



Massachusetts Department of Public Health

Data Completeness: Part C Indicator 3

February 25, 2025

Early Intervention Division

Agenda

What is Indicator 3?

How is Indicator 3 Calculated?

Importance of Data Completeness

Challenges in Achieving Data Completeness

Strategies for Improving Data Completeness

What is Indicator 3?

Federal Regulations (20 U.S.C. 1416(a)(3)(A) and 1442)

Percent of infants and toddlers with Individualized Family Service Plans (IFSPs) who demonstrate improved:

3A. Positive social-emotional skills (including social relationships);

3B. Acquisition and use of knowledge and skills (including early language/communication); and

3C. Use of appropriate behaviors to meet their needs.

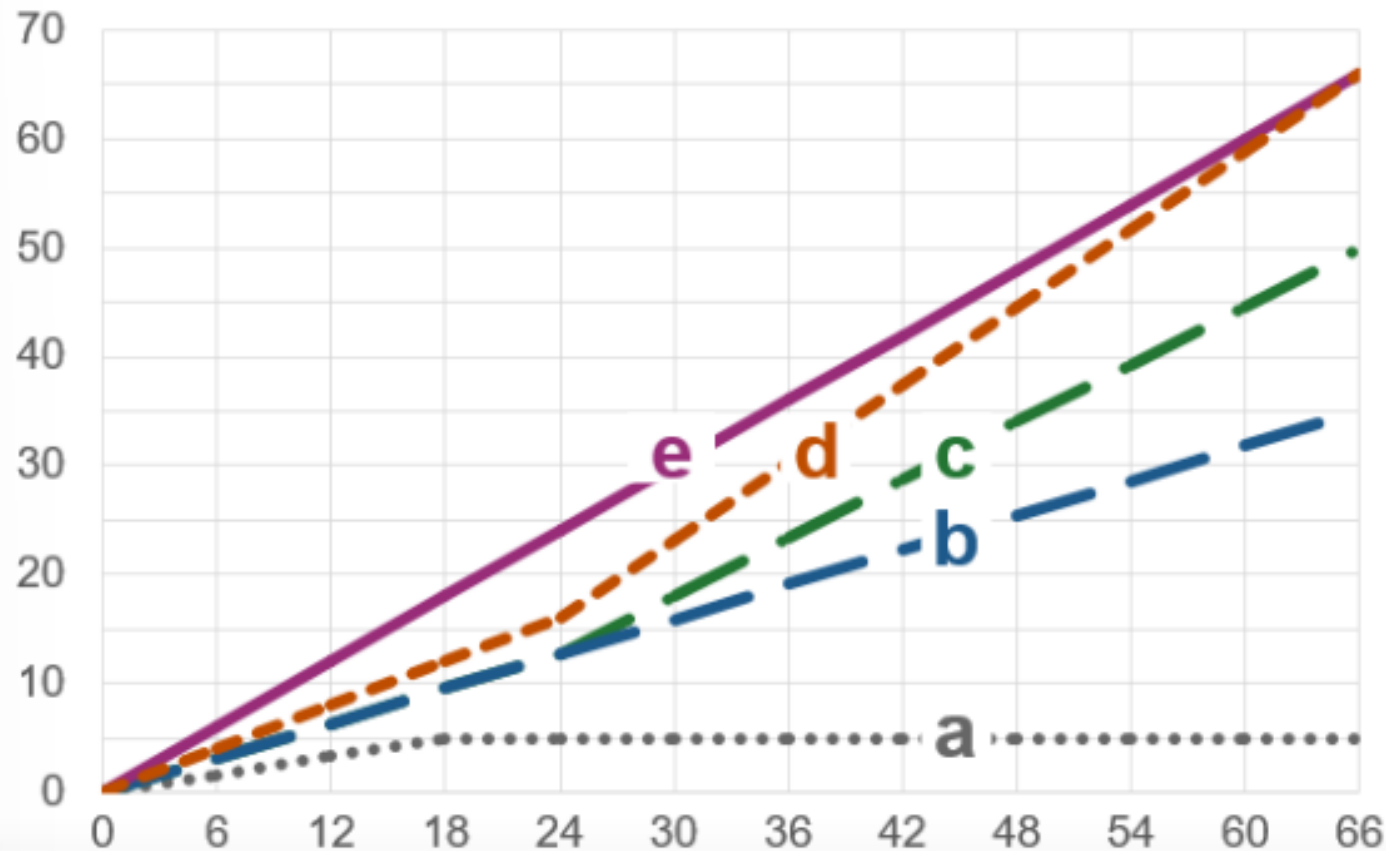
What is Indicator 3?

OSEP requires states to report data annually on three child outcomes:

- Children have positive social-emotional skills (including social relationships)
- Children acquire and use knowledge and skills (including early language/communication [and early literacy])
- Children use appropriate behaviors to meet their needs

How is Indicator 3 Calculated?

OSEP Progress Categories



- a. Did not improve functioning
- b. Improved in functioning, but not enough to change the growth trajectory
- c. Moved closer to functioning like same- aged peers
- d. Improved functioning and reached a level comparable to same aged-peers
- e. Maintained functioning like same aged peers

How is Indicator 3 Calculated?

The Summary Statements

$$\frac{(c + d)}{(a + b + c + d)}$$

$$\frac{(d + e)}{(a + b + c + d + e)}$$

1. Of those children who entered or exited the program below age expectations in each outcome, the percent who substantially increased their rate of growth by program exit.
2. The percent of children who were functioning within age expectations in each outcome by program exit.

How is Indicator 3
Calculated?



How is Indicator 3 Calculated?

- Data Source: Early Intervention Client System
- Data Collection Period: July 1 - June 30
- Denominator: Children discharged during the Data Collection Period AND
 - A minimum of 2 BDI's
 - Across programs
 - No Missing DQ Scores
 - 6 months or more apart
 - Includes any children that had ANY discharge within the reporting date range. It may not be the child's final discharge.
 - Excludes any child who is ≥ 3 at discharge or less than 6 months of services
- Numerator: Compares the earliest and latest BDI scores.

How is Indicator 3 Calculated?

OSEP requires states to report data annually on three child outcomes:

- A. Children have positive social-emotional skills (including social relationships) (**PSD DQ**)
- B. Children acquire and use knowledge and skills (including early language/communication [and early literacy]) (**COM DQ**) and (**COG DQ**)
- C. Children use appropriate behaviors to meet their needs (**ADP DQ**) and (**MOT DQ**)

How is Indicator 3 Calculated?

Progress Categories

- a. Did not improve functioning
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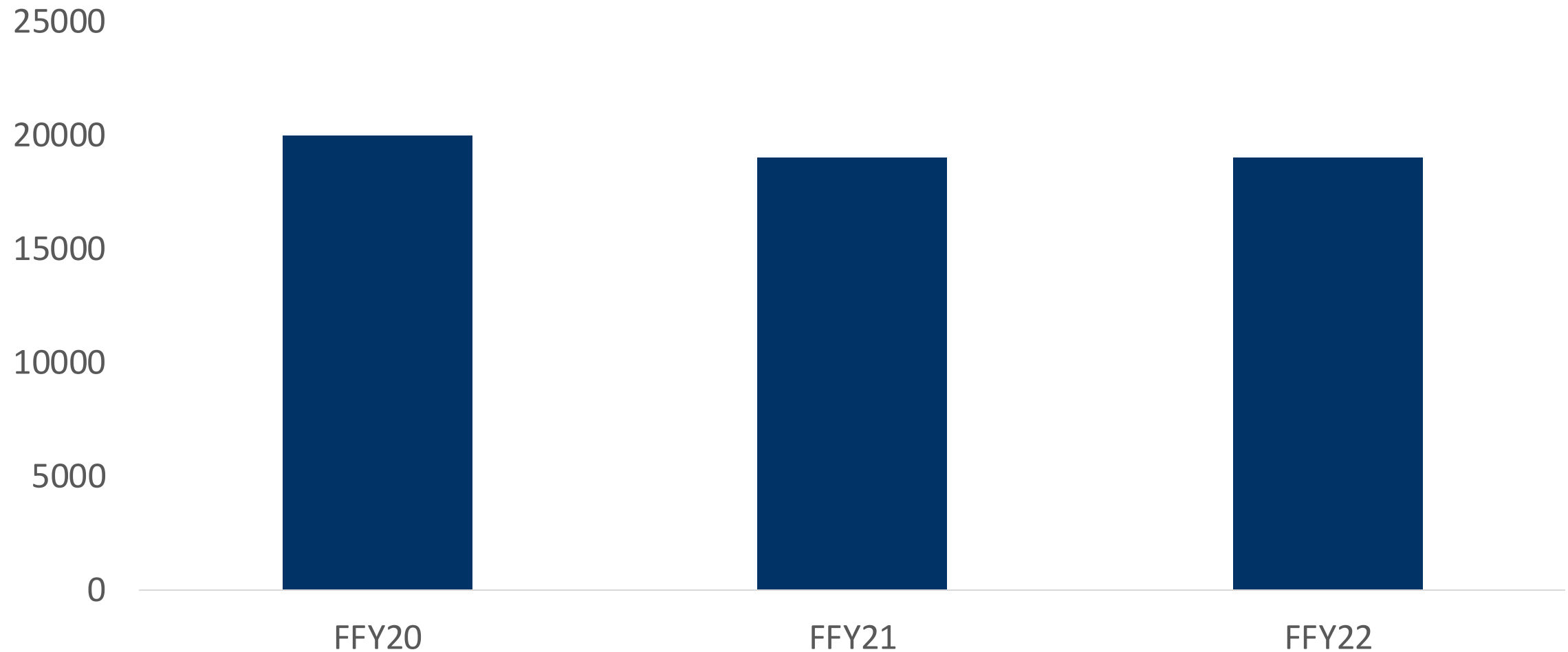
BDI-3 Criteria

- a. Exit DQ < 80; exit subdomain scores \leq entry scores
- b. Exit DQ < 80; exit DQ \leq entry DQ; exit subdomain score(s) > entry score
- c. Exit DQ < 80; exit DQ > entry DQ; exit subdomain score(s) > entry score
- d. Entry DQ < 80; exit DQ \geq 80
- e. Entry and exit DQs \geq 80

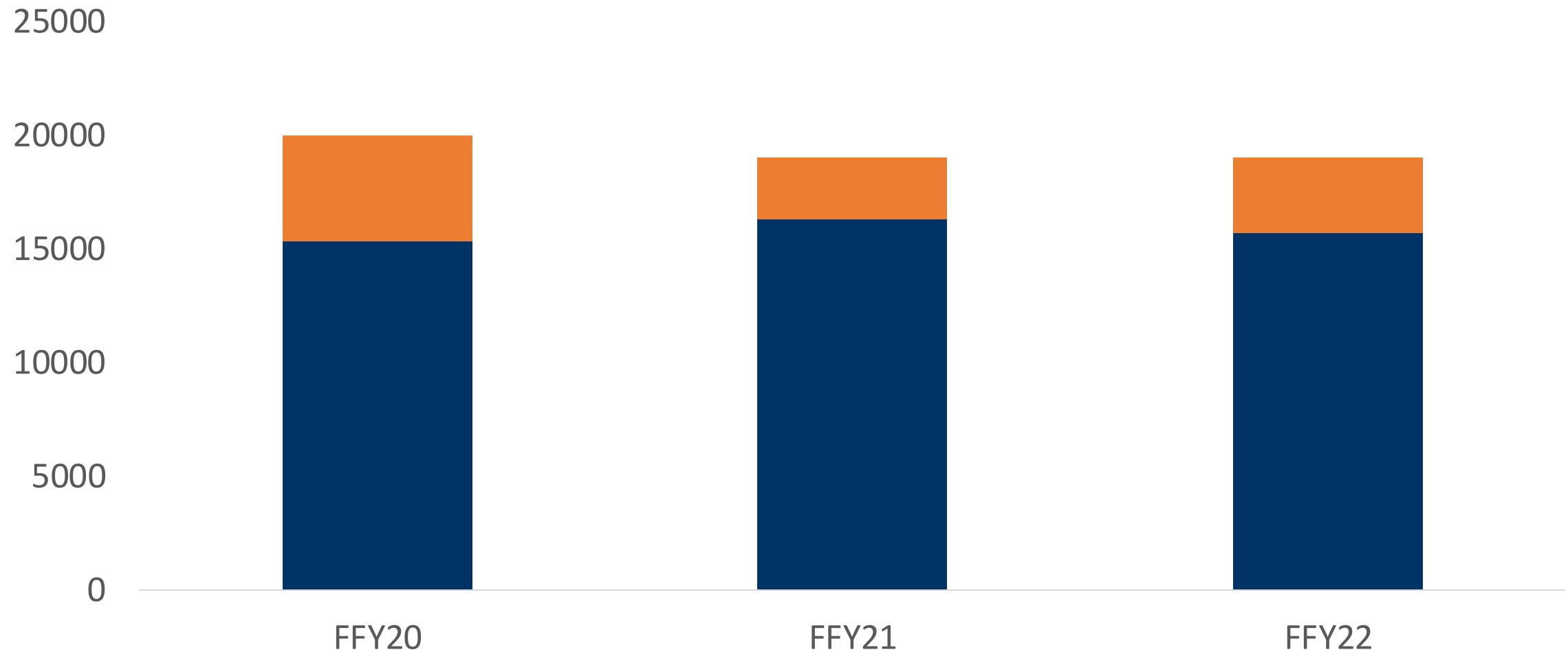
Why is Data Completeness Important?

- Accurate and complete data is essential for:
 - Measuring effectiveness
 - Identifying areas needing improvement
 - Ensuring accountability in service provision
- Incomplete data can lead to skewed results, misinformed decisions, and missed opportunities for intervention.

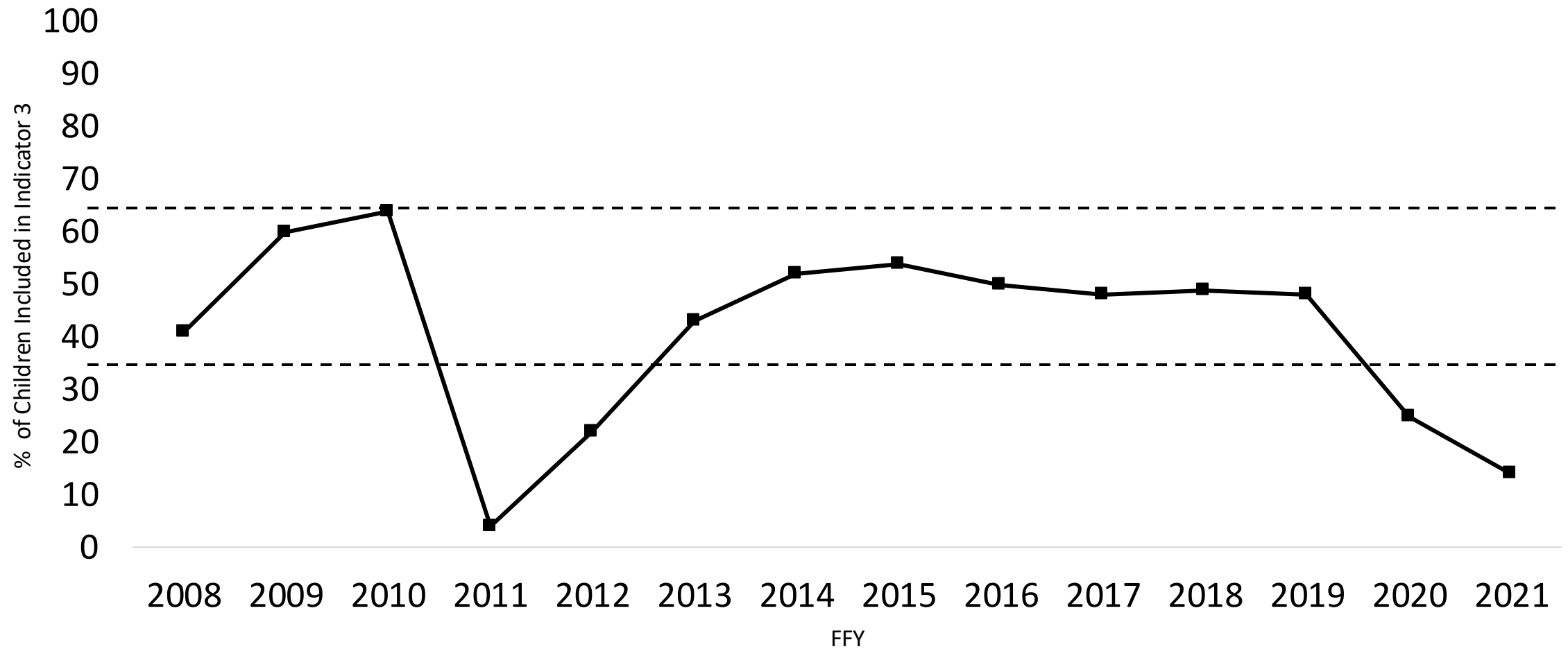
What Does Data Completeness Look Like Across Time?



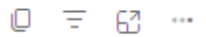
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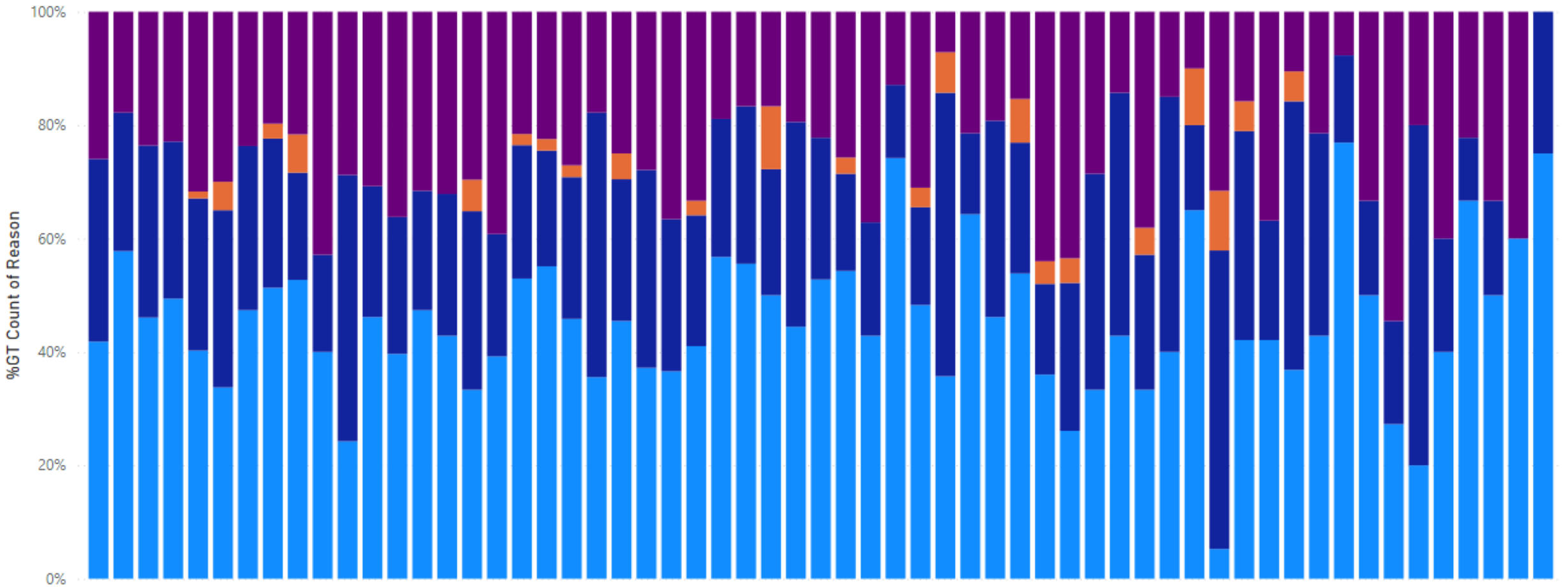
What Does Data Completeness Look Like Across Time?



Child Outcome Data Completeness



Reason ● Included in Analysis ● Length of Stay < 6 months ● Missing DQ scores ● One evaluation only



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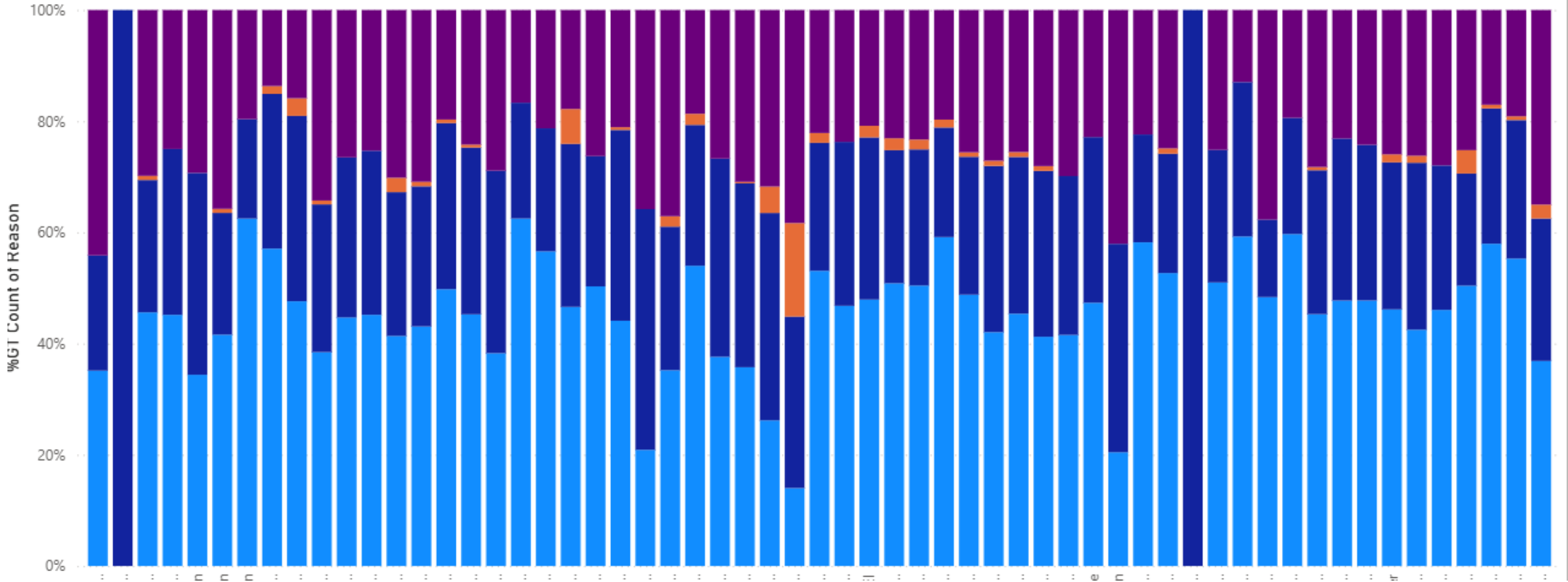
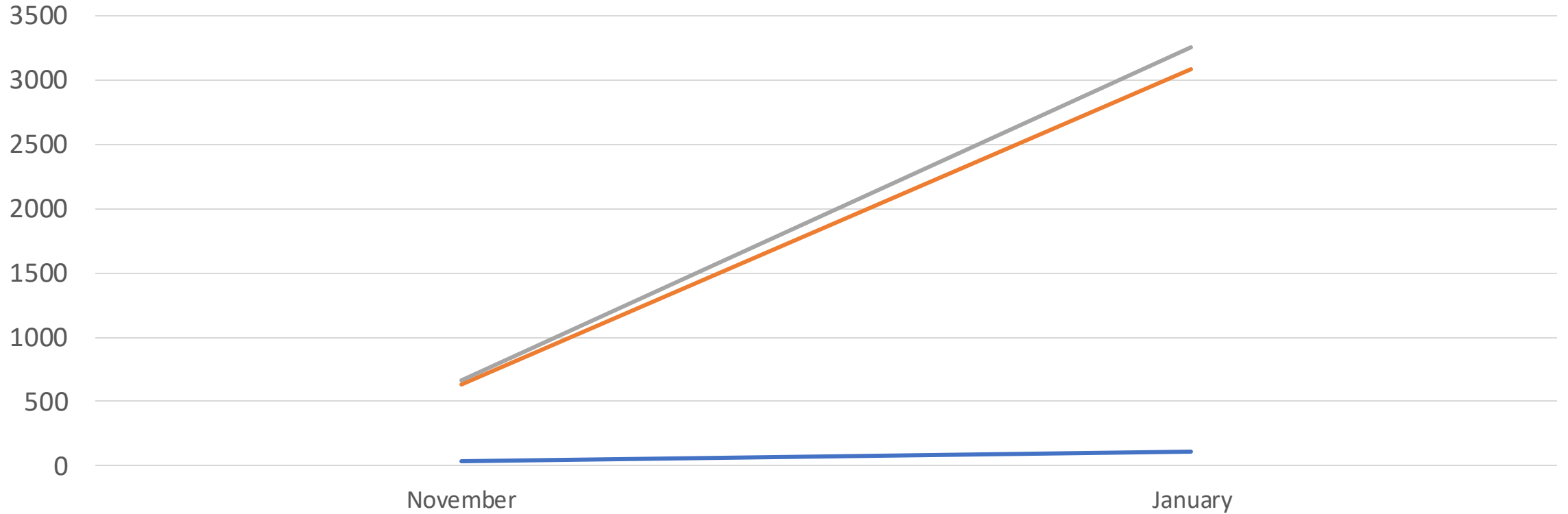
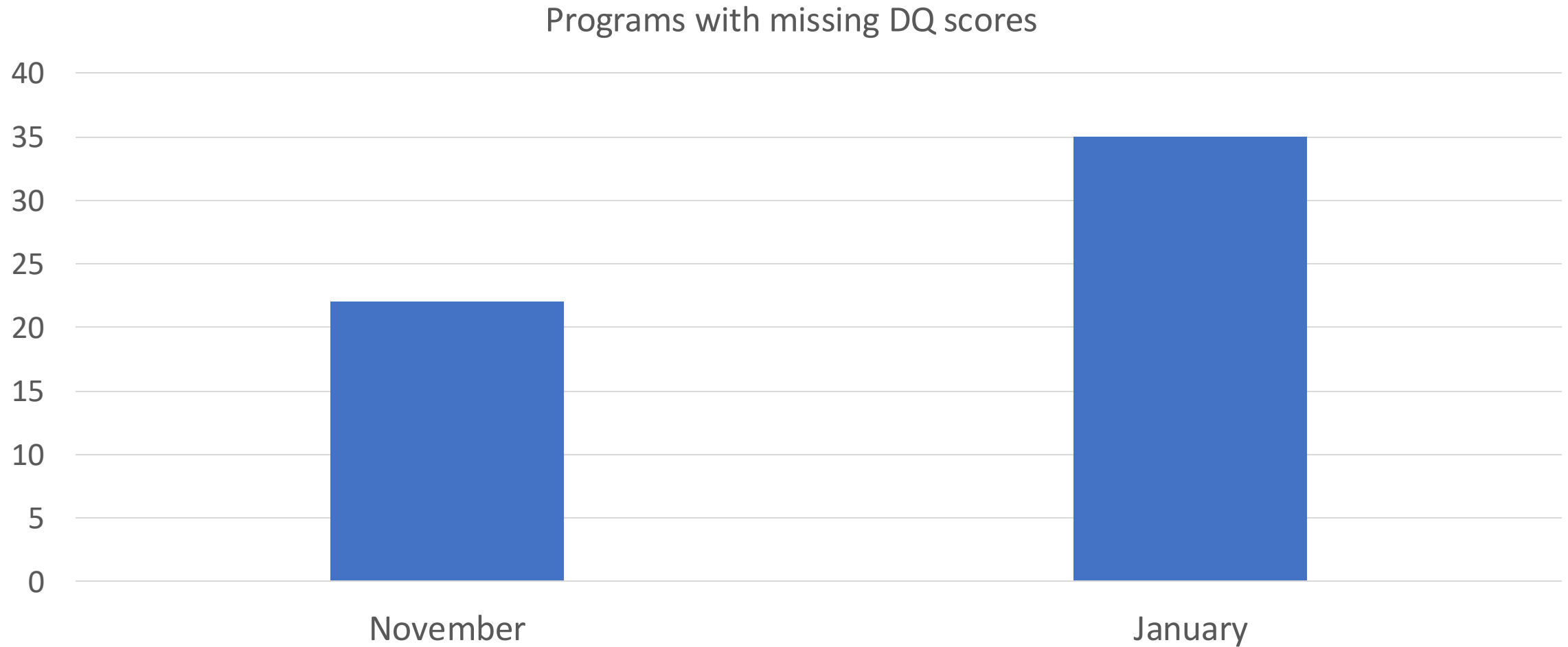


Chart Title



— Missing DQ — One eval — Less than 6 months

Missing DQ scores



- What are possible reasons there may be a missing DQ score?

Questions

- Although it is a smaller portion of the evaluations that are not included in analysis, do you have suggestions about decreasing missing DQ scores?

How is Data Completeness Calculated?

2023 Part C Results Matrix

I. Data Quality

(a) Data Completeness: The percent of children included in your State's 2021 Outcomes Data (Indicator C3)

Number of Children Reported in Indicator C3 (i.e., outcome data)	2,756
Number of Children Reported Exiting in 618 Data (i.e., 618 exiting data)	19,063
Percentage of Children Exiting who are Included in Outcome Data (%)	14.46
Data Completeness Score²	0

(b) Data Anomalies: Anomalies in your State's FFY 2021 Outcomes Data

Data Anomalies Score³	2
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2022 Part C Results Matrix

I. Data Quality

(a) Data Completeness: The percent of children included in your State's 2020 Outcomes Data (Indicator C3)

Number of Children Reported in Indicator C3 (i.e., outcome data)	4667
Number of Children Reported Exiting in 618 Data (i.e., 618 exiting data)	19995
Percentage of Children Exiting who are Included in Outcome Data (%)	23.34
Data Completeness Score²	0

(b) Data Anomalies: Anomalies in your State's FFY 2020 Outcomes Data

Data Anomalies Score³	2
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Why is Data Completeness Important?

Data Completeness:

- Calculated using the total number of Part C children who were included in each State's FFY (2022) Outcomes data and the total number of children the State reported exiting during FFY (2022) in its FFY (2022) IDEA Section 618 Exiting data
- State received a data completeness score of '2' if the percentage was at least 65%; a data completeness score of '1' if the percentage was between 34% and 64%; and a data completeness score of '0' if the percentage were less than 34%.



Massachusetts Department of Public Health

FAQs

Which children are excluded from outcomes data?

Excluding children aged ≥ 3 at discharge

Excluded if only 1 BDI is completed

Excluded if incomplete BDI scores

Excluded if 2 BDI's happened less than 6 months apart

Excluded if enrolled in early intervention less than 6 months

Which children are included in outcomes data?

1

Children discharged during the fiscal year being reported (7/1/XX-6/30/XX)

2

Children with a minimum of 2 BDI evaluations administered at least 6 months apart

3

6 months of continuous services (if a child is discharged and goes to another EI program this does not count as continuous services)

What DQ scores are used to calculate child outcomes?

Outcome 1: Positive social-emotional skills (including social relationships)

PSD DQ at first BDI compared to PSD DQ at last BDI

Outcome 2: Acquisition and use of knowledge and skills (including early language/communication)

COM DQ AND COG DQ at first BDI compared to COM DQ and COG DQ at last BDI

Outcome 3: Use of appropriate behaviors to meet their needs

ADP DQ AND MOT DQ at first BDI compared to ADP DQ and MOT DQ at last BDI

What is the difference in scoring between the different outcomes and different summary statements?

For different outcomes:

- The difference is which DQ is used for comparison

For summary statements:

- The difference is which children are included in the calculations

How are the state targets calculated

- The target setting for Indicator 3 for the remaining FFYs took place during an ICC meeting.
- The Part C Coordinator presented data on MA-C's performance on indicator 3 for the past five FFYs relative to the targets
 - Answered questions about the data
 - Solicited recommendations from the attendees.

Timely Discharge is important

Excluding children that are
over 3 at discharge

If **you** select an age of 3 or
over at discharge that child
will be excluded. Remember:
discharge is the date the
child actually discharged not
the date of data entry

Are children eligible through risk factors included?

At risk (eligible through child and family factors) children are included in this

Calculation for all kids, and then there is a breakout by at risk only