


Type 1 Diabetes Strengths in Tweens: Similarities and Differences across Clinical and Demographic Groups

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INTRO

- Accurately identifying and supporting youths’ unique diabetes strengths may be a way to enhance clinical outcomes
- Study aim: Evaluate if diabetes strengths vary across demographically and clinically diverse youth with type 1 diabetes (T1D)

METHODS

1. Participants: 187 youth ages 9-13 years with T1D
2. Self-report measures: Diabetes Strengths and Resilience (DSTAR); Children’s Depression Inventory Short Form (CDI)
3. Other measures: HbA1c; demographics
4. ANOVA or t-test to compare DSTAR total scores across demographic and clinical groups

RESULTS

- Higher DSTAR scores are associated with:
 - CDI scores below clinical cut-off (T < 65)
 - In range HbA1c (<7.5%)
 - Private insurance (vs. public/none)
 - Parents with college degree (vs. less education)
 - Non-Hispanic white race/ethnicity (vs. Hispanic only)
- DSTAR scores did not vary by child gender or # of caregivers in the home

DISCUSSION

- Patterns of diabetes-related strengths differed across backgrounds
- Unclear if DSTAR assesses relevant strengths for all groups
- Additional resilience-related research is needed among under-represented groups

Tweens with T1D who reported more diabetes-related strengths were more likely to have fewer depressive symptoms and in-range glycemic control.

Greater strengths were also associated with having private insurance, higher parent education, and non-Hispanic white race/ethnicity.

Poster available at: <https://tinyurl.com/T1Dstrengths>



TABLES/GRAPHS

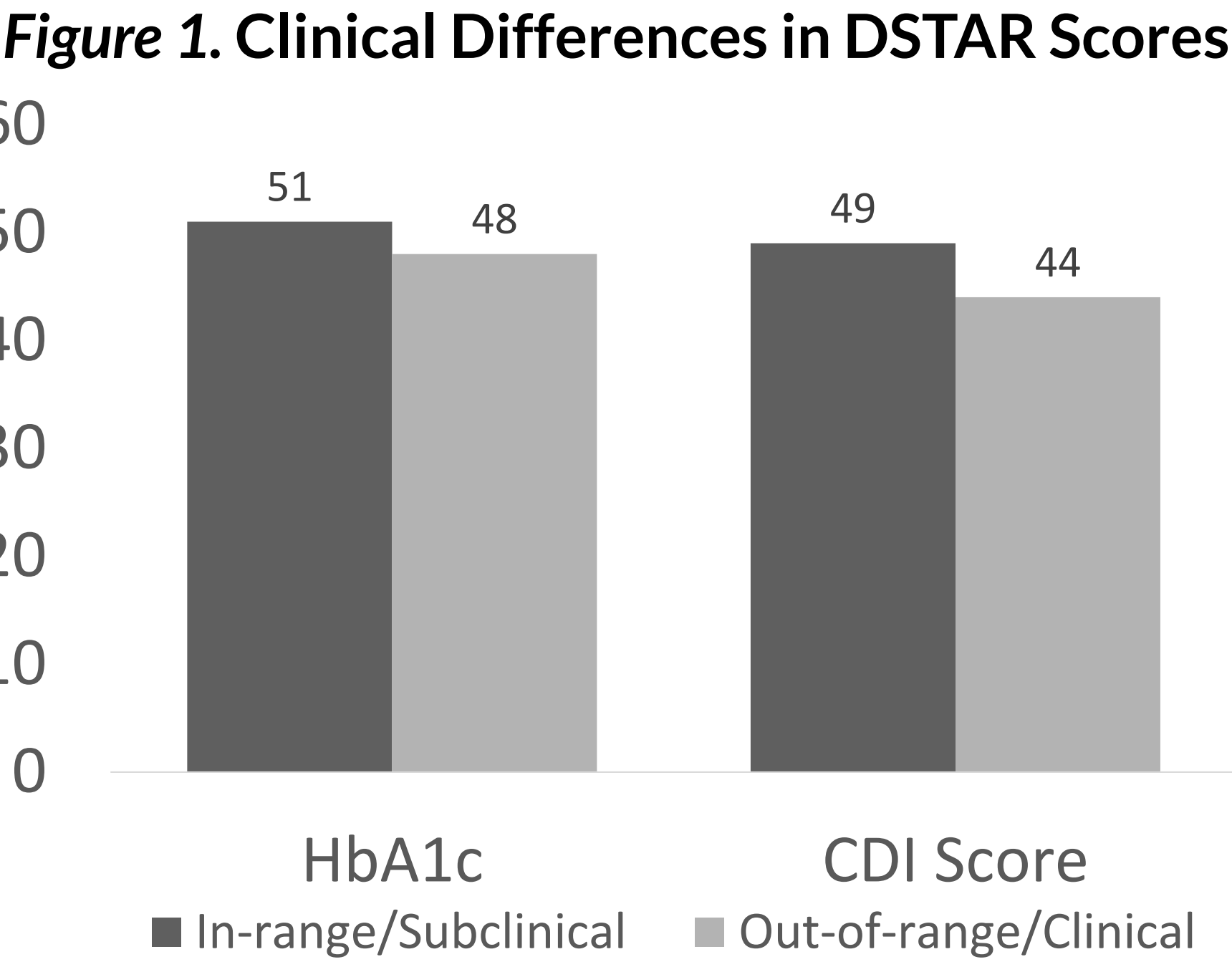
Table 1. Key Participant Characteristics

	M(SD) or %
Age, years	11.29 (1.27)
Gender, % female	55%
# of caregivers, % 2+	80%
Insurance, % private	65%
Parent education, % bachelors or above	54%
Race Ethnicity, % Non-Hispanic white	57%
CDI score, % clinical	11%
HbA1c, % in-range (<7.5%)	27%

Table 2. Group Differences in Strengths

Variable (groups)	t/F value	sig
Gender (m; f)	0.13	0.90
# of caregivers (1; 2+)	-1.05	0.30
Insurance type (Private; Public or none)	-2.98	<0.01**
Parent education (bachelors and higher; below bachelors)	-2.21	0.03*
Race Ethnicity (Non-Hispanic White; Black; Hispanic)	5.21	<0.01**
DSTAR Means	White	49.89**
	Hispanic	46.21**
	Black	47.41
CDI score (clinical; subclinical)	4.29	<0.01**
HbA1c (<7.5%; ≥7.5%)	3.30	<0.01**

*p<.05, **p<.01.



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