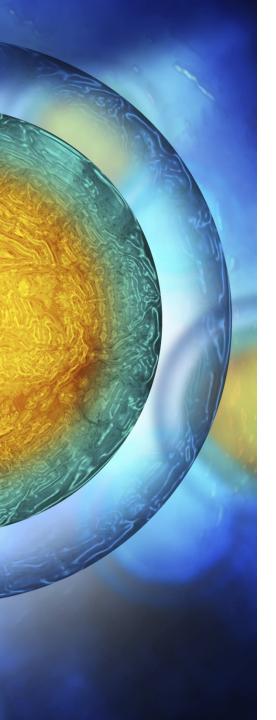


ADHD mild 1 in 10



ADHD angry 4 in 10



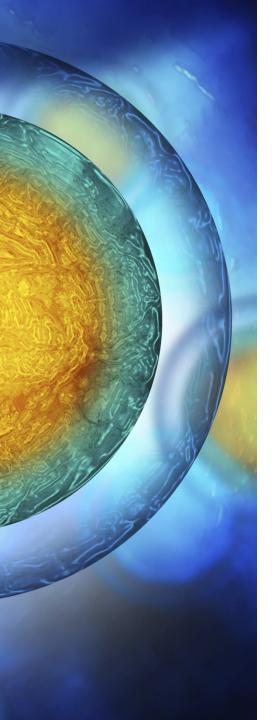


 Maternal inflammation in pregnancy predicted negative mood and ADHD in offspring



 What that means: We might have a reversible cause we can test early in life





- Our groundbreaking North American clinical trial of therapeutic dose micronutrients helped the ADHD highest risk sub-group
- What that means: We can test new nutrition-related treatments for specific clinical subgroups
- Potential low cost, safe solutions for some of worstaffected people

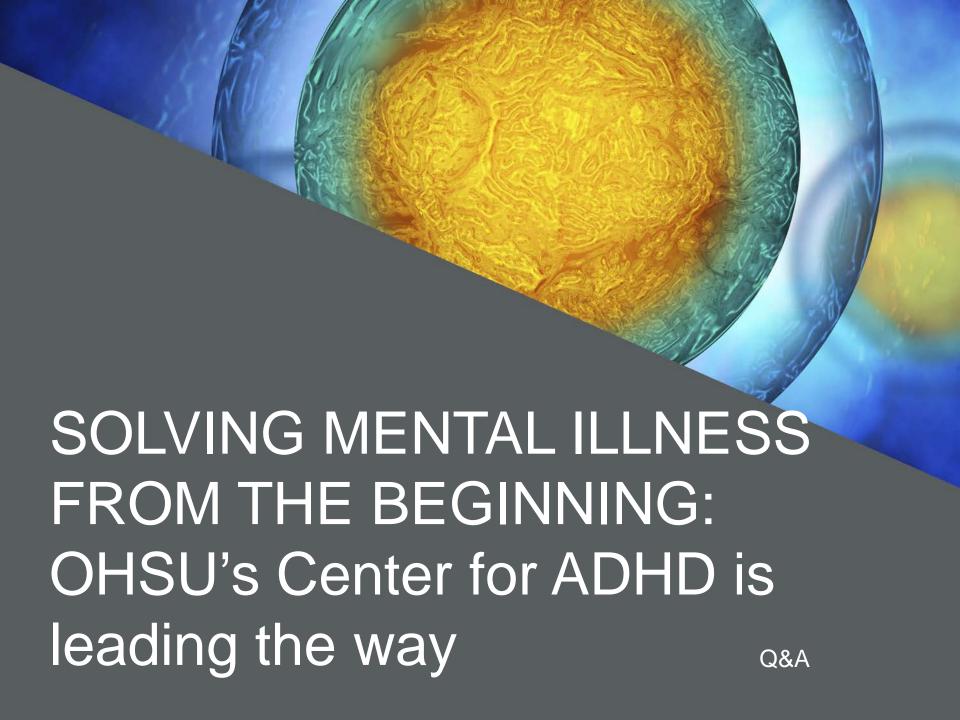


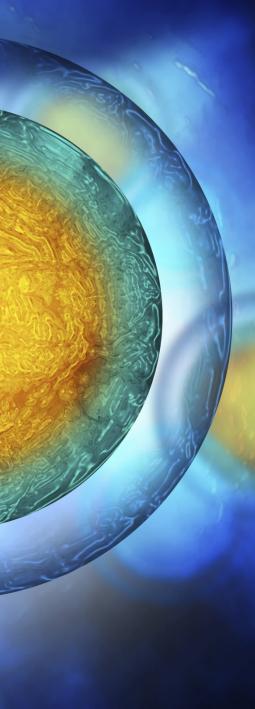


VISION

- Confirm preliminary findings
- Identify causes (genes, exposures)
- Expand treatment trials based on recent discoveries
- Improve clinical care and prevention
- Reduce incidence of mental illness







Virtuous cycle: Gifts launched studies--stimulating new grants

Cumulative \$ Philanthropic and \$ Grants (in \$millions)



Year

