

Data Analysis Routines for Hypothesis #1

Data Sources

The following data sources are reviewed to address hypothesis #1.

Table 1. Data Sources to Address Hypothesis #1.

Contributing Factor	Data Source(s)
Student Attendance	Implementation Record – Student Attendance
Student Engagement	Implementation Record – Engagement
Dosage	Implementation Record – Session Occurrences & Session Length
Fidelity	Implementation Record – Components completed Intervention Fidelity Observation
Progress Monitoring (data being collected)	Implementation Record – Assessment submissions Student Progress Monitoring Graph in data system

Data Analysis Routines

Attendance:

1. Determine the total number of intervention sessions held in a given time period
2. Determine the number of sessions each student was present
3. Divide the total number of sessions the students were present by the total number of sessions for all students and multiply by 100%
4. Identify any students or intervention groups to discuss at the next MDT meeting

Student Engagement

1. Determine the total possible sessions across all students when fully engaged could have been selected (e.g., 4 students across 5 sessions = 20); you will need to subtract absences since engagement is not possible if the student is not present
2. Determine the number of sessions across all students that were marked fully engaged was selected
3. Divide the total number marked fully engaged by the total number of possible sessions times 100%
4. Identify students or groups to discuss at the next MDT

Dosage

1. Determine the total number of possible intervention sessions for the time period
2. Determine the number of sessions that took place during the time period
3. Divide the number of sessions that took place by the total possible sessions and multiply by 100%
4. Identify intervention groups where <80% of planned intervention sessions took place to discuss at the next MDT meeting

Fidelity Part 1 (Implementation Records)

1. Review the components completed in the Implementation Record for the designated time period
2. Identify if any components are consistently missed in any group or across groups
3. Identify any topics related to intervention components to discuss at the next MDT meeting

Fidelity Part 2 (Fidelity Observations)

1. Review the fidelity observation data
2. Identify the implementation fidelity percentages that are below 70%
3. Determine if any pattern of missing components exists across multiple interventionists
4. Identify any topics related to intervention fidelity that need to be discussed at the next MDT meeting

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