Appendix 1: Codebook for Qualitative Interviews

Variable Name	Second-level	Third-level	Definition	Inclusion	Exclusion	Example
	code	code		criteria	criteria	
Background	Education Work experience		Interviewee's own background	Mentions own education background	Mentions others' background, present job, or future plans	"I started working here in December of last year, so I haven't been here a year yet. Previous similar work experience was with an undocumented population, pregnant women, and connecting them to services like Medicaid, and insurance, and teaching workshops for a community-based health center."
Job description	Role		Description of	Definition of	Factors	"I have 60 clients on my caseload,
	Favourite part Least favourite		job responsibilities	role at work, including	unrelated to job that influence	and about half are HIV+, and about half – you have to have 2 chronic
	part			different responsibilities,	job performance, as	conditions to qualify for the program, so that's the sum of this
	Barrier			likes, dislikes,	per role defined	organization. Oh, and harm
	Facilitator			and barriers and facilitators of described role	per rote defined	reduction too I guess. We also focus on substance abuse and a harm reduction approach."
Client description	Demographics		Description of interviewee's	Demographic information, and	Assumptions, description of	"we do have a lot of clients with substance abuse issues"
•	Needs		clients	needs and	how care	
	Strengths			strengths of clients in care coordinator setting	manager wishes clients would act	
Perception of technology use	Of self	Positive	Perspectives on care managers	How care managers	Perception of using phone	"they can text me about something, and I can help bring that up to their
	Of patient	Negative	and patients using technology	perceive the use of technology in their role, and how their perceive their patients use technology in	calls or letters/other means to communicate; discussion of the type/content of technology use;	provider or remind them to"

				their interactions; beliefs, attitudes	discussion of skills	
Technology/ texting integration	Self Patient	Facilitator Advantage Disadvantage Area for improvement	Integrating texting or other types of technology into the care manager/client relationship	Care managers talking about themselves, or their clients, integrating technology into their regular routines, and the barriers/facilitat ors, pros/cons, and areas of improvement for doing so	Reference of technology not relative to regular routine that previously didn't use technology	"clients nowadays do text, and they have smartphones, so they can"
Medicaid	Relevance		Mention of Medicaid	Medicaid is relevant to what is being mentioned	Medicaid is not mentioned by name	"A lot have what we call the Obama- phone, it's a phone that I guess if you have Medicaid and you're eligible for it, it's a phone that you get for free with x amount of minutes."
Access to services	Health-related Legal Other	Need help Received/not	Discussion of clients' access to services	Services that may or may not be accessible to clients	Opinion of services, or people who work at these services	"He was in the ER, he went to his primary care physician and he was sent to the ER just to have an ultrasound to follow up on a fall he had. And he was waiting, just like a regular ER patient. Like why wouldn't he just be sent directly to radiology? It's just sometimes some of the hospitals and clinics, they don't have the right flow down, they're not patient-centered."
Healthcare system	Aspects with which clients have difficulty Factors that impede patient	Strategies to cope with difficulties	Reference to healthcare system	All components of healthcare system, parts that impede/ promote	Reference to other political systems, resources outside of	"I go to many hospitals all over NYC and so if your client is in good hands with a hospital that's run properly and good administration, then you can feel more

	engagement Factors that promote patient engagement Culture			engagement, how to make use of healthcare system less difficult	system that help with health	comfortable."
Care manager- client relationship	Quality	Barriers Facilitators	Reference to relationship between care manager and their clients	Quality of relationship, stories related to relationship, factors that can improve or worsen the relationship	Relationship between anyone else	"Ya they'll want to leave, waiting for hours, so you're kinda there to occupy their time."
Communication	Method Quality Quantity Difficulty/Ease Reciprocity Satisfaction with client response	Initiated by provider Initiated by patient Balance	Discussion of communicating with clients	Mention of how providers and patients communicate, the quality of the communication, if the efforts are reciprocated, barriers or facilitators of communication	Communication at appointments, or communication between clients and other people or care managers and others	"they can text me about something, and I can help bring that up to their provider or remind them to"
Care plan goals	Adherence Difficulties		Reference care plan goals	Care plan goals are mentioned; adherence to them, barriers to adherence	Other life goals that are not set with care manager	"I guess the largest interference is maybe them not wanting to themselves."
Engagement	With healthcare system With care manager Relationship to technology (in general)	Barriers Facilitators	Discussion of patients' ability to interact, participate, and make proper use of defined subject matter	Engagement with healthcare system, care manager, technology	Other client characteristics, description of healthcare system itself, opinions on technology use	"It all depends, we offer a lot of support groups, we offer a cooking class, a sketch class, there's other counselors here, like a harm reduction counselor, so some clients are engaged. It's best when you can [get] clients engaged in other things the agency has to offer – that would be wonderful, because then they're

						more supportive, more supported."
Sense Health	Pros		Mention Sense	Sense Health	Other	"and now with Sense Health, prior to
*most used	Cons		Health platform	platform tools,	technology,	Sense Health it was difficult because
	Relationship to	Yes/No		benefits and	interactions with	a lot of what we were doing before
	engagement		_	disadvantages of	care manager or	was either using our own cell phones
	Relationship to			platform, what's	healthcare	to get into contact with clients or
	understanding of			missing,	systems that do	when we were in the field"
	health			influence on	not involve	
	condition/informa			clients	Sense Health	
	tion			understanding health condition		
	Utility	Room for		or health		
		improvement		information, its		
	Ease of use/			usefulness,		
	understanding		_	introducing the		
	Transition			technology to		
				clients		
Trust	Care manager-		Reference to	Trust of client,	Other feelings	"Ya, or some clients, they won't
	client		trust as a	client's trust of	of care manager	communicate another symptom
	Healthcare		notable	care manager,	or client that	they're having that they felt
	provider-patient		characteristic	trust of health or	aren't trust	comfortable telling me."
	Systemic			justice system		
	(health/legal)					
Difficulties with			Reference to	Care managers	Discussion of	"It's hard when we're stretched thin,
heavy caseload			quantity of	experiencing	client	when we're maybe expected to go to
			clients	difficulty due to	characteristics	the HRA, for something like a food
				the number of		stamp issue, or a housing issue, to go
				clients on		apartment-viewing and stuff,
				caseload		when I have another client with an
						appointment that I want to make
						sure they understand about their diabetes."
Separation of	Ethics		Reference to	Collision of	Challenges or	"sometimes the client saves that
personal/	Luncs		distinction	personal and	stories related to	number and calls you or texts you at
professional			between	professional	either personal	midnight on your personal phone so
L-0100131141			personal life and	lives, ability to	or professional	that was very common"
			professional life	separate	life but not both	
			_	personal and		

		professional lives		
Appointment attendance	Reference to clients going to appointments	Ability for clients to attend appointments, health or otherwise	Adherence to other parts of care plan goals, client characteristics	"Definitely finding out about their appointments, we do keep track whether they went to their appointments last month, if they have any coming up"
Health as patient concern	Discuss health as a concern	Health is mentioned, regardless of level of importance attributed	Other factors mentioned as a concern to patients	"Some people have really serious health issues."
Financial concerns	Mention of client finances	Discuss how client finances impact decisions	Other concerns that impact client decisions	"But a lot of our clients, their number's out of service, just because it's hard to keep up with paying the bill, and they'll get a different phone line, sometimes I have clients that every month it's a different number.'
Text length	Reference to how long a text message can be	Discussion of length of text	Discussion of content of text	"I want my texts to be longer! (laughter) It's very short, it's like a tweet, so I just have to send it in chunks and I don't know what it looks like on their end, when I something in chunks, you know it'll cut off a phone number or something of someone they need to call."
Consent	Mention of consent process	Talk about the consent process, whether how care manager perceives it or how clients perceive it	Other parts of using Sense Health technology or technology generally, or other aspects of client-care manager relationship	"We've all concluded that our biggest barrier to consenting clients is doing it over the phone."
Literacy levels	Mention of	Literacy levels	Client	"And I do have a lot of clients with

	clients' literacy levels	and/or education status of clients	background not related to education and/or reading abilities and comprehension	low literacy levels, that's actually why a lot of my clients need advocacy, because they don't read or write."
Seniors texting	Discussion of elderly people using text messages	Mention of how people over 65+, or perceived as old, text and/or use technology	People of other age groups using technology	"Ya, definitely age plays a big factor."
Provider-care coordinator dynamic	Reference to interaction between care managers and healthcare providers	Interactions between healthcare providers and care coordinator	Interactions between care coordinator and other professionals, relationship between client and healthcare provider	"I have to advocate a lot to have my client see the same provider every time, to be assigned one primary care physician, and not see someone different every time, a different student, that's big here."
Client culture/ Language	Reference to client's cultural background and the language they speak	Mention of client's culture and/or language (likely other than English)	Other aspects of client demographic information	"I have a few like that and I have clients that are Spanish-speaking only and they don't always text and they don't always, they're illiterate."
Willingness	Open to changing health behavior	Discusses intent to change behavior, to make progress in terms of self-management or engagement, or referral to past occurrence of the same	Willingness to change other, non-health, behaviors	"It all comes down to them, personally, again, are they willing to do something? Are they willing to make that change? The ones who will, you'll see that change in them. Then the others, it's been the same story for a year or two."
Accountability	Responsible to one's actions	Reference to clients' accountability to	Accountability of technology	"It does give them a little bit more of, like, 'Okay, I have to do this because she's going to know if I

			their care		don't.'"
			their care		don t.
			manager or to		
			their health, or		
			to adherence, or		
			care managers'		
			accountability to		
			their clients		
Support		Sense Health's	Relates to	Care manager-	"They know that there is that trust
		influence on	support via	client	because already they've given me,
		being able to	technology	relationship	they're allowing me to text them. It
		support clients,		independent of	builds more trust and it builds
		or clients being		technology	more Like, they'll know that they
		able to feel		85	can rely on me and so that's a part of
		supported			it that's also good. They also,
		Supported			sometimes they like, "Oh, hey, thank
					you so much." It's very receptive."
Motivation		Dociro to ongago	Enthusiasm and	Enthusiasm for	"the ones who I have their
Mionivanon		Desire to engage			
		in health	incentives for	changing non-	medication reminders for, like
			changing health	health behaviors	seeing that change in themselves,
			behaviors		they're happy about. I guess it kind
					of helps them just be happier about
					what's going on in their life."