# **Daily Diabetes Treatment Barriers in Youth with Type 2** Diabetes

#### BACKGROUND

- Pediatric type 2 diabetes (T2D) disproportionately affects females, at incident rates nearly twice that of their male counterparts.
- Youth-onset T2D has an aggressive clinical course, making treatment adherence crucial to achieve optimal glycemic control and reduce risk of diabetes-related complications.
- Up to 70% of youth with T2D are nonadherent to one or more components of their diabetes regimen (i.e., medication, diet, physical activity).
- **Objective:** Examine barriers to diabetes treatment (i.e., medication, diet, and physical activity) in youth with T2D.

Table 1. Child Age Age in years Child Sex Assigned at Birth Female Child Race Asian American Black or African American White Other **Multiracial** African n=1 Not reported Child Ethnicity Hispanic or Latino Family History of T2D Obesity Hypertension Heart Disease Household Income Less than \$20,000 \$20,000 - \$34,000 \$35,000 - \$49,000 \$50,000 - \$74,900 \$75,000 - \$99,999 \$100,000 or more Not Reported



stamps

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### RESULTS







## METHODS

- Ten youth completed 2 weeks of ecological momentary assessment surveys (Mean days of EMA surveys) 12.4±3.2) regarding daily barriers to their diabetes regimen.
- Descriptive statistics were computed to examine the sample demographic along with the frequency and patterns of barriers to diabetes medication, diet, and physical activity.

#### CONCLUSION

- Youth with T2D come from diverse backgrounds and appear to encounter social determinants of health that may influence their diabetes management.
- Youth with T2D encounter daily challenges managing at least one component of their diabetes regimen.
- Adherence interventions designed to meet the unique needs of this patient population are needed.