MISSOURI AUTISM CENTERS
Progressive Partnerships
AUTISM PREVALENCE SINCE 2000

1 in 166
1 in 150
1 in 125
1 in 110
1 in 88
1 in 68

CDC Prevalence Statistics for ASD
STUDENTS IDENTIFIED WITH ID AND AUTISM 2000 - 2010

Penn State
DD CENSUS 2000 - 2016

Other
ASD
ID
All
DD CENSUS – UNDER 21

- Under 21 Total
- Under 21 w/ASD
- Under 21 w/ID no ASD
MISSOURI RESPONSE

1991: MO Autism Projects
2007: Blue Ribbon Panel on Autism
2008: Autism Commission / OAS
2008: Initiation of Autism Centers
2009: Autism Waiver (Behavioral Services)
2010: MAGI – Screening, Diagnosis, Intervention Planning
2011: Show-Me State Plan
2011: Autism Insurance
2012: MAGI – Evidence-Based Interventions
2014: ABA under State Plan Medicaid
AUTISM CENTER TIMELINE

2008:
Cardinal Glennon
Children’s Mercy
Thompson Center

2009:
SEMO Autism Center

2015:
Washington University Autism Clinic

2016:
Mercy Kids Autism Center
Autism Centers
Individuals Served and Waiting End of Year

<table>
<thead>
<tr>
<th></th>
<th>FY 12</th>
<th>FY 13</th>
<th>FY 14</th>
<th>FY 15</th>
<th>FY 16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of individuals evaluated at autism centers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total number of individuals waiting for evaluation at the end of the year</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Addition of one more Center in FY 16
Cardinal Glennon: Diagnostics

- Multidisciplinary Diagnosis
  - Physicians (multispecialty), Psychology, Speech, OT
  - Easier Epic referral with PCP involvement
  - Increased referral number

- Family Support
  - Waiting list/Service access

- Family Advisory Committee

- Programs
  - Move to Communicate
  - Dog Therapy Clinic
  - Dental Care for Children with ASD
  - Reach Out and Read
  - Special Olympics Missouri

- Ambassador Choice Award
CARDINAL GLENNON: EDUCATION & TRAINING

- Grand Rounds/Web/Online/Workshops/Direct Training
- Professionals
  - Fellowship in Developmental Pediatrics
  - Medical: Pediatricians, Child Neurology, Physician Assistants
    Adult Medicine: Psychiatry, Family/Internal Medicine
  - Educators: Parents as Teachers, IEP, School
  - Therapists
  - First Responders: STARS
- Trainees
  - MS/Residents: Pediatrics, Psychiatry, Neurology, Internal Medicine, Family Medicine, Physician Assistants
  - Undergraduate, Graduate Students: ST, OT
- Families
  - Resource Specialists, FAC, MPACT, Transition, PEERS, MTC
Program for the Education and Enrichment of Relational Skills (PEERS)

What? Evidence-based social skills training
- Social communication
- Friendship
- Bullying

Who? 12-18 year old individuals with social deficits including parent training

Where? KOC and St. Luke’s Hospital

Expansion: Trainers for trainers in Mehlville School based PEERS

St. Louis County Children’s Service Fund

Target: Clinical, Research, Education
CHILDREN’S MERCY: DIAGNOSTICS

- Year 1: 161
- Year 9: 494 (206% increase from Y1)
- Total Years 1-9: 3,452

Additional Staff: 6 psychologists – providing variety of services, SLP, OTR, - portions of these dedicated to our teams, Education Coordinator and Family Resource Specialist, and Program Coordinator
Trainings to Students/Professional Staff: medical staff, community professionals – police, fire, nurses, care assistants, EMS, teachers, early childhood educators, First Steps, Regional Office, Head Start, etc.

Total Served: 11,537

Trainings to Families: Newly Diagnosed Family Meeting; ABA, Managing Your Child’s Home and School Program; Eating and Enjoying It, etc.

Total Served: 1,885

Family Resource Coordinator:
2,282 Referrals / 11,165 Contacts Made
MERCY KIDS AUTISM CENTER: DIAGNOSTICS

- General Developmental Assessment
- Focused Clinical Screening
- Formal Diagnostic Testing
MERCY KIDS AUTISM CENTER: EDUCATION & TRAINING

Training Future Clinicians:

- BCBA and BCaBA Practicum
- OT and SLP Training
- Mercy Family Medicine Residents Training
- LPC Internship Program
Mercy Kids Autism Center: Program Highlight

MKAC Intensive Early Intervention Program/ESDM

- Evidence-based EI program within day-care setting; innovative, adapted model to group setting and have developed extensive additional training modules; 13 therapists and BCBAs have completed or are in active certification process
- Recent expansion – allowed for 200% growth in number of children we can serve at one time; expanded age range to 18-60 months or kindergarten eligibility
- Planned expansion to other location within St Louis and St Charles County regions
Semo Autism Center: Diagnostics

- Coverage Area: 19 Counties
  - Paucity of psychological services in our area – Great need for diagnostic services
    - 2 Psychologists providing comprehensive autism evaluations
    - 10 Psychologist regularly providing any type of diagnostic evaluation*

- Center Diagnostic Staff
  - 2 Psychologists and 2 Speech Pathologists
    - Diagnostic rate for children under 4 is 40-60%
    - Diagnostic rate for children 5-10 is 35-50 %
    - Diagnostic rate for adolescents and adults is 10-30%
SEMO AUTISM CENTER: EDUCATION & TRAINING

- Internship and practicum through Southeast Missouri State University
  - Mental Health Counseling Practicum and Internship
  - Psychology Internship
  - Speech Pathology Internship

- Training
  - School based training on dual diagnosis (DD and MI)
  - Community-based training (Summer Institute)
    - Differential diagnosis and screening
    - Behavioral interventions
    - Speech interventions
SEMO Autism Center: Program Highlight

Head Start Collaboration – Delta Area
Purpose: early diagnosis for families with numerous barriers

- **Rural communities**
  - High rates of poverty
  - Lack of reliable transportation
  - Limited access to primary care
  - Paucity of psychological service providers
  - First contact with professionals assessing child development

- **Triage and Testing**
  - Ages Stages Questionnaire – Social Emotional (screening is federally mandated and ASQ used to assist)
  - SCQ – confirmation of need for ASD testing
  - ADOS 2 completed at local Head Start by Center Psychologist
THOMPSON CENTER: DIAGNOSTICS

- What are we doing?
  - Recruiting more providers
  - Training more providers
  - Increased expertise on diagnostic measures, e.g. research reliability on ADOS
  - Working on quality, utilization, and efficiency projects
    - Blitz
    - No-show rates
    - New clinics
    - Improved triage

- What are our barriers?
  - Hard to recruit
  - Funding
  - Seeing more kids may not decrease the waitlist
THOMPSON CENTER: EDUCATION & TRAINING

- **Parent Training**
  - Next Steps: Post Diagnosis Training
  - Regional One Day Conferences
  - Quarterly Invited Community Presentations

- **Professional Training**
  - **TEAM** - Behavior Analysts, Care Coordination, Education, Medical
  - Annual Autism Conference
  - Online video modules
  - Autism Friendly Business (AFB)
THOMPSON CENTER:
PROGRAM HIGHLIGHT

- Graduate training in ABA
  - Master's of Science in ABA Program
  - Graduate Certificate in ABA Program

- Expansion of ABA Services
  - Increase services for families
  - Increase geographical reach
WASHINGTON UNIVERSITY: DIAGNOSTICS

Indicated below is the proportion of each staff member’s FTE that is devoted to the WU-ACC, with total costs offset by program income from insurance reimbursement, such that the state subsidy is leveraged to secure a substantially higher level of effort:

- Eric Wittrock, DO 15%
- Natasha Marrus, MD, PhD 10%
- Bryan Sewing, DO 10%
- John Constantino, MD 5%
- Mike Bunis, PsyD 40%
- Mike Gaffrey, PhD 20%
- Elizabeth Judd, CPNP, MSN 85%
- Rebecca Light-Pearlman DNP, CPNP 45%
- Amy Guignon, BCBA 100%
- Brandon May, BCBA 40%
- Katie Bogan, OTD, OTR/L 25%
- Donna Sand, HS 15%
- Jennifer Bay, HS 25%
- Megan Panther, MBA 25%
- Michelle Rodgers, BS 20%
- Mike Gaffrey, PhD 20%
- Brandon May, BCBA 40%
- Katie Bogan, OTD, OTR/L 25%
- Donna Sand, HS 15%
- Jennifer Bay, HS 25%
- Megan Panther, MBA 25%
- Michelle Rodgers, BS 20%
- Mike Gaffrey, PhD 20%
- Brandon May, BCBA 40%
- Katie Bogan, OTD, OTR/L 25%
- Donna Sand, HS 15%
- Jennifer Bay, HS 25%
- Megan Panther, MBA 25%
- Michelle Rodgers, BS 20%
- Mike Gaffrey, PhD 20%
- Brandon May, BCBA 40%
- Katie Bogan, OTD, OTR/L 25%
- Donna Sand, HS 15%
- Jennifer Bay, HS 25%
- Megan Panther, MBA 25%
- Michelle Rodgers, BS 20%

Number of Patient Evaluations by Quarter

- Administered to all patients
- Additionally Administered (based on age: birth-12 months, 13-30 months, 31-48 months, and 49 months+)
WASHINGTON UNIVERSITY: EDUCATION & TRAINING

- Early Preventive Intervention Training
  - In-home, 16-week, parent-implemented interventions for children birth-2 years, taught by OT & BCBA

- Training the Next Generation of Child Psychiatrists
  - Direct clinic-experience training for an average of 35 residents, fellows, and medical students per quarter

- Conferences, Seminars & Lectures
  - Cross-departmental/discipline audiences at:
    - Autism Seminar Series, ‘Nuts & Bolts’ lecture to child psychiatry trainees, Developmental Psychopathology Series, Pediatric Psychiatry for the Primary Caregiver CME event, Sex Differences in Development and Disease of the CNS Symposium
    - Avg. 3 conferences and/or seminars per quarter, reaching 30 students, 150 professionals, and 50 families

- Community Presentations
  - WU-ACC faculty and staff are members/affiliated with the following organizations, working together to present to the greater St. Louis region and beyond:
    - St. Louis Children’s Hospital, AACAP, MDMH Regional Behavioral Support Plan Review Committee, INSAR, University of Vermont
In addition to diagnostic assessment and education/training opportunities, WU-ACC offers:

- **Behavioral Support/Comprehensive Intervention Planning**
  - 2 BCBAs modify inadequate positive behavioral support plans, or create new plans for families

- **Developmental and Behavioral Assessment Unit (DBAU)**
  - In-depth cognition, development, and behavior testing, when indicated

- **Specialty Medical Consultation/Psychiatric Care**
  - CMA testing (through separate funding source) provided, as indicated
MAINTAINING MOMENTUM

- Collaboration
- Bridging gaps
- Maximizing and leveraging public investment
- Employment
- Common Baseline Data Collection – MO ACs