Parent-Teacher Involvement: Parent Version
Year 2 / Grade 1
Fast Track Project Technical Report
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Table of Contents

I. Scale Description

The Parent-Teacher Involvement Questionnaire: Parent version is a 26-item measure developed for this project to assess facets of parent and teacher involvement. Fast Track also has a 21-item teacher version, of which most items are included on the parent version (see separate report for more detailed information). The measure assesses the amount and type of contact that occurs between parents and teachers, the parent's interest and comfort in talking with teachers, the parent's satisfaction with their children's school and the parent's degree of academic stimulation with their child (e.g. reading to them, taking them to the library). The answers are coded on a 5-point scale including specific frequency ratings ("never", "once or twice a year", "almost every month", "almost every week", "more than once per week"), general impressions of frequency ("not at all", "a little", "some", "a lot", "a great deal") and level of agreement with statements about school ("strongly disagree", "disagree", "not sure", "agree", "strongly agree").

II. Scale Derivation

An exploratory principal components factor analysis with varimax rotation was conducted on the normative sample of Cohort 1, year 2 data. Six eigenvalues greater than 1.0 were found. Examination of the scree plot showed two large factors followed by two groups of two smaller factors. Maximum likelihood factor analyses with varimax and promax rotations were then conducted. Examination of 2,3 and 4-factor structures showed the 4-factor solution to yield the best findings in terms of minimizing the double loadings and providing a conceptual fit to the resulting subscales. Specifically:

Items # 11-17: assess the quality of the relationship between the parent and the child's teacher;
Items # 5,6,7,9,10 and 18-22: assess the parent's involvement and volunteering in their child's school;
Items # 23-26: assess the parent's endorsement of their child's school;
Items 1-4: assess the frequency of parent-teacher contact.

Item # 8 (frequency of being invited to parent-teacher conferences) had low loadings on all the factors. Furthermore, it was not thought to be a relevant question, since all parents are invited to parent-teacher conferences. Therefore, it was deleted from future analyses.

Confirmatory factor analyses with 2, 3, and 4 factors were conducted. Chi-square tests showed consistence with the choice of the 4-factor solution.

The reliability coefficients were then computed for the 4-factor solution, as follows:

Teacher Relationship Quality Factor	0.91
Parent Involvement	0.82
Parent's Endorsement of school	0.92
Parent-Teacher Contact	0.75

III. <u>Missing Data</u>

Twenty-five subjects had missing data for this measure, One from the Washington site, 5 from the Pennsylvania site, 5 from the Nashville site and 14 from the Durham site. Nine of the 14 from the Durham site were missing the entire scale. As per guidelines for handling missing data, a new value was created for the subject by computing the mean value of the other items in this subscale, if less than 50% of the subscale data was missing for this subject.

IV. <u>Subscale Means, SD's, and Reliabilities</u>   `PTI-P   COHORT 1 YEAR 2`

<u>Teacher Relationship Quality Subscale</u>

<u>All Groups Combined</u>

```
Analysis Variable : P2FRQSCR  Teacher Relationship Quality mean score
  N         Mean        Std Dev          Cronbach Alpha
583     3.0633948     0.8706442               0.912978
```


<u>All Groups Combined by Site</u>

```
Analysis Variable : P2FRQSCR  Teacher Relationship Quality mean score
SITE    Obs    N         Mean        Std Dev
DURH    164   155     3.2682028     0.7909399
NASH    139   139     2.8691822     0.9673762
PENN    161   161     2.9955634     0.8357719
WASH    128   128     3.1116071     0.8471365
```


<u>Normative Sample</u>

```
Analysis Variable : P2FRQSCR  Teacher Relationship Quality mean score
  N         Mean        Std Dev          Cronbach Alpha
362     3.0851280     0.8590704               0.910456
```


<u>Normative Sample by Site</u>

```
Analysis Variable : P2FRQSCR  Teacher Relationship Quality mean score
SITE  NORM    Obs    N         Mean        Std Dev
DURH  N       100   96     3.3184524     0.7617266
NASH  N        94   94     2.9326965     0.8996972
PENN  N        95   95     3.0466165     0.8132632
WASH  N        77   77     3.0278293     0.9321904
```

Parent Involvement Subscale

All Groups combined:

Analysis Variable : P2FPISCR **Parent Involvement mean score**
```
  N         Mean        Std Dev          Cronbach Alpha
 583     0.7682847     0.3325789                 0.804813
```


All Groups Combined by Site

Analysis Variable : P2FPISCR **Parent Involvement mean score**
```
SITE    Obs    N        Mean         Std Dev
DURH    164   155     0.9504516     0.3901870
NASH    139   139     0.7576978     0.3070177
PENN    161   161     0.6184472     0.2501613
WASH    128   128     0.7476563     0.2673771
```


Normative Sample

Analysis Variable : P2FPISCR **Parent Involvement mean score**
```
  N         Mean        Std Dev          Cronbach Alpha
 362     0.7539227     0.3238259                 0.817282
```


Normative Sample by Site

Analysis Variable : P2FPISCR **Parent Involvement mean score**
```
 SITE   NORM  N Obs    N        Mean         Std Dev
DURH   N       100    96     0.9270833     0.3745816
NASH   N        94    94     0.7458511     0.3067429
PENN   N        95    95     0.6190526     0.2376215
WASH   N        77    77     0.7142857     0.2746837
```

Parent Endorsement of School Subscale

All Groups Combined

Analysis Variable : P2FPESCR **Parent Endorsement means score**
N	Mean	Std Dev	Cronbach Alpha
583	3.1831046	0.7999045	0.918211

All Groups Combined by Site

Analysis Variable : P2FPESCR **Parent Endorsement means score**
SITE	Obs	N	Mean	Std Dev
DURH	164	155	3.3064516	0.7010824
NASH	139	139	2.8992806	0.9516002
PENN	161	161	3.2049689	0.7420875
WASH	128	128	3.3144531	0.7305524

Normative Sample

Analysis Variable : P2FPESCR **Parent Endorsement means score**
N	Mean	Std Dev	Cronbach Alpha
362	3.2002762	0.8132047	0.920756

Normative Sample by Site

Analysis Variable : **P2FPESCR Parent Endorsement means score**
SITE	NORM	Obs	N	Mean	Std Dev
DURH	N	100	96	3.2994792	0.7827245
NASH	N	94	94	2.9494681	0.9242694
PENN	N	95	95	3.2736842	0.7275667
WASH	N	77	77	3.2922078	0.7548120

Parent-Teacher Contact Subscale

All Groups Combined

Analysis Variable : P2FTCSCR **Parent-Teacher Contact mean score**

N	Mean	Std Dev	Cronbach Alpha
583	1.2251286	0.8240394	0.753895

All Groups Combined by Site

Analysis Variable : P2FTCSCR **Parent-Teacher Contact mean score**

SITE	Obs	N	Mean	Std Dev
DURH	164	155	1.3790323	0.9781936
NASH	139	139	1.3794964	0.7879025
PENN	161	161	0.9627329	0.6207425
WASH	128	128	1.2011719	0.8054066

Normative Sample

Analysis Variable : P2FTCSCR **Parent-Teacher Contact mean score**

N	Mean	Std Dev	Cronbach Alpha
362	1.1505525	0.8029786	0.754810

Normative Sample by Site

Analysis Variable : P2FTCSCR **Parent-Teacher Contact mean score**

SITE	NORM	Obs	N	Mean	Std Dev
DURH	N	100	96	1.2239583	0.9411843
NASH	N	94	94	1.2659574	0.7609492
PENN	N	95	95	0.9368421	0.6079793
WASH	N	77	77	1.1818182	0.8415958

V. <u>Subscale Correlations</u>

<u>Normative Sample:</u>

	Teacher Relationship Quality	Parent Involvement	Parent Endorsement of School	Parent-Teacher Contact
Teacher Relationship Quality	1	0.28	0.57	0.11
Parent Involvement	0.28000	1.00000	0.21000	0.35000
Parent Endorsement of School	0.57	0.21	1	-0.01
Parent-Teacher Contact	0.11000	0.35000	-0.01000	1.00000

VI. <u>Recommendations for Use</u>

It is recommended that the mean subscales scores for Teacher Relationship Quality, Parent Involvement, Parent Endorsement of School and Parent-Teacher Contact be utilized for analyses. Raters tend to view aspects of Teacher Relationship Quality and Endorsement of School in a unidimensional fashion, as evidenced by the moderately high inter-subscale correlation.