

Integrative, mindfulness group therapy in adolescents with diabetes

Submission date 03/01/2026	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered
		<input type="checkbox"/> Protocol
Registration date 06/01/2026	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
Last Edited 06/01/2026	Condition category Nutritional, Metabolic, Endocrine	<input type="checkbox"/> Individual participant data
		<input checked="" type="checkbox"/> Record updated in last year

Plain English summary of protocol

Plain English summary of protocol not provided at time of registration.

Contact information

Type(s)

Principal investigator, Scientific, Public

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The DAISY Foundation HE Grant No.
HEG-2024-1142

Study information

Scientific Title

A pilot study of an 8-week, group-based, chakra-informed kundalini yoga intervention for adolescents and young adults with diabetes: feasibility, youth outcomes, and caregiver distress

Study objectives

The purpose of this prospective pilot-based intervention is to evaluate the feasibility, safety, and efficacy of an integrative multi-modal, small-group, wellness intervention for adolescents aged 12-21, diagnosed with Type I and II diabetes. This research will explore integrative therapies' potential to improve blood sugar control, stress and inflammation in children and young adults living with diabetes.

Ethics approval required

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Ethics approval(s)

approved 03/04/2024, NewYork-Presbyterian Brooklyn Methodist Hospital Institutional Review Committee (NewYork-Presbyterian Brooklyn Methodist Hospital, 506 6th Street, Brooklyn, 11215-9008, United States of America; +1 718/780-5575; pcfullar@nyp.org), ref: 2174522

Primary study design

Interventional

Allocation

N/A: single arm study

Masking

Open (masking not used)

Control

Uncontrolled

Assignment

Single

Purpose

Supportive care, Treatment

Study type(s)

Health condition(s) or problem(s) studied

Diabetes, Diabetes related distress, Depression, Anxiety, Perceived Stress, Glycemic control, Caregiver related diabetes distress

Interventions

The 8-week intervention includes a series of therapeutic sessions in small groups (3-5 people) utilizing integrative therapy for about 1.5-2 hours. Sessions will be held in a private room on the hospital campus, facilitated by the Primary Investigator, an FNP and Certified Yoga instructor. The format for each session will follow a theme and start with a meditation or prompt, followed by journaling & reflection, group sharing & affirmation, and kinesthetics, specifically, yoga postures. Participants will be given care kits: yoga mat, blocks, strap, water bottle, journal, and pen. In addition to the 8-week intervention, the study participants will complete study

procedures as shown below for intervals of baseline, week 8 and 3 months:

Research surveys: PSS-10, DDS-17 & PDDS-18

Routine visit surveys: Social Determinant of Health, General Anxiety Disorders (GAD-7), and Patient Health Questionnaire (PHQ-9) extracted from the electronic medical record

Biometrics: Body Mass Index, weight, waist circumference

Vitals: Oxygen saturation, heart rate, respiratory rate, and blood pressure

Devices: Continuous Glucose Monitor (CGM)

Laboratory tests: Cortisol, CRP, IL-6, TNF- α , adiponectin, leptin, adiponectin-leptin ratio, HbA1c, vitamin D, TSH, FT4, Creatinine/albumin ratio, lipid profile.

Intervention Schedule:

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- Baseline (preliminary labs, biometrics, surveys: SDOH, PHQ9, GAD, DDS-17, PDDS18, PSS-10, CGM within 2+ weeks of intervention, consent).
- Week 1: Root: Security, Grounding, Stability
- Week 2: Sacral: Passion, Creativity
- Week 3: Solar Plexus: Personal, Power, Confidence
- Week 4: Heart: Love, Kindness, Harmony
- Week 5: Throat: Truth, Honesty, Self-Expression
- Week 6: Third Eye: Intuition, Insight, Perception
- Week 7: Crown: Elevating Connections
- Week 8: Closing Ceremony (Reflection/Feedback Survey)
- Upon completion of the program repeat: Labs, biometrics, surveys: DDS-17, PDDS-18, PSS-10, GAD, PHQ9, CGM not exceeding 1-2 weeks
- Schedule 3-month post-intervention endocrine follow-up clinic visit. Obtain final labs, biometrics, surveys: DDS-17, PDDS-18, PSS-10, GAD, PHQ9, CGM 3-month summary

Intervention Type

Behavioural

Primary outcome(s)

1. Diabetes related distress measured using the Diabetes Distress Scale 17item (DDS-17) at baseline (pre), on completion of the program (post), and 3-month follow up
2. Parental diabetes related distress measured using the ParentalDetermined Disease Steps (18item (PDDS-20) at baseline (pre), on completion of the program (post), and 3-month follow up
3. Depression measured using the Patient Health Questionnaire 9item (PHQ-9) at baseline (pre), on completion of the program (post), and 3-month follow up

Key secondary outcome(s)

Completion date

01/11/2025

Eligibility

Key inclusion criteria

1. For the intervention, adolescents aged 12-21 years, all genders, have a minimum of 1 year DM history and type 1 or type 2 diabetes as defined by the American Diabetes Association. Participants who are proficient in English, at a minimum of 3rd grade reading level (for the

purpose of consent/assent).

2. Caregiver(s) will be invited to participate in the SDOH (once during consent) and the PDSS survey at pre-,post, and at the 3 month follow up visit with endocrinology. A caregiver is considered any member of the family that directly interacts with daily diabetes management.

Healthy volunteers allowed

No

Age group

Mixed

Lower age limit

14 years

Upper age limit

21 years

Sex

All

Total final enrolment

13

Key exclusion criteria

1. Adolescents less than 12 years of age
2. Non-English speaking
3. Less than 1 year history of type 1 and type 2 diabetes as defined by the American Diabetes Association

Date of first enrolment

01/07/2024

Date of final enrolment

05/08/2024

Locations

Countries of recruitment

United States of America

Sponsor information

Organisation

DAISY Foundation

ROR

<https://ror.org/052fbzq52>

Funder(s)

Funder type

Funder Name

DAISY Foundation

Alternative Name(s)

DAISY, The DAISY Foundation

Funding Body Type

Private sector organisation

Funding Body Subtype

Trusts, charities, foundations (both public and private)

Location

United States of America

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Data sharing statement to be made available at a later date