



## SPP/APR Submission Guidance

# Data Calculation—Indicator C4: Family Outcomes

October 2024

## Indicator

Percent of families participating in Part C who report that early intervention services have helped the family:

- A. Know their rights;
- B. Effectively communicate their children's needs; and
- C. Help their children develop and learn.

## Measurement

- A. Percent = [(# of respondent families participating in Part C who report that early intervention services have helped the family know their rights) divided by the (# of respondent families participating in Part C)] multiplied by 100.
- B. Percent = [(# of respondent families participating in Part C who report that early intervention services have helped the family effectively communicate their children's needs) divided by the (# of respondent families participating in Part C)] multiplied by 100.
- C. Percent = [(# of respondent families participating in Part C who report that early intervention services have helped the family help their children develop and learn) divided by the (# of respondent families participating in Part C)] multiplied by 100.

## General Considerations

- States will need to define which questions or items in their surveys apply to each of the three outcomes and summarize the data accordingly.
- States need to be aware of survey item nonresponse. This refers to when respondents do not provide answers to specific questions. Reasons for item nonresponse include question sensitivity, question difficulty, and survey design issues. It is important to be aware of item nonresponse because it can introduce bias into the results and can affect the counts of responses across the three outcomes.

## Numerator and Denominator Guidance

### *Outcome A: Know their rights*

The **numerator** includes:

- Number of families who responded that early intervention services have helped the family know their rights

The **denominator** includes:

- Number of families who responded to the survey for Outcome A

### *Outcome B: Effectively communicate their children's needs*

The **numerator** includes:

- Number of families who responded that early intervention services have helped the family effectively communicate their children's needs

The **denominator** includes:

- Number of families who responded to the survey for Outcome B

### *Outcome C: Helped the family help their children develop and learn*

The **numerator** includes:

- Number of families who responded that early intervention services have helped the family help their children develop and learn

The **denominator** includes:

- Number of families who responded to the survey for Outcome C

## Data Source

The state selects the data source. States must describe the data source in the SPP/APR.

- Sampling of families participating in Part C is allowed. When sampling is used, states must submit a detailed description of the sampling plan outlining how the design will yield valid and reliable estimates.

## Data Points Needed for Outcomes Calculation

- Responses to the question(s) of whether early intervention services have helped the family know their rights
- Responses to the question(s) of whether early intervention services have helped the family effectively communicate their children's needs
- Responses to the question(s) of whether early intervention services have helped the family to help their children develop and learn

## Example Calculations

### *Outcome A: Know their rights*

2,932 families reported Part C helped them know their rights

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3,000 families responded to Outcome A

OR

$2,932 / 3,000 = 0.977 \times 100 = 97.7\%$  of families reported Part C helped them know their rights

### *Outcome B: Effectively communicate their children's needs*

2,900 families reported Part C helped them effectively communicate their children's needs

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3,000 families responded to Outcome B

OR

$2,900 / 3,000 = 0.967 \times 100 = 96.7\%$  of families reported Part C helped them effectively communicate their children's needs

### ***Outcome C: Helped the family help their children develop and learn***

2,968 families reported Part C helped them help their children develop and learn

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3,000 families responded to Outcome C

OR

$2,968 / 3,000 = 0.989 \times 100 = 98.9\%$  of families reported Part C helped them help their children develop and learn

This data calculation document is one in a series of documents available at: <https://dasycenter.org/spp-apr-checklists-and-tips/>

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### **Suggested Citation**

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### **About Us**

The contents of this brief were developed under a grant from the U.S. Department of Education, #H373Z190002. However, those contents do not necessarily represent the policy of the U.S. Department of Education, and you should not assume endorsement by the Federal Government. Project Officers, Meredith Miceli and Amy Bae.

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