

STORM

Clinical Decision Support Toolkit

Fall 2015 Research Presentation

Presentation Outline

- 1 Introduction
- 2 Secondary Research
- 3 Primary Research
- 4 Insights
- 5 Next Steps
- 6 Activities

Introduction

Design Team



Xi Wang

Lead/Visiting
Scholar



Kyle Cypher

Graphic
Communication
Design Co-op



Samantha Audet

Interior Design
Co-op



Yuxin Meng

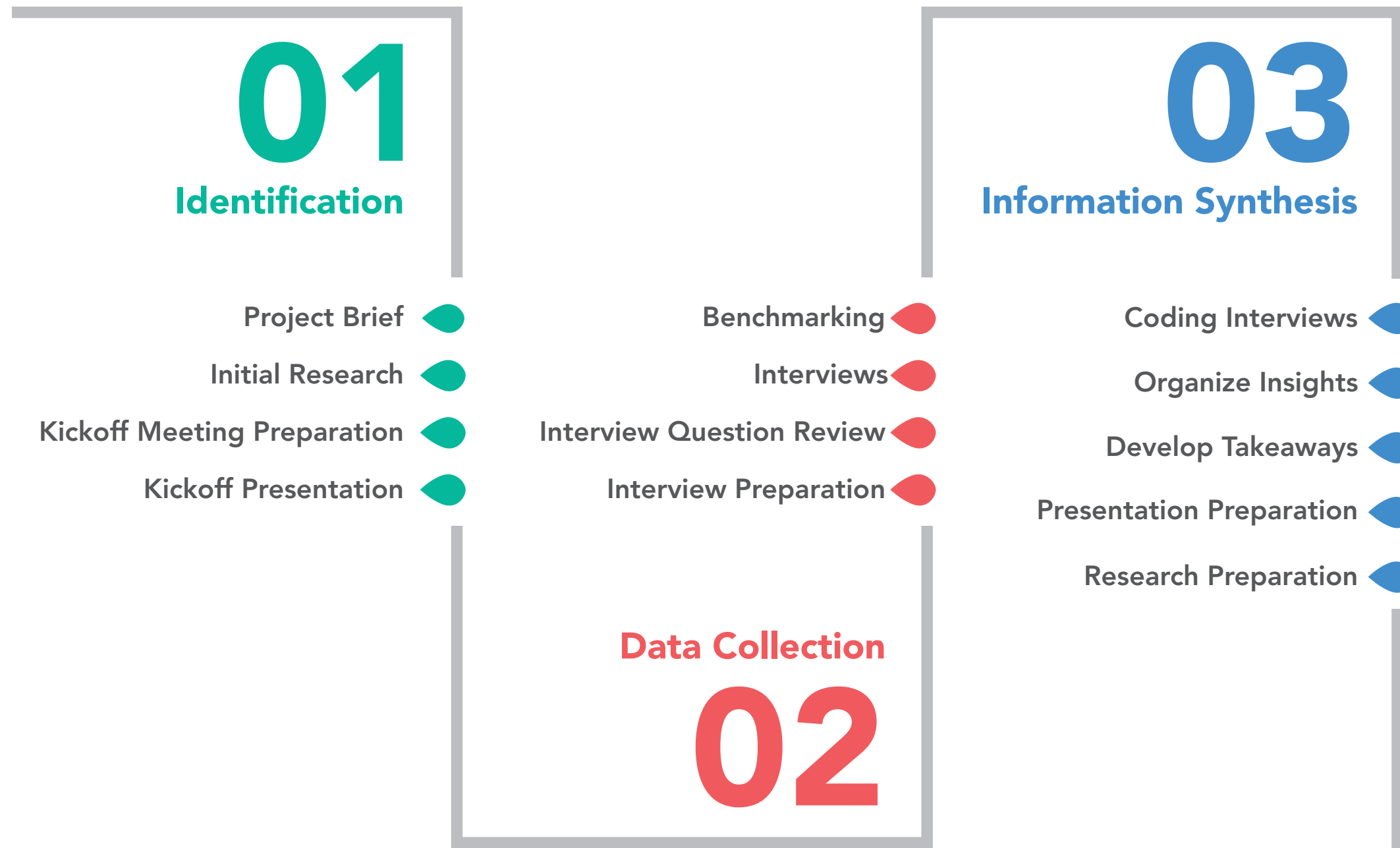
Design
Graduate
Student



Tommy Teng

Design
Graduate
Student

Research Process



Identifying the Problem

Provider Education

The most available tool for learning about the process of treating with hydroxyurea is the NHLBI guidelines. Unfortunately, hydroxyurea is underutilized in the pediatric and adult population.

Providers that do not treat many SCD patients would benefit from a clinical decision support tool that disseminates the guidelines in a media that is easily viewed and in a favorable format.



Guidelines

Hydroxyurea

Learning
Tools

Secondary Research

Literature Review

Communication	Age related
<div>HU SCD</div> <div><ul style="list-style-type: none">> The Association of Provider Communication with Trust among Adults with Sickle Cell Disease.> The management of SCD</div>	<div>SCD</div> <div><ul style="list-style-type: none">> Sickle-cell-disease-report> The management of SCD> Young Adults with SCD in US Children's Hospital</div>
<div>HU SCD Guideline s</div> <div><ul style="list-style-type: none">> The Association of Provider Communication with Trust among Adults with Sickle Cell Disease.> The management of SCD</div>	<div>HU Guideline s</div> <div><ul style="list-style-type: none">> Young Adults with SCD in US Children's Hospital</div>
Trust	Benefits + Potential side effects

Benchmarking

Personal

- Seminars
- Classes
- Meetings

Paper

- Brochures
- Journals
- Case Studies

Digital

- Websites
- Webinars
- Apps

Media

- Videos
- Podcasts

Benchmarking

Personal



Meeting



Seminars



Lectures



Workshops



Conferences

Pros: Reliable, direct communication.

Cons: Limited location and time.

Benchmarking

Paper



Journal



Books



Pamphlets

Pros: Easy to send out. Professional and reliable.

Cons: Easy to lose, limited information.

Benchmarking

Digital



Website



Webinar



App

Pros: Easy to access, more information.

Cons: Not as professional, can feel unreliable.

Benchmarking

Media



Podcast



Video

Pros: Can easily subscribe, provides live feed.

Cons: Can be distracting to others, a device is needed to apply.

Primary Research

Interviews

21
Interviews

5
Pediatricians
Primary Care

15
Specialists

1
National
Expert

- Camille Graham
- Bradley Jackson
- Dr. Santiago
- Suzette Oyeku
- Annette Lavender

- Charles Quinn
- Peggy Kaiser
- Jane Little
- Hyon Kim
- Kay Saving
- Stephen Nelson
- Julie Panepinto

- Punam Malik
- Payal Desai
- Patrick McGann
- Karen Kalinyak
- Bev Schaefer
- Valarie Cachat
- Brandon Hardesty
- Prasad Bodas

- Edward Donnell Ivy

Interview Questions

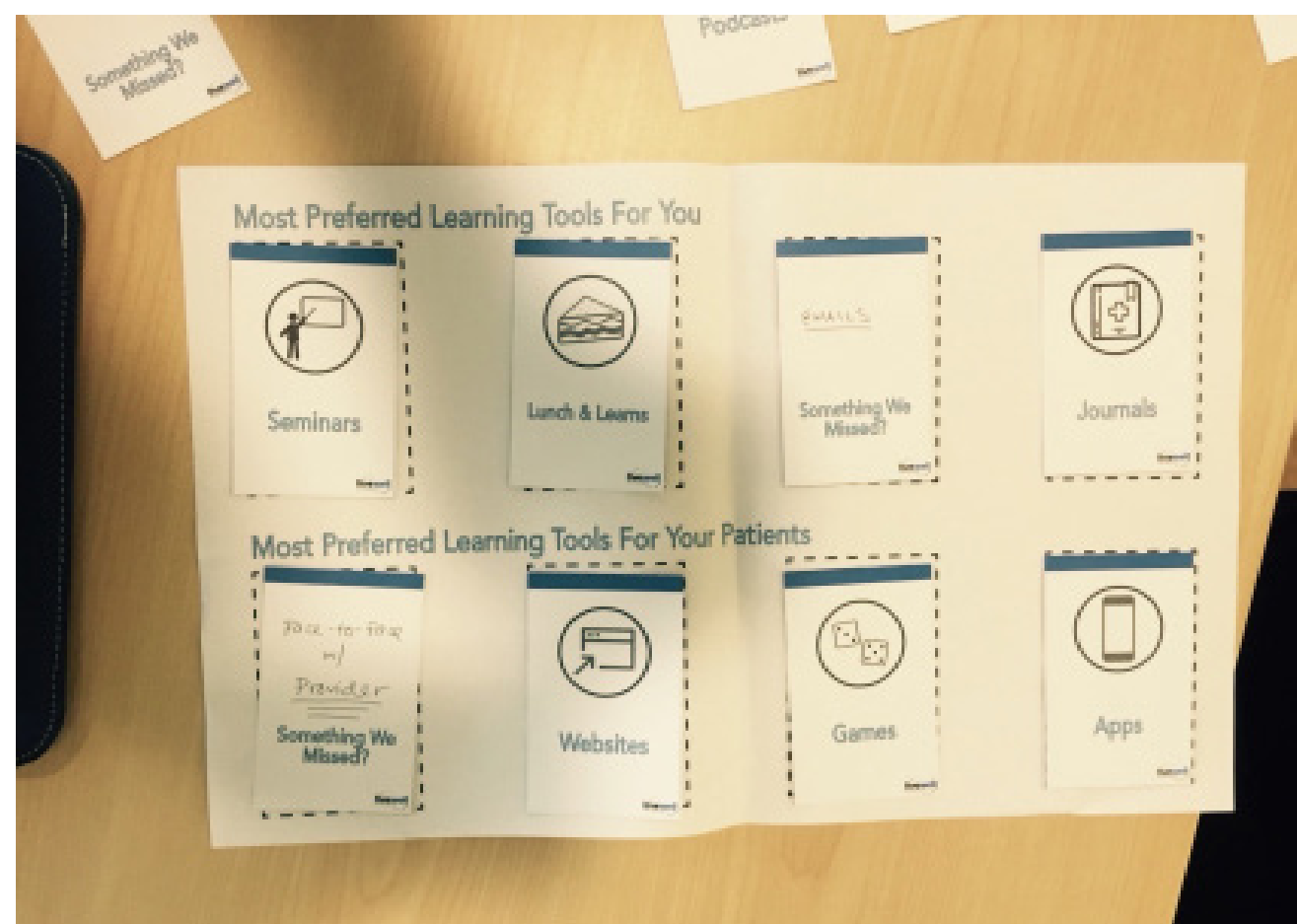


Interview Activity

Education Preferences

Provider Preferences

Patient Preferences



Provider Preferences

Patient Preferences

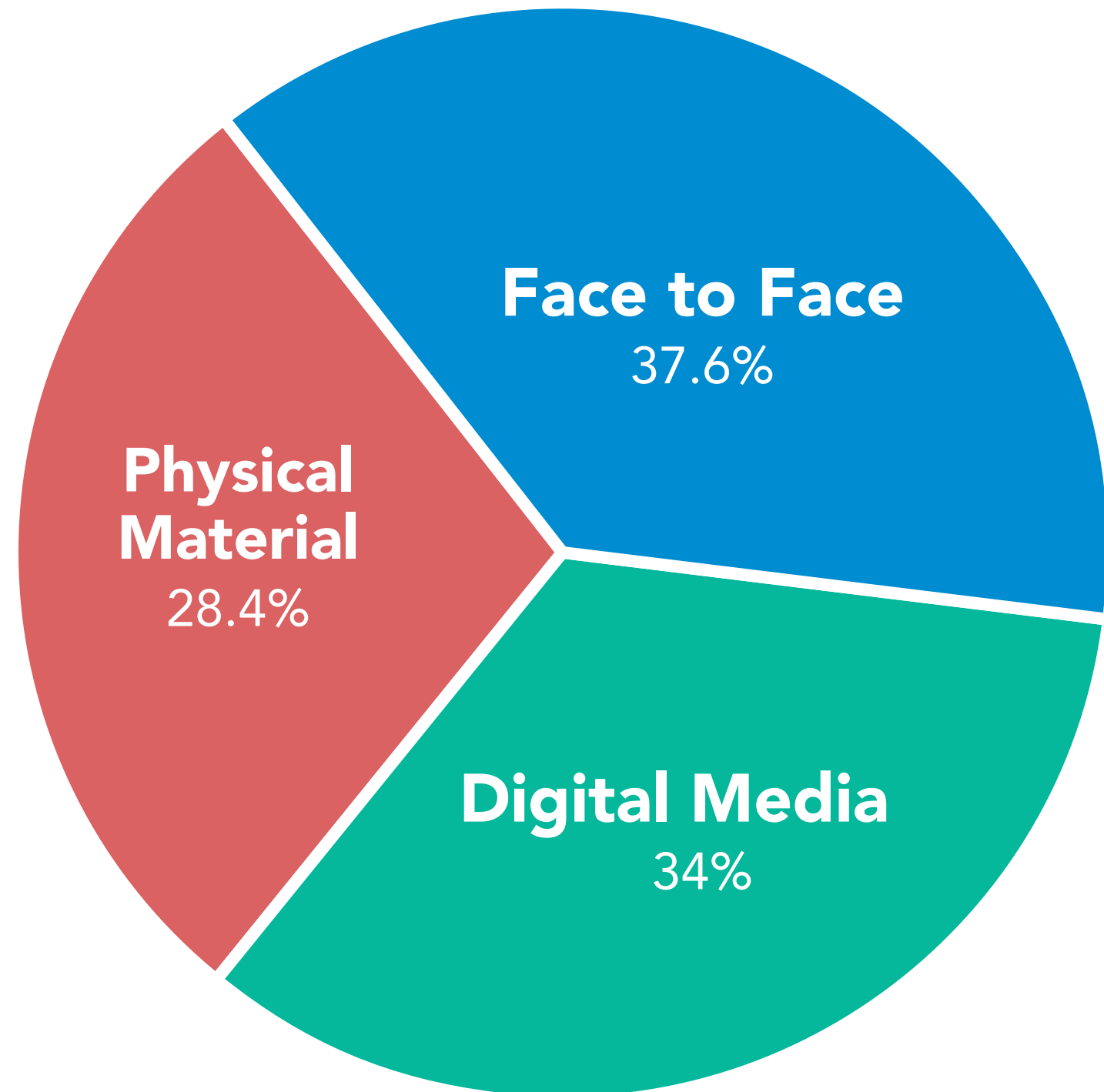
Brochures	Seminars	Apps	Books
Videos	Games	Emails	Webinars
Podcasts	Lunch & Learns	Journals	Classes
Websites	Other	Chat Rooms	Case Studies
1	2	3	4
1	2	3	4

Data Analysis

Provider Preferences

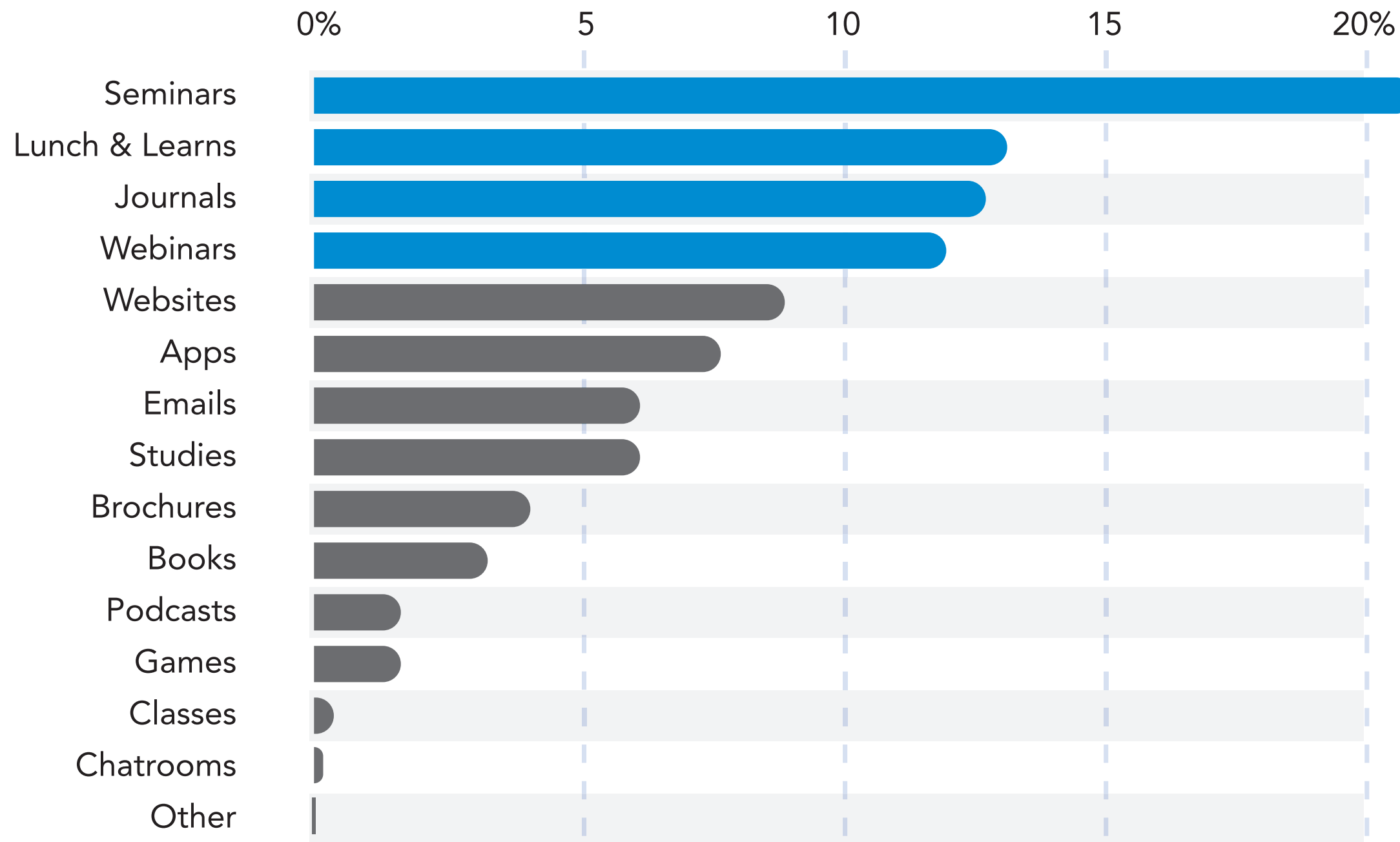
The data was gathered, analyzed and placed into three categories: Face to Face, Physical Materials, and Digital Media. The pie chart shows what types were preferred.

Although they are relatively similar, Face to Face is most preferred according to the data, followed by Digital Media and Physical Materials.



Data Analysis

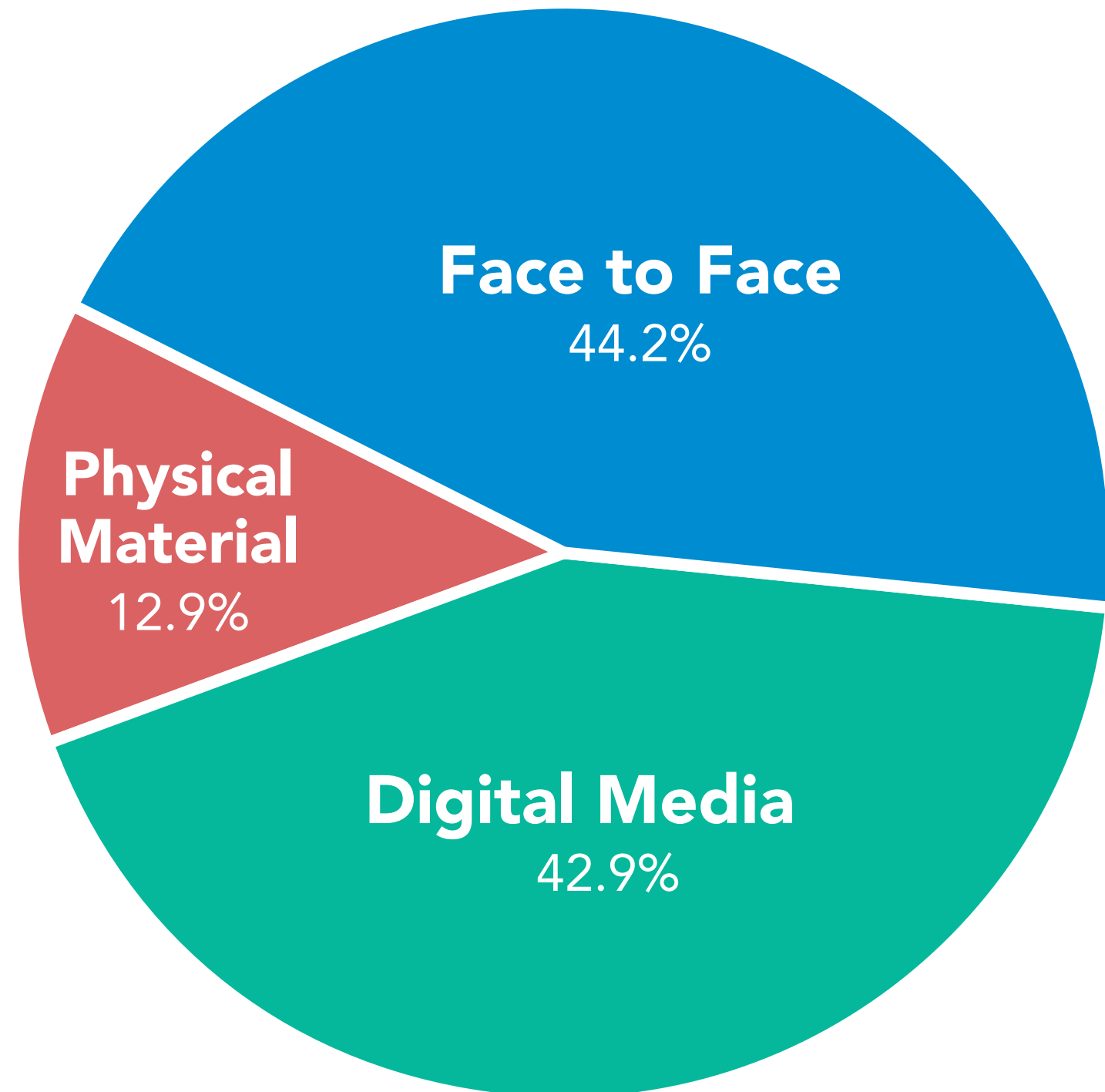
Provider Preferences



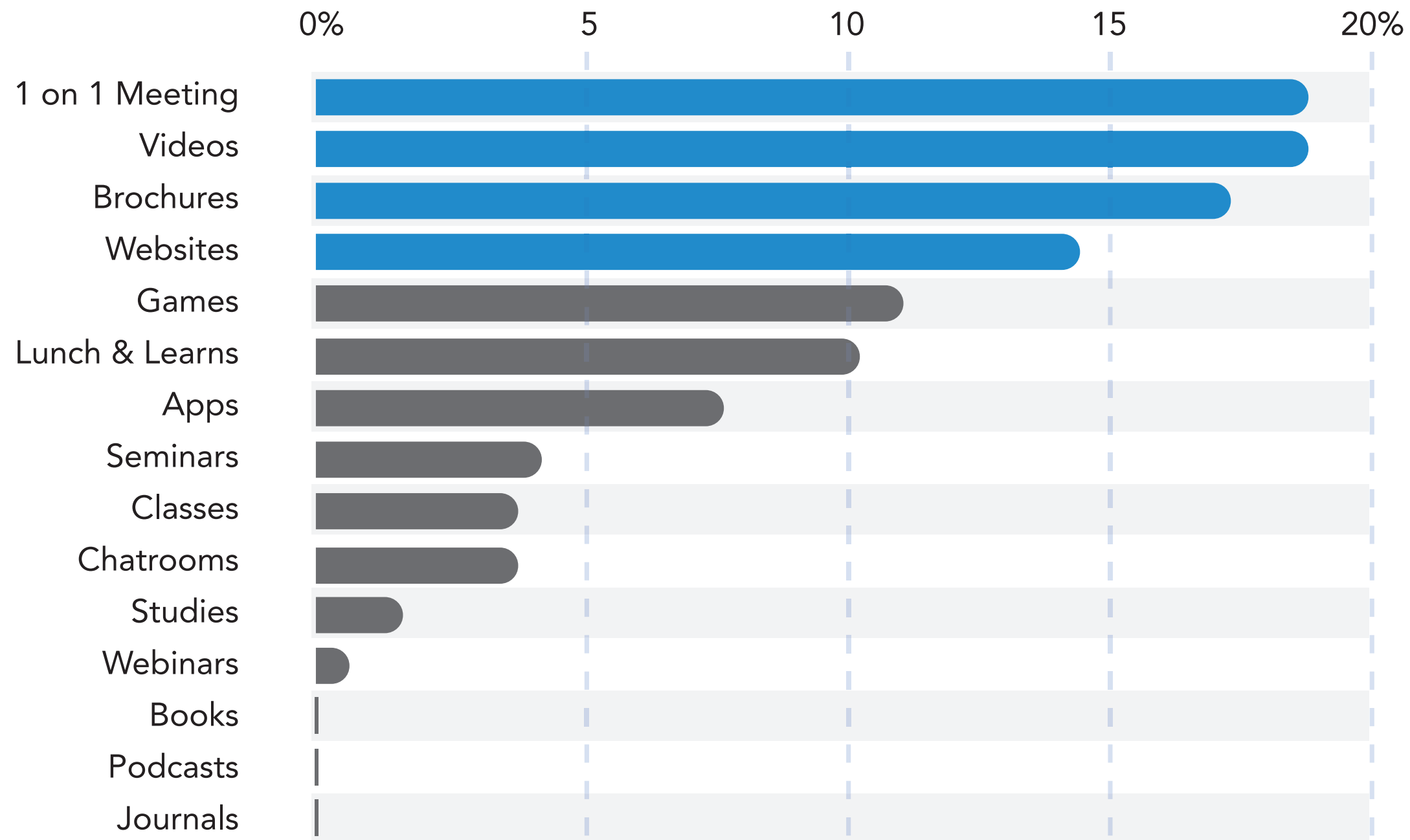
Data Analysis

Patient Preferences

With patients, Face to Face is most preferred followed by Digital Media. Physical Material seemed to be much less preferred as a means to provide data to patients



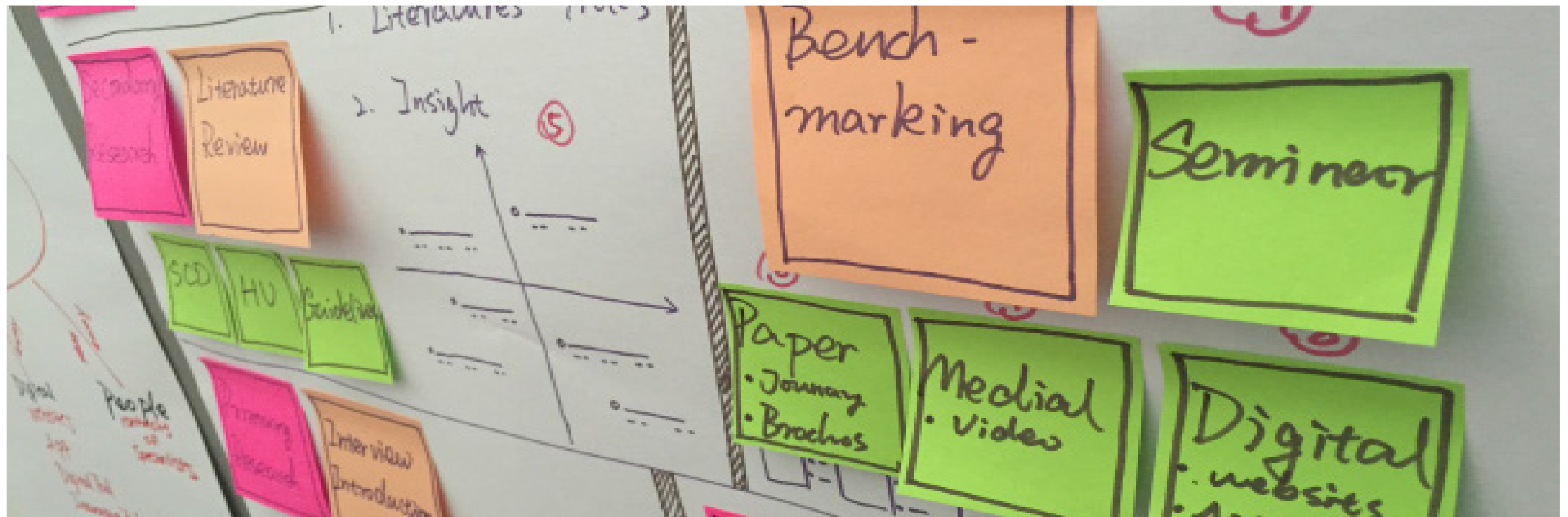
Data Analysis Patient Preferences



Insights

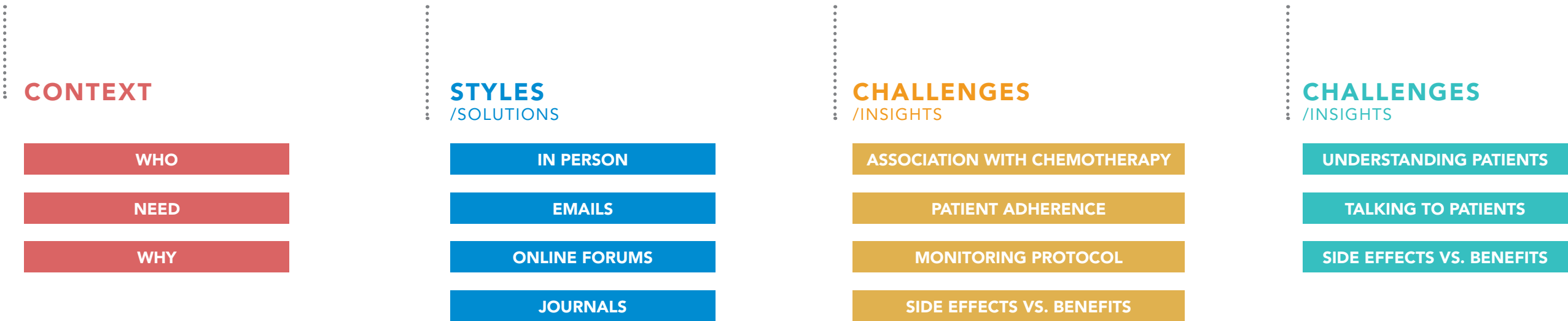
Synthesize Data

With the data from interviews and secondary research, the team created insights using mapping tools.



Insights

PROVIDERS **LEARNING** PREFERENCES AROUND **HYDROXYUREA** AND THE **NHLBI GUIDELINES**



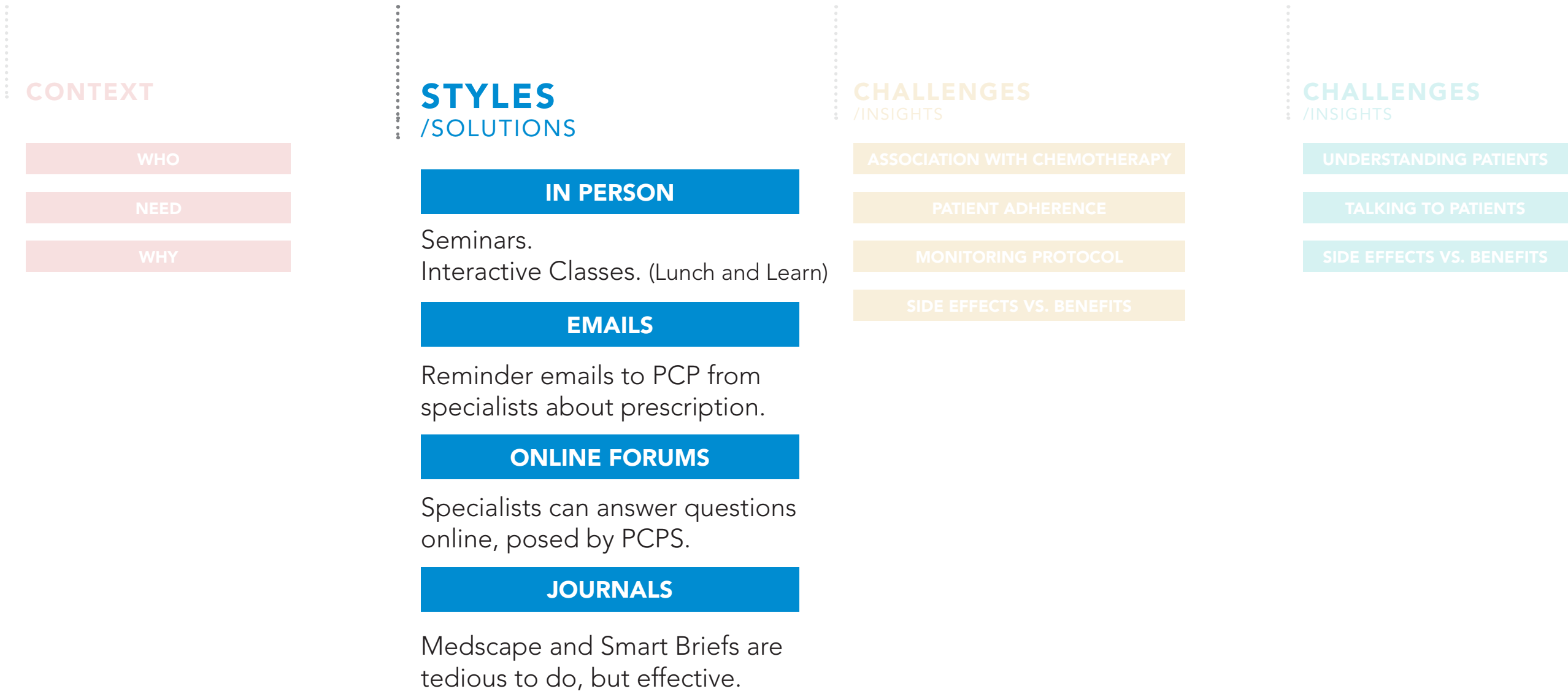
Insights

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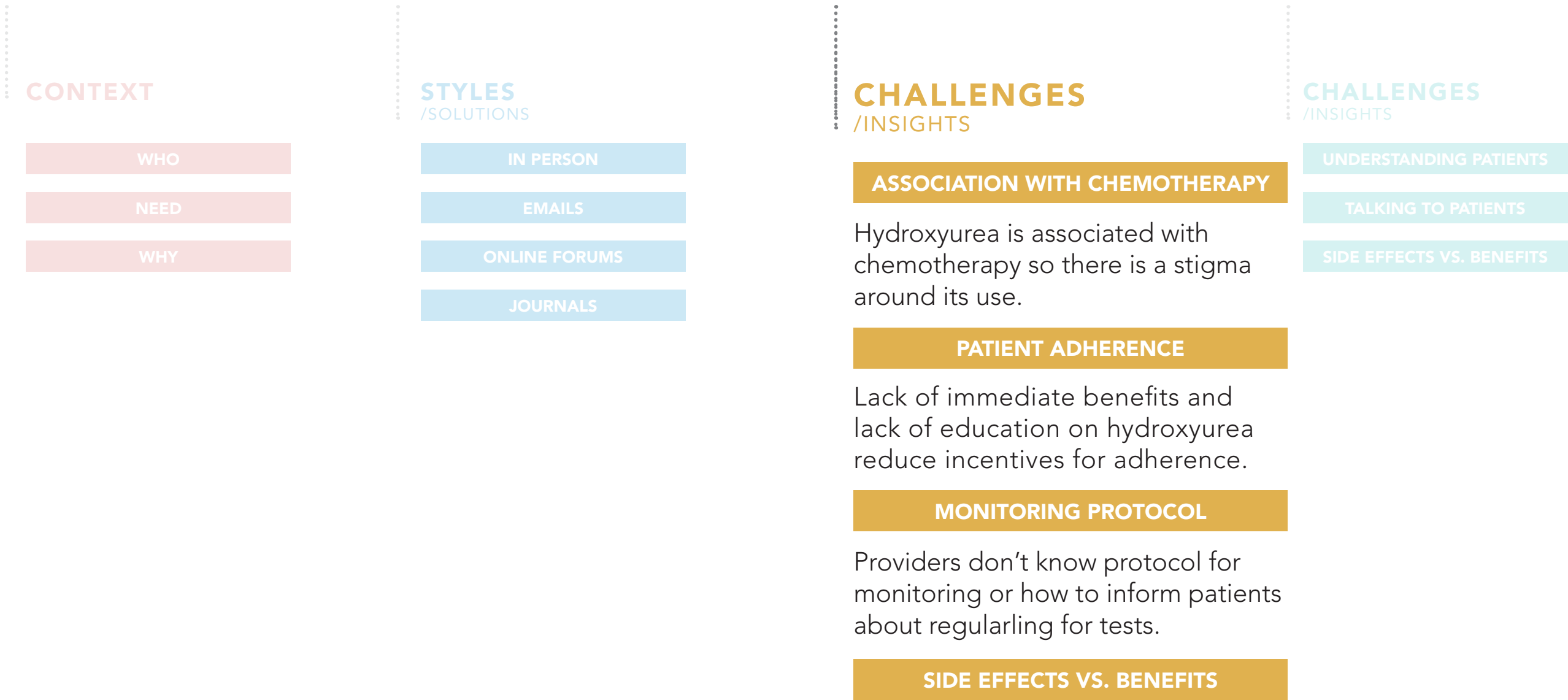
Insights

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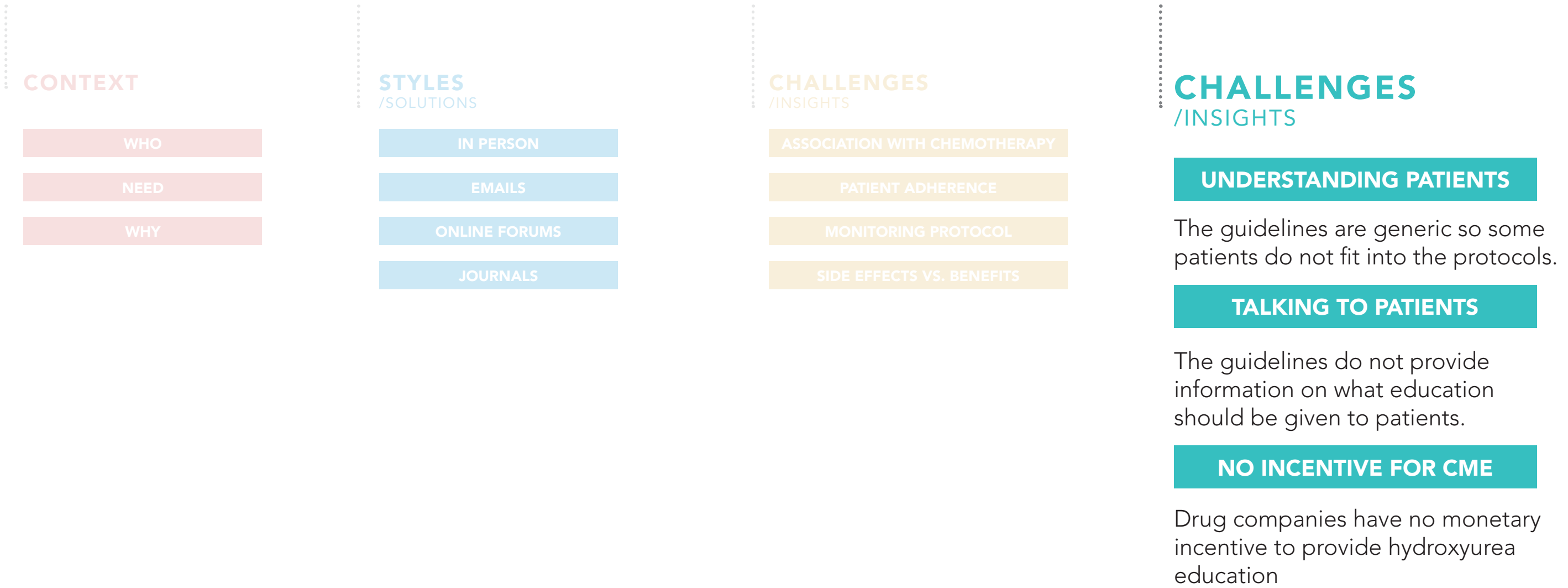
Insights

PROVIDERS **LEARNING** PREFERENCES AROUND **HYDROXYUREA** AND THE **NHLBI GUIDELINES**



Insights

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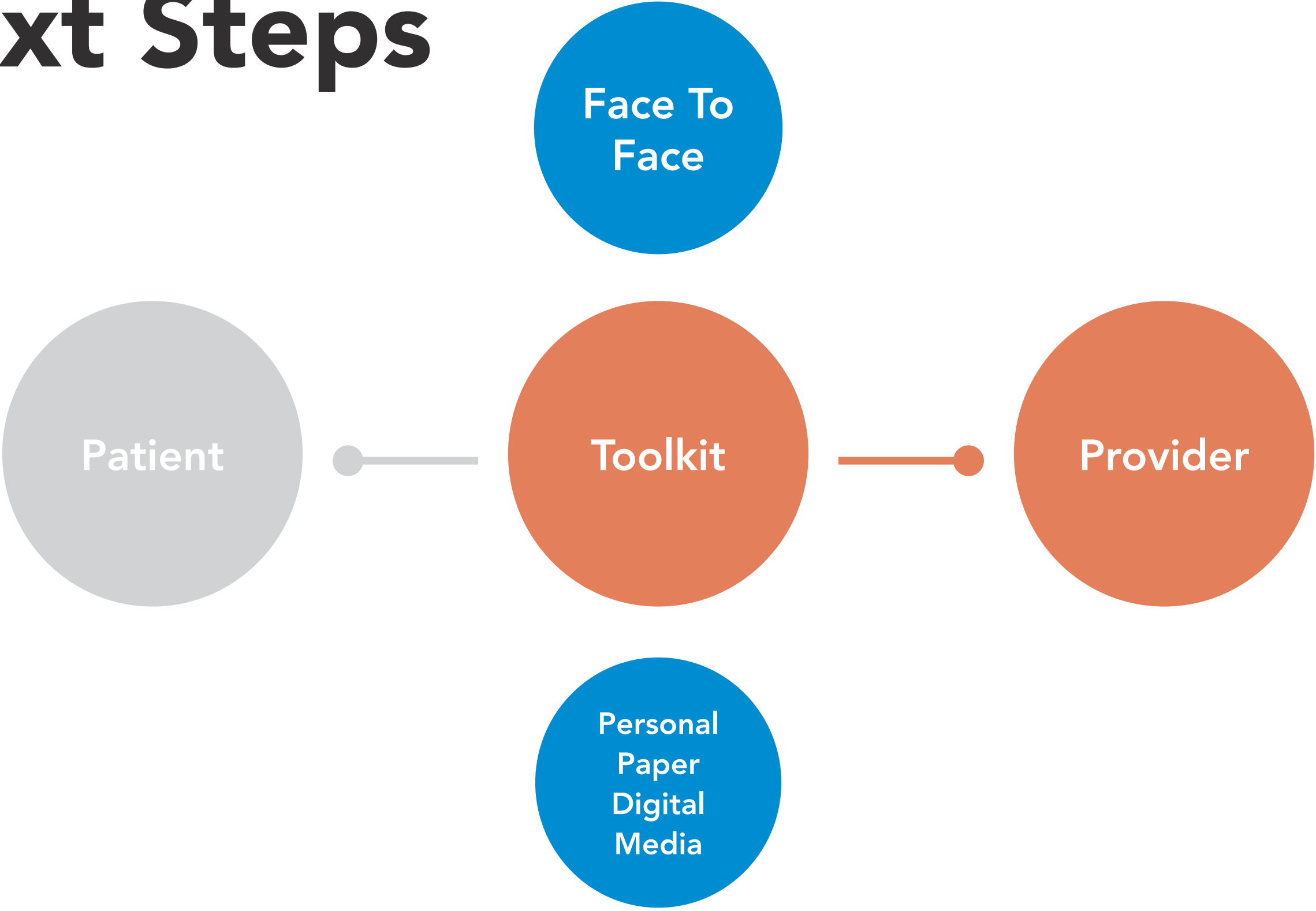


Next Steps

Next Steps



Next Steps



Activity

	Idea 1				Idea 1	
Idea 4	Physical	Idea 3		Idea 4	Web-based	Idea 3
	Idea 2		Idea 1		Idea 2	
		Idea 4	Face to Face	Idea 3		
	Idea 1		Idea 2		Idea 1	
Idea 4	People	Idea 3		Idea 4	Other	Idea 3
	Idea 2				Idea 2	