How can equitable video visit access be delivered in primary care? A qualitative study among rural primary care teams and patients

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ABSTRACT

Objective The COVID-19 pandemic sparked exponential growth in video visit use in primary care. The rapid shift to virtual from in-person care exacerbated digital access disparities across racial groups and rural populations. Moving forward, it is critical to understand when and how to incorporate video visits equitably into primary care.

Design Qualitative data collection: one team member conducted all patient semistructured interviews and led all focus groups with four other team members taking notes during groups.

Setting 3 rural primary care clinics in the USA.

Participants 24 black veterans living in rural areas and three primary care teams caring for black veterans living in rural areas.

Primary and secondary outcome measures Findings from semistructured interviews with patients and focus groups with primary care teams.

Results Key issues around appropriate use of video visits for clinical teams included having adequate technical support, encouraging engagement during video visits and using video visits for appropriate clinical situations. Patients reported challenges with broadband access, inadequate equipment, concerns about the quality of video care, the importance of visit modality choice, and preferences for in-person care experience over virtual care. We developed an algorithm that requires input from both patients and their care team to assess fit for each clinical encounter.

Conclusions Informed matching of patients and clinical situations to the right visit modality, along with individual patient technology support could reduce virtual access disparities.

INTRODUCTION

The optimal role of video visits within primary care is undefined. With the onset of COVID-19, the need to stem potential viral transmission led to dramatic and rapid shifts from in-person to virtually delivered care, including video-based care. Video offers assessment and communication advantages not possible with phone alone (eg, visualising a rash), may support better patient-provider rapport building, 1 and receives higher remuneration from private insurers. 2 However, video-based care comes with distinct challenges for clinical teams (eg, new clinical workflow) and patients (eg, device access, technical literacy). In the absence of clear evidence, there is an urgent need to identify the right telehealth modality for the right clinical problem for the right patient at the right time. 3

Finding the optimal role for virtual primary care is particularly critical for historically marginalised and under-resourced populations. While telephone-delivered care may increase access to care, 4 early findings show that when compared with phone-based care, systemically disadvantaged populations (eg, older adults, those in rural or low bandwidth areas, racial and ethnic minorities, unhoused individuals) are less likely to engage in video visits. 5,6 Compared with phone, access disparities were more pronounced with video visits due to requirements for digital literacy, higher cost, camera-ready phones or computers, and

STRENGTHS AND LIMITATIONS OF THIS STUDY

⇒ Primary qualitative data collection from patients and care providers in the same clinical catchment area.
⇒ Data collection centred on a historically under-resourced population to promote equitable clinical algorithm development.
⇒ Partnered engagement in data collection tool development.
⇒ Data collected from one geographical area and one healthcare system may not translate to other regions or clinical settings.
⇒ Focus groups were conducted virtually which may have limited the participation of some individuals.
access to adequate bandwidth. These findings underscore the structural determinants of telehealth disparities, including structural racism and unequal access to the internet. Addressing inequitable engagement in virtual care and related access disparities requires action at multiple levels from individual clinic practices to national policies.

Our objective was to develop a clinical algorithm to guide when and how to incorporate video visits into primary care delivery. For this algorithm to support equitable video visit access, we focused our data collection on patients who have historically experienced systemic healthcare access limitations. As the largest provider of US primary care and a national telehealth leader, the Department of Veterans Affairs Health Care System (VA) is an optimal setting to examine how to optimise virtual care delivery. Thus, we engaged populations at increased risk for low video uptake, specifically rural, black veterans.

### MATERIALS AND METHODS

Data collection occurred among patients and clinical team members of VA outpatient primary care clinics in the Piedmont area of North Carolina, which serve large populations of rural dwelling individuals. We followed Consolidated Criteria for Reporting Qualitative research (COREQ) guidelines for reporting of qualitative research where applicable.

#### Framework

We anchored our approach on the conceptualisation of access developed by Fortney et al. This model emphasises actual and perceived access to virtual and in-person care and guided our data collection materials (eg, interview guides, matrix analysis, structured note templates), eligibility criteria (eg, users, non-users) and debriefing sessions among the research team.

#### Setting

We defined rurality using rural–urban communicating areas (RUCA codes) consistent with the VA Office of Rural Health. At the time of data collection, all clinics were providing in-person, telephone-based and video-based care, though virtual care, including video-based care, was encouraged across the VA healthcare system due to the pandemic. While there was some flexibility on the use of approved commercially available videoconferencing platforms during the early pandemic, the VA primarily uses an internal VA platform for video-based care delivery.

#### Patients

We conducted 26 semistructured interviews with veterans who were identified as Black in the electronic health record, who were engaged in VA healthcare (ie, ≥1 primary care visits within the prior 12 months) and lived in rural areas. Recruitment was stratified by patients who had completed at least one video-based primary care encounter (n=14) and those who had not (n=12). The research team contacted a subset of potential participants via mailed letter in batches of 25 with purposive sampling of Black veterans living in rural areas and then followed up by phone until the target recruitment number was obtained and thematic saturation was reached. We obtained verbal consent.

All interviews were conducted and recorded via WebEx (audio-only) between February and May 2021 by a study team member (KRP) who identifies as white and has training in qualitative methodology. The interviewer listened to audiorecordings and took templated notes. To ensure reliability and validity, a second study team member (AL, KG, LLZ, MES-B and CW) independently listened to interviews, reviewed and amended interviewer notes. Responses to each domain were summarised using matrix analysis for participants stratified by previous video visit experience. Summary responses were generated independently by two team members and reviewed by a third reviewer.

### Patient and public involvement

The driving question for this project was developed in response to trends in patient utilisation of video-based care and the need to obtain patient preferences and experiences directly from the patients themselves. We received consultation on our approach from the Durham VA Veteran Engagement Panel and the Durham VA Healthcare System Antiracism and Black Equity Advisory Board; however, these individuals were not directly involved in the conduct of this work.

### Primary care teams

We invited all primary care team members from three VA primary care clinics serving a single facility in the Piedmont area of North Carolina which cares for a large population of Black, rural-dwelling population to participate in clinic specific focus groups. We conducted four video-based focus groups across these three clinics between December 2020 and February 2021 using WebEx videoconferencing platform. Participants were encouraged to turn on their cameras if available and to make use of the chat function. Focus groups were first given the opportunity to review and provide feedback on a process map, an explicit step-by-step illustrative flow diagram of a proposed approach to the incorporation of video visits into primary care based on existing workflow in our institution (see online supplemental appendix 1). Discussions followed the focus group guide. Research team members (n=3) took notes during focus groups using structured templates. A rapid qualitative approach and matrix method were used to identify focus group themes. Notes from the structured templates were consolidated into matrices consistent with Fortney model domains. This matrix analysis approach was paired with real-time iterative team-based analysis. A subgroup of team members (KRP, KG, CW, AL, MES-B and L LZ) met virtually during data collection to review domain level
findings and identify implications for primary care video-based care delivery.

Virtual care algorithm generation

We based the initial algorithm structure on our proposed process map of virtual care incorporation into primary care workflow (online supplemental appendix 1) and standards for clinical algorithm development. Working from themes identified through patient interviews and clinical team focus group findings, we evaluated potential overlap, conflict, and novelty related to needs and preferences for when video-based visits are acceptable. After prioritising patient safety and clinical appropriateness, we reorganised the preliminary clinical algorithm to explicitly include patient choice and preferences and to ensure their formal incorporation into clinic workflow (figure 1). For example, from clinical focus groups, we added an initial step to identify patients whose clinical characteristics would be more appropriate for a face-to-face visit regardless of patient preference (e.g., patients with cognitive impairment). Another example is adding assessment of patient preference for visit modality and need for technical assistance as an explicit step before scheduling. This was based on patient interview findings that there was great dissatisfaction when modality was assigned rather than offered, and that the need for technical assistance was often a significant barrier for patients. Our research team iteratively revised the algorithm and offered clinical team focus group participants the opportunity to review it. Ultimately, our novel algorithm seeks to guide whether video or in-person care should be offered to a specific patient with a given clinical situation, while incorporating consideration of the patient’s existing technical skills and equipment.

RESULTS

Focus group participants included physicians, advanced-practice providers, administrative staff members and nurses (n=38). Twenty-four individuals completed semi-structured interviews, 14 with and 12 without prior video visit experience. Demographics of the interviewed patients are consistent with the source patient population (table 1).

Patient interviews lasted from 25 to 45 min and focus groups from 45 to 60 min. Below, we present themes from patients and clinical team data collection (table 2).

Patient findings

Perceived access to care

Most patients did not report personally experiencing or witnessing others receiving differential access to care due to personal identity. However, several patients noted differential treatment around receipt of benefits, pain medication, and appointment scheduling: ‘…All my life, from the service part all the way up to where [I am] today, I feel like I’ve had to fight for myself…’ (video-user). Reasons for differential treatment were attributed to characteristics such as age, racial identity, disability status and/or a history of substance use disorder.

Patients commonly reported challenges to video-based visits due to having inadequate technical skills or a lack
Table 1  Characteristics of patients participating in semistructured interviews

|                                           | Prior video Visit | No prior video Visit |
|------------------------------------------|-------------------|----------------------|
| Age, mean (SD)                           | 64.50 (SD 9.00)   | 69.08 (8.69)         |
| Gender*                                  |                   |                      |
| Male                                     | 11                | 12                   |
| Female                                   | 3                 | –                    |
| Tech self-efficacy†                      | Mean=4            | Mean=4.29            |
| <3                                       | 2                 | 2                    |
| 3–5                                      | 12                | 9                    |
| VA primary healthcare source             |                   |                      |
| Yes                                      | 11                | 11                   |
| No                                       | –                 | 1                    |
| Not sure                                 | 3                 | 1                    |
| Distance to closest VA                   |                   |                      |
| 0–20 miles                               | 4                 | 5                    |
| 21–80 miles                              | 9                 | 6                    |
| missing                                  | 1                 | 1                    |
| No. prior video visits                   |                   |                      |
| 0 visits                                 | –                 | 12                   |
| one visit                                | 2                 | –                    |
| 2–10 visits                              | 7                 | –                    |
| >10 visits                               | 5                 | –                    |
| No of prior telephone visits             |                   |                      |
| 0 visits                                 | 2                 | 2                    |
| 1 visit                                  | –                 | –                    |
| 2–10 visits                              | 7                 | 10                   |
| >10 visits                               | 5                 | –                    |
| Received help for video visit            |                   |                      |
| Yes                                      | 11                | 1                    |
| No                                       | 2                 | 10                   |
| Not sure                                 | 1                 | 1                    |
| Device used for video visit              |                   |                      |
| iPhone                                   | 5                 | –                    |
| Android phone                            | 5                 | –                    |
| Tablet                                   | 2                 | –                    |
| Laptop or computer                       | 2                 | –                    |
| Don’t have any devices to use            | 0                 | –                    |
| Reliable broadband                       |                   |                      |
| Yes                                      | 11                | 6                    |
| No                                       | 1                 | 5                    |
| Not sure                                 | 2                 | 1                    |
| Reliable device                          |                   |                      |
| Yes                                      | 12                | 9                    |
| No                                       | 2                 | 2                    |
| Not sure                                 | 0                 | 1                    |
| Racism in healthcare (M across items, SD, # of respondents)‡ | 2.80 (1.17) for n=11 | 3.02 (0.72) for n=10 |
| Endorsed Agreement with:                 |                   |                      |
| RHC 1: Doctors treat African American and White people the same. (N, %, # respondents) | 2 (18.2%) of 11 | 7 (58.3%) of 12 |
| RHC 2: Racial discrimination in telehealth is common. (N, %, # respondents) | 6 (50.0%) of 12 | 5 (50.0%) of 10 |
| RHC 3: In most hospitals, African American and Whites receive the same kind of telehealth care. (N, %, # respondents) | 5 (41.6%) of 12 | 4 (36.4%) of 11 |

Continued
of access to needed equipment/broadband. Only half of patients who had successfully completed video-based visits previously felt confident in their ability to access video-based care in the future. For patients who did feel confident, having a successful first video visit experience was reassuring. Among those without a prior video visit, there were varying degrees of confidence: ‘I’ve never used a computer, so I’m a little shaky of it, you understand?... because if I get the thing and I don’t know how to use it, that’s not worth a nickel... You hit one wrong button and you’re out of business’ (video non-user).

Satisfaction with care
Patients expressed multiple concerns about receiving care by video. First, patients commonly reported perceptions that video visits were of lower quality and more impersonal compared with in-person: ‘Face to face makes it feel that I matter, that I’m important to the provider’ (video-user). Second, patients with and without prior video visits noted concerns about a provider’s ability to adequately assess medical concerns via video: ‘They can’t make medical decisions without seeing you in the face, looking at your body’ (video-user). Third, many patients reported completing telephone-based visits and generally perceived phone-based visits to be lower quality than either in-person or video: ‘it is hard to know on the phone [what the provider] is doing, whether they’re listening to you or understanding what you are saying. I’d prefer in-person visits, but video would be the next best thing’ (video non-user). Finally, patients wanted to choose whether to have their primary care encounter in-person or via video. Many patients reported being told that their visit would occur via video rather than being offered a choice. Some patients who had not completed video-based visits thought that they might feel more relaxed and less rushed at home: ‘Very convenient if I’m going to stay on top of my health’ (video non-user).

Preferences for care
While patients acknowledged the potential convenience of video-based care, most individuals still preferred in-person: ‘given the conditions we face today [COVID-19 pandemic], I understand it. But my preference is in the office’ (video non-user). Reasons given for this preference centred on the full experience of in-person care: ‘If it was up to me, I’d go to the VA. It is a form of release for me...It’s a way for me to get out of the house’ (video-user). In-person care also was noted to offer better eye contact, rapport building, communication, physical exam and the opportunity to coordinate care. The majority of patients thought visit modality should be tied to clinical need. Most veterans preferred video for mental health, while in-person was preferred for specific conditions, such as pain or urgent concerns. This preference appears to be related to a sense that either the provider could not fully evaluate the patient remotely or that the patient could not fully communicate their concerns when not face to face: ‘They can see what’s going on and know if you’re having any difficulties. On video, you have to stay in one position, they don’t know how you feel, you’re just talking...in person, they can tell if you’re not genuine’ (video-user).

Clinical team member findings
Perceived access to care
Clinical teams noted that digital connectivity issues frequently present problems for accessing care. Specifically, video platform malfunctions consume significant visit
time. Additionally, many providers were unsatisfied with available technology for video visits. Team members noted a diminished interpersonal connection during video-based visits and that sometimes both parties (patients and clinicians) were distracted or not fully engaged. Difficulty engaging with certain patients via video was particularly problematic—specifically those with cognitive, significant sensory or functional impairments. One strategy used to overcome technical barriers was having a family member or friend provide logistical support during a video visit. Overall, clinical teams reported that patients living in rural areas and older patients had the most difficulty engaging in video-based care due to limited availability of and comfort with technology.

**Table 2**  Clinician and patient experiences with primary care video visits

| Domain                          | Patient | Clinical team | Implications for clinical algorithm |
|---------------------------------|---------|---------------|-------------------------------------|
| Perceived access to video-based care | Some experiences of differential treatment by personal identity in healthcare setting | Video platform malfunctions take up valuable clinical time | Clinical team training to optimise interpersonal rapport via video |
|                                 | Barriers: Technical skills and equipment, lack of confidence | Diminished interpersonal connection with patients | Clinical triage for video visit appropriateness |
|                                 | Scheduling generally easy | Not appropriate for patients with specific limitations (eg, cognitive impairment, significant sensory impairment) | Offer all patients opportunity to practice video visits prior to scheduled appointment, especially before first visit |
|                                 |                                                   | Rural dwelling and older adults had most difficulty accessing video visits | Encourage patient to recruit family/friends for assistance |
|                                 |                                                   | First video visit was the hardest | Assess patient preparedness for video visit (including broadband access, equipment, technical literacy) |
|                                 |                                                   | Family friends can be helpful | |

| Satisfaction with video-based care | Negative aspects of video visits: | Video inadequate for some clinical presentations | Transparency with patients about when video is appropriate and why it is being offered |
|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|
|                                   | Impersonal                      | Video not appropriate for new patient visits | Use same approach regarding modality choice for all patients |
|                                   | Inadequate for quality medical care |                                  | Enlist technical support for troubleshooting |
|                                   | Providers distracted            |                                  | Establish a back-up plan for connection in advance of appointment (eg, alternate video platforming, telephone) |
| Positive aspects of video visits: | Technical barriers              |                                  | Prepare patients for optimal engagement |
|                                   |                                  |                                  | Give patients choice of participating in video visit |
|                                   | More relaxed                    |                                  | |
|                                   | Less rushed                     |                                  | |
|                                   | Desired choice for visit modality |                                  | |

| Attitudes towards video-based care | Many preferred in-person despite convenience of video | Frustrated when modality choice made without consideration for clinical appropriateness | Allow in-person as per patient preference |
|------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------|---------------------------------|
|                                   | In-person care perceived as better than video         | Need for clinic workflows to adapt to virtual care requirements | Adapt clinic team workflow to support multimodality clinical care |
|                                   | Appeal of ritual of in-person care                   | Management of video-based visit needs should not fall solely on providers | Interdisciplinary collaboration around video visit workflow |
|                                   | Video not always best for patient needs              |                                                                     | |

**Satisfaction with care**

Clinicians felt that video visits were inadequate for certain situations and often scheduled without regard to clinical appropriateness of the modality. Management of chronic condition (eg, hypertension) was given as a specific example that could be appropriate for video, as were dermatological conditions, mental health and non-traumatic single joint pain. Clinical conditions not appropriate for video would include new patient visits, patients with cognitive impairment or new conditions.

**Preferences for care**

Clinicians expressed frustration when video-based care did not align with the patient’s clinical problem. In addition, teams noted a significant need for streamlining the
Open access

Table 3  Patient teaching points before a video visit

| Patient teaching before video visit | At scheduling | In advance of visit | During a visit |
|------------------------------------|--------------|-------------------|----------------|
| Explain when video visit is        | Explain that clinical team will determine appropriateness | Join video platform at least 15 min early | Limit distractions |
| appropriate                        |             |                   |                |
| Prepare for visit as you would an in-person visit | Do not multitask during visit (eg, do not clean house) |                       |
| Prepare for visit as you would an in-person visit |                     |                   |                |
| Give patients a choice             | Give patients a choice | Ensure visual and auditory privacy | Do not drive during video visit |
| Recruit a family member to help    | Recruit a family member to help | Be aware that your provider may at times not be making eye contact while looking at medical record on a second screen | |
| Create a back-up plan              | Create a back-up plan |                       |                |

Figure 2  Clinical support algorithm for incorporation of video visits into primary care workflow.

Clinical algorithm

We identified three key decision points for matching a specific patient to a particular modality for an encounter. First, it is important to determine if the patient and their health concerns are clinically appropriate for video; second, patients need to agree to video modality use; third, patients need to be assessed for readiness for video visits (eg, having accessible technology, adequate technical skills). These decision points seem to be implied in the existing primary care processes, but were not explicit or consistently applied. We combined these decision points into one ready-to-implement algorithm to clearly link the importance of both clinical appropriateness and patient readiness. Initially, the algorithm prompts clinical consideration of the appropriateness of a patient’s current clinical concern for visit modality type (see figure 2). Once a patient situation is deemed clinically appropriate for video-based care, the algorithm then requires a patient’s response regarding interest in video-based care. Note that the algorithm does not specify who is responsible for making this determination. This is because we anticipate that it could be managed by different clinical roles (eg, physician, advanced practice provider, nurse care manager) depending on a given clinic’s resources and capacity. If the patient is interested in a video visit, the algorithm proceeds to incorporate what equipment and technological support are needed in advance of the video appointment. Importantly, it is possible that the provider would determine that an in-person visit is still necessary after a video-based visit, though the expectation and goal would be for this to be rare. Also identified through the integration of patient and clinical team findings were key patient video visit preparation steps (table 3).
DISCUSSION

We identified patient and primary care team experiences with video visits across key dimensions of telehealth access and used our findings to develop a novel algorithm to guide the incorporation of equitable video visits into primary care. Consistent with previous literature, we confirmed that clinicians have concerns about technology malfunction, inadequate technical support, and recognise the importance of having a family or friend available before and during a visit to assist with the patient’s technology.24–26 Our study provides new insight in virtual care use. We found that patients are concerned with quality of video-based care, prefer to have choice of visit modality, and place personal value on in-person experience despite convenience costs.

Our intention was to develop an algorithm that could support equitable access to virtual care; however, we did not identify a consistent pattern about which patients would prefer video-based care. Thus, we incorporated features intended to promote equity in access to video-based care broadly: (1) emphasised the importance of using this algorithm with all patients to avoid implicit bias regarding who may or may not want a video visit and/or need technological support; (2) underscored patient choice regarding visit modality when possible; (3) identified actions to promote optimal patient engagement during a video visit and (4) recognised clinician behaviours that promote trustworthiness and transparency during video-based encounters. One concern raised by some veteran participants was that if a video-based visit was completed and that either the patient or their provider wanted an in-person follow-up visit, that the opportunity for that in-person visit might be lost. In fact, one type of visit does not preclude the other. While clinical encounters that are conducted virtually may later require an in-person evaluation (eg, due to patient preference or change in clinical indication), it is unknown how frequently this is likely to occur. Also unknown is the optimal timing and frequency of an in-person follow-up visit after video-based care. As this has important implications for the patient experience, patient outcomes, and health system resource use, exploration of impact of virtual care on overall healthcare utilisation will be important for future research. In addition, we acknowledge that there are other existing approaches for choosing visit modality.27 However, existing guides generally have not systematically incorporated the patient perspective in visit modality choice.28–29 Our algorithm purposely centres on the patient, as well as on the patient–provider dyad, through careful consideration of a patient’s preferences and their experiences with telehealth, particularly tailored to patients from historically under-resourced populations. This is a population which has traditionally suffered from inequities in access to traditional in-person care and is at risk for similar challenges in accessing video-based care. Our algorithm proactively addresses this risk at a time when video-based care is on a precipitous rise.

We also identified that both patients and clinicians expressed concerns about the impact of video visits on patient–provider relationship and subsequent clinical care quality. In particular, patients expressed misgivings about quality of care received via video. While the importance of patient confidence in virtual care has been previously noted,30–32 our study adds that this may not be true for all types of care or at all points in the care continuum. Similar to patients, clinicians commonly described concerns about the interpersonal quality of virtual clinical interactions, especially around building rapport with new patients33 and loss of body language and social cues.33–35 Strategies to improve the virtual care experience including improving accessibility through access to closed captioning and language interpretation,36 incorporation of trauma-informed care principles such as transparency during visit actions and maintaining good eye contact,35,36 and adequate technology training for patients and clinical teams.36,37 Together with previous findings, our work points to the need for an intentional approach to the implementation of high-quality, equitable, patient-centred video-based care.

This research has limitations. First, our clinical support algorithm was informed by qualitative data from clinical teams in rural North Carolina and Black veterans residing in rural areas. However, it may be applicable to other rural, minority patients using virtual care in other healthcare systems with similar reimbursement pressures. Second, we focused on the context of primary care and, thus, the algorithm may not be relevant to specialty care. For example, specialty clinics typically provide care for individual conditions or organ systems for which it may be easier to predict clinical appropriateness of video-based care. Third, we focused this algorithm on the choice between video-based visits versus care delivered in-person because healthcare system and insurance reimbursement policies have generally favoured video-based care and not phone-based care. We acknowledge that telephone-based care has been recognised as an important modality for maintaining access to care, especially for patients with limited access to broadband services. However, as our work focused on video based versus face-to-face care based on what services were anticipated to remain reimbursable postpandemic, we did not collect data about how and when phone should fit into visit modality decisions. Within the VA healthcare system, there is no differential reimbursement for telephone-based care, video-based care and in-person care. This may limit generalisability of our algorithm into other healthcare systems that may have a financial driver that could usurp patient and/or provider preference. Fourth, the interviewer for both the focus groups and the patient interviews identifies as white, which may have influenced participant willingness to disclose racial discrimination experiences. Our centre has made a focused effort to hire and train diverse qualitative staff since the conclusion of this work. Finally, determinants of access to healthcare expand beyond clinic level policies and actions thus
broader innovation and changes will be required to address access disparities.

CONCLUSIONS

Optimal and equitable incorporation of video visits into primary care delivery requires thoughtful planning and potential reworking of clinic workflow. Assessment of clinical appropriateness of a virtual modality as well as patient preference and technological readiness are crucial before each visit. Next steps for this work include evaluating the feasibility of our algorithm in a primary care practice and validating measures to assess patient interest in video visits. It will be critical to identify determinants of video visit uptake and areas needing adaptation for site specific characteristics. Informed matching of patients and clinical situations to the right visit modality, along with individual patient technology support, could contribute to broader virtual access disparities.

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Contributors

KMG coconceptualised this project, participated in data collection, analysis and interpretation, drafted this work, and serves as guarantor; KRP developed data collection and analysis plan, collected the data, contributed to analysis and edited the manuscript; AL, CW and MSB participated in data collection, developed data collection and analysis plan, and during the COVID-19 pandemic. Teleread J E Health 2021; doi:10.1089/tmj.2021.0412. [Epub ahead of print: 20 Dec 2021].
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