

The DHHS Early Intervention Grant and The Mariposa School



Overview

- Mariposa was founded in September, 2001
- The only school in the Triangle area providing 100% Applied Behavior Analysis based treatment to children with autism and related developmental disabilities.
- Main program is one-to-one Early Intensive Behavior Intervention (EIBI).
- Mariposa currently serves 47 children in EIBI and 9 in afterschool Social Skills.
- Currently, 12 children receive assistance through the grant with 10 receiving full tuition coverage and 2 receiving partial tuition.



Early Intensive Behavioral Intervention

- One-to-one instruction
- 15 hours per week for children on the grant
- The programming is based on a criterion-referenced assessment/curriculum known as the Verbal Behavior Milestones Assessment and Placement Program (VB-MAPP)
- The VB-MAPP assesses developmental milestones related to language and social skills.
- Skills are taught in the sequence in which typically developing children acquire the skills.

Early Intensive Behavioral Intervention

- The United States Surgeon General (1999) concluded, “Thirty years of research demonstrated the efficacy of applied behavioral methods in reducing inappropriate behavior and in increasing communication, learning and appropriate social behavior.” (<http://www.asaonline.org/treatment/treatments/applied>)
- In a meta-analysis by Peters-Scheffer, Didden, Korzilius, and Surmey (2010) reported on 11 studies with 344 children with ASD. Experimental EIBI groups outperformed the control groups on IQ, non-verbal IQ, expressive and receptive language and adaptive behavior. Differences between the experimental and control groups were 4.96–15.21 points on standardized tests. These results strongly support the effectiveness of EIBI. (*Research in Autism Spectrum Disorders*, 5, 60-69)

Early Intensive Behavioral Intervention

- Chasson, Harris, and Neely, in the *Journal of Child and Family Studies* (2007), reported: “The financial implications of the increased prevalence of autism, ... will be extremely important to society. We compared the costs associated with 18 years of special education to the costs associated with the implementation of an average of 3 years of Discrete Trial Training as an Early Intensive Behavioral Intervention (EIBI).... **Our results indicate that the state of Texas would save \$208,500 per child across eighteen years of education with EIBI.”**



Funding

- The State Grant provides approximately 23% of Mariposa's total funds.
- Students with partial funding (2) receive 40% of their tuition from the grant.
- While fundraising is a continuous effort, only 2% of our funding comes from outside sources. (For fiscal year '12-13 we have raised \$30,152.68; leaving approximately \$3900 needed to meet our 10% match requirement).
- The remaining cost (approximately 70%) is borne by parents who pay tuition or are fortunate to have insurance that covers the cost. (6 out of 47 students)



Funding

The Mariposa School State Grant Budget

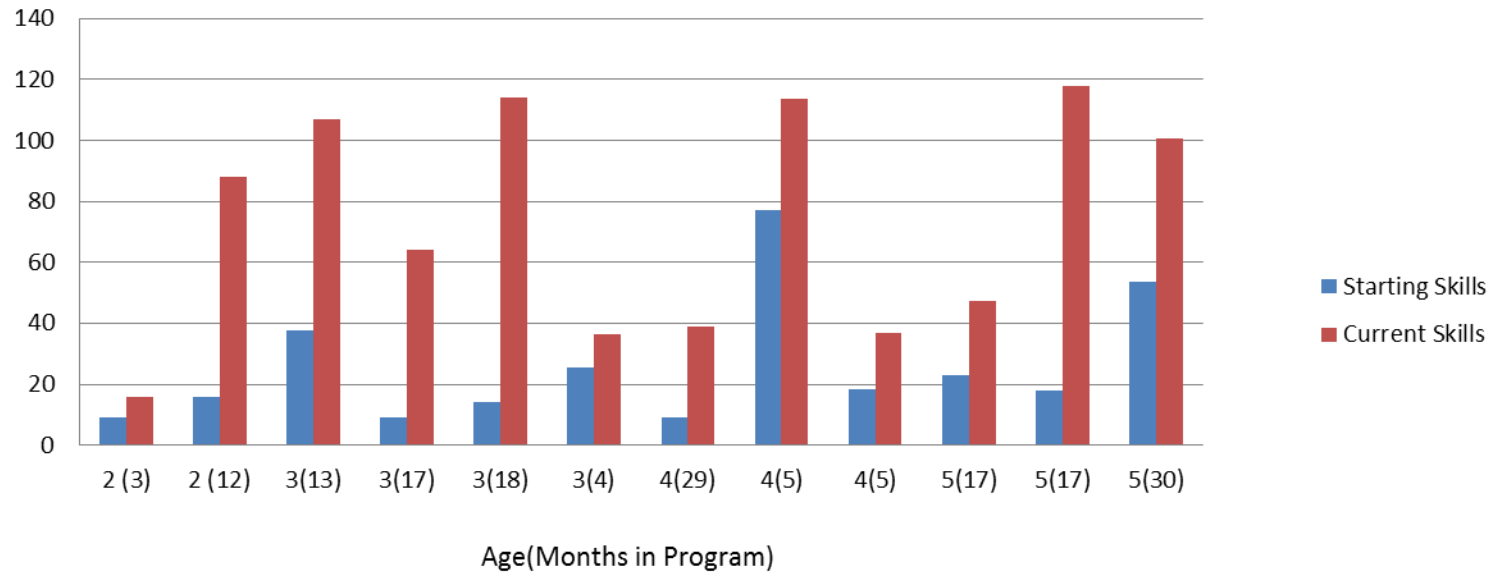
Expenditure Category	Approved Budget	Year to Date Expenditures	Remaining Expenditures
<i>Salary/Wages</i>	262,509.00	151,602.19	110,906.81
<i>Fringe Benefits</i>	25,940.00	15,823.83	10,116.17
<i>Supplies & Materials</i>	5,000.00	2,507.08	2,492.92
<i>Travel</i>	1,300.00	379.02	920.98
<i>Utilities</i>	5,400.00	3,239.58	2,160.42
<i>Repair & Maintenance</i>	1,800.00	1,800.00	
<i>Staff Development</i>	1,500.00	28.07	1,471.93
<i>Rent</i>	29,000.00	19,627.18	9,372.82
<i>Professional Services</i>	4,230.00	3,338.35	891.65
<i>Other</i>	3,200.00	2,819.80	380.20
TOTALS	\$339,879.00	\$201,165.10	\$138,713.90

Results

- A total of 37 children have been funded with the EIBI State grant. Of those 25 received full tuition while 12 received partial tuition assistance.
- Maximum served was 16 in the 2008-'09 fiscal year.
- Following graph includes 11 current students with one added who left in December and one omitted who started in January.
- All students make progress, some make remarkable progress.

Results

Improvement in VB-MAPP Scores by Age and Months in the Program



Results: What the graph doesn't say

- The boy represented at 2(3) could (would) not sit up when he arrived and cried throughout the day. He now sits happily in a chair and on the potty which he is starting to use and uses 4 signs.
- The boy represented by 3(18) did not talk on arrival but left the program in December to attend regular preschool and is generally indistinguishable from his peers.
- In general, a score of 20 or less represents a child who says less than 2 words. A score of 80 or more represents a child who can ask and answer question and make his wants and needs known.

Where would we be without this grant?

- If Mariposa did not receive the grant none of the children depicted on the graph would have received sufficient EIBI services.
- If Mariposa does not receive the grant all of the children will have services terminated.
- If Mariposa does not receive at least 6 employees at the school will lose their jobs.
- If Mariposa does not receive the grant the State of North Carolina may need to provide additional educational services throughout their education—estimated earlier to be over \$200,000 per child according to the Texas study.

THANK YOU

- The staff and families of The Mariposa School thank the North Carolina Legislature and the Department of Health and Human Services for providing this grant for the past 4.5 years and we look forward to continuing to providing services under the grant to those most in need at a time in their lives when help is most beneficial.