

D&I SCIENCE PROGRAM: THE PAST YEAR



IF AN INTERVENTION WORKS

AND NOBODY CAN USE IT.....

DOES IT STILL MAKE AN IMPACT?

December 2020
ACCORDS PI Meeting

D&I UPDATE | WHAT WE WILL COVER TODAY

- D&I Program – who are, what do we do, and **where we are going** (Russ)
- What we are doing to **build D&I capacity** within and among scientists, systems and communities (Amy)
- What we are doing to develop, test and disseminate **sustainable and equitable solutions** to real world problems (Bethany)
- What are we **working on improving** and handling (Jodi)
- Open discussion and Q&A

D&I PROGRAM

WHO WE ARE

D&I Core Consultation Team

- Russ Glasgow (Director)
- Jodi Holtrop (Co-Director)
- Amy Huebschmann
- Bethany Kwan
- Tina Studts

Other Key Members

- Hillary Lum
- Dan Matlock
- Borsika Rabin (@UCSD)

....and many colleagues!

D&I PROGRAM MEETING

12-08-2020



Demetria McNe...



Bryan Ford



robertthompson



Bethany Kwan



Heather Gilmart...



Meredith Fort



Russell Glasgow



Noy Phimphaso...



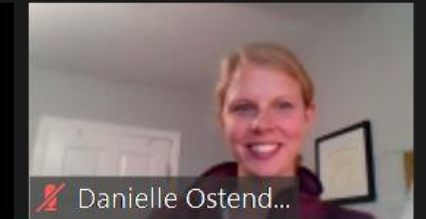
Jenna Reno



Nicole Wagner



Hillary Lum



Danielle Ostend...



Katy Trinkley



Connie van Eeg...



Amy Huebschm...



REZA YOUSEFI NO...



Claudia Amura



Catherine Batta...



Matthew Simps...



Tina Studts



Felipe Castro



Chris Knoepke



Laura Anthony (...)



Rodger Kessler



Jodi Holtrop



Anna



Mustafa Ozkay...



Jeanette Waxmon...

D&I PROGRAM

WHAT WE DO

MISSION:

We use stakeholder engagement and *pragmatic D&I models, methods, and measures* to:

- *build D&I capacity* within and among scientists, systems and communities; and
- *develop, test and disseminate* sustainable and equitable solutions to real world problems.

D&I PROGRAM

WHERE WE ARE GOING

Current Strengths and Emphases

- Pragmatic research models (e.g., RE-AIM, DSF, PRISM), methods and measures
- Interactive tools, resources
- Consultation and training programs

New and Future Directions

- Study of context and adaptations
- Integration of D&I (esp. NCI D&I Center grant) with:
 - Shared decision making
 - Health economics
 - Aging, chronic illness and complex conditions

Needs and Possible Future Directions

- Rapid research, study of sustainability

ONGOING PROJECTS | EXAMPLES

- Iterative use of RE-AIM to **guide adaptations**
- Expansion and development of resources on PRISM (our Pragmatic Robust Implementation and Sustainability Model)
- Literature review and **tools around designing for dissemination and sustainability**
- Revision and updating of online and interactive tools:



[Dissemination-implementation.org](https://dissemination-implementation.org)
(selecting and using theories)



[RE-AIM.org](https://re-aim.org)
(new design, sections, resources)

BUILDING CAPACITY

WITHIN AND AMONG
SCIENTISTS, SYSTEMS,
AND COMMUNITIES

- ***D&I Certificate program***
- COPRH Con
- ***Group mentoring***
- ACCORDS education series
- P50 capacity building arm
- ***D2V integration***
- ***CCTSI collaboration***
- K12 program
- ***Consultations and support to other investigators***

WHAT

WHAT IS THE RATIONALE FOR OUR D&I GRADUATE CERTIFICATE?

Rationale

- Addresses a local and national need for rigorous training in D&I Science in health services and public health research
- Leverages our outstanding D&I faculty and resources on our campus, and our connections with other national D&I leaders as guest lecturers

WHY



WHY PURSUE THE D&I SCIENCE GRADUATE CERTIFICATE?

Rationale for individuals in different career stages

- K-awardees: Robust coursework for a D&I training goal on a career development award
- Mid-career faculty: Become a “home-grown” local faculty expert for D&I research methods in your institution
- PhD/DrPH students: Potential area of minor concentration research methods
- Exploring areas for a PhD: Test out the field of D&I science before committing to research in this area

WHO

D&I CERTIFICATE DIRECTORS & SPONSORS



ACCORDS

ADULT AND CHILD CONSORTIUM FOR HEALTH OUTCOMES
RESEARCH AND DELIVERY SCIENCE

UNIVERSITY OF COLORADO | CHILDREN'S HOSPITAL COLORADO



**Amy Huebschmann, MD,
MS, FACP**

Director, D&I Certificate



**Borsika Rabin, PhD, MPH,
PharmD**

Co-Director, D&I Certificate



Colorado Clinical and Translational
Sciences Institute (CCTSI)

UNIVERSITY OF COLORADO **DENVER** | **ANSCHUTZ MEDICAL CAMPUS**

Clinical Sciences Graduate Program



Lisa Cicutto, PhD, ACNP(cert), RN

Director, Clinical Sciences
Graduate School Program



Galit Mankin, MSW

Administrative Lead, CLSC

WHO | D&I CERTIFICATE FACULTY



Jodi Holtrop, PhD, MCHES



Brooke Dorsey Holliman, PhD



Elaine Morrato, DrPH



Bethany Kwan, PhD



Ross Brownson, PhD



Tina Studts, PhD, MSPH, LCSW



Russ Glasgow, PhD



Amy Huebschmann, MD, MSc



**Borsika Rabin, PhD, MPH,
PharmD**



OVERVIEW

WHAT ARE THE COURSES?

Total of 12 credit hours completed within a 3-year period

Required Courses (7 credit hours):

Required Courses	Instructor	Credits	Timing
CLSC 7653 Introduction to Dissemination and Implementation Research in Health	Rabin/Studts	3	Fall (annually)
CLSC 6560 Designs and Mixed Methods in Implementation Research	Holtrop/ Dorsey-Holliman	2	Spring (annually)
CLSC 6570 Designing for Dissemination and Sustainability	Morrato/Kwan	2	Summer (annually)

OVERVIEW

WHAT ARE THE COURSES?

Elective Courses (5 credit hours):

Elective Courses	Instructor	Credits	Timing
CLSC 7663 Context and Adaptation in D&I Research	Studts/ Rabin	2	Spring (annually)
CLSC 6770 Grant-writing for D&I Research	Glasgow/ Brownson	2	Summer (annually)
CLSC 6850 Advanced Topics in D&I Science	Huebschmann	1-2	Fall, Spring (annually)
Electives approved by Certificate director		Up to 3	Varies

WHEN | WHEN TO APPLY?

Annual application cycles: Next cohort of ~12 individuals will start classes in Summer or Fall 2021

- Webinar with more details planned for January 2021
- Application will be available starting Feb 1, 2021 on our website
- Due date: March 1, 2021
- Timing to matriculate (start courses):
 - June 2021 (Summer semester)
 - August 2021 (Fall semester)

Questions? E-mail Amy.Huebschmann@cuanschutz.edu

D&I GROUP MENTORING

How it works:

- 1-2 D&I leads each time
- Twice per month for 1 hour
- Open topics (can sign up for a slot or have “office hours” open discussion)
- Includes D&I topics but also general career mentoring
- Mentees share and help each other

Evaluation:

- 10 participants in 2020; more in 2021



ACCORDS EDUCATION



ACCORDS
UNIVERSITY OF COLORADO
CHILDREN'S HOSPITAL COLORADO

Presents

Planning Multi-level Interventions and Implementation Strategies to Increase Health Equity



An ACCORDS Seminar Series 2020 - 2021

AN INTRODUCTION TO
SUSTAINABILITY, VALUE,
AND COST: DEVELOPING
ENDURING HEALTH CARE
INTERVENTIONS

BETHANY KWAN, PHD
MARK GRITZ, PHD
OCTOBER 19, 2020

Screening for Social Determinants of Health (SDOH) and offering SDOH assistance in health care settings: Patient Perspectives

Amy Huebschmann, MD, MS

With attribution for project leadership and slides shared by
Emilia De Marchis, MD, MAS and UCSF SIREN group
April 15, 2020



ACCORDS
ADULT AND CHILD CONSORTIUM FOR HEALTH OUTCOMES
RESEARCH AND DELIVERY SCIENCE
UNIVERSITY OF COLORADO | CHILDREN'S HOSPITAL COLORADO



SCHOOL OF MEDICINE
General Internal Medicine
UNIVERSITY OF COLORADO ANSCHUTZ MEDICAL CAMPUS

Considering All Users: Designing for Dissemination Using Audioelicitation Interviewing



Chris Knoepke, PhD, MSW
Assistant Professor
Division of Cardiology
University of Colorado



Maria E. Fernández, PhD
Lorne Bain Distinguished Professor in Public Health and Medicine
Professor of Health Promotion and Behavioral Sciences
Director, Center for Health Promotion and Prevention Research
The University of Texas Health Science Center at Houston (UTHealth) School of Public Health

CCTSI, D2V and ACCORDS Integration

The science of D&I vs the practice of D&I

- Support designing for sustainability and dissemination
- Dissemination planning and budget
- Developing dissemination products: messages, value proposition design, packaging and delivery to key audiences



CCTSI DISSEMINATION SERVICES

COORDINATED WITH ACCORDS

We provide consultations to investigators throughout the stages of the dissemination planning process.

Services

- Conducting a needs assessment
- Identifying a plan of action
- Providing advice on dissemination theories and frameworks
- Material design resources
- Evaluation guidance
- Dissemination plans for grant proposals & budgets
- Archival support



CCTSI DISSEMINATION SERVICES

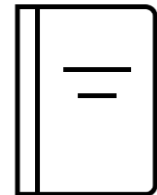
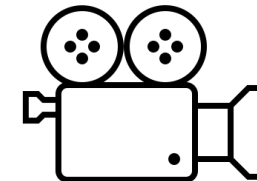
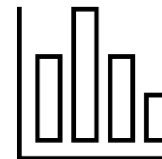
COORDINATED WITH ACCORDS



MOUNTAIN SCHOLAR

DIGITAL COLLECTIONS OF COLORADO & WYOMING

- Free, open access repository
- Collects, preserves, provides access to digitized scholarly works
- Creates a digital object identifier (DOI)
 - Permanently identifies content
- Search engine

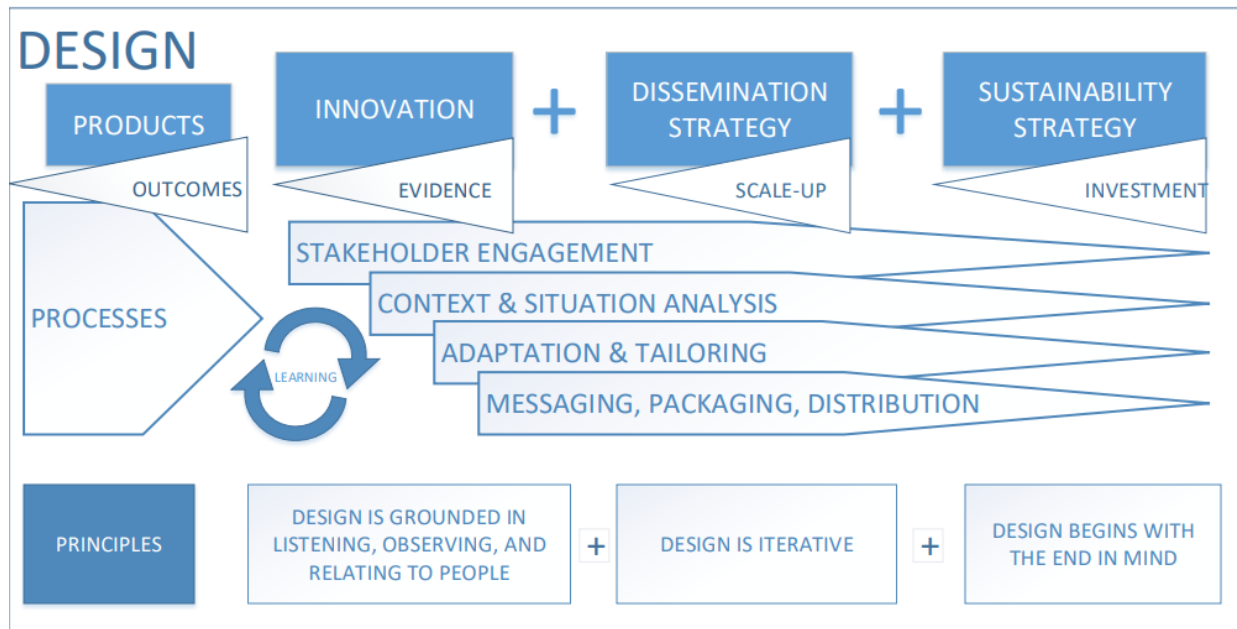


More information: <https://mountainscholar.org>

Submit work: <https://library.cuanschutz.edu/mountain-scholar-submit>

DESIGNING FOR DISSEMINATION METHODS

TOOLS AND RESOURCES



STAKEHOLDER ENGAGEMENT NAVIGATOR

A guide for health researchers



[Home](#) > [Stakeholder Engagement Selection Tool](#)

EDUCATION HUB

FIND ENGAGEMENT STRATEGIES

Stakeholder Engagement Selection Tool

Welcome! The purpose of this tool is to help your team select the most appropriate engagement method or tool for your particular project.

Before using the tool, consider the following:

- Purpose:** What do you hope to achieve through stakeholder engagement?
- Budget:** What budget do you expect to have for your engagement activities?
- Number of interactions:** Over what period of time do you expect to engage your stakeholders?
- Time per interaction:** How much time do you expect from your stakeholders in any given interaction?
- Staffing/expertise:** What types of staffing and expertise are available to you?

NATIONAL CTSA D&I WORKING GROUP



CLIC & The CTSA Program ▾

News & Events ▾

Groups ▾

About

Steering Committee

Consortium Groups

Enterprise Committees

Working Groups

Discussion Forums

Groups Calendar

Common Metrics Initiative ▾

Education & Career Development ▾

Collaboration ▾

Resources ▾

CTSA Program Projects & Initiatives ▾

Contact ▾

Search ▾

Advancing Dissemination and Implementation Sciences in CTSAs: A Working Group

View

Status Report

Welcome **Bethany Kwan**! You are a member of this group.

Purpose

The purpose of this working group is to meet both the conceptual as well as practical challenges to advancing the utilization of D&I across the translational science spectrum. Our agenda builds on a highly productive and prior version of this Working Group which articulated the need and desire for better integration of D&I sciences within CTSAs. Our group will continue the previous work by focusing on the "how" of D&I integration within CTSA hubs nationally, and on creating and disseminating practical tools, resources, and insights that CTSAs can use to fully realize the potential of D&I to enhance CTSAs' mission.

Goals

To enhance translation by bringing to bear in CTSAs the insights, principles, frameworks, and strategies of dissemination and implementation sciences

To provide conceptual and practical guidance that CTSA hubs across the consortium can rely on for support in D&I integration and capacity building.

Advancing Dissemination and Implementation Sciences in CTSAs: A Working Group Leadership

- **Tara Mehta** University Of Illinois At Chicago
- **Bethany Kwan** University Of Colorado Denver
- **Aaron Leppin** Mayo Clinic
- **Mercedes Rubio** NCATS

Coordinator



Julie Schwan, MS
Coordinator
University Of Rochester

Liaison



Laura Sugarwala, MBA, RDN
Director, Community Health Partnerships
University Of Rochester

Contact Email

collaboration_engagement@clic-ctsa.org

Meetings

Third Tuesday of each month at 12:00 pm EDT

Upcoming

12-15-20 at 12:00 pm EDT Full Team Meeting

[Meetings Archive](#)

Leave group

CORE TEAM

CONTRIBUTIONS TO THE D&I FIELD



In addition to all previously mentioned...

D&I Publications (conceptual, methodological or application)

- Published: 39
- In press or under review: 21

“THE WI-FI PASSWORD IS ‘PUBLISH OR PERISH’.”

KEY PAPERS | PUBLISHED THIS YEAR

- **Glasgow RE**, Battaglia C, McCreight M, Ayele RA, **Rabin BA**. Making implementation science more **rapid: Use of the RE-AIM** framework for mid-course adaptations across five health services research projects. *Front Public Health*. 2020;8:194.
- Krist AH, O'Loughlin K...**Huebschmann AG**, et al. Enhanced care planning and clinical-community linkages versus usual care to address basic needs of patients with multiple chronic conditions: a clinician-level randomized controlled trial. *Trials*. 2020;21(1):517.
- **Studts CR**, Merritt A, Pilar MR, Bundy HE, Bardach S, Jacobs JA, Feltner F. **Parent and provider preferences** for parenting intervention delivery in **rural** Appalachia. *J Health Care Poor Underserved*. 2020;31:1399-1426.
- Shelton RC, Chambers DA, **Glasgow RE**. An extension of RE-AIM to **enhance sustainability**: Addressing dynamic context and promoting health equity over time. *Front Public Health*. 2020;8:134.
- **Holtrop J**, **Glasgow RE**. **Pragmatic research**: An introduction for clinical practitioners. *Family Practice*. July 2020:424-28.
- Yousefi Nooraie R, **Kwan BM**, Cohn E, et al. Advancing **health equity** through CTSA programs: Opportunities for interaction between health equity, dissemination and implementation, and translational science. *J Clin Transl Sci*. 2020;4(3):168-175.

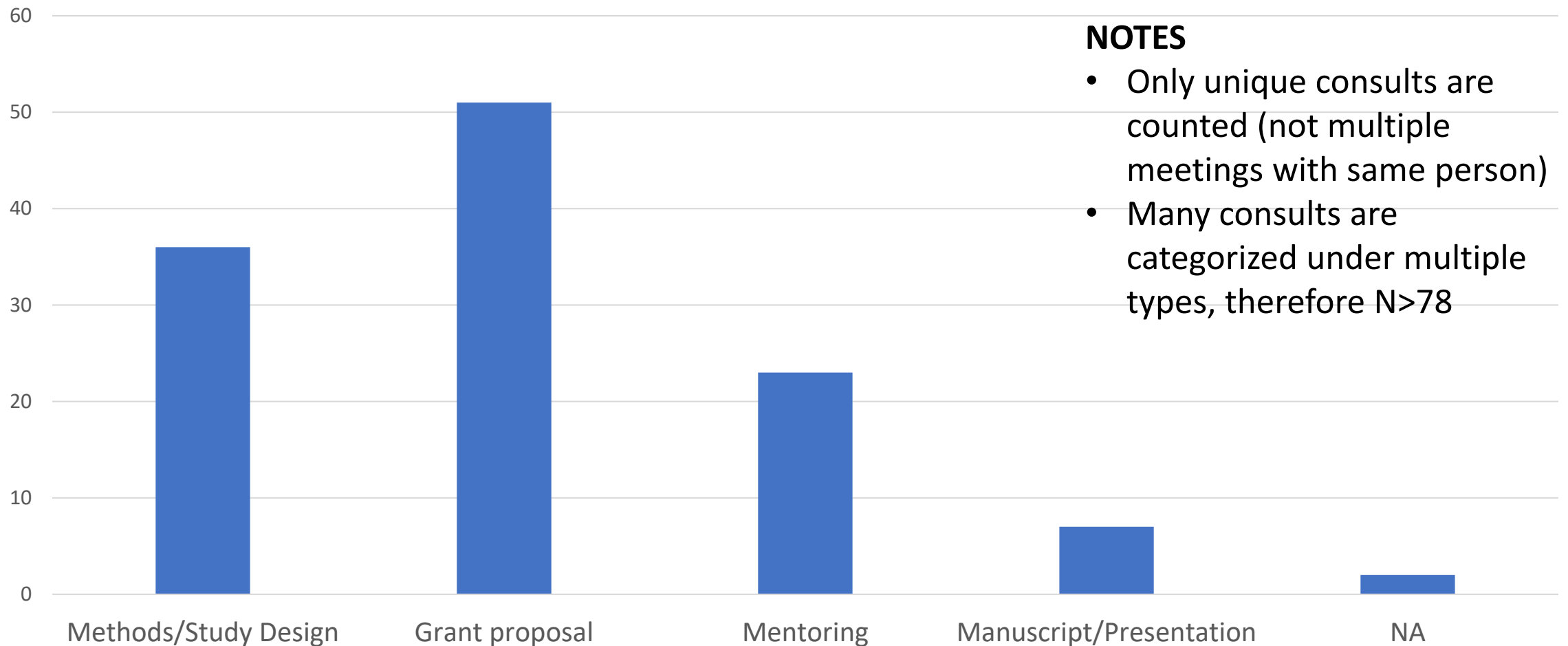
CHALLENGES | HOW ARE WE HANDLING THEM?

- Capacity limits/building make field-building activities challenging
- Not too many “one-time” consultations, but many that turn into requests for mentoring and/or co-investigator roles
 - Added Tina! Planning to hire another new person
 - Building capacity (previous slides)
 - Decision tree

78 TOTAL CONSULTS

November 1 2019 –
November 30 2020

Consult Type



CONSULTATION

SATISFACTION

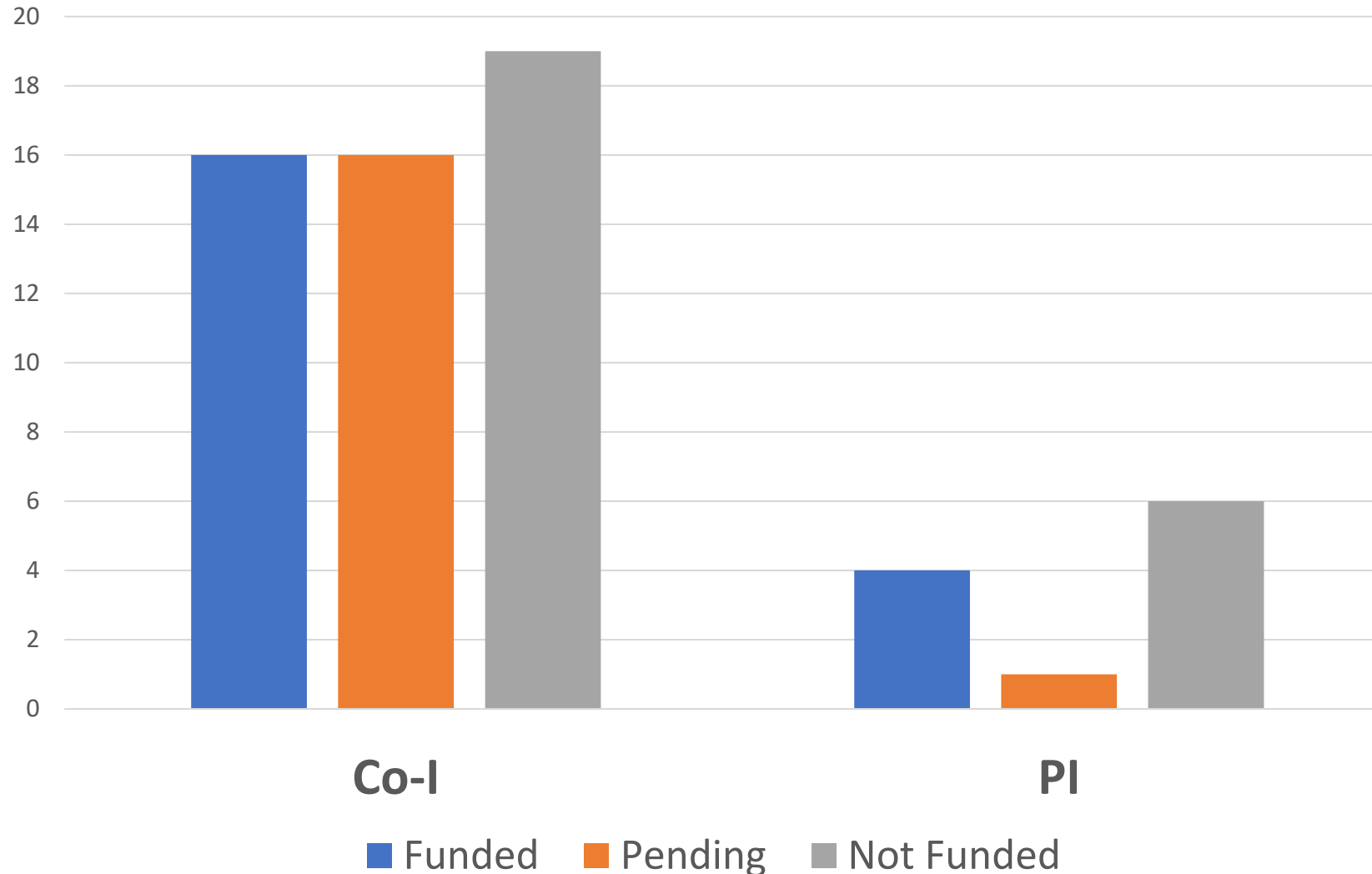
Assessment system

- Automated form emailed at 4 months
- Playing catch-up to get completions
- 16 completed so far
 - 15/16 = “highly valuable”
 - 1/16 = “somewhat valuable”



CORE TEAM

D&I GRANT APPLICATIONS

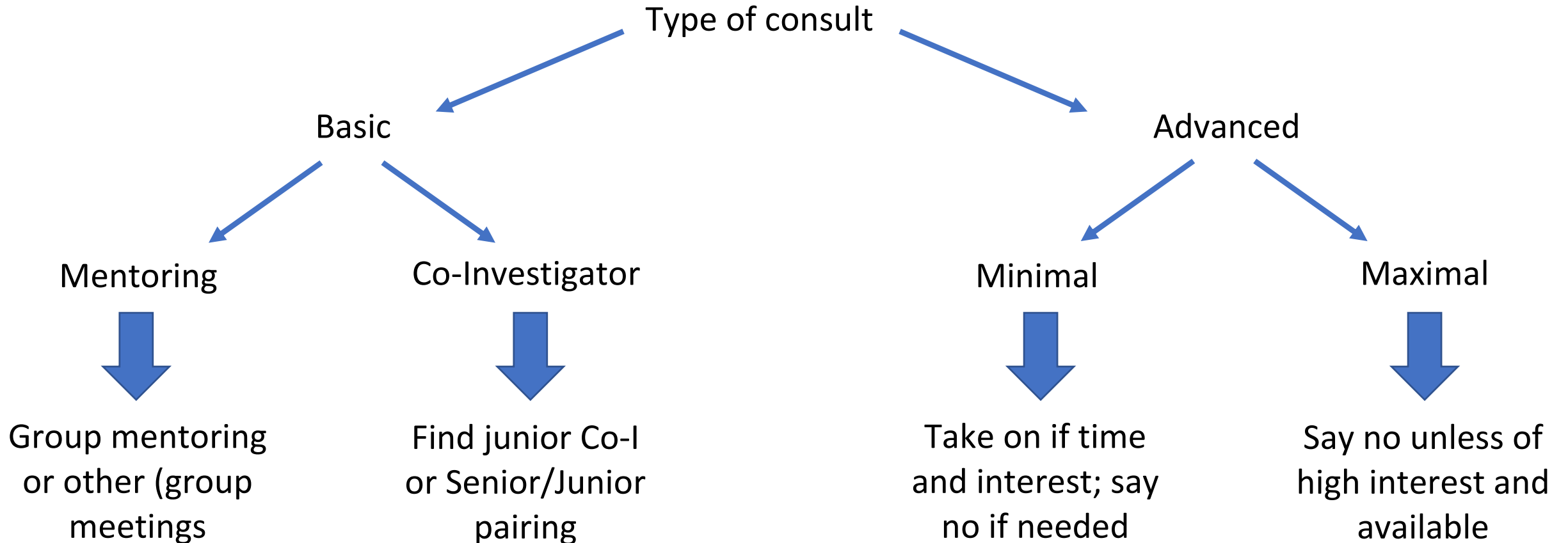


NOTES

- Core team members were also involved in 21 mentoring grant applications
- Numbers do not include Matlock (SDM Program overlap) or Rabin (UCSD)

CONSULTATION | MANAGING CAPACITY

Consultation Decision Tree



D&I PROGRAM

Themes from External Review

Strengths

- Unique and nationally recognized D&I expertise: RE-AIM, shared decision making, rural primary care, designing for dissemination, qualitative and mixed methods research
- Existing D&I courses and on-line resources (Google “ACCORDS D&I”)
- Connections and collaborations with other leading D&I programs
- Partnership with other ACCORDS programs and cores

Challenges

- Exceeding capacity for mentoring and co-PI partnerships
- Not enough T4 science focus (lots of T3 and T3 ½)
- Limited expertise in organization and systems issues

YOUR TURN



Q&A AND DISCUSSION

Thoughts?

Clarifications?

Ideas?

Thank you!