

Louisiana CSoC Outcomes: CANS Analysis

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Agenda

1. CANS

- Overview
- Scoring
- Psychometric Properties
- Outcomes Monitoring

2. Member Characteristics

3. Outcomes

4. Modules

5. Next Steps

6. Questions/Feedback

The Louisiana Child and Adolescent Needs and Strengths (CANS)



CANS



- The **CANS Comprehensive Multisystem Assessment** is completed based on a face-to-face interview with the child (and guardian(s) when possible) and additional supporting information.
- The CANS is a **multi-purpose tool** developed for children's services to support decision making, including:
 - *Eligibility and service planning,*
 - *Facilitating quality improvement initiatives, and*
 - *Monitoring of outcomes of services.*
- Versions of the CANS are currently used in **50 states** in child welfare, mental health, juvenile justice, and early intervention applications.
 - *The Louisiana CANS was developed with Dr. John Lyons to meet the unique needs of the state at the initiation of the CSoC program.*
- The CANS links the assessment process and the design of individualized service plans, including the application of evidence-based practices.

<http://praedfoundation.org/tools/the-child-and-adolescent-needs-and-strengths-cans/>

Using the CANS



- The CANS assesses the child in the following areas: Problem behavioral/emotional needs, child risk behaviors, life domain functioning, caregiver strengths & needs, youth strengths, and acculturation.
- The CANS measures **Needs** and **Strengths** using a 4 point scale to rate the highest level from the **past 30 days**:

For needs:

0. No evidence
1. Watchful waiting/prevention
2. Action
3. Immediate/Intensive Action

For strengths:

0. Centerpiece strength
1. Strength that you can use in planning
2. Identified-strength-must be built
3. No strength identified

- A rating of '2' or '3' on a CANS needs suggests that this area must be addressed in the plan.
- A rating of a '0' or '1' identifies a strength that can be used for strength-based planning and a '2' or '3' a strength that should be the focus on strength-building activities.

<http://praedfoundation.org/tools/the-child-and-adolescent-needs-and-strengths-cans/>

Reliable and Valid Tool



- The CANS has demonstrated **reliability** (tool produces similar results under consistent conditions) and **validity** (tool measures what it is purported to measure)
 - *The average reliability of the CANS is 0.75 with vignettes, 0.84 with case records, and can be above 0.90 with live cases.*
 - *To further support reliability and validity, Magellan performed input validation (e.g., identifying and investigating outlier scores, duplicates, etc.) to ensure integrity of data.*
- **Statistical significance** means the outcome is the result of a relationship between specific factors versus merely the result of chance.
 - *Measured using a p-value*
 - *Anything equal or less than 0.05 is considered statistically significant*
 - *The lower the number the more likely outcome is not due to chance*

Outcomes Monitoring

- **Outcomes Monitoring** can be accomplished in two ways:
 - *Items that are initially rated a '2' or '3' are monitored over time to determine the percent of youth who move to a rating of '0' or '1' (resolved need, built strength).*
 - *The **Global Score** (sum of all items that measure outcomes) and **Domain Scores** can be generated by summing items within each of the dimensions (Problems, Risk Behaviors, Functioning, etc). These scores can be compared over the course of treatment.*

Outcomes Analysis

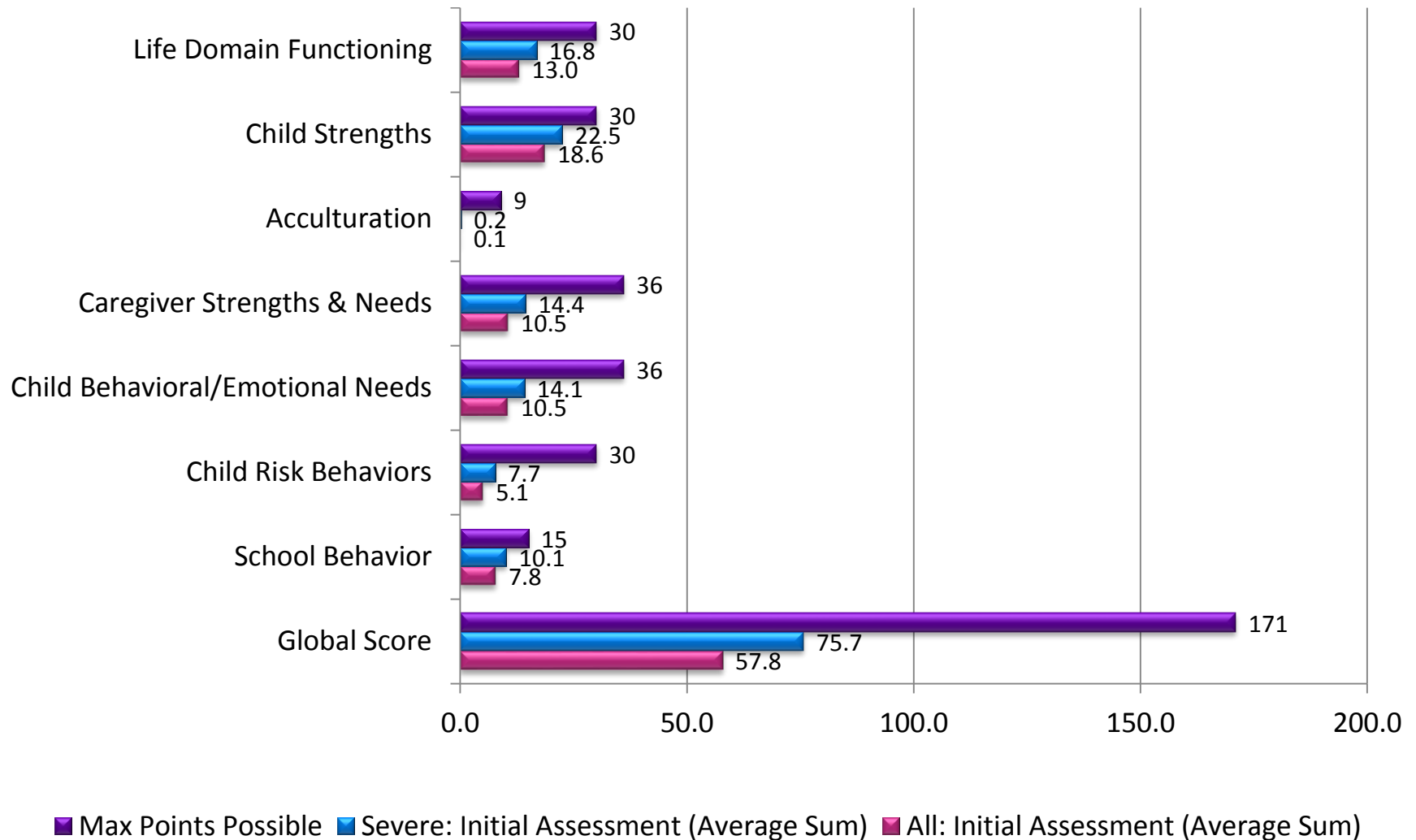


- The following **Outcomes Analysis** includes:
 - *All Population (n= 1278)*
 - *Most Severe or Top 25% (n=332)*
- **Date Parameters:** The date range of the report is from 3/1/2012 to 10/16/2016.
 - *Only electronic CANS submitted on or after 11/20/2014 are included. (Note: the actual assessment date may have occurred prior to this date.)*

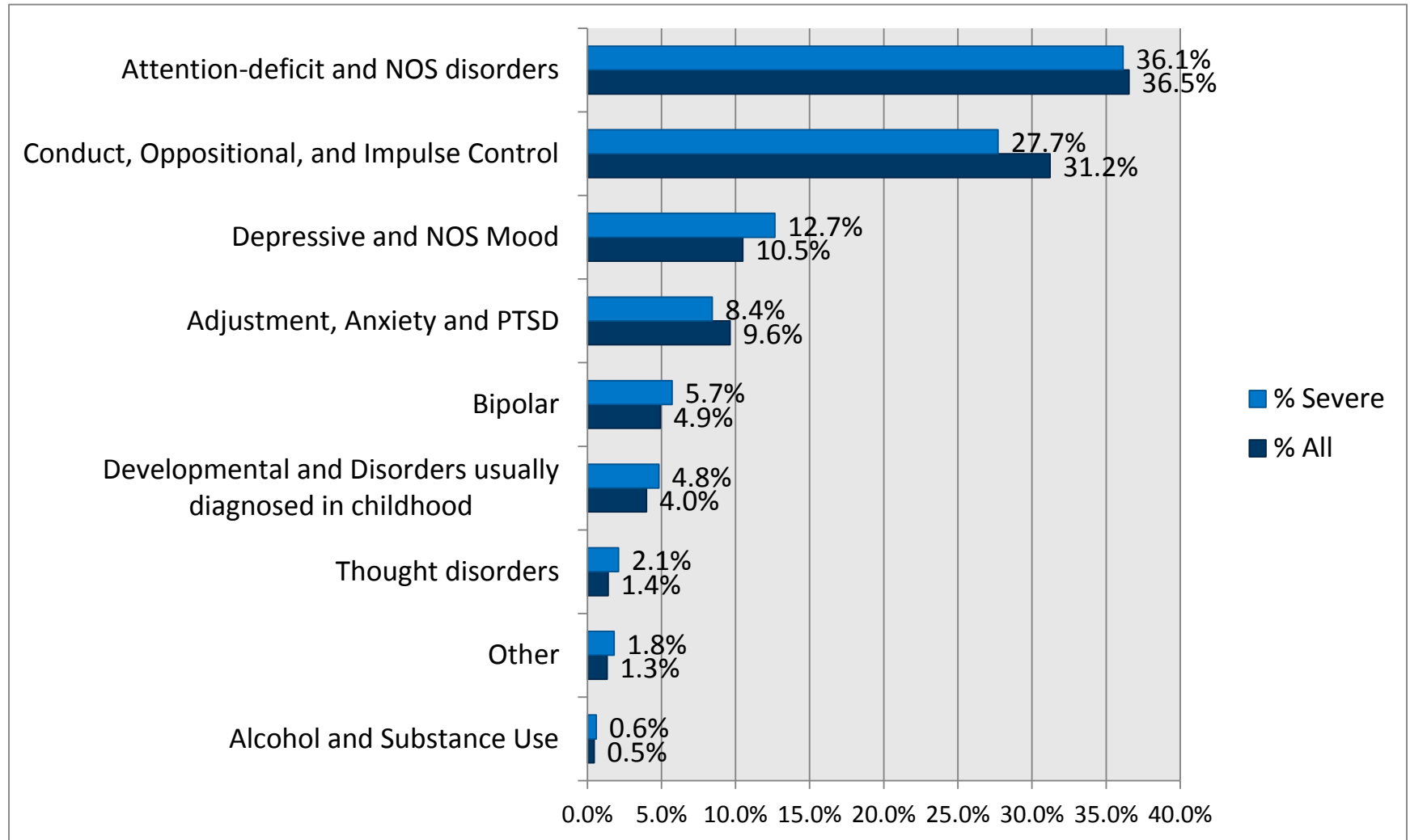
Member Characteristics



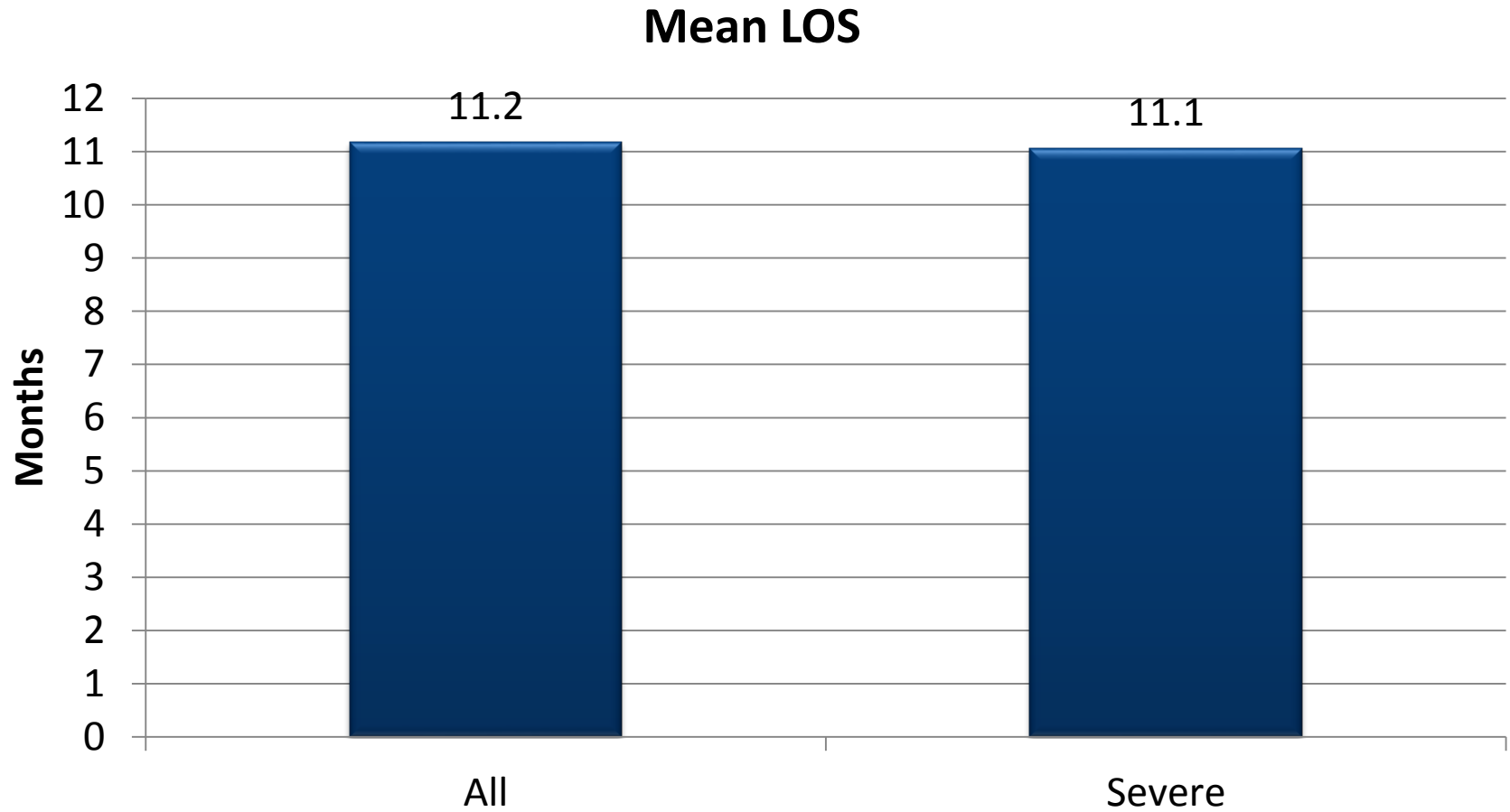
Initial Assessments



Diagnostic Characteristics of Members



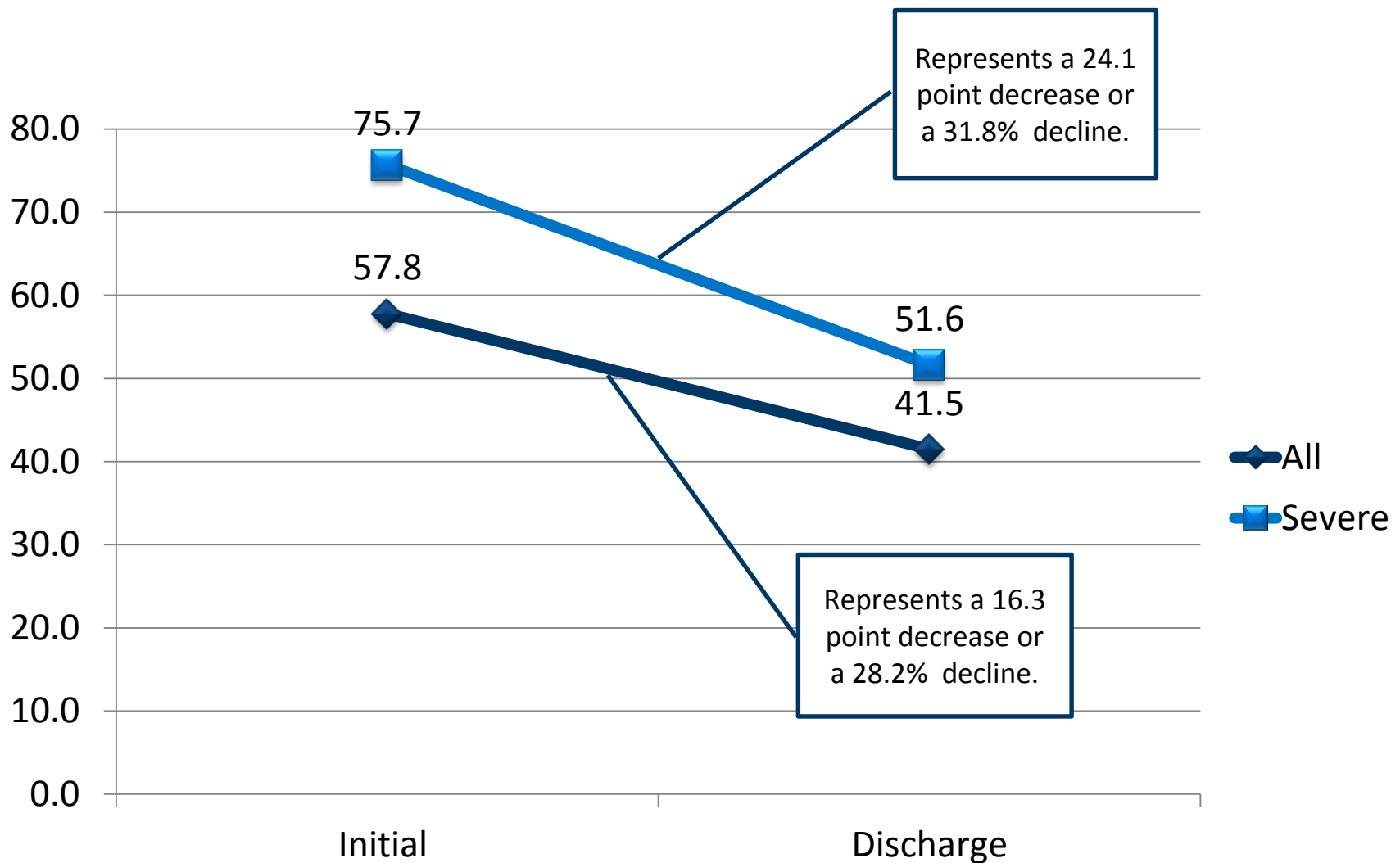
Average Length of Stay



Outcomes

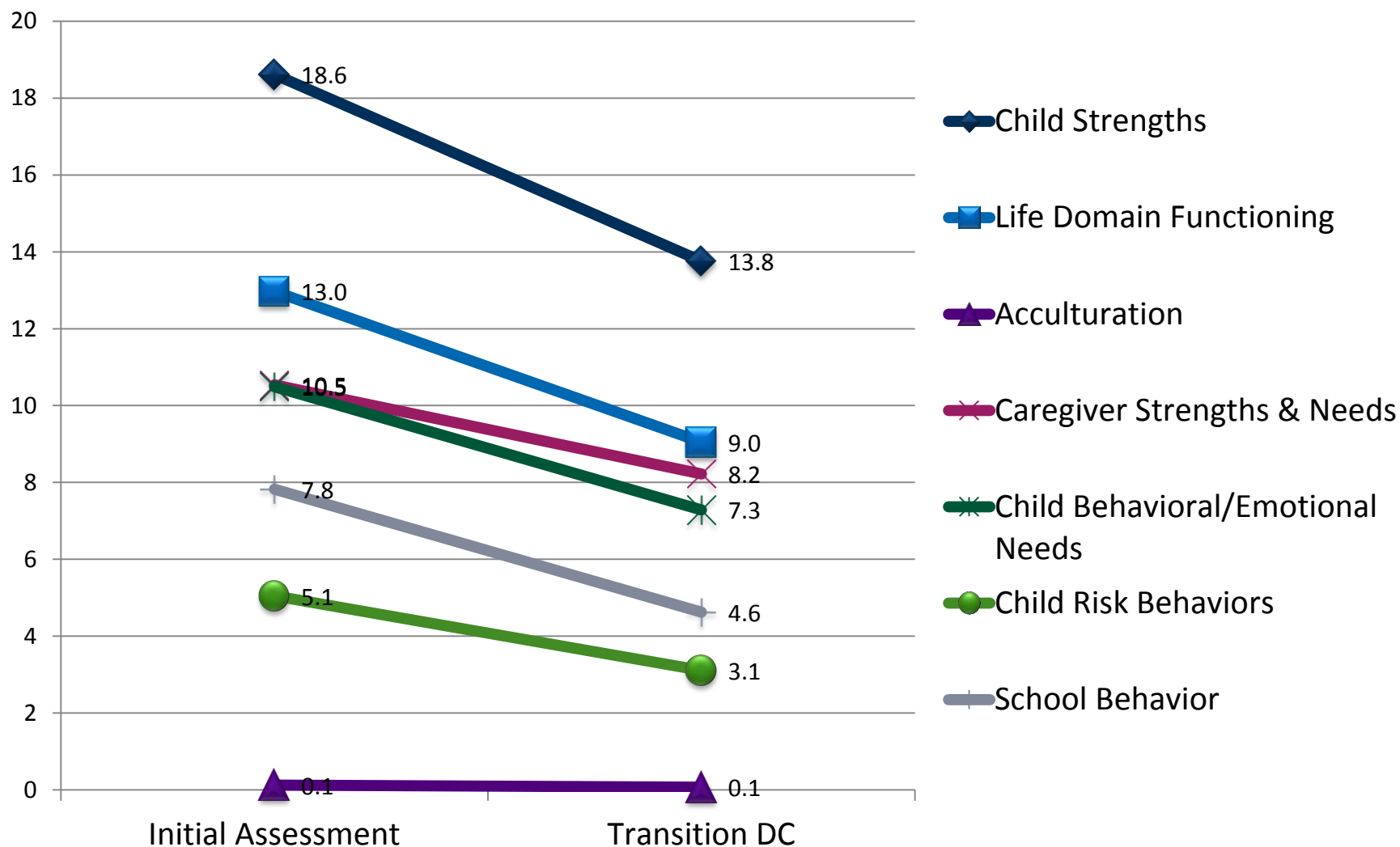


Global Scores



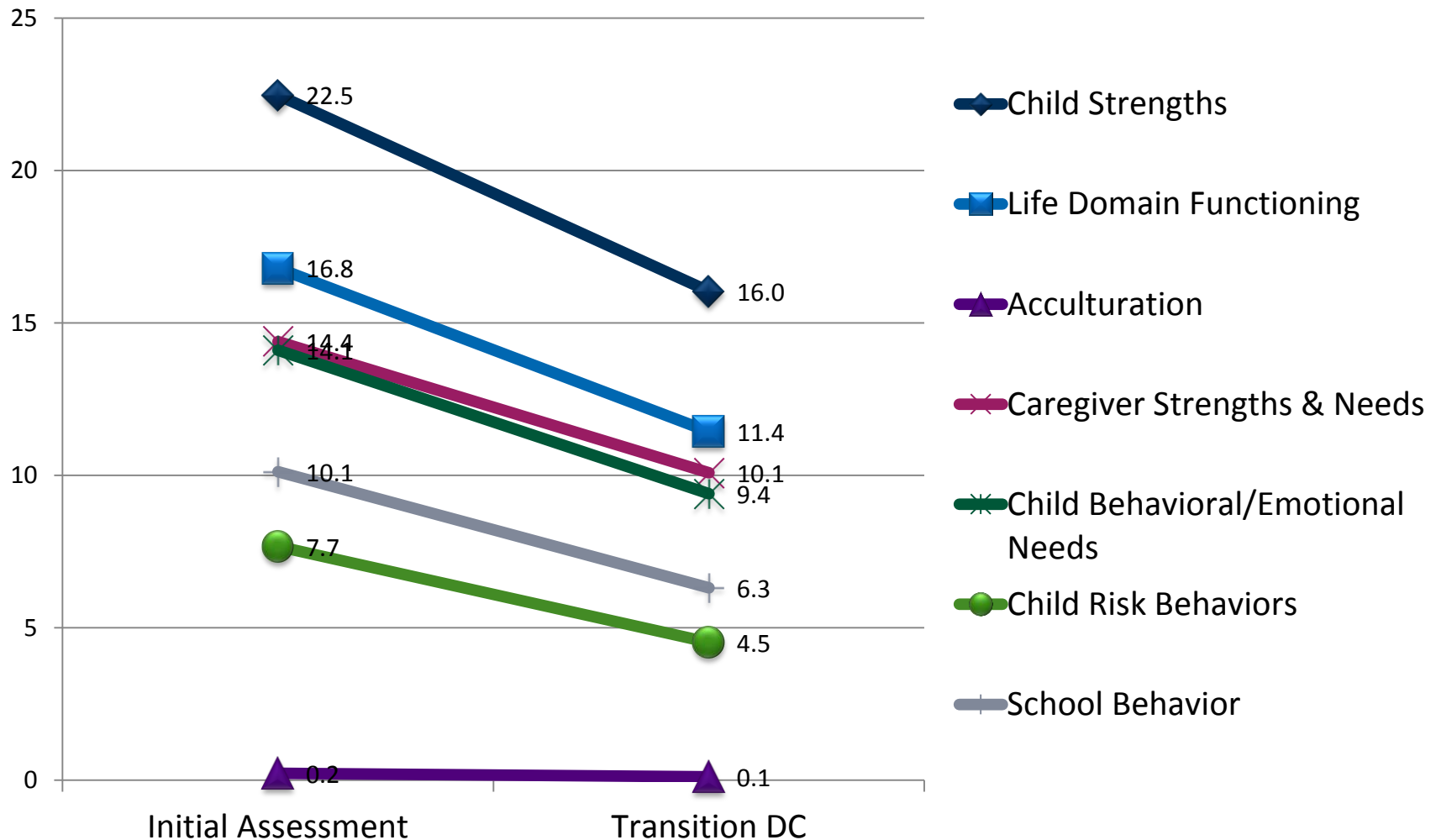
**All changes represent statistically significant improvement ($p \leq .001$).*

Domain Scores: All Population



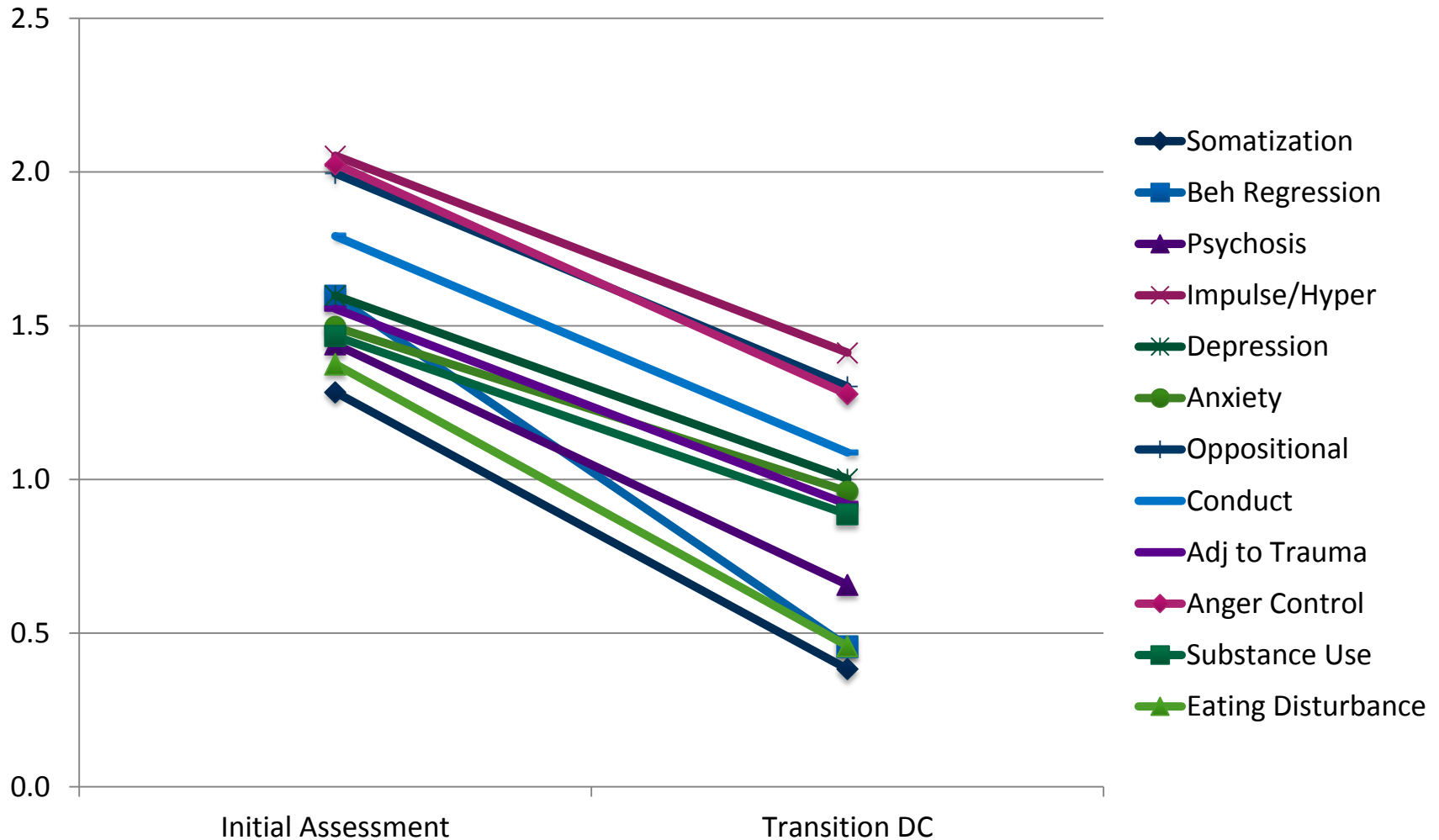
**All changes represent statistically significant improvement ($p \leq .001$) except Acculturation Domain.*

Domain Scores: Most Severe Population



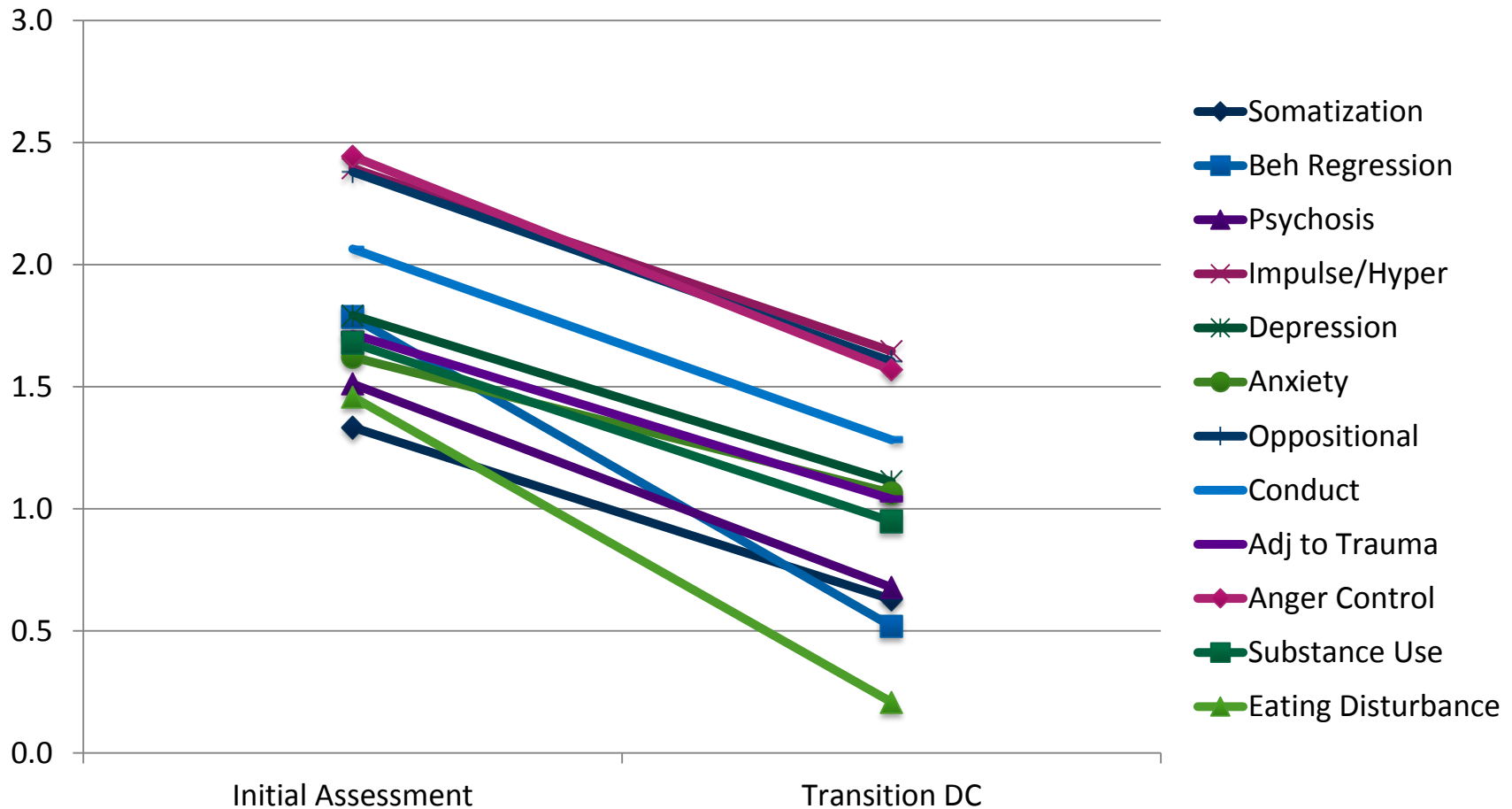
**All changes represent statistically significant improvement ($p \leq .001$) except Acculturation Domain.*

Problem Presentation: All Population



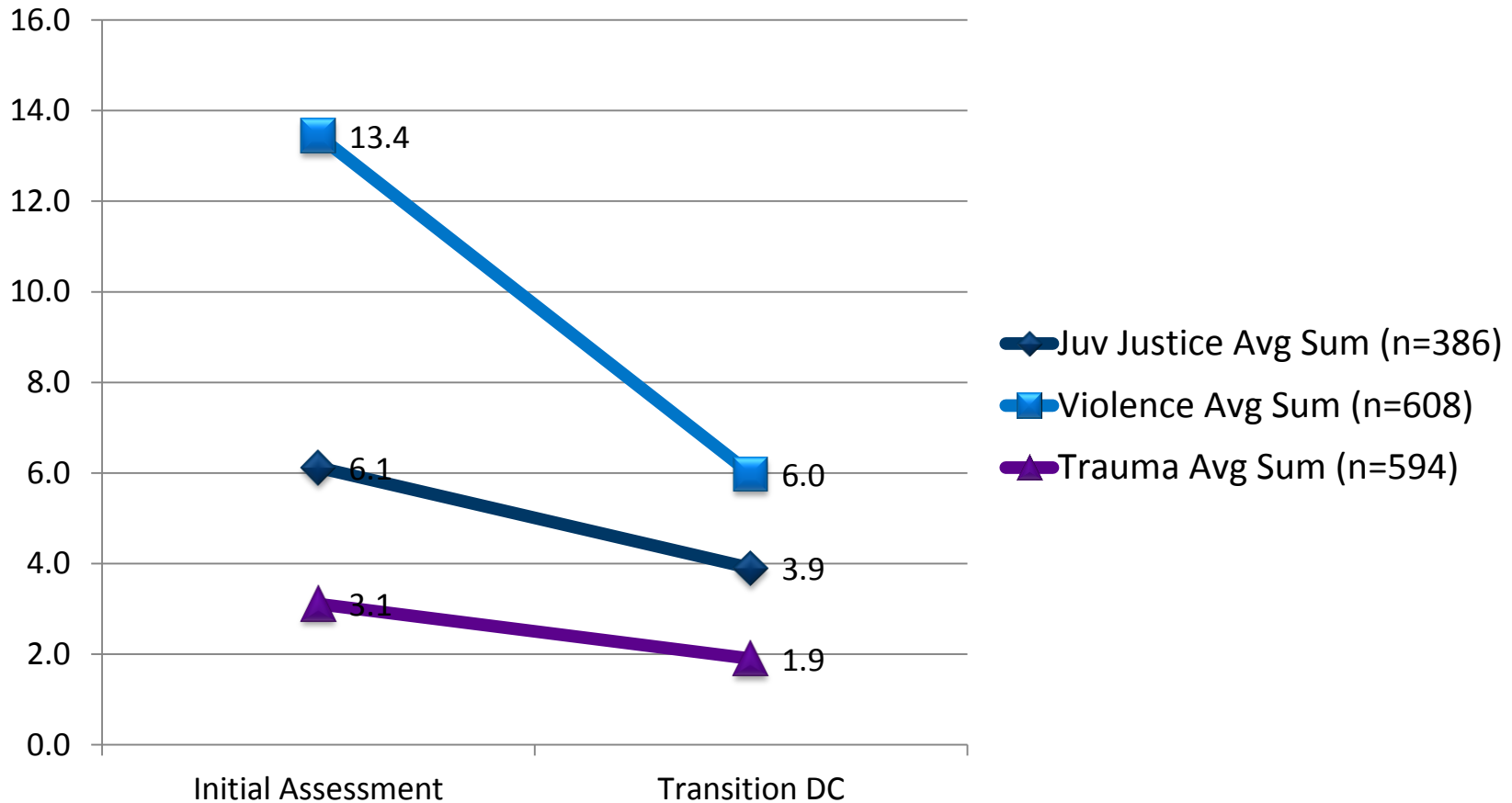
**All changes represent statistically significant improvement ($p \leq .001$).*

Problem Presentation: Most Severe Population



**All changes represent statistically significant improvement ($p \leq .001$).*

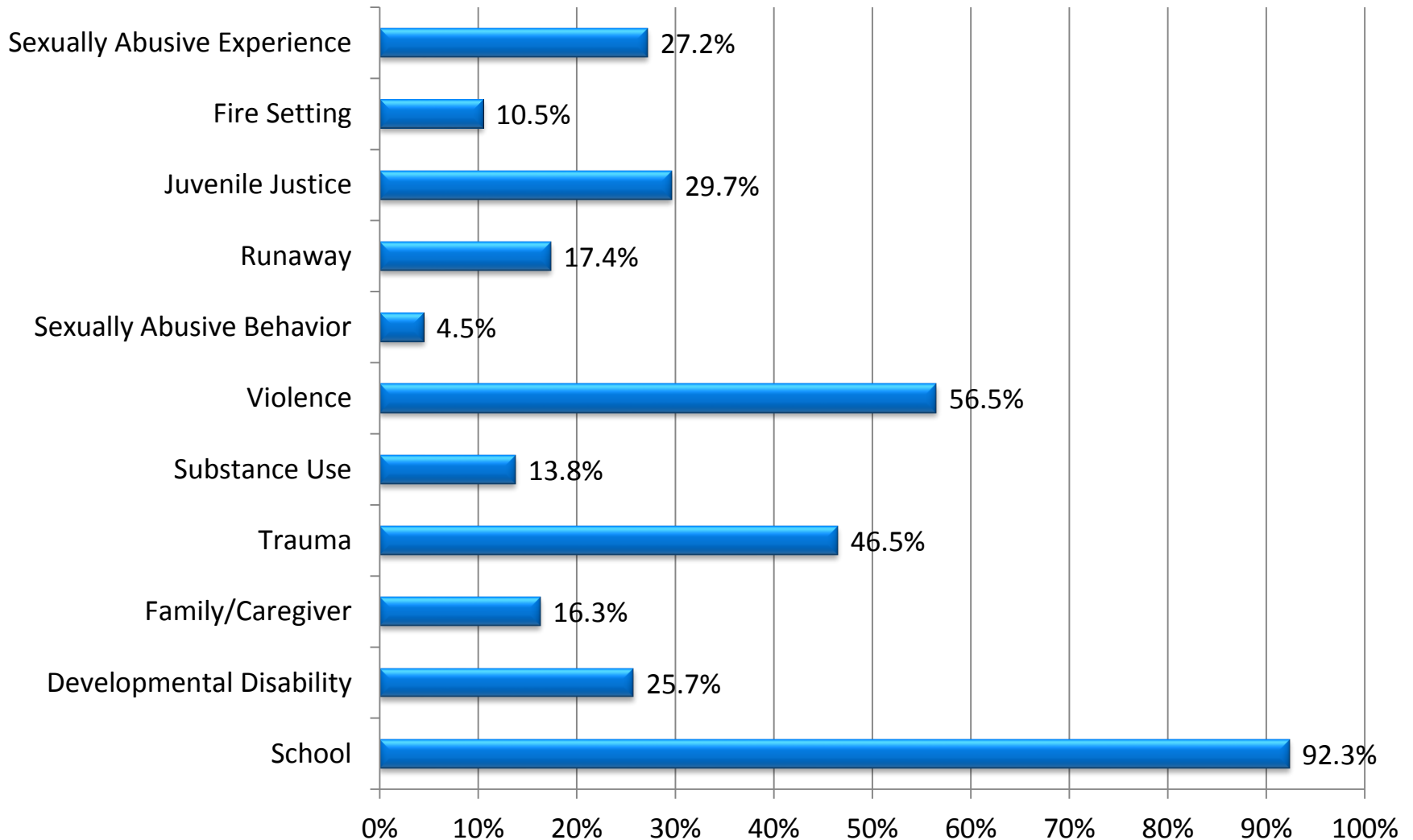
Other Notable Scores



**Includes all outcomes elements associated with the module. Average total scores at initial and discharge are reflected in the graph.*

***All changes represent statistically significant improvement ($p \leq .001$).*

% of Youth Triggering Modules



Next Steps



National Benchmarking



- Magellan, with the approval of LDH, is sharing data with University of Washington to assist them with a study on using CANS data for benchmarking and outcomes monitoring in state-wide Wraparound initiatives.
 - *UW recently presented an analysis of three states, including de-identified Louisiana data.*
 - *Louisiana CANS scores were close to the mean/average on intensity of needs.*
 - *Study identified significant differences between states.*
- UW is currently conducting an 8 state analysis to further explore similarities and differences.

Regional Differences



- Present data to Wraparound agencies, providers, and stakeholders to explore:
 - *Regional differences in percent of youth triggering modules:*
 - Population differences?
 - Referral sources (e.g., court system, community, providers, state agencies, etc.)?
 - *Regional differences impacting outcomes.*

Cross Tabulation Study



- Magellan is in the process of conducting an in-depth statistical analysis to look at other factors that could be influencing why some members are more likely to:
 - *Discharge successfully from CSoC*
 - *Have statistically significant improvement on the CANS*
- Magellan will compare groups against factors, such as:
 - *Member's DCFS/OJJ involvement*
 - *Involved in Office of Citizens with Developmental Disabilities*
 - *Number of out of home placements prior to CSoC*
 - *Parent and/or Youth Support on Plan of Care*
 - *At least one natural/informal support on Child and Family Team*
 - *Number of placements in Alternative School Settings*
 - *Youth has an Individualized Education Plan (IEP)*
- If relationships are identified, we will be able to better target interventions to certain populations or factors to improve chances of positive outcomes.
- Results expected by the end of 2016.

Feedback/Questions



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