Living in Data, Together



Connecting people with chronic illness and their companions in dyadic relationship through health data sharing.

Second, health unfolds over time. Families navigate chronic

straight line—families move back and forth as circumstances

change. Health Changes Over Time, Shouldn't Data Sharing

Sharing Approach

During stable periods,

families shared health

information lightly and

conditions as a journey with four phases, each requiring different levels of attention and involvement. These phases don't follow a

Key Findings

Health as a Shared Journey: How Families Navigate Health Data Together

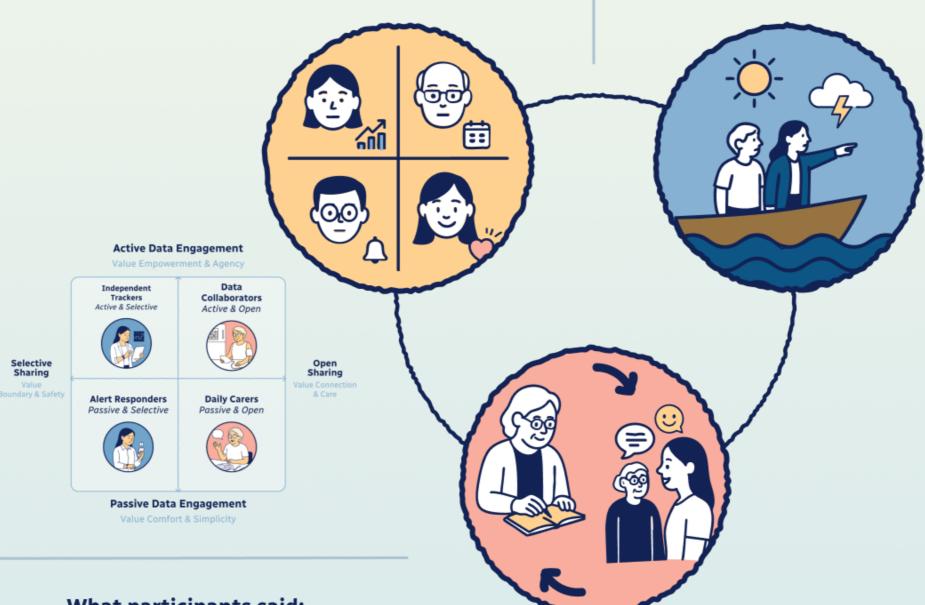
Three Perspectives on Family Health Data Sharing



The People On Board

Not Everyone Shares the Same Way (And That's Okay)

Health phases change, placing families in the same boat to navigate different situations together. We found that health data sharing is shaped by two key dimensions: data intimacy (open vs. selective) and data engagement (active vs. passive). When these intersect, they create four distinct sharing patterns that describe different family behaviors. These patterns aren't fixed—families continuously adapt their health data sharing practices to changing health situations and life transitions.



2

Riding the Waves

Health Situations
Shape What and
How Families
Need to Share



Observation tools and gentle alerts to help notice patterns and decide when attention is needed

Interaction Preferences

& Tool Examples

When concerning

changes emerged,

and prepared for potential support

needs

families became more

attentive to early signs

Phase 3: Critical Events
Stormy Sea

families wanted intensive coordination with frequent checkins and detailed sharing

Progress updates, treatment plans, care guides, and emergency information sharing

Phase 4: Recovery & Reflection Calm Water



Adapt Too?

Health Phase

Phase 1: Normal

Routine Stable Sea

After health events, families looked back to identify causes and compare before/after Reflection tools and event logging to detect patterns and prevent future issues



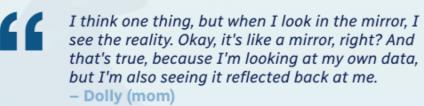
The Cabin & Shared Deck

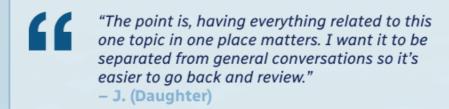
Lived Experiences Alongside with Numbers: From Personal Reflection to Shared Health Data

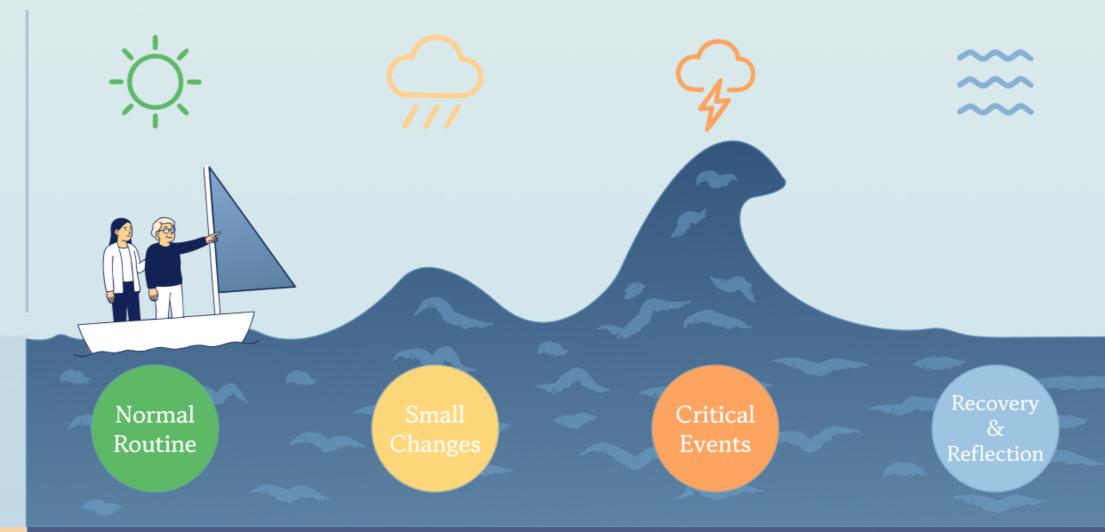
Third, health data becomes meaningful by bringing personal reflection from private spaces into shared spaces. Sharing health data isn't about perfect tracking—it's about sustaining ongoing conversations and mutual understanding that evolves with long-term relationships and chronic health conditions.

What participants said:









How Might We Design For Relational Use in Health Data?

Pillar 1: Designing with Relationships





Pillar 3: Designing with Lived Experiences & Shared Memories Behind Numbers

Pillar 2: Designing with Changing Health Situations





Reflect Imagine

These three perspectives revealed key design implications, leading to eleven principles organized under three pillars for relational use in health data design.

Use them as lenses for reflection—consider your experiences with current digital health tools, then imagine how we might share data differently with relationships in mind.

While grounded in Thai adult-child pairs managing metabolic conditions, these principles have potential for broader application across different cultural settings and close relationships.

Approach & Methodology

This work builds on the philosophies of data humanism (Lupi, 2017) and data intimacy. **Data humanism** challenges the idea that data is neutral or universal, exploring instead how health data becomes meaningful through the relationships and contexts families create together. For this project, **data intimacy** means a sense of closeness that emerges when personal data is shared with intention and trust, with potential to support family members to connect, understand, and care for one another.

This research explores **how Thai adult-child pairs** (n=8) **managing metabolic condition**s like *diabetes, high blood pressure, and high cholesterol* share health data and how they could share it better. Working with adult children and their parents through **participatory design sessions with context mapping methods,** we looked at how they currently share health data and co-designed possible ways to share health data with each other across the changing phases of chronic care.

Particpatory Design Activities within Two Cycles



data sensitizing data sharing activities conversations

co-creation sessions on health data sharing futures





Explore

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Living in Data, Together:
13 August 2025
Design for Interaction, Medi

Committee

Dr. ir. Jacky Bourgeois (Chair)
Dr. ir. Marieke Sonneveld (Mentor)



feedback &

co-reflection