



Enhancing Systems of Care for Children with Medical Complexity

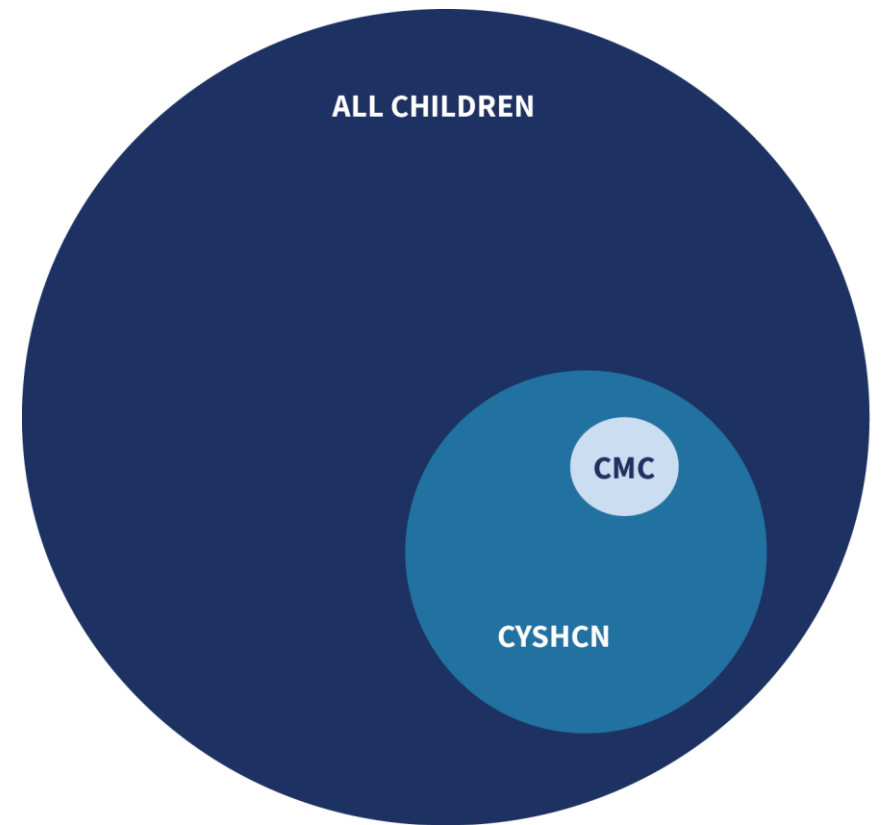
Participatory Design of a Multi-Site Evaluation

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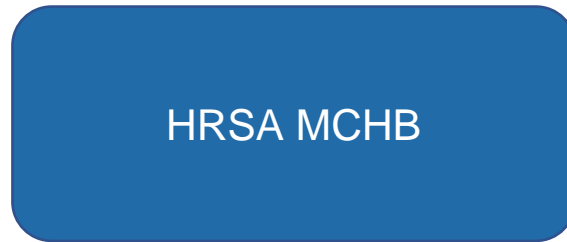
Why are we talking about this?

- Children with medical complexity (< 5%)
 - Intensive hospital / community-based service need
 - Reliance on technology, polypharmacy, home care / congregate care
 - Risk of frequent & prolonged hospitalizations → high service utilization
 - Elevated need for care coordination
- Needs not well met by existing models of care
- Caregivers → stress, depression / anxiety, sleep deprivation, financial hardships, social isolation



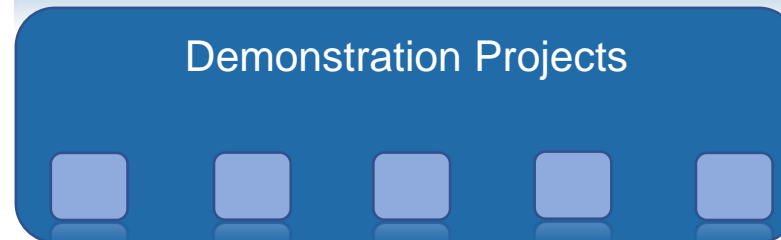
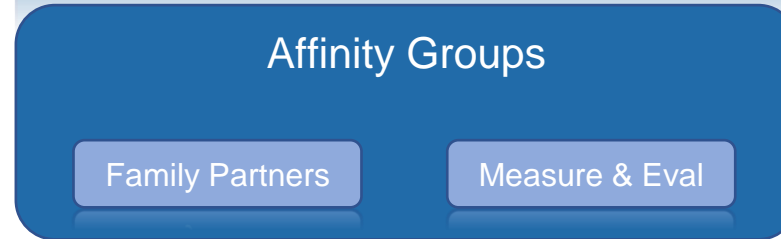
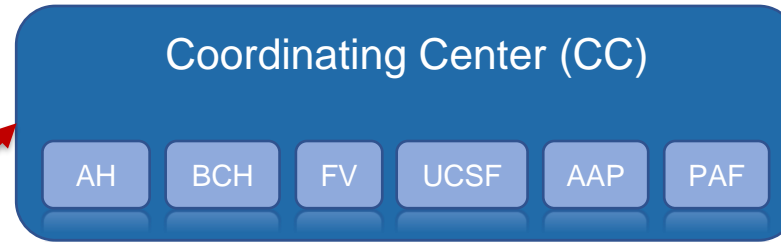
Enhancing Systems of Care for Children with Medical Complexity Initiative

Funding



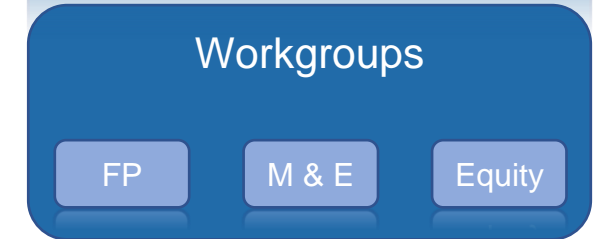
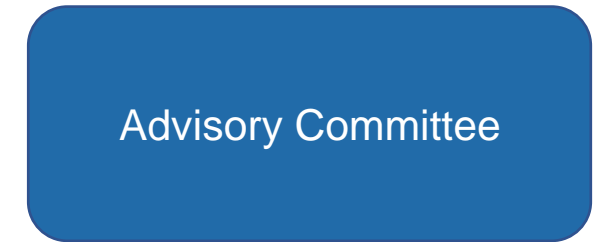
- Evaluate models of care
- Offer training & TA
- Foster external collaboration
- Promote uptake & sustainability

Operations



CC Partner Orgs:
AH: AcademyHealth
BCH: Boston Children's Hospital
FV: Family Voices
UCSF: Univ of CA, San Francisco
AAP: American Academy of Pediatrics
PAF: Patient Advocate Foundation

Oversight



- Testing models of care to:
- Enhance access
 - Use innovative technologies
 - Use equity-informed approaches

Balancing Evaluation Priorities

Important to
Patients / Families

Family Burden

Inform the Field for
Uptake & Spread



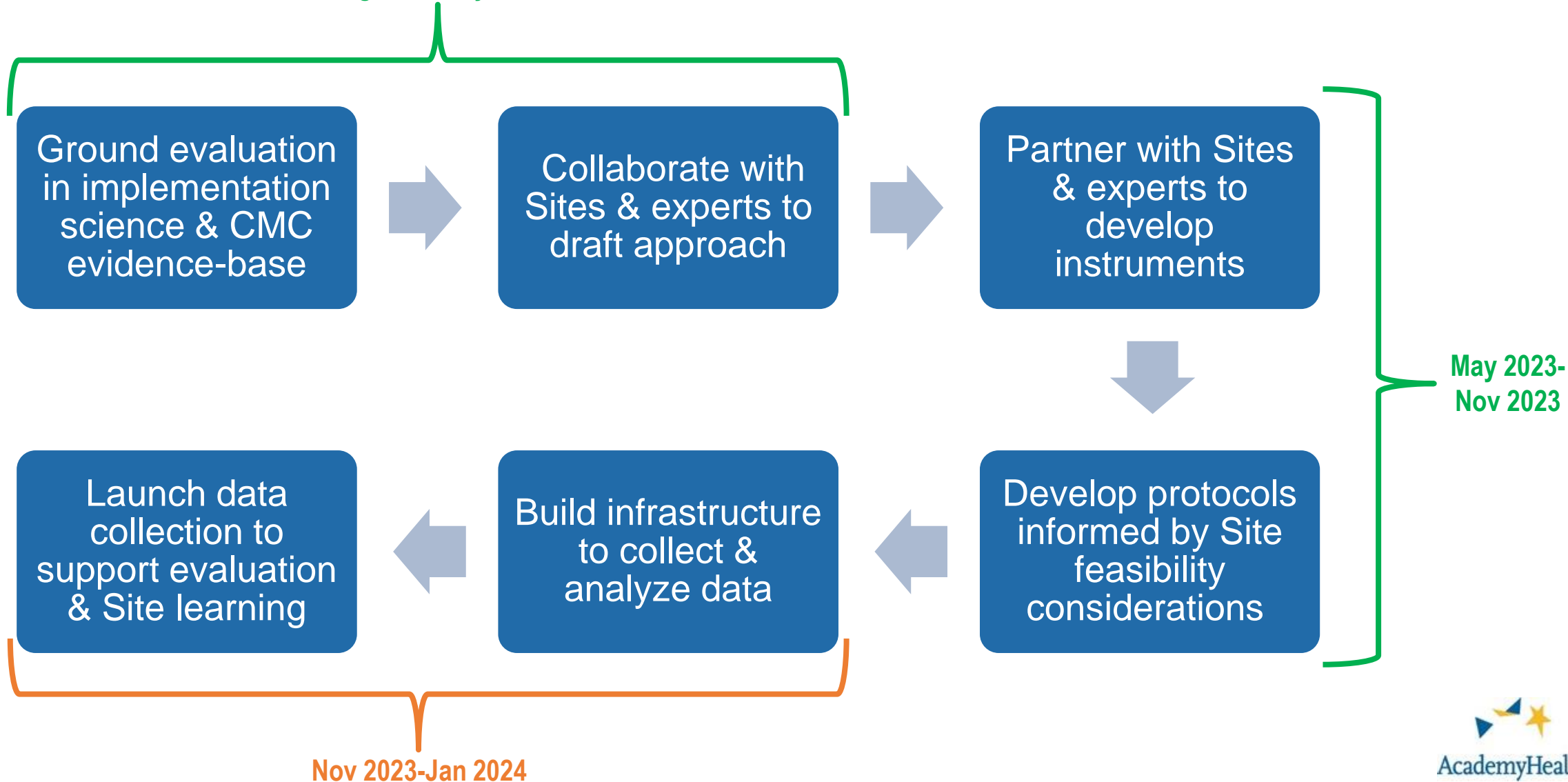
Important to Sites
(QI / Learning)

Site Burden

Relevant to Policy
for Sustainability

Evaluation Design & Launch Plan

Aug 2022-May 2023





Engagement Framework

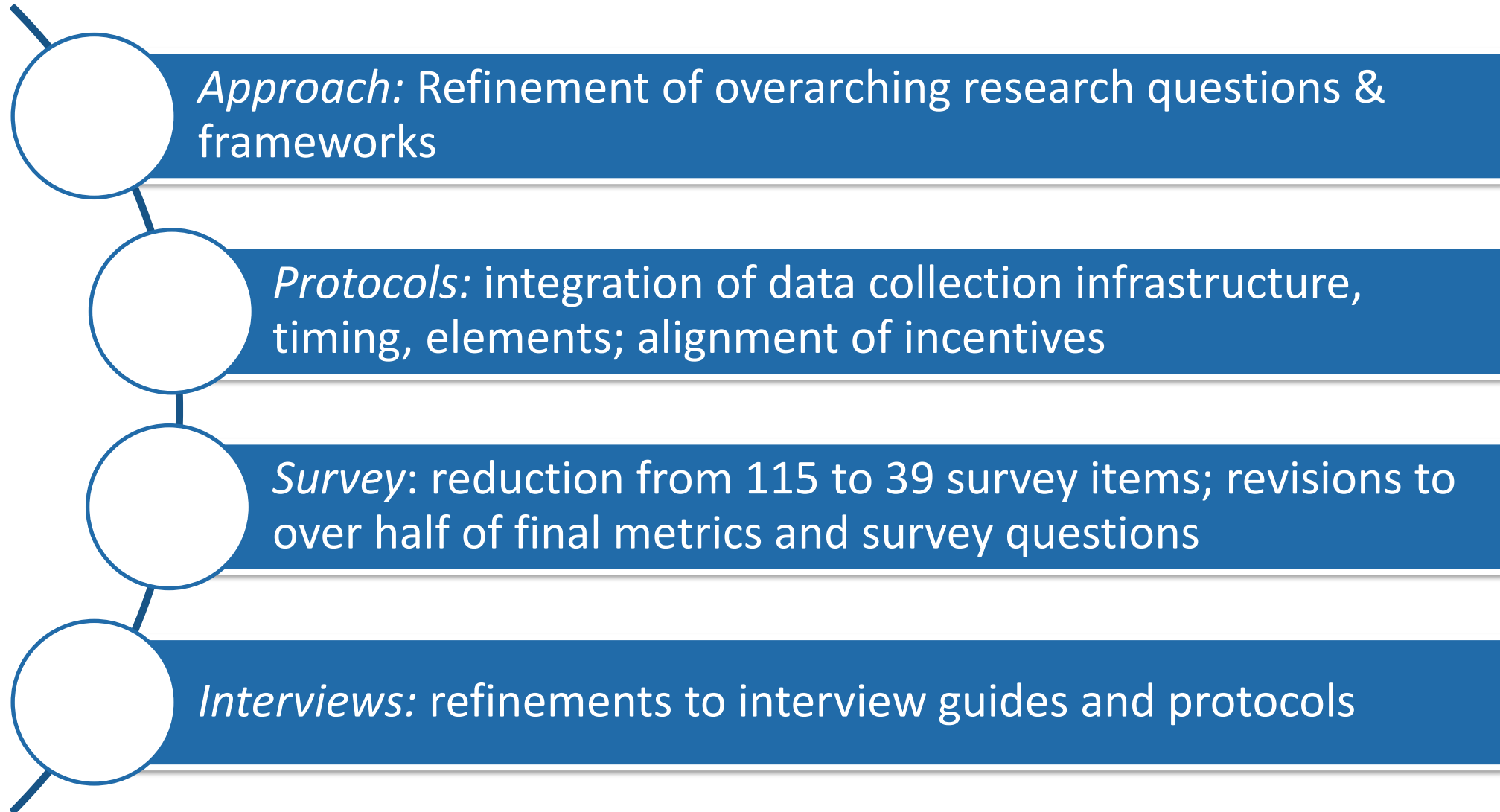
Intensity (→)	Gather Information	Discuss	Engage	Partner
Reach (←)	Broader	Moderate	Narrower	Most Narrow
Engagement Mechanisms	<ul style="list-style-type: none"> - Rank-order sorting - Rating scales - Open comments 	<ul style="list-style-type: none"> - Working Session - Town Hall 	<ul style="list-style-type: none"> - Deliberative Dialogue 	<ul style="list-style-type: none"> - Integrated CC Team: AH, BCH, FV, UCSF, AAP
Mix (→)	Single Stakeholder Groups		Multi-Stakeholder Groups	



Engagement Touchpoints (Nov 2022 – Nov 2023)

Group	Size (N)	Working Sessions (N)	Town Halls (N)	Deliberative Dialogues (N)	Asynchronous Review (N)
<i>Demonstration Site (DS) Representatives</i>					
Measurement & Evaluation Affinity Group (SME)	13	3	2	2	6
Family Partnership Affinity Group (ExE)	13		2	2	2
<i>External Advisors (Subject matter experts, experts by experience, State & Federal policymakers)</i>					
Advisory Committee	31		1	2	2
Measurement & Evaluation Workgroup	12	2	2	2	5
Family Partnership Workgroup	12		2	2	2
Equity Workgroup	12		2	2	2

Results of Engagement





Evaluation Approach

	Implementation Context	Implementation Process	Implementation Outcomes
Research Questions	<ul style="list-style-type: none"> • What are the barriers and facilitators of site implementation strategies? 	<ul style="list-style-type: none"> • How did sites prepare for and support implementation efforts? 	<ul style="list-style-type: none"> • How did the interventions impact outcomes relevant to CMC and their families?
Data Sources	<ul style="list-style-type: none"> • In-depth Interviews 	<ul style="list-style-type: none"> • Site Reporting • In-depth Interviews 	<ul style="list-style-type: none"> • Survey • In-depth Interviews
Relevant Frameworks	<ul style="list-style-type: none"> • Exploration, Preparation, Implementation, Sustainment (EPIS) [From RE-AIM to EPIS] • Consolidated Framework for Implementation Research (CFIR) 		
Protocol Integration	<ul style="list-style-type: none"> • Annual survey with local site-specific modules, administered by sites • Interviews in PY2 & PY5, administered by CC, incentives determined by CC family partners • Site reporting tools integrated with CC technical assistance activities 		



Example: Rank-Order Feedback Tool

Patient Family Experience of Care (PFE) & Care Coordination (CC)

Tier 1 Measures				
Subdomain	Subdomain Topics	Importance to Measure: Rank topics in each subdomain (where 1=most important)	Site Plans to Measure This Topic (regardless of inclusion in the CC Evaluation)	Additional Comments / Considerations
Access to Information	Timely access to information about patient's care	2	yes	Instead of "patient's care", might prioritize "patient's health status."
	Patient/family questions are answered	4	yes	
	Information communicated in a way the patient understood	1	yes	
	Appropriate information communicated	3	yes	
Care Coordination - Team-Based Communication	The patient/family is a key center of the care team	1	yes	
	The care team has a centralized care coordinator	2	no	Our care model does not have a "centralized" care coordinator per se.



Sample Question Transformation

Original Survey Questions

- During the last 12 months, how often did you feel **discriminated against** (i.e., you were treated differently **or** the child's care was affected) by the child's care team?
- If you felt discriminated against (i.e., you were treated differently or the child's care was affected) by the child's care team, what do you feel was the reason(s)?

Revised Survey Questions

- During the last 12 months, did you feel that members of the health care team were **biased against you and/or the child** (treated you/the child **unfairly**)?
- **Against whom** did you feel that members of the health care team were biased?
- Do you feel that this bias **affected the child's care**?
- Why do you think the care team members were biased against you and/or the child? (Select all that apply)



Family Survey Items

TOPIC AREA (# ITEMS IN SURVEY)	
<i>BACKGROUND</i>	
Respondent Details (4)	Insurance Coverage (4)*
Demographics (4)*	Condition Severity (7)*
<i>MODEL QUALITY / OUTCOMES</i>	
Access to Care (13)	Compassionate Care (2)
Care Coordination (3)	Culture & Respect (5)
Engagement in Care (8)	Family Flourishing / Wellbeing (5)

**To be collected from medical records*



Family/Caregiver Interviews: Storytelling-based

Background & Coordination

Background: What do typical, great, and bad days look like? How was your most recent visit to the provider?

Experience & Care Coordination: understanding experiences related to interacting with providers & arranging for care with providers

Decisions, QoL, Compassion/Culture

Shared decision-making: How decisions are made & how it works when families and providers disagree

Health-related quality of life: What the site does & can/should do to help with QoL

Compassion & culture: focus on discrimination, trust, and support



Key Takeaways

- This project offers a real-world use case for operationalizing participatory implementation evaluation design to meet complex competing needs
- Relationship-building is essential in longitudinal engagement
- Targeted and mixed engagement opportunities are both needed to ensure breadth & depth of input
- Collective empathy-building, promoting belonging and “all teach, all learn” culture provide benefit
- Logistical supports to facilitate engagement are critical (timing, level-setting, plain language, etc.)



Acknowledgments

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UCSF

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ESC Demonstration Sites

- Childkind, Inc.
- University of Florida
- University of Montana
- University of Texas at Austin
- University of Texas Health Science Center of San Antonio