PhenX Pediatric Development
Working Group
School
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November 19, 2018

RTI International is a trade name of Research Triangle Institute
School

- **Definition**: Characterization of school experiences and or performance beyond early childhood/preschool.
- **Concepts**
  - School participation as well as performance / achievement can relate to child development both as an exposure element that affects development as well as a gauge of developmental progress.
- **Considerations**
  - There is a separate preschool/daycare domain which is likely of greater import than general school participation and achievement.
  - School environment is critical and is a separate domain as well.
  - Attendance and metrics of achievement may be difficult to objectively characterize due to contextual differences.
Existing measurement protocols in PhenX Toolkit

• Pediatric School Performance - 840201
  – Four questions from the Education - School Questionnaire from the Pediatric Hydroxyurea Phase III Clinical Trial (BABY HUG).
  – Captures the child’s current grade and age, whether the child has ever been held back, and if so how many and which grades, and whether the child receives special accommodations for education.
  – For 24 months-18 years
Description of measurement protocols in PhenX Toolkit

- BABY HUG Part VII: EDUCATION - SCHOOL QUESTIONNAIRE
  - 1. What is your child’s current grade? __________
  - 2. What is your child’s current age? _________ years __________months
  - 3. Has your child ever been held back or repeated a grade? [ ] 1 Yes [ ] 2 No
    - A. How many grades? [ ] 1 [ ] 2 [ ] 3 or more
    - B. Which grade(s)? (List up to 3 most recent grades) ______ ______ ______
  - 4. Does your child have any accommodations because of learning differences? Check all that apply:
    - [ ] A. Special Education Services
    - [ ] B. 504 plan
    - [ ] C. IEP-individualized education plan
    - [ ] D. Special tutoring or classes not available to regular students
    - [ ] E. Other Describe: ______________________
    - [ ] F. My child does not receive any accommodation for learning differences
The current protocol is limited in breadth and depth. Attendance of preschool is likely more variable and more consequential than a measure of attendance during school age or beyond. A more robust measure of achievement/performance would be desirable.
Filling in the gaps

- The Healthy Pathways – Academic Performance protocols (parent and child self report) are stronger options to assess performance in school.
- Used in ECHO.
1. During the past 12 months, how would you describe your grades in school?

*Below average (D’s or F’s) | Average (C’s) | Good (B’s) | Very good (A’s and B’s) | Excellent (A’s) | Don’t Know | Refused | Missing*

2. In the past 4 weeks, how did you do in math?

*Poor | Fair | Good | Very good | Excellent | Don’t Know | Refused | Missing*

3. In the past 4 weeks, how did you do in reading?

*Poor | Fair | Good | Very good | Excellent | Don’t Know | Refused | Missing*

4. In the past 4 weeks, how did you do on your homework?

*Poor | Fair | Good | Very good | Excellent | Don’t Know | Refused | Missing*

5. In the past 4 weeks, how did you do in your schoolwork?

*Poor | Fair | Good | Very good | Excellent | Don’t Know | Refused | Missing*
Healthy Pathways

1. During the past 12 months, how would you describe your child’s grades in school?
   
   Below average (D’s or F’s) | Average (C’s) | Good (B’s) | Very good (A’s and B’s) | Excellent (A’s) | Don’t Know | Refused | Missing

2. In the past 4 weeks, how did your child do in math?

   Poor | Fair | Good | Very good | Excellent | Don’t Know | Refused | Missing

3. In the past 4 weeks, how did your child do in reading?

   Poor | Fair | Good | Very good | Excellent | Don’t Know | Refused | Missing

4. In the past 4 weeks, how did your child do on his or her homework?

   Poor | Fair | Good | Very good | Excellent | Don’t Know | Refused | Missing

5. In the past 4 weeks, how did your child do at remembering things he or she learned in school?

   Poor | Fair | Good | Very good | Excellent | Don’t Know | Refused | Missing
Recommendations to the WG

- Given the separate coverage of preschool/daycare I would suggest that this measure focus on school performance rather than attendance/participation.
- Healthy Pathways is an accepted and usable protocol that improves upon the currently include protocol.