A National Picture: Indicator C4 Family Data for FFY 2014

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Purpose of Today’s Webinar

• To share & discuss Part C APR Indicator 4 national data for FFY 2014-2015
• To review the family indicator data quality profiles
• To highlight key resources related to family data & family outcomes
Part C APR Indicator 4

Percent of families who report that early intervention services have helped the family...

(A) …know their rights
(B) …effectively communicate their children's needs
(C) …help their children develop and learn
What Data are Included?

• Data from states’ February, 2016 APR submission
  – Federal Fiscal Year (FFY) 2014
  – School year 2014-2015
• All 56 states & jurisdictions
• Quantitative data as reported by OSEP
• Additional ECTA coding & analyses
• Caveat on missing data
APR Data Topics for Today

- **State Approaches**
  - Surveys used
  - Family populations surveyed
  - Dissemination and return methodologies

- **Data Quality**
  - Response rates
  - Representativeness

- **Performance Data**
  - Current year
  - Trends over time
  - By survey used
State Approaches: Surveys Used

- NCSEAM (17 states, 30%)
- FOS-Revised (12 states, 21%)
- FOS –original (12 states, 21%)
- State-developed (8 states, 14%)
- Not reported or unclear (7 states, 13%)
State Approaches: Family populations surveyed

- Family subgroups
  - All families in program: 25 states
  - Greater than six months of services: 18 states
  - Other: 4 states
  - Not reported/unclear: 9 states

- Census vs sampling
  - Census: 45 states
  - Sampling: 11 states
Dissemination and Return Methodologies

• Dissemination Methodologies (n=56)
  – Mailed: 12 states
  – In-person: 12 states
  – Multiple methods: 14 states
  – Not reported/unclear: 18 states

• Return Methodologies (n=56)
  – Multiple methods: 25 states
  – Mailed: 6 states
  – Not reported/unclear: 25 states

• Online option: 22 states (39%)
State Approaches: Survey Timing

- Reported timing of surveys
  - Annual survey/ point in time: 23 states
  - At child’s exit: 8 states
  - At annual IFSP: 6 states
  - Other: 3 states (e.g. multiple survey groups)
  - Not reported or unclear: 16 states
Survey Response Rates

- Forty-three states (77%) reported a response rate.
- Response rates ranged from 11.3% to 100%.
- Mean response rate = 35.3%.

<table>
<thead>
<tr>
<th>Survey Distribution Method</th>
<th>Average response rate</th>
<th>Number of states</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-person distribution</td>
<td>50.2%</td>
<td>12</td>
</tr>
<tr>
<td>Multiple distribution</td>
<td>44.2%</td>
<td>16</td>
</tr>
<tr>
<td>methods</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(two or more methods)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mailed-only distribution</td>
<td>25.1%</td>
<td>12</td>
</tr>
</tbody>
</table>
Data Quality: Representativeness of Family Data

• Variables analyzed by states
  – Race/ethnicity
  – Geographic variables (district, county, region)
  – Child’s gender
  – Child’s age (at time of survey, at referral)
  – Others: disability/eligibility categories, length of time in services, income, primary language
Representativeness of data: State determination

- Yes (49 states)
- No (5 states)
- Missing (2 states)

Comparison data used:

- Program Data (24 states)
- 618 Data Tables (12 states)
- Not reported (16 states)
- Other (4 states)
What analyses did we see?

- Reported performance and response rate data by subgroup: 2 states
- Reported performance data by subgroup: 3 states
- Reported response rate data by subgroup: 21 states
- Did not report any data by subgroup: 30 states
Performance Data
FFY 2014
FFY 2014 Performance

Percent of families who report that early intervention services have helped the family…

A. …know their rights: **89.7%**
B. …effectively communicate their children's needs: **90.1%**
C. …help their children develop and learn: **91.8%**
FFY 2014 Performance Trends over Time

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Families know their rights</td>
<td>86</td>
<td>87</td>
<td>87</td>
<td>88</td>
<td>90</td>
</tr>
<tr>
<td>Families effectively communicate children's needs</td>
<td>87</td>
<td>88</td>
<td>88</td>
<td>89</td>
<td>90</td>
</tr>
<tr>
<td>Families help their children develop and learn</td>
<td>90</td>
<td>91</td>
<td>90</td>
<td>91</td>
<td>92</td>
</tr>
</tbody>
</table>
### Trends - Six Years of Indicator 4A Data

Early intervention services have helped the family know their rights

<table>
<thead>
<tr>
<th>Average Percent Reported</th>
<th>SY 2009-10</th>
<th>SY 2010-11</th>
<th>SY 2011-12</th>
<th>SY 2012-13</th>
<th>SY 2013-14</th>
<th>SY 2014-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean</td>
<td>86</td>
<td>86</td>
<td>87</td>
<td>87</td>
<td>89</td>
<td>90</td>
</tr>
<tr>
<td>Highest</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Lowest</td>
<td>49</td>
<td>55</td>
<td>57</td>
<td>51</td>
<td>65</td>
<td>69</td>
</tr>
<tr>
<td>No Data</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
Indicator 4B: Performance by State

Average Percent Reported

Individual State Performance

Mean
Early intervention helped the family effectively communicate their children's needs

<table>
<thead>
<tr>
<th>Average Percent Reported</th>
<th>SY 2009-10</th>
<th>SY 2010-11</th>
<th>SY 2011-12</th>
<th>SY 2012-13</th>
<th>SY 2013-14</th>
<th>SY 2014-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean</td>
<td>86</td>
<td>87</td>
<td>87</td>
<td>88</td>
<td>89</td>
<td>90</td>
</tr>
<tr>
<td>Highest</td>
<td>99</td>
<td>100</td>
<td>100</td>
<td>99</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Lowest</td>
<td>53</td>
<td>54</td>
<td>56</td>
<td>51</td>
<td>58</td>
<td>64</td>
</tr>
<tr>
<td>No Data</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
Early intervention has helped the family help their children develop and learn.

<table>
<thead>
<tr>
<th>Average Percent Reported</th>
<th>SY 2009-10</th>
<th>SY 2010-11</th>
<th>SY 2011-12</th>
<th>SY 2012-13</th>
<th>SY 2013-14</th>
<th>SY 2014-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean</td>
<td>90</td>
<td>90</td>
<td>90</td>
<td>90</td>
<td>91</td>
<td>92</td>
</tr>
<tr>
<td>Highest</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Lowest</td>
<td>60</td>
<td>62</td>
<td>62</td>
<td>51</td>
<td>73</td>
<td>74</td>
</tr>
<tr>
<td>No Data</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
Promising Practices

• Improving response rates and representativeness
  – Adding follow up strategies to subgroups to increase response rates
  – Adding Quick Response (QR) reader codes so families could complete surveys on their phones
  – Requiring local improvement strategies to meet response rate targets

• Sharing data back with families (newsletters, flyers, etc.)

• Collaborations with Parent Centers/ PTIs
Family Data Quality Profiles
State Data Quality Profiles for C4 Family Data
FFY 2014-15

Family Outcomes Profile:
Approach Information, Survey Methodology, Data Quality, and Performance Trends
State 2014-2015

II. Data Quality

This section provides critical information and recommendations for subgroups. ECTA recommends using this information to assess the quality of the data, including response rates and proportions for each subgroup. Key theme impacts: survey results represent other different subgroups, such as form of supportive services, those having different family well-being levels, or

- Family Support
- Parenting
- Economic
- Housing
- Education
- Employment
- Health
- Substance Abuse
- Mental Health
- Child Support
- Multiple
- Other

ECTACenter
Overview of the Family Data Quality Profiles

• Summary of information related to C4 data that was gathered from each state’s APR or SPP for FFY 2014-15
• Distributed by ECTA state liaison’s last week
  – Sent to Part C coordinator
• Three main sections
  – Approach information and survey methodology
  – Data quality
  – Performance trends
• PLEASE contact Siobhan or Melissa if anything is incorrect and needs to be updated!
Approach Information and Survey Methodology

- Variables reported
  - Survey used
  - Scoring metric
  - Survey timing
  - Family population
  - State sampling
  - Sampling type
  - Distribution method
  - Return method
  - Online version available
Data Quality

- **Response rate**
  - Response rate: Both state and national average
  - State analyzed response rates by subgroup

- **Representativeness**
  - State reported data were representative
  - Comparison data used to determine representativeness
  - State examined subgroups to determine representativeness
  - Variables used to determine representativeness
  - State’s comments about representativeness
Data Quality

• Importance of both response rate and representativeness
  – Response rate: Percentage of surveys returned
  – Representativeness: Determination of whether there are difference between the types of families who returned and didn’t return the survey

• Multiple levels of specificity
  – Whether or not it was examined
  – Reported on variables used in analysis
  – Results of analyses are reported
Performance Data

Part C Indicator 4: National Average Compared to State

- Know their Rights: State 79%, National Average 90%
- Effectively Communicate: State 82%, National Average 90%
- Develop and Learn: State 88%, National Average 92%
Performance Data

Part C Indicator 4: Know their Rights
Performance Data Tools
Updated National Graphing Template

<table>
<thead>
<tr>
<th></th>
<th>National Mean FFY 2014 (n=56)</th>
<th>Know their rights</th>
<th>Effectively communicate children’s needs</th>
<th>Help their child develop and learn</th>
</tr>
</thead>
<tbody>
<tr>
<td>YOUR STATE NAME HERE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Part C Indicator 4: Family Outcomes
National Mean Compared to State

http://ectacenter.org/eco/assets/xls/FamilyOutcomes-State_approaches_calculator.xlsx
Meaningful Differences Calculator

http://ectacenter.org/eco/assets/xls/MeaningfulDifferencesCalculator_FamilyOutcomes.xlsx
Local Program Graphing Template

Know their rights

http://ectacenter.org/eco/assets/xls/Local_program_graphing_template_familyoutcomes.xlsx
Data Quality Tools
## Response Rate & Representativeness Calculator

### Instructions

**Step 1:** For each subgroup variable (e.g., race, disability category), enter the number of families in your target population in the yellow cells.

*Note:* The target population used for comparison could be 618 child count data, program data, or some other population. The total number of families (e.g., 6275) should always be the same.

**Step 2:** For each subgroup variable, enter the number of families who responded to the family survey in the blue cells.

*Note:* If you completed the 'Response Rate' tab, these numbers will automatically populate. If not, you will need to enter them manually.

**Step 3:** The target and actual representation for each subgroup variable will calculate based on inputs from Step 1 and 2. If there is a statistically significant difference between these two subgroup percentages, the 'Are your data representative' row will populate with 'No' and be highlighted in pink. If there isn't a difference between the target and actual percentages then your data from this subgroup is representative and the 'Are your data representative' row will populate with 'Yes' and be highlighted in green. The overall representativeness for the subgroup variable is in the bottom right corner of each table.

*Note:* An example is provided using race as a subgroup variable.

### Example

<table>
<thead>
<tr>
<th></th>
<th>African American or Black</th>
<th>American Indian or Alaska Native</th>
<th>Asian</th>
<th>Native Hawaiian or Pacific</th>
<th>White</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td># families in target population</td>
<td>1628</td>
<td>382</td>
<td>461</td>
<td>159</td>
<td>3645</td>
<td>6275</td>
</tr>
<tr>
<td># families responded to survey</td>
<td>100</td>
<td>50</td>
<td>25</td>
<td>8</td>
<td>310</td>
<td>493</td>
</tr>
<tr>
<td>Target representation (% of families)</td>
<td>26%</td>
<td>6%</td>
<td>7%</td>
<td>3%</td>
<td>58%</td>
<td></td>
</tr>
<tr>
<td>Actual representation (% of families)</td>
<td>20%</td>
<td>10%</td>
<td>5%</td>
<td>2%</td>
<td>63%</td>
<td></td>
</tr>
<tr>
<td>Difference</td>
<td>-6%</td>
<td>4%</td>
<td>-2%</td>
<td>-1%</td>
<td>5%</td>
<td>Race Overall</td>
</tr>
<tr>
<td>Are your data representative?</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Other Resources

• ECTA Outcomes family measurement home page

• Longitudinal graphing calculator

• Collecting and using family indicator data

• Analysis Resources
We Can Help

• Contact us for help with questions related to
  – Data analysis
  – Data quality
  – Program improvement
• Siobhan Colgan
  – siobhan.colgan@unc.edu
• Melissa Raspa
  – mraspa@rti.org