

BACKGROUND

The Patient Engagement Core (PEC) uses interactive design research methods to help participants draw on their lived experiences to explore study issues and envision solutions. The team joined with Kenneth Levy, PhD, MD to improve recruitment and assess study acceptability for A Prospective Randomized Trial to Assess Cost and Clinical Outcomes of a Clinical Pharmacogenomic Program at Eskenazi Hospital (David A. Flockhart, PhD, MD & Paul Dexter, MD).

METHODS

The PEC facilitated an informal group discussion guided by generative, interactive design research activities that focused on the specific objectives identified with the study team. There were ten participants who were regular users of the health care system and were recruited by the ResNet team led by Jane French. The activities were as follows:

NOTECARD PROMPT

Write on an anonymous notecard what you think genetics and pharmacogenetics are.

TELEPHONE

Explain to the person next to you what you think is going on in this image. Explain pharmacogenetics



SIMILES

Explain pharmacogenetics using a simile.

RISKS AND BENEFITS

What would concern you about this study? What would interest you? Which is the most important concern and interest for you personally?

ANALYSIS

The content generated during the session was grouped thematically to identify key barriers to recruitment that could be addressed within the very short recruitment window available.

KEY INSIGHTS

- pharmaceutical, and genetics
- your blood
- the store.
- for pain
- the government (Biobank)

DISCUSSION

Through design research methods, the PEC worked with patients to co-design a tool to help research assistants recruit and a take-home brochure to help patients understand the study and the Biobank. The PEC's methods aim to establish a relationship between researchers and patients in which all are valued and respected, positions are well-articulated, needs are clear, and expectations are established.

ACKNOWLEDGMENTS

Dr. Kenneth Levy and his research team | Jane French and the ResNet team | Our awesome session participants

COMMUNITY HEALTH ENGAGEMENT PROGRAM'S PATIENT ENGAGEMENT CORE FRAMING PHARMACOGENETICS FROM A PATIENT PERSPECTIVE Sarah Wiehe | Courtney Moore | Dustin Lynch | Gina Claxton

• Participants showed a low baseline knowledge of pharmacogenetics and pieced together initial definitions using similar words they already knew like *pharmacy*,

• Participants described pharmacogentics as a form of **personalization** using phrases like *personal genetic makeup*, what's right for you, what medicine is best for you, and testing

• Participants were able to use everyday concepts to create similes that explained pharmacogenetics: If you go to pick out an outfit and don't try on the clothes and just guess, it might not fit. So you'll just have to go right back to

• Participants were curious about how they and their doctors could use pharmacogenetics for their care, particularly in avoiding medication side effects and getting the benefits of proper medication more quickly

• Participants were somewhat concerned about the **procedure**, specifically fear of needles and the potential

• Participants were very concerned about future use of data by others, especially entities perceived to be part of

DELIVERABLES

Research assistant tool



FRONT | Tool for research assistants to show patients study process

Patient brochure





Introduction

/our DNA is like a how-to book that tells your bo now to work. It even tells your body how to use medicines. We are looking for people to be in a stud DNA will help you find a medicine that works we with less problems. Using your DNA to help pic medicines for you is called Pharmacogenetics

Pharmacogenetics is kind of like...



..being able to try on clothes before you buv them instead of crossing your fingers and hoping they fit.

...knowing which bait is best for the fish you want to catch instead of trying bait

after bait before you find the right one.

Here's how the study works:

You will get a little bit of blood drawn.

Some of this will go to the Indiana Biobank.

The rest will go to a lab and your DNA will be read. Just like how your DNA controls your eye color, it also controls how your body works with medicines. The lab will look for clues that show how your body works with medicines.

The clues from your DNA will be added to your electronic medical record.

Your doctor can look at the clues in your $\langle \bullet \rangle$ electronic medical record to help pick what medicine is best to give you.

Common auestion

THE STUDY Nho funds this

NDIANA BIOBANK Who funds this?

Health and other groups. Who can use my information?

to me about my DNA?

for researchers to use?



- The National Institutes of Health (This is ederal money. It's paid for by your taxes
- could help find out if DNA information an help doctors make better choices for patients so they will have less problem caused by medicines.
- The Biobank is part of the Indiana Clinica which is funded by the National Institutes of
- Researchers who are trying to learn about how to help people stay healthy. Your name will not be seen by any researchers who see vour health information.
- Will any of the researchers call me and talk None of the researchers will call you. They won't be able to because they won't know who's health information they are seeing.
- How long would the Biobank keep my DNA Forever, unless you call and tell them you don't want them to keep it anymore.



K BACK

Includes key information for research assistants framed by patient input:

- similes from session that explain pharmacogenetics
- patient-friendly breakdown of study procedures
- answers to most frequent questions asked in session

"For me it all goes back" to understanding and knowledge and knowing the process [before trusting researchers with my blood]."

- SESSION PARTICIPANT