

PERSONALIZED LEARNING SYSTEM: WORK GROUP & RESPONSIBILITIES

RESEARCH TEAM

Principal Investigators | Heather Kaplan, MD, MSCE & Peter Margolis, MD, PhD

Co-Investigators | Jeremy Adler, MD, Ian Eslick, PhD, Shehzad Saeed, MD, & Michael Seid, PhD

External Consultants | Tom Nolan, PhD & Lloyd Provost, MS

Study Research Coordinators | Sunny Thakkar

THE WORK GROUPS

Personalized Learning System Outcomes

Lead: TBD

Other members: Michael Seid, Heather Kaplan, Ellen Lipstein

Coordinator: Sunny Thakkar

Team Goal: understand how the Personalized Learning System improves outcomes for patients and providers including (but not limited to) symptoms, quality of life, shared decision-making, treatment confidence, and disease insight

Responsibilities:

- Developing & tracking measures of system engagement
- Response rate, time tracking, drop-out rate
- Managing mixed methods outcome analysis—developing & administering surveys, conducting interviews, analyzing data
- Identifying or developing measures of patient empowerment, autonomy, self-efficacy, activation
- Identifying or developing measures of patient provider collaboration

Technology

Lead: Ian Eslick

Other members: Lybba

Coordinator: Sunny Thakkar

Team Goal: build, refine, & commercialize the C3N Platform Personalized Learning System Technology to facilitate efficient patient, physician & researcher collaboration

Responsibilities:

- Setting up new accounts in the Platform
- Developing technology further to respond to information accumulated with increased use; fixing bugs
- Identifying new ways to improve data collection, visualization & analysis
- Identifying opportunities to decrease system transactional costs
- Exploring machine learning applications for the Personalized Learning System

Logistics

Lead: Heather Kaplan

Other members: Sunny Thakkar

Team Goal: ensure that project is on track, working groups are functioning well together, action items are delivered on time, & there is good communication between workgroups

Responsibilities:

- Meeting planning
- Tracking action items
- Oversight & updating of IRB
- Assist in solving working group issues/concerns
- Tracking study progress & enrollment targets

CONTACT

**Study Research
Coordinator**

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Project Lead

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Clinical GI Application

Lead: Jeremy Adler

Other members: Shehzad Saeed

Coordinator: Sunny Thakkar

Team Goal: advise on GI content within N-of-1 studies and advance the field with respect to measuring and improving disease outcomes in IBD

Responsibilities:

- Developing & validating disease activity measures, exploring the link between disease activity and QOL/symptoms
- Generating information about the biologic effects of common interventions explored in pediatric IBD
- Reviewing all Learning Plans for rigor re: GI evidence-base
- Coordinating physician recruitment & training/orientation of both physicians & patients
- Monitoring patient recruitment/enrollment
- Preparing & running physician monthly MTGs as it relates to advancing IBD care
- Helping to synthesize knowledge acquired from physician monthly MTGs as it relates to advancing IBD care
- Serving as point person for GI physicians with questions about experiments
- Review of Adverse Events (AE) log
- Planning for monthly calls

Personalized Learning System Methods

Leads: Heather Kaplan, Mi-Ok Kim

Other members: Tom Nolan, Lloyd Provost, Peter Margolis, Ian Eslick, Ginger.io

Coordinator: Sunny Thakkar

Team Goal: focus on quality improvement, self-tracking and identifying special causes that are rigorous, replicable, and successful at achieving outcomes in order to develop and describe methods for learning within the C3N Platform

Responsibilities:

- Review data across experiments to generate generalizable principles about how to interpret frequently collected data & understand extent of within patient variation
- Reviewing Learning Plans across experiments for opportunities to apply QI methods (e.g., reaction plan) & for rigor of experimental design
- Developing & documenting standardized processes for engaging with the Personalized Learning System
- Developing methods to improve rigor of experiments while keeping transactional costs low (e.g., Bayesian Methods)
- Developing strategies to accumulate knowledge across experiments
- Developing educational tools for patients about SPC & experimentation