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The development of a patient and caregiver narrative archive to support patient-centered research

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Abstract

Background: Engaging patients and other stakeholders is a key tenet of patient-centered research, but can be challenging to implement.

Objectives: To determine the feasibility of using patient narratives for informing comparative effectiveness research and engaging patients in the research process.

Research Design: Cross-sectional study.

Participants: The first 153 participants to share a story using the MyPaTH Story Booth protocol were, on average, aged 51 (18.8). Most were white (79%) or African American (13%) and well-educated.

Measures: Participants self-categorized their narratives according to the sort of health experience(s) described (e.g., diagnosis, doctor/patient communication), the anatomic locations of health problems discussed and the type of disorder or condition addressed. They also reported on whether they were interested in engaging in clinical research as a participant or stakeholder and their satisfaction with the study processes.

Results: The archived narratives addressed a wide range of health experiences of relevance to clinical researchers, most often medical treatment (82%), communication with healthcare team members (81%), diagnosis (64%), symptoms (61%), healthcare access (60%) and health decision-making (60%). Health problems related to diverse anatomic locations were addressed. Health conditions such as mental health concerns (35%), infections (23%) and cancers (20%) were often discussed. Among participants, 63% expressed interest in learning of opportunities for stakeholder engagement in research related to their stories. Ninety seven percent were very satisfied or satisfied with the MyPaTH Story Booth process.

Conclusions: The narrative archive represents a unique resource for researchers interested in developing and carrying out patient-centered research projects to improve health or healthcare.

Keywords

Narratives, patient-centered outcomes research, person-centered healthcare, stakeholder engagement

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Introduction

Engaging patients and other healthcare stakeholders in all aspects of the research process is a key tenet of patientcentered research [1,2]. Stakeholder input can inform the development of relevant research questions, methods and outcomes [1,3]. Early involvement of stakeholders holds particular promise for fostering research that addresses topics of relevance to patients and healthcare systems [4] and so may lead to improvements in healthcare delivery. Yet, at the time research is planned, it remains challenging for researchers to engage patients, as funding mechanisms and the culture of academic medicine often lack support for engagement activities [3,5]. The challenge is even greater for researchers who work in non-clinical settings, since they may not have routine exposure to patient or caregiver perspectives. Furthermore, patients or caregivers who lack technical training in patient-centered outcomes research (PCOR) may find it difficult to formulate technical research questions and communicate with researchers.

The goal of using patient stories to support patient-centered research is consistent with the literature which shows that patient stories can contribute to patient-centered care [6]. Narratives can convey complex technical and contextual knowledge to inform better health decision-making and help patients make sense of illness, while eliciting empathy and compassion [7-10]. Patient stories have supported self-management efforts [11,12] and health-related behavior change [13]. Narratives have likewise informed projects to improve the quality of care [14,15], educate medical students about what it is like to live with illness [16] and share successful coping strategies for dealing with a health problem [17].

Insight into the experience of illness or seeking healthcare could be invaluable for identifying quality gaps in healthcare delivery or planning for improving processes of care. For example, one study found that patient stories can be categorized as factual (e.g., describing symptoms or the process of diagnosis or treatment), emotional (individuals' reactions to their health experiences) or moral (how people want to be perceived or feel they ought to be perceived) [10]. Another study that used narratives to understand the experience of cancer care found that patient stories addressed accountability (maintaining personal accountability or wanting others to take responsibility on their behalf), personal identity and life context (e.g., making sense of all that had happened) [14]. In addition, patient stories typically employed a non-linear construct of time and highlighted the importance of language - either in terms of a need for simple, non-technical communication, or mastery of technical language as a source of control. Logic and emotion may co-exist in patient stories, more so than in stories told by clinicians [14].

To gain insight into the feasibility of using narratives to support PCOR, the PaTH Clinical Data Research Network (CDRN) [18], a member of the United States' National Patient-Centered Clinical Research Network (PCORnet), established an audio-archive of patient and caregiver stories. The project aims to help inform the development of

patient-centered research questions and facilitate the engagement of patients into the research process. Here, we report on the sample description, narrative categorization, interest in engaging in research and satisfaction data for the first 153 participants.

Methods

Adults aged 18 or above were invited to record a personal narrative about their experiences with health or illness. We used printed and internet-based advertisements to recruit from clinical and community venues and research registries. Participants were required to be able to read and understand English. Stories could address preventive health, dealing with illness, or experiences with healthcare or healthcare access. Patient or caregiver perspectives were welcomed.

Each narrative was elicited as a conversation with a friend, family member, or a member of the study's staff (based on participant preference). Consent was obtained electronically and data collection was completed over the telephone or in-person at a sound booth in the lobby of a medical building. This location was selected to be convenient for patients seeking routine medical care and accessible for those with mobility limitations. Interested individuals could schedule recording appointments ahead of time, or use "drop-in" hours to record a story without advance scheduling. Prior to story collection, a brief questionnaire assessed participants' demographics and determined whether participants were interested in hearing of research opportunities related to their story, either as a participant or an engaged stakeholder. research Respondents also reported preferences about potentially having their story posted online.

Participants were asked to limit their storytelling to 20 minutes and to avoid mentioning any identifying information. They were provided with a list of optional conversation prompts (i.e., potential interview questions) that they could use to direct the discussion towards topics of interest. Following the interview, participants were asked whether they approved the recording. If not, they were able to re-record. After approving a story, participants completed survey items to categorize the story's content in terms of the type of health experiences it described (e.g., finding out a diagnosis, communicating with health professionals, providing support for family members). In addition, the U.S. National Library of Medicine's categorization of health information topics for patients and their families (i.e., "body locations/systems" and "disorders and conditions") [19] were adapted for patients to identify the anatomic location of any health problems described in the story and whether the story addressed a health problem of relevance to multiple organ systems (e.g., cancer, infectious disease) or an issue that, while not a health problem, does impact health (e.g.,

If participants reported that their story was related to a topic addressed by a partnering PCORNet Patient Powered Research Network (PPRN), they were given options for learning more about that organization. Further survey items noted whether the story addressed their own health or their role as a caregiver, addressed satisfaction with the narrative recording process and provided an opportunity to suggest process improvements.

Research staff reviewed each story, using standard protocols to identify and obscure potentially identifying information (e.g., personal names, location, facility names, proprietary drug or device names). They also completed the same questions that participants had answered to categorize the story's content and viewpoint.

The PaTH Clinical Data Research Network patient partners provided input on whether to propose the narrative collection project and how to implement it. The project was approved by The PaTH Clinical Data Research Network Protocol Review Committee and the University of Pittsburgh Institutional Review Board (PRO15100466).

Results

Participants were, on average, 51 years of age and 65% were female (Table 1). Most (84%) had attended or graduated from college. The sample was predominantly white (79%) or African American (13%).

Table 1 Sample description (n= 153)

		Mean SD	Frequency (%)
Age		51	(18.8)
Sex			
	Male	53	(34.6)
	Female	100	(65.4)
Education	- a		
	8 th grade or less	0	(0)
	Some high school but did	3	(2)
	not graduate		()
	High school graduate or	21	(13.7)
	GED		(/
	Some college or 2-year	54	(35.3)
	degree	34	(22.2)
	College graduate	34	(22.2)
	More than a college	40	(26.1)
	degree Prefer not to answer	1	(0.7)
Race and	Tiefel flot to allswei	1	(0.7)
Ethnicity*			
Etimicity	Asian	3	(2)
	Black, African American,	3	(2)
	African or Afro-	20	(13.1)
	Caribbean	20	(13.1)
	Hispanic, Latino or		
	Spanish origin	8	(5.2)
	Middle Eastern/North		
	African	1	(0.7)
	Native American,		
	American Indian or	3	(2)
	Alaskan Native		()
	Native Hawaiian or Other	0	(0)
	Pacific Islander	0	(0)
	White	121	(79.1)
	Some other race or origin	1	(0.7)
	(please specify)	1	(0.7)
	Prefer not to answer	1	(0.7)
Perspective			
	Patient	125	(81.7)
	Caregiver	28	(18.3)

^{*}Participants could identify all relevant options

Table 2 Summary of recorded narratives' content, as identified by the story tellers

Type of healthcare experience(s)	т.	(0/)		
described*	Frequency (%)			
Being treated	125	(81.7)		
Communicating with doctors and nurses	124	(81.1)		
Finding out a diagnosis	98	(64.1)		
Experiencing symptoms	93	(60.8)		
Describing how easy or hard it has				
been for you to get the healthcare you need	91	(59.5)		
Making decisions about the right healthcare or treatment for you	91	(59.5)		
Getting tests or advice for how to be healthier	72	(47.1)		
Supporting family members who are sick	50	(32.7)		
Getting healthcare that is right for your cultural or religious beliefs	14	(9.2)		
Other	14	(9.2)		
Anatomic location of health problems in				
the narrative*				
Bones, joints and muscles	53	(34.6)		
Brain and nerves	53	(34.6)		
Blood, heart and circulation	36	(23.5)		
Immune system	35	(22.9)		
Lungs and breathing	31	(20.3)		
Endocrine System	26	(17)		
Female reproductive system	22	(14.4)		
Digestive system	19	(12.4)		
Kidneys and urinary system	17	(11.1)		
Eyes and vision	15	(9.8)		
Skin, hair and nails	12	(7.8)		
Ear, nose and throat	8	(5.2)		
Mouth and teeth	7	(4.6)		
Male reproductive system	6	(3.9)		
Other	26	(17)		
Broader health issues addressed*				
Mental Health	54	(35.3)		
Infections	35	(22.9)		
Cancers	31	(20.3)		
Diabetes	22	(14.4)		
Obesity	18	(11.8)		
Substance Abuse	13	(8.5)		
Genetics/Birth Defects	13	(8.5)		
Poisoning or toxins in the environment	8	(5.2)		
Pregnancy and Reproduction	11	(7.2)		
Injuries and Wounds	0	(0)		
None of the above	28	(18.3)		
*D : : : 11:1 ::C 11 1		(- 3.0)		

^{*}Participants could identify all relevant options

Self-identified story topics included a wide range of issues related to healthcare delivery (Table 2). Stories most often included a focus on treatment (82%), communication with healthcare team members (81%), diagnosis (64%), symptoms (61%), healthcare access (60%) and health decision-making (60%). Narratives addressed health problems related to diverse anatomic locations, particularly musculoskeletal (35%), cardiovascular or hematologic (35%), neurologic (35%), immunologic (23%) and pulmonary (20%) topics. Cross-cutting topics, not linked with a specific anatomic location, were quite common,

such as mental health concerns (35%), infections (23%) and cancer (20%).

Most participants provided permission for posting their story on the network's website (85%). Many participants were interested in becoming engaged in clinical research. For example, 69% reported that they would like to hear about opportunities to work with researchers on a research project related to their stories. Likewise, 63% expressed interest in specifically learning about opportunities to partner as a stakeholder in research related to their story.

Overall, 97% of participants were very satisfied or satisfied with the story collection process (Table 3). The experience of recording a narrative was described as easy or very easy by 86%, while 9% were neutral and 5% reported that it was difficult. Eighty four percent of participants were very likely or likely to tell a friend about the MyPaTH Story Book initiative.

Table 3 Participants' perception of the narrative collection process

Level of satisfaction with the MyPaTH Story Booth process	Frequency (%)			
Very satisfied	121	(79.1)		
Satisfied	27	(17.7)		
Neutral	4	(2.6)		
Slightly satisfied	1	(0.7)		
Not at all satisfied	0	(0)		
Description of the experience of recording a narrative				
Very easy	96	(62.8)		
Easy	35	(22.9)		
Neutral	14	(9.2)		
Difficult	8	(5.2)		
Very difficult	0	(0)		
Likelihood of telling a friend about the MyPaTH Story Booth story project				
Very likely	89	(58.2)		
Likely	40	(26.1)		
Neutral	18	(11.8)		
Somewhat unlikely	3	(2)		
Very unlikely	3	(2)		

Discussion

The MyPaTH Story Booth archive of patient narratives includes stories describing a wide range of healthcare experiences as well as diverse health problems. This range suggests that the audio archive represents a unique resource for researchers interested in formulating patient-centered research questions or carrying out stakeholder-engaged research that can lead to improvements in health or healthcare.

Our data indicate that a narrative archive can foster patient interest in engaging with PCOR and provide a mechanism for forming partnerships between researchers and patients or caregivers. For example, over half of the MyPaTH Story Booth participants expressed an interest in learning about research or stakeholder opportunities related to their stories. Thus, the archive may represent an important resource for bringing together researchers and patients who can foster PCOR principles (e.g., reciprocal relationships, co-learning, partnership, trust, transparency, honesty, respect) [20,21] and learn from each other's perspectives.

The study's patient-engaged process may have contributed to the high satisfaction data. For example, patient input emphasized the need for convenience in narrative collection (e.g., by including telephone interviews, not requiring participants to participate with a friend or family member and providing a mechanism for participants to approve recordings). Patient/caregiver stakeholder input also added design elements such as the value of including caregiver perspectives and the importance of being able to post stories to the web. Sharing stories between patients was felt to be important so that others could learn from the storytellers' experiences and/or not feel alone in navigating health problems. Furthermore, the medical literature suggests that patients may benefit from story sharing [13,14,22,23]. For example, narrative resources may help reduce the stigma associated with illness [22] and storytelling may help patients to reestablish a sense of identity, which can be disrupted by illness [14,22]. Likewise, storytelling has been found to alleviate distress among surrogates who have shared a patient's intensive care unit experience [23].

While the sample is diverse in terms of age and sex the narrative collection is limited by the under-representation of patients and caregivers with lower education levels and minority racial/ethnic backgrounds. The sample's racial/ethnic distribution is similar to Allegheny County, where the audio booth has been housed. To expand the sample's racial/ethnic and geographic diversity and the archive's overall size, our team plans to extend story collection to additional sites, including story collection in coordination with other PCORnet networks and community-based patient organizations, as well as at other PaTH Clinical Data Research Network sites. Improved outreach to under-represented minority groups (e.g., African American, Latino) with storytelling traditions is particularly important as these cultural groups may find the use of narratives to be a compelling approach to communication [24]. This hypothesis is supported by narrative interventions that have promoted behavior change in African American and Latino samples [11,13,25]. Furthermore, narratives have been found to be helpful for conveying information among low-literacy populations [26,27].

Users of the narrative archive should recognize that stories may not be literal recountings of events. Narrators make choices about the stories they tell and these choices are shaped by societal influences as well as personal goals [28]. In some ways, narratives may resemble literature rather than precise records of fact (e.g., a critical minute may be described at length and a year reduced to a single sentence) [14]. The optional conversation prompts may also influence participants' choices regarding story

content. It is also worth noting that although the MyPaTH Story Booth participants overall showed high satisfaction levels, 5% reported that the narrative-recording experience was difficult. It is possible that such reports may reflect discomfort with the discussion of distressing topics, or anxiety about determining the scope of story to share. Such possibilities emphasize the importance of adequate training for staff involved in story collection, as well as established procedures for helping participants access counseling services if desired.

Conclusion

In summary, this analysis indicates that an indexed archive of patient and caregiver stories regarding health and accessing the healthcare system reflects diverse topics that are of relevance to PCOR researchers. It represents a unique resource for fostering the development of patientcentered research. We expect that the value of the archive will grow as its breadth expands, since specific topics of interest are not only more likely to be addressed - but to also be represented by multiple perspectives. In addition, the majority of storytelling participants have indicated an interest in learning of research or stakeholder engagement opportunities. As a result, the MyPaTH Story Booth archive can support the development of research teams that engage relevant stakeholders as partners throughout the research process. Such patient-centered research may hold promise for improving the quality of health and healthcare delivery.

Acknowledgements and Conflicts of Interest

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