

**PERSPECTIVES** 

## Performing Sensitive Clinical Examinations During Urological Telemedicine Visits: How to Avoid Pitfalls?

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Background and Aims: The impact of coronavirus disease 2019 presented an unprecedented challenge to urological service globally. In many countries, outpatient clinics were cancelled, and the use of telemedicine visits was increased. For urological complaints, the need to perform a sensitive clinical examination via telemedicine posed an unfamiliar environment. Our aim is to explore the clinical and ethical factors involved in performing remote sensitive clinical examinations.

Methods: A comprehensive review of literature and guidance from various medical bodies internationally was conducted using suitable keywords on the search engines of PubMed, SCOPUS, Google Scholar, and Research Gate in the first week of March 2021 including "COVID-19," "telemedicine," "urology," and "sensitive examinations."

Results: Telemedicine reduced unnecessary visits to medical facilities and was useful for reducing the risk of transmission during the COVID-19 pandemic. We propose that in order to perform a sensitive clinical examination via telemedicine, the following four steps must be considered: assessment of the clinical need, obtaining informed consent, use of a chaperone, and thorough documentation.

**Conclusion:** Telemedicine will play a pivotal role in the future of urological practice beyond this present pandemic. However, sensitive clinical examinations using such technology must be performed in appropriate settings and situations. Suitable training, enhanced documentation, communication, and observing information governance guidance will aid in avoiding clinical and ethical pitfalls.

Keywords: telemedicine, sensitive examination, remote examination, urology, COVID-19

#### Introduction

The World Health Organisation (WHO) declared the Coronavirus disease 2019 (COVID-19) a public health emergency on the 11th of March 2020, and the United Kingdom (UK) was one of the most-affected countries in Europe with over 91,000 deaths recorded in January 2021. The National Health Service (NHS) appropriately directed resources to prioritise and strengthen frontline service provision, including the redeployment of staff and the cancellation of routine outpatient clinics and elective surgeries.<sup>2</sup> Globally, urological associations used a risk stratification approach to ensure care for non-oncological surgical procedures was kept to a minimum<sup>3</sup> – Table 1 highlights the various recommendations.

One method of coping with the disruption to urological outpatient clinics was to utilise telemedicine software, which involves the "information technology for the

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Desai et al Dovepress

**Table I** Recommendations for Prioritisation of Non-Oncological Urological Procedures During the COVID-19 Pandemic as Issued by the British Association of Urological Surgeons (BAUS),<sup>4–8</sup> European Association of Urology (EAU),<sup>9</sup> and Urological Society of Australia and New Zealand (USANZ).<sup>10</sup> American College of Surgeons (ACS) Guidelines are Not Included as They Did Not Reference Specific Procedures

	BAUS Guidance (Stages)	EAU Guidance (Priorities)	USANZ Guidance (Urgent Interventions)
Urodynamics	1	Low	Defer
BPH surgery	1	Low	Defer
Other benign conditions (ie varicocele, hydrocele)	1	Low	Defer
Cystoscopy	I	-High (macroscopic haematuria) -Low- Intermediate (F/U without haematuria)	-Follow-up for high-risk -Diagnostic for abnormal radiology or cytology
Removal of a double-J stent	Delay if possible	Low- Intermediate (based on symptoms)	Defer
Calculi management (without infection)	-I (elective URS and PCNL) -3 (URS with stent or ureteric calculi)	Low-High (based on symptoms)	Only if symptomatic

Notes: BAUS stages: I = first cancellation, 3 = last to be cancelled. Abbreviations: F/U, follow-up; URS, ureteroscopy; PCNL, percutaneous nephrolithotomy.

purpose of providing remote health assessments and therapeutic interventions." With the "COVID catalyst," more centers globally started implementing its use in some form, and 80.9% of urologists surveyed in a global study advocated for its continued use for future practice. For instance, a center in the United Kingdom found that the use of telemedicine for real-time remote consultations combined with clinical risk stratification enabled 86% of oncological and 91% of benign urological outpatient activities to be carried out. There are various means of

utilising telemedicine to aid patients – Table 2 highlights some examples.<sup>7</sup>

Telemedicine offers several key benefits for patients with urological presentations.

Firstly, it allowed increased access to care for certain "at-risk" groups in the populations: ie those who are immunocompromised.8 A recent report from a German urological referral centre evaluated 400 patients scheduled for a face-to-face consultation, and their data showed approximately 95% of the patients were at increased risk for a severe outcome of COVID-19 and that 85% of them would have favoured a remote consultation. Furthermore, studies reviewing the efficacy of telemedicine for urological presentations specifically have shown positive results for managing malignancy such as prostate cancer, as well as benign disease such as urinary incontinence, pelvic organ prolapse, uncomplicated urinary stones, and uncomplicated urinary tract infections via remote consultations and a store-and-forward approach. 8-10 Importantly, telemedicine can also be leveraged to reduce health disparities among underserved populations. For instance, it can provide access to healthcare for patients in rural areas. 11

The telemedicine approach to consultations is pragmatic; however, it can become more difficult when a physical examination is required – particularly for urological presentations, where the examination may involve the patient's genital anatomy. Clinical sensitive examination, defined by the General Medical Council (GMC) as that involving digital rectal, vaginal, and genitalia, is a vital component in assessing many urological presentations. Although accomplishing this remotely via video link

Table 2 Examples of Telemedicine Approaches

Types of Telemedicine Approaches	Definition	
Real-time video visits	Live video link between clinician and patient to address a clinical presentation	
Store-and-forward (asynchronous transfer)	Patients share data, ie images or videos, to clinicians who review and treat outside of real-time.	
Remote surveillance	Patient's health and medical data is sent in real-time for monitoring.	
Mobile health	Use of any mobile communications device as well as software applications to support healthcare.	

Dovepress Desai et al

is impossible, there is the option for the patient to allow the clinician to view self-examination.

At present, remote sensitive examinations pose an unfamiliar environment for urologists. There has been no guidance from BAUS, EAU, USANZ, or the American Urological Association with relation to conducting remote sensitive clinical examinations. The aim of this article is to review the guidance provided by various other medical bodies such as the GMC regarding remote examinations and apply this guidance to sensitive urological complaints.

#### **Materials and Methods**

A literature review was performed using PubMed, SCOPUS, Google Scholar, and Research Gate in the first week of March 2021, to identify all recently published papers, studies, and guidance articles related to urological telemedicine. Our search strategy combined the only three Medical Subject Heading (MeSH) terms directly related to our topic "telemedicine," "guidance," and "sensitive examination" with the MeSH term "urologic diseases/therapy" and the keyword "urology." We limited our search to articles published in the last 5 years and those that were written in English. We then augmented the formal literature search by performing manual search engine queries to find articles in the press, presentations, and unpublished abstracts related to urological telemedicine and general regulatory and reimbursement issues.

# **Review of Literature and Discussion**Clinical Need

Prior to initiating any sensitive examination, whether inperson or remote, a urologist must assess the clinical need. This was emphasised by recent GMC guidance, which states that requisite for such an examination must include "providing care" or "reaching a diagnosis." The evaluation of clinical need is left to the clinician's discretion and the ambiguity of this guidance allows each patient to be evaluated on a case-by-case basis. The Australian Health Practitioner Regulation Agency (AHPRA) has advised clinicians to consider whether an additional "direct physical examination" will be necessary following the remote sensitive examination.<sup>13</sup> In such cases, the role of the remote examination will be seen as a triaging tool rather than for diagnostic purposes. A study reviewing the storeand-forward approach as a triaging tool found that between two groups of urologists assessing the severity of haematuria in-person or via photographs sent to them, there was no difference in results for haematuria severity and need for further invasive treatments.<sup>14</sup>

There are also certain situations which exclude the provision of remote sensitive examinations. The Royal College of Surgeons England (RCSEng) toolkit released in response to the pandemic states that they should not be utilised when patients have "high-risk conditions" (predicted mortality of  $\geq 10\%$  using the appropriate specialty risk scoring mechanism), or an internal examination is required, or patients' mental health is unsuitable (eg dementia), or patients are unable to use remote technology to communicate in certain scenarios. <sup>15</sup>

The American Medical Association (AMA) recently released a telehealth playbook which also emphasises the importance of establishing a clinical need prior to commencing any form of remote examination. 16 The guidance focusses on building patient confidence in the service by ensuring clear goals are set out from the start, for example focussing on "few chief complaints that providers agree will be easily resolved by a video visit." The AMA argue that once patients and clinicians become accustomed to having their medical complaints resolved through remote sensitive examinations, the system can then grow the program by continuously adding additional "chief" complaints to the triage. 16 This concept of growing patient confidence has been evidenced by a German study which used telemedicine to discuss treatment options for patients with newly diagnosed prostate cancer. 17 The online tutorial was piloted in 56 patients, and overall patient satisfaction with the tutorial was very high. Following this, the patients were evaluated three months in the future for any further issues related to their cancer, and patients had low decisional conflict (mean DCS 9.6, SD 11), and almost no decisional regret (mean DRS 6.4, SD 9.6), indicating a growing confidence in the telemedicine service. 17

## Obtaining Informed Consent

The GMC and Nursing and Midwifery Council (NMC) advise that to perform a remote sensitive assessment, the patient's clear informed consent is necessary. This is irrespective of whether the plan to conduct such an assessment was initiated by the patient or clinician. The need for informed consent also applies to storing any images or recording live-video assessments. Specifically, the Faculty of Sexual and Reproductive Healthcare (FSRH) state that the decision to store a sensitive image in the patient's clinical record must be "justifiable" and "transparent," with the emphasis on only recording an

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assessment if this is what a clinician would do in a face-to-face assessment.

In terms of specific guidance regarding the process of obtaining informed consent, the GMC gave an overview of key points which should be explained to the patient. Although not specifically for urologists, the guidelines can be adapted to convey that the patient should understand what information will be gained by the patient self-examining or sending an image of the sensitive area, and this should be complemented by explaining to the patient why such an examination cannot be done in-person, ie due to COVID-19 restrictions. Patient should be aware of who is present for the remote sensitive assessment including any chaperones (remote or physical), and of anyone who may be indirectly involved in image/data transfer, ie admin staff, information technology staff involved in data transfer.

Another important component for understanding patient consent for remote sensitive examinations relies on adhering to existing case law in the respective country. In the UK, the GMC's new guidance on consent (principle 4)<sup>21</sup> references "material risks," ie specific consideration must be given for the circumstances, concerns, personality, and idiosyncrasies of each individual patient. From a practical perspective, this means identifying key concerns from each individual patient and providing the option of a face-to-face assessment to all patients, with the appropriate pros and cons (ie delay in clinic appointments due to COVID-19 restrictions, entering secondary care facilities and viral transmission risks).

## Use of Chaperones

The NHS and GMC have clear guidelines for having a chaperone present when undertaking face-to-face physical examinations for sensitive areas of a patient's body.<sup>22</sup> These guidelines are summarised in Box 1.26 A chaperone has two key roles: to ensure the privacy and dignity of the patient and to protect the medical professional. In the context of remote sensitive assessments, the same guidelines apply, and this is irrespective of the gender of the clinician or patient. Prior to any remote sensitive examination and ideally at the time of booking, all patients should routinely be offered a chaperone. In a remote context, this chaperone will likely also be remotely located, and this feature is commonly available in most modern telemedicine software. As per the Royal College of Nursing, staff acting as chaperones must be given suitable training about the role and its requirements, with risk assessments and **Box I** Summary of four key points from the GMC regarding chaperones for sensitive examination.

**Point 1:** For any intimate examination, regardless of means conducted, the patient must be offered the option of having an impartial observer (a chaperone) present wherever possible. This applies regardless of the clinician and the patient being of the same gender.

Point 2: The chaperone should be a health professional that is:

- a. 'sensitive and respect the patient's dignity and confidentiality'.
- b. 'reassures the patient if they show signs of distress or discomfort'.
- c. 'familiar with the procedures involved in a routine intimate examination'.
- d. 'stays for the whole examination and is able to see what the doctor is doing, if practical'.
- e. 'is prepared to raise concerns if they are concerned about the doctor's behaviour or actions'.

**Point 3**: The patient's relative or friend cannot act as a chaperone as they are not 'impartial'.

**Point 4**: The clinician should record any discussion about chaperones and the outcome in the patient's medical record. If the patient does not want a chaperone, it should be recorded that the offer was made and declined, and the next step: i.e. if an examination at a later date was offered when a suitable chaperone available.

**Notes**: Data from General Medical Council. Intimate examinations and chaperones, 2013. Available from: https://www.gmc-uk.org/-/media/documents/maintaining-boundaries-intimate-examinations-and-chaperones\_pdf-58835231.pdf?la=en&hash=A6DCCA363F989E0304D17FBC4ECB9C1060028385.<sup>26</sup>

a Disclosure and Barring Service (DBS) check as standard. Where a patient is offered but does not want a chaperone, it is important that the clinician has recorded that the offer was made and declined. Following this, the clinician should then reschedule the appointment within a reasonable timeframe. Thus, it is essential that a chaperone is present prior to commencing any remote sensitive examination via video-link.

Issues with technology are a common feature of providing medical care remotely. The Royal College of General Practitioners (RCGP) has highlighted that if a chaperone is not in the same room as the clinician (ie they are also working remotely), it is sensible to ensure that they are able to see and hear the consultation adequately prior to starting an examination.<sup>23</sup> It may be helpful to have a plan with the chaperone on how to proceed in the event of problems arising. If a chaperone is requested but not available on the software system, then the urologist should not proceed with the remote examination and determine whether a subsequent appointment should be made, or a face-to-face examination would be more practical based on clinical and logistical urgency established from

Dovepress Desai et al

the patient history. The RCGP stress the importance of documenting such discussions and the decisions in the patient notes.<sup>23</sup>

#### **Documentation**

The GMC is clear in their guidance towards documentation for remote sensitive assessments.24 As a clinician would in a face-to-face assessment, ensure thorough and contemporaneous written patient records are kept. The clinical need for sensitive examinations to be performed remotely must be clearly documented with justification. Importantly, the urologist must always document whether or not a chaperone was offered and declined or present at the consultation. If a chaperone was present, their identity, including designation and the extent of the assessment witnessed, must be documented. Furthermore, persons present for the remote sensitivity assessment include the urologist, patient, and any other parties present from the patient's side. If a sensitive image was sent, it is important to record who took the image, who sent it, and who has seen it from the clinical team. Discussions surrounding capacity, consent, and storage of images or videos must be recorded. The GMC stresses that each discussion should have clear justifications outlined.<sup>24</sup> The age and mental state of the patient should also be recorded as it may be important to ensure a young person or vulnerable adult is kept safe when other clinicians are later involved in the care of the patient and review the sensitive images.

#### Conclusion

The "COVID-19 catalyst" has led to rapid adoption of telemedicine across urological services globally.<sup>25</sup> The experience gained during this pandemic has opened up scenarios never previously considered by many centers, particularly with reference to the interaction between patient and clinician. The benefits of remote assessments extend beyond social distancing restrictions, ie easier and quicker access to clinicians, removing barriers represented by the logistics and costs of travelling to the hospital. However, the disadvantages of telemedicine cannot be entirely overlooked and as evidence shows, remote assessments are limited in effectiveness to a selected group of urological pathologies (ie managing prostate cancer, urinary incontinence, pelvic organ prolapse, uncomplicated urinary stones, and uncomplicated urinary tract infections).8 Ultimately, remote assessments should not undermine the importance of thorough clinical examination, clear communication, and patient safety. As aforementioned,

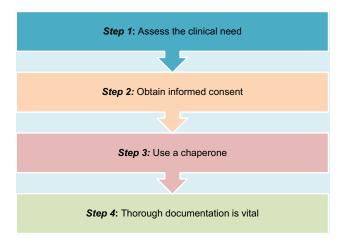


Figure I The four steps to consider prior to conducting a remote sensitive clinical examination.

all clinicians must be able to justify their decision to conduct a remote assessment in the patient's best interests.

In terms of remote assessment for performing sensitive clinical examinations, this article has highlighted key clinical and ethical considerations prior to embarking on this approach. These considerations are summarised in Figure 1. Telemedicine reduces unnecessary visits to medical facilities and is useful for reducing the risk of transmission in the current COVID-19 pandemic. Additional advantages may support the continued use of telemedicine when applicable, even beyond the COVID-19 pandemic.

#### Informed Consent

No patients were used in this study, so consent is not applicable.

#### **Author Contributions**

All authors made a significant contribution to the work reported, whether that is in the conception, study design, execution, acquisition of data, analysis, and interpretation, or in all these areas; took part in drafting, revising, or critically reviewing the article; gave final approval of the version to be published; have agreed on the journal to which the article has been submitted; and agree to be accountable for all aspects of the work.

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#### **Disclosure**

The authors declare that they have no conflicts of interest.

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