PENDOMONIUM 2023

Creating a Research Insights Engine

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*The views expressed in this presentation are based on experience, for information only and do not constitute an endorsement of Pendo's views, products or services.





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Our dedication to transforming lives starts here

In the past year, Medtronic therapies improved the lives of 76 million+ people. That's **two people every second** of every hour of every day – and counting.

Engineering the extraordinary

150+

80 manufacturing sites

239 clinical trials last year

12.9K+ scientists and engineers

95K+ employees

38 labs and research development sites

\$2.7B in R&D investments last year

49,967

active patent matters



Beyond products: Integrated health solutions (IHS)

We partner with hospital management and medical leaders to transform care pathways and clinical operations, with a shared goal of:

- Improving efficiency and outcomes
- Increasing patient and staff satisfaction
- Optimizing cost

With our extensive experience across and within regions, we provide proven and highly effective solutions that can be quickly tailored to providers' specific needs and generate value now – and for the future.

Positive impact on complex and challenging conditions

70+

2

conditions in the human body treated with our therapies

people every second have their lives improved – and counting

Public-private partnerships

Increasing patient access in multiple communities aligns with the core of our Mission. These publicprivate partnerships – with outcome-oriented business models – create mutual benefits by making the most of Medtronic skills, expertise, and assets through the appropriate transfer of risk. They drive our globalization strategy and actively contribute to the international push for universal health coverage. With jointly defined objectives, they address health system challenges efficiently by increasing access to therapy innovation, raising quality, and delivering improved outcomes.



Learn more at Medtronic.com

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Agenda

- Our Process
- Problems = Opportunities
- Creating an Insights Engine
- Results



How We Work – Continuous Learning

To drive continuous innovation, we must have a constant connection and access with our end-users.



What does that look like?



Discovery Interviews Prototype Testing

esting 🔴 Consulting

On-boarding Dev

Results & Deliverables

Quantitative

Tells us what is **happening**Tests hypothesis
Helps direct qualitative





Asks '**why**'? **Formulate** hypothesis Make changes & retest with **quantitative**

Qualitative

PERSONA TRENDS





Immersed in Tech

- Understand how phone works and use apps daily
- High self-rating on comfort
 with technology
- Own wearable technology like
 FitBit, Kardia, Apple Watch
- Use other smart devices like blood pressure devices, scales, and CPAP machines
- Spend considerable time reading and researching daily, leveraging various devices (iPhone, tablet, laptop, etc).
- Background in IT or education

Data Driven

- Preference for no visual clutter and limited number of different colors
- Desire for information to
 be made clear and obvious
- Need to see information to understand it
- Use of iconography, charts, and graphs helps them
- Progressive disclosure of information helps cognitive load
- Appreciation for questions that are easy to answer, "don't make me think too hard"



Health Conscious

- Currently lead very
 active lifestyles and keep
 close eye on their activity
- Interested in clinical research because of its potential to improve health
- More interested or willing to participate if approached by physician or Medtronic
- Accustomed to medical terminology, self-proclaimed as more knowledgeable than the "common/average person"
- Background in medical field or active profession

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Motivated to Help

- Highly internally motivated: "This would be a good part of taking care of myself"
- React better to positive reinforcement in comparison to negative reinforcement
 - Answering survey questions will help them understand their condition better and help others too
- Motivated to help people; "seeking an opportunity to give back"

Problem = Opportunity

Having a continuous **feedback loop** requires a directory that is constantly being added to and have fresh data.









Amplify speed and quality of insights to enable more customer and patient-focused decision-making.

Diversity of Use-Cases



Paid / unpaid research

In-person or remote

Surveys of Interviews

Patients or Healthcare Providers



Creating a Continuous Feedback Loop

The Solution

Implement a **research recruitment & scheduling process** to minimize the need for third-party recruiters.



Key Objectives



As compared to third-party recruiters, we set out to:

- 1. Improve participant quality
- 2. Reduce time to recruit
- 3. Reduce cost of research

Improve Quality

Design a solution that enables...

- Participant Recruitment
- Diverse Sampling
- Participant Profiling
- Participant Screening



Participant Recruitment

Use Pendo guides to prompt patients to sign up for Medtronic's research panel!

~100 patients sign up monthly!



Shape the next generation of Medtronic products!

Join the Medtronic market research interest group to provide feedback that will help make products to better suit your needs.

Once you sign up, the Medtronic team may reach out for your feedback when research studies are available that match your profile. Many research study participants are eligible for compensation.

gn up here

Participant Profiling

Design for Commonalities ...

- Research Objectives
- Research Design
 - Inclusion Criteria
 - Exclusion Criteria

Consider ...

Feasibility & Compliance

Reduce Time

In-house research panel enabled us to integrate & automate:

- Informed Consent
- Participant Scheduling

Time to schedule went from 1–3 months to 3-7 days!



Reducing Cost

Saving ~\$16k/month... and growing!



Eliminated Reliance on Third-Party Recruiters (US Research)

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