### Autism Speaks Autism Treatment Network (AS ATN) Overview
Signature program of Autism Speaks | Provides core funding for 17 sites

### Autism Intervention Research Network for Physical Health (AIR-P) Overview
HRSA Collaborative Agreement UA3 MC 11054 | Provides funding for 14 of 17 sites
Builds on AS ATN by funding research, guideline/tool development, practice improvement, dissemination
[www.airnetwork.org](http://www.airnetwork.org)

### AIR-P Research Accomplishments
- 1,800+ research participants enrolled in AIR-P studies

<table>
<thead>
<tr>
<th>AIR-P Research Manuscripts</th>
<th>AS ATN Registry Manuscripts</th>
<th>Conference Abstracts &amp; Presentations</th>
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<tbody>
<tr>
<td>18</td>
<td>21</td>
<td>100+</td>
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### AIR-P Research: Protocol-Driven Network Research
Clinical research portfolio focused on improving treatment

<table>
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<tr>
<th>Completed AIR-P Studies 2008-2011</th>
<th>Active AIR-P Studies 2011-2014</th>
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<tbody>
<tr>
<td><strong>Nutrition</strong></td>
<td><strong>Psychopharmacology / Obesity</strong></td>
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<tr>
<td>“Diet and Nutrition in Children with ASD”</td>
<td>“Treatment of Overweight Induced by Antipsychotic Medication in Young People with ASD”</td>
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<tr>
<td>“Markers of Iron Status and Metabolism in Children with ASD”</td>
<td>“Overweight and Obesity in ASD: Prevalence, Correlates, and Predictors of Weight Changes Over Time”</td>
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<td><strong>Sleep</strong></td>
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<td>“Development of a Parent-Based Sleep Education Program for Children with ASD”</td>
<td>“Iron Treatment of Sleep Disorders in Children with ASD”</td>
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<td>“Sleep Disturbance in ASD and Psychiatric and Behavioral Comorbidities”</td>
<td>“Sleep Problems in Children with ASD: Examining the Role of Anxiety and Sensory Over-Responsivity”</td>
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<td><strong>Metabolism and Biomarkers</strong></td>
<td><strong>GI / Behavior</strong></td>
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<td>“Constipation and Toilet Training in Autism”</td>
<td>“Relationship between Gastrointestinal Disorders and Stress Reactivity, Immunity, and Blood Serotonin in ASD”</td>
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<td>“Study of Toddlers with Autism and Regression (STAR): Screening for treatable disorders and biomarkers of inflammation and immune activation in plasma and CNS”</td>
<td><strong>Services</strong></td>
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<td>“Bone Mineral Density in Children with ASD”</td>
<td>“Evaluating the Impact of Emergency Room Services for Children and Adolescents with ASD”</td>
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<td><strong>Neurology and Behavioral Outcomes</strong></td>
<td><strong>Guideline development and dissemination</strong></td>
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<tr>
<td>“Epileptiform Discharges and its Relation to Cognition and Behavior in Children with ASD”</td>
<td>Practice guidelines developed based on existing evidence from the literature and expert consensus where gaps in evidence exist</td>
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<tr>
<td>“The Autism Impact Measure: A New Tool to Measure Treatment Outcome in ASD”</td>
<td><strong>Three guidelines completed and published</strong> (Pediatrics supplement, November 2012)</td>
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<td><strong>Two currently in-process</strong> (Evidence reviews complete; developing guidelines)</td>
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<tr>
<td>Treatment of anxiety</td>
<td><strong>Guideline development and dissemination</strong></td>
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<td>Treatment of irritability (including agitation &amp; aggression)</td>
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Toolkit development and dissemination
Available at: www.airnetwork.org and www.autismspeaks.org
Total reach: 64,239

Fifteen Toolkits Completed and Published
- Safe Medication Use
- Sleep Quick Tips for Parents
- Applied Behavioral Analysis
- Introduction to Behavioral Health Treatments
- Toileting
- Dental Provider’s Guide
- Sleep Parent Booklet
- Visual Supports
- Blood Draws – Guide for Parents
- Blood Draws – Guide for Providers
- Medication Decision Aid
- Managing Constipation for Children with Autism
- Vision Exams for Individuals with Autism
- Delivering Feedback Video Tool for Clinicians
- Exploring Feeding Behavior in Autism

Two Upcoming Toolkits
- Pica in Children with Autism
- Supporting Children with ASD in Getting an EEG

AIR-P Collaborative to Improve Care
Quality and Practice improvement
- A learning collaborative focused on improving the healthcare provided to children with ASD
- Emphasis on increasing reliability and reducing variability of care
- Areas of focus: screening and treatment of co-morbid medical conditions (insomnia and constipation), anti-psychotic medication monitoring, access to care (wait times)
  - Access to Care example: by balancing appointment demand and provider supply, one site (Cincinnati Children’s Hospital Medical Center) decreased delay for new visits for 3-5 year olds from 117 days in Nov. 2012 to 27 days in Apr. 2013.

Capacity-Building through Mentoring, Training and Dissemination activities

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<th>Mentoring New Investigators</th>
<th>Training and Dissemination Activities; 2009 - Present</th>
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| **RFA opportunities** to support collaborations with other Combatting Autism Act Initiative sponsored programs (LEND; DBP Training Programs)  
  - Study topics by LEND/DBP trainees have included prevalence of obesity, gender differences in clinical presentation, racial disparities and interventions, and medical co-morbidities.  
| **Conferences** – helped support conferences reaching over 5,000 professionals and families  
| **Webinars** – monthly to AIR-P, LEND, DBP and AUCD membership and multiple disciplines training through UCEDDs; have reached over 1,500 professionals and trainees; previous webinars available online: https://www.youtube.com/user/ASATNAIRPNetwork  
| **Blogs** – AIR-P clinicians have written blogs that have registered thousands of views. Over a dozen addressing topics such as DSM-5, exercise, depression, and introducing new toolkits. Web views are 20,000+  
| **Trainings** – AIR-P support has prompted development of skills training programs that are ongoing and self-supporting to both parents and teachers  

Planning for the future
- Developing new models of care
  - Close links to primary care/ medical home  
  - Regional centers of excellence  
  - Innovations in primary care
    - Telehealth  
    - Clinician Decision Support/Backup programs  
- Expanding externally-funded research
  - Strengthening Data Coordinating Center  
  - Active support for investigators  
- Addressing transition  
- Translating Improvements to Larger Populations