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Designing for adoption: Experience-led virtual health Purposeful design to fulfill the promise of virtual health







of infection. This fear of infection translated into a 154% increase in virtual video visits during the last week of March 2020, compared with the same period in 2019.¹

Changes in reimbursement policies also fueled the adoption of virtual health, with CMS more than doubling the number of services that beneficiaries could receive remotely by expanding coverage to an additional 135 allowable virtual health services. Before COVID-19, only 1.7M Medicare beneficiaries had received synchronous virtual health services. By the last week of April 2020, 9M had.²

"There were some myths of what telemedicine could do ... and providers and patients were surprised by how effective the clinical visit could be [in a virtual setting]. We are hopeful that there is real opportunity for a telehealth component to health care that is sustainable and reliable."

— Kenric Maynor, MD, chair of Medicine Institute, Geisinger Health System (Deloitte Virtual Health Accelerated Roundtable participant)

Beginning in late April 2020—as the initial lockdowns were lifted and concerns about PPE shortages decreased—consumers and clinicians quickly and quietly began reverting to old habits. From its peak in April and May, virtual health utilization began to decline. Over the course of the summer, many organizations shifted from heavy-to-moderate or moderate-to-minimal use of video visits.³ At least some portion of this decline is likely attributable to the unsatisfactory experience that consumers and clinicians experienced with the new virtual health solutions.

While the dramatic increase in virtual health proved that health care organizations were able to implement workable solutions when necessary, the dramatic decline in use as the risk of COVID-19 infection diminished demonstrated that, at least for some, the virtual health care experience left something to be desired. When given the choice, many consumers and clinicians reverted to the traditional model, raising questions about how durable those virtual health solutions would be.

From November 2020 to February 2021, as COVID-19 resurged, virtual health adoption once again increased, illustrating the clear link between the course of the pandemic and the success of virtual care. The lesson is clear: Health systems that want to drive sustained adoption of virtual health in the absence of a pandemic are going to need to create a more compelling virtual health product and experience to drive adoption. These organizations will need to take a more deliberate approach to designing and integrating virtual care into their overall care delivery if they want patients and clinicians to use it.

Beginning this purposeful design process, requires understanding the technology, process, and policy barriers that patients⁴ and clinicians are encountering in the transition to virtual health:



Regulatory and payment uncertainty—Government and commercial payers were quick to ease restrictions, privacy rules, and coverage for virtual services during the pandemic. And while CMS has extended its expansions in payments for virtual health services, ongoing uncertainty around reimbursement and clinician licensure will need to be resolved to support long-term use and adoption.



Logistical, documentation, and workflow challenges—Prior to COVID-19, many clinicians had not offered virtual services. When they did, they found that many of the options for delivering virtual health were cumbersome, requiring extra steps, additional clicks, and use of another technology interface that needed to be mastered. For those offering in-person and virtual options, in-office workflows were not always compatible with virtual visit processes. While most physicians and care teams were able to muddle through, the results were often frustrating for both clinicians and their patients.



Lack of consistent, evidence-based care

pathways—Clinical standards surrounding the right mix of virtual and in-person care for specific diagnoses and specialties are still developing. What works for one patient may not work for another with the same diagnosis based on case-specific variables, personal preferences, and patients' support infrastructure. As a result, clinicians and patients have largely been left on their own to navigate and make determinations around when and how to best leverage virtual care.



Disjointed systems—Many of the new virtual care technology platforms function as stand-alone offerings. They do not integrate with existing patient portals, scheduling systems, or clinician websites. This creates confusion and frustration for both clinicians and patients, as they are forced to navigate among platforms, potentially inhibiting adoption and use.



Trust and comfort level—Historically, health care has almost always been delivered in person. Introducing complex user interfaces and intervening technologies may make some patients nervous. Technological hiccups can further erode patients' confidence and trust in the value and efficacy of virtual care.



Access to adequate technology—In order to participate in virtual care, patients must have some form of computer, tablet, or smartphone and reliable access to Wi-Fi or cellular service. These requirements may preclude some patients from accessing virtual care, potentially perpetuating existing barriers to and disparities in care.

Many of these "pain points" are a result of the rapid deployment of virtual health capabilities in response to the pandemic. Now, as organizations have some experience and move toward a new "normal," there are opportunities to create more purposeful, well-designed virtual care solutions that consider the needs, preferences, and experience of the patients and clinicians who are using them. We can also expect that health care will follow the pattern in other industries: Over time, patients and clinicians, are likely to become less forgiving of shortcomings in the virtual experience. Virtual health capabilities will become market differentiators, with potential patients, clinicians and staff seeking out those health systems that deliver the most positive virtual health experiences.

By purposefully and effectively integrating virtual health into the care delivery model, health systems can create a brand-differentiating offering and experience, gaining and maintaining market share in an increasingly competitive environment that is less and less tethered to a physical or geographic location. Can any health system afford not to focus on the patient and clinician virtual care experience?⁵

Applying a human-centered design approach

Health systems seeking to increase virtual health adoption should take a human-centered approach to defining their virtual health offerings. Refining and tailoring programs based on a strong understanding of who the patients and/or clinicians are, what they need, and how they behave will result in more durable and attractive virtual health solutions that meet patients' and clinicians' specific needs and drive increased loyalty.

Breaking down the experience-led, human-centered design approach for virtual health programs:



Frame the challenge. The precise virtual health need or opportunity that a health system may is solving for may vary, but the approach to addressing it remains the same.

- Clearly articulate the problem you are trying to solve: How will improving the patient and clinician experience increase adoption of virtual health? What value will that create for the organization, the patient, and/or the clinician?
- Identify who you are designing the solution for: Who
 is your audience or user population? It could be patients,
 members, clinicians, patients with specific needs or
 diagnoses, etc.
- Gain leadership support: Align around the objectives you are trying to achieve with critical organizational stakeholders.

[Sample]

Design challenge

How might we more seamlessly integrate virtual health into the care we deliver to the chronically ill?



Tips and Tricks

Bring together a multidisciplinary team that offers a range of perspectives, and be as specific as possible when articulating who the target users and customers for your virtual health offering are and what you are trying to accomplish.

Discover more about the users of your virtual health platform through observations. Conducting and immersing yourself and your team in design research with your users will help you develop empathy and a better understanding of the clinician or patient experience. This research can then be synthesized into a clinician or patient journey that maps the functional and emotional journey of the individual as they navigate between virtual health platforms and in-person care and that highlights the key inperson and virtual moments that matter throughout.

- Identify the key areas to investigate—a particular part of the patient journey or particular patient-clinician interaction.
- Determine the appropriate research tool based on the data you are seeking to collect (e.g., use a survey to understand the "what" and "how much"; engage in indepth interviews to understand underlying motivations that may drive behavior; conduct observational sessions to uncover things that may be subconscious or unsaid).
- Systematically collect data to ensure a repeatable process.

[Sample]

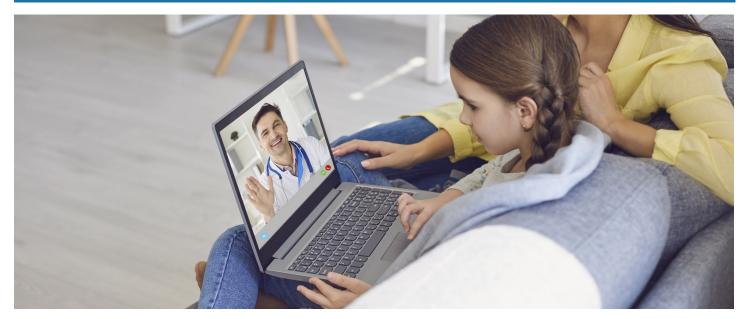
Observations

Patients, particularly those with multiple chronic conditions, engage with multiple care teams through different channels—text message, video call, in-person visit, email. New, unfamiliar channels can introduce frustration and create a void in clinician-patient connection as both parties seek to adjust.



Tips and Tricks

The "in-context interview" is a particularly important research tool for discovery. Speaking with patients and clinicians in the context of their home or office as they engage in a virtual health experience helps to reveal the true strengths and barriers of a virtual health platform from the user's perspective (e.g., environmental factors, such as unstable internet connection or caretaking responsibilities, that affect a patient's virtual health experience).



Analyze observations to generate insights and implications. Integrating research insights with your exploration of the patient and clinician journey enables you to refine your understanding of the design challenge and to create a more targeted problem statement to address.

- Combine observations from qualitative and quantitative data into interesting or unique insights to highlight the underlying beliefs, motivations, and past interactions that may influence an experience.
- Look for emerging patterns in the raw data to refine and clarify the experience journey.
- Bring empathy as you distill observations into insights and question orthodoxies, and be aware of your own preconceptions to remove bias from the analysis.
- Avoid solutioning too early to maintain focus on really understanding the issues and their root causes.

[Sample]

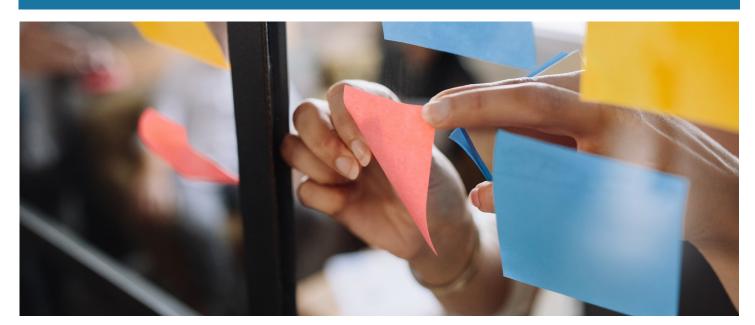
Insights

A multichronic, comorbid patient wants to be seen as more than just the set of her diagnoses; she wants to be able to seamlessly coordinate with and among her care team and caregivers; she wants to develop continuous, meaningful relationships with her care team, whether she is in person or remote.



Tips and Tricks

It can be helpful to write all of your individual observations on sticky notes and cluster them by topic to begin to understand the prevalence and significance of certain themes. Once you begin to identify themes, it's important to try to understand the "so what?" of the information. (For example, common themes during the COVID-19 pandemic may include access, affordability, safety, and trust.)



Create concepts and articulate corresponding value propositions. Your refined insight(s) become the source of your solutions. In health care, there are many technological (interoperability), regulatory (reimbursement policies), and operational (e.g., staff readiness, clinical workflow) constraints that may feel limiting; however, try to set those aside as you begin to identify potential opportunities and solutions. Make your brainstorming as broad as possible —the constraints may influence your ultimate solution, and expansive, divergent thinking may also help uncover breakthrough solutions.

- Ground concepts and the value proposition in insights as it relates to patients' and clinicians' needs.
- Suspend disbelief to ideate around the ideal solution; then consider what is feasible and develop an MVP (minimum viable product) that will allow you to quickly launch a product in the market.

[Sample]

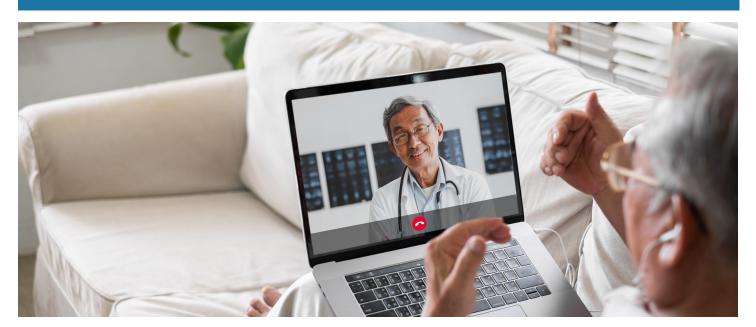
Value proposition

A biometric sensor monitors for significant weight and fluid fluctuations—a common complication of CHF—and auto-generates reports for involved care teams, including a list of key topics for the patient to proactively discuss with the specialist that they are scheduled to meet with.



Tips and Tricks

Exercises that challenge "orthodoxies" or long-held beliefs about how things "must" be done can help process-oriented industries such as health care adopt experience-led design. Analogues from other industries can serve as an inspiration, with examples of solutions to similar problems (e.g., customers expect the same treatment from their bank regardless of whether they call customer service, use an app, or visit a teller).



Develop design concepts that map to a reimagined, detailed patient and clinician journey. New virtual health solutions will change the touchpoints and interactions (virtual or in-person, synchronous or asynchronous) that people will experience.

- Use basic prototypes to **test** the redesigned experiences with patients and clinicians, then refine the prototypes based on their feedback.
- Confirm that the updates or changes will integrate with existing or new processes and/or business models.
- Evaluate the business and technical feasibility of the proposed changes; update or adapt as necessary.
- Define a realistic development timeline and road map.

[Sample]

Testing

Patient variability: Will this device be affordable to a majority of the multiple chronic complex patients?

Operations: When will care teams receive this report, and how will they coordinate clinical recommendations if patients meet with care team members separately?

Technology: Will the device's data stream automatically feed into the care team's EMR? What if the care team spans across different physician practices?



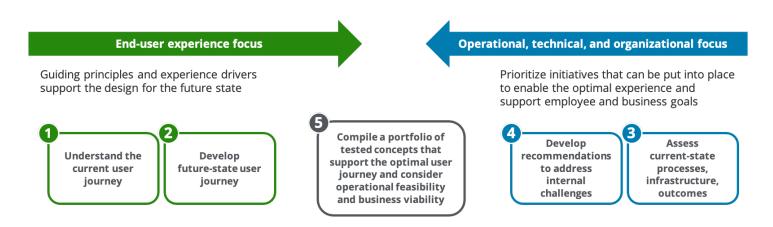
Tips and Tricks

When designing an integrated in-person and virtual health experience, you need to consider the following:

- Patient and clinician variability—A well-intended, experience-led design in health care needs to account for usability and accessibility variables such as language, broadband access, and digital literacy so that it supports equity in care delivery.
- Operations—Given the impact that virtual health solutions have on workflow, the design must proactively identify and solve for the changes that introduced to clinical and operations staff up front. Communications, change management, and training will be critical to driving adoption.
- **Technology**—Interoperability between devices, the EMR, and virtual health platforms needs to be verified, especially when using a third-party vendor, and the technological requirements of specific features will need to be understood and tested (e.g., video and synchronous functions tend to require high-speed internet).



Ultimately, the new virtual health experience will reflect the intersection of the ideal experience, with the organization's operational, technical, and organizational realities and existing business priorities. By considering and designing the solution through the lens of the ideal patient and clinician experience, and then tempering it based on reality, the resulting product will be one that is not only desirable to consumers and that will drive adoption, but one that is also operationally viable and technologically feasible.



Where to begin?

Health systems that are considering a purposeful, experience-led approach to designing integrated virtual health services can take some smart first steps:

- Define the initial design challenge
- Identify what types of patients and clinicians will be affected by any potential changes
- Bring together a diverse, multidisciplinary team to address the design challenge and engage with critical stakeholders
- Acknowledge that the experience-led design approach may differ from the organization's typical process design approach

 Begin the research process to uncover the attributes and traits that will dictate how patients and clinicians experience virtual health

Health care organizations have a unique opportunity to evaluate, rethink, and redesign their virtual health capabilities and systems with the patient and clinician experience in mind. With the learnings from this past year to drive insights, organizations can improve on their initial experience to create a sustainable model that matches clinical need to the patient and clinician experience and ultimately drives better outcomes, higher patient and/ or clinician engagement and satisfaction, and brand and market reputation.

Contacts

Deloitte has been active in the virtual health arena for years, working with our private- and public sector clients and our technology alliances to develop and implement solutions designed to provide accessible, high-quality care and help work toward a competitive advantage. To learn more about virtual health and its applications, please reach out to one of our professionals:

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Endnotes

- 1 L. M. Koonin, B. Hoots, C. A. Tsang, et al., "Trends in the Use of Telehealth During the Emergence of the COVID-19 Pandemic United States, January–March 2020," US Centers for Disease Control and Prevention (CDC), October 2020.
- 2 Seema Verma, "Early Impact of CMS Expansion of Medicare Telehealth During COVID-19," *Health Affairs*, July 2020.
- 3 Commonwealth Fund, study from Phreesia's clients (1,600 organizations), October 2020.
- 4 For the purposes of this conversation, we will refer to virtual health consumers as patients, but acknowledge that these insights may also apply to health plan members, caregivers, and any other health-seeking consumers.
- 5 David Geisinger, "Earning health care consumers' loyalty through data and experiences," Deloitte Digital, June 15, 2020.

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