

How to care for and communicate with patients digitally

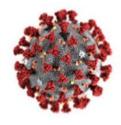
Professor Hilary Pinnock
Usher Institute, University of Edinburgh
GP, Whitstable Medical Practice



How to care for and communicate with patients digitally



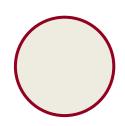
Evidence: Digital communication and remote consultations



The context and reorganisation of care



Practical implications: Maintaining care in a pandemic



The consultation





"Seek information or advice from.."

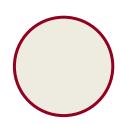
"To take counsel"











The consultation







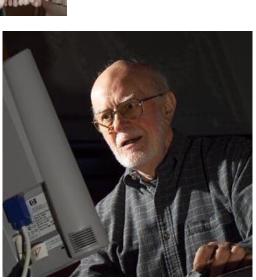
"Seek information or advice from.."

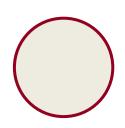
"To take counsel"











The consultation

"This trial proved that it is now possible for a specialist, say, in London, to examine a patient, say, in the country, stethoscopically, and to arrive at a correct diagnosis."



1879: Diagnosis of croup

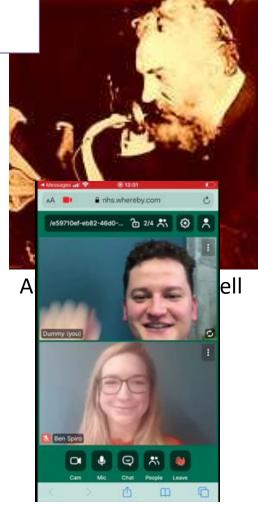
Anonymous. Practice by telephone. Lancet 1879; 29 Nov: 819



Alexander Graham Bell

The World's first camera phone











Evidence: Digital communication and remote consultations



Remote consultations for acute care

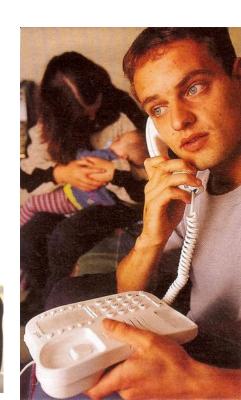


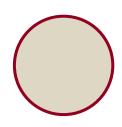
Remote consultations for routine reviews











Remote consultations for acute care



Out of Hours services

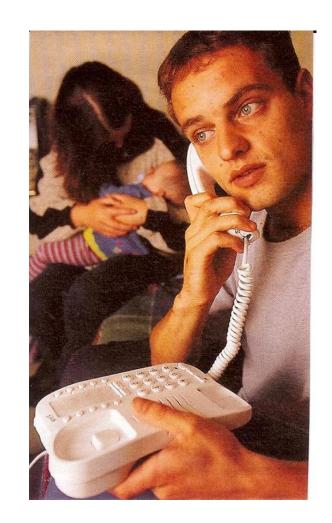
65% calls managed by telephone (UK)

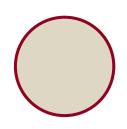
Lattimer et al. OOH service in UK. BMJ 1998; 317: 1504-9

48% calls managed by telephone (Denmark)

Christensen et al. OOH service in Denmark. BMJ 1998; 316: 1502-5

80% calls managed by telephone (US)





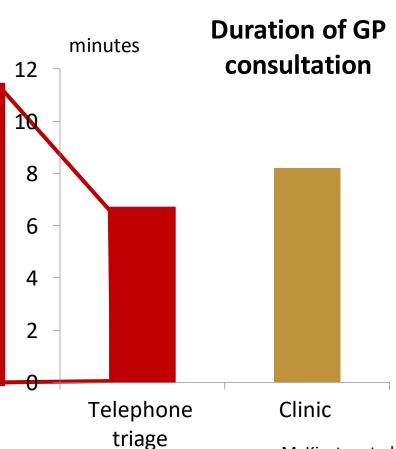
Remote consultations for acute care

Primary care

RCT: 388 patients attending their GP practice for a same day appointment

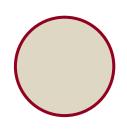
Triage group had more clinic consultations over the next 2 weeks











Remote consultations for acute care

Primary care

Fewer problems / consultation

RIAS

Less data gathering
Less education/counselling
Less rapport building
Less partnership building
Less direction giving

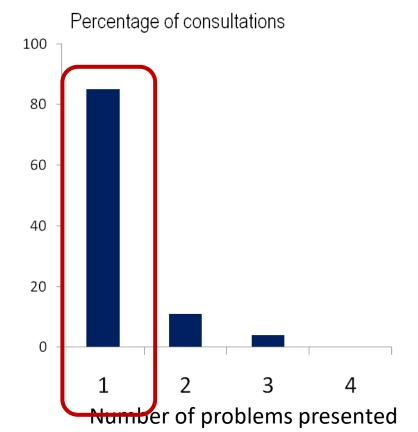


A&E callers

"most studies found the assessment of callers' problems was inadequate"

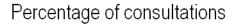


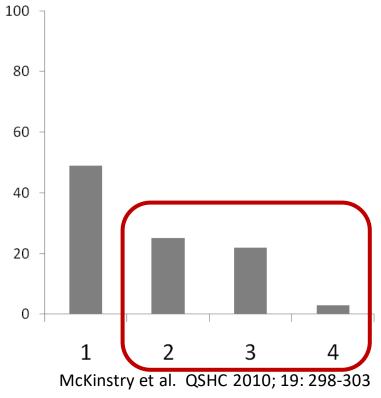
4.6 minutes



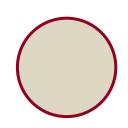


9.7 minutes





Crouch R et al. Nursing Standard 1998; 12: 33-39



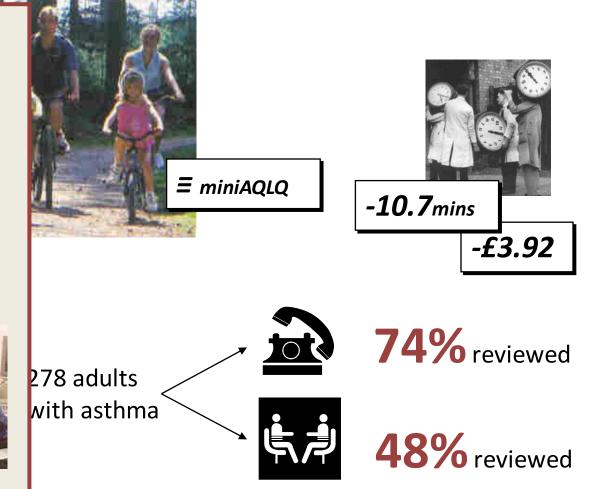
Remote consultations for routine reviews

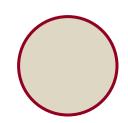
Primary care



"[The telephone is] convenient. If you have a problem with your asthma you make an appointment at the doctors" [29 F]

"A routine telephone check would be reassuring and any questions could be asked. But for specific new symptoms the face-to face meeting is preferred" [78 F]





Dramatic re-organisation of how we deliver care









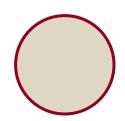
3 centres each with nursing and admin teams

'Respiratory clinics' and spirometry on each site.

X-ray facilities on one site



Mainly face-to-face consultations with telephone option



Dramatic re-organisation of how we deliver care



Safe consulting





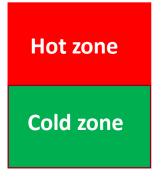
Shielding



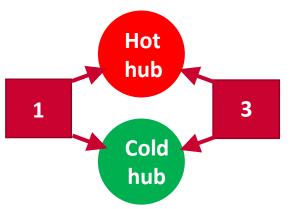




Dramatic re-organisation of how we deliver care



Hot and cold zones within a practice



Hot and cold hubs acting as referrals centres for several practice



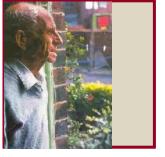
Dedicated home visiting service

"Our hot site [is] where we will only see patients with respiratory symptoms. [...]

Therefore, that has made all our other sites what we call cold sites, where we are not seeing respiratory symptom patients.

So then we minimise that risk for patients who have got non-respiratory type symptoms." (GP, Practice-6)

Turner et al. DOI: https://doi.org/10.21203/rs.3.rs-301281/v1



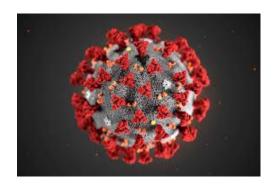
Cough + breathlessness







COVID-19, lung cancer or COPD?



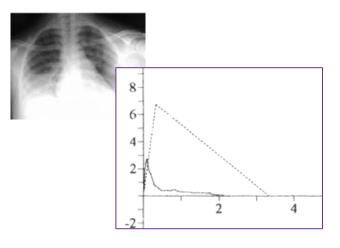
Acute onset of:

- Dry cough
- Breathlessness
- Fever / myalgia / fatigue
- Loss of smell ?Loss of taste
- Contact of COVID-19



Unclear onset of:

- Persistent cough
- Persistent breathlessness
- Fatigue of >4 weeks
- Haemoptysis/weight loss



Acute worsening of

- Cough
- Breathlessness

But remember pneumonia:

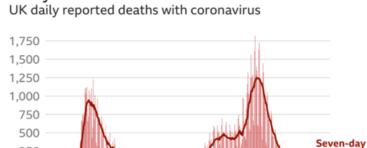
- Green sputum
- Fever, rigors, malaise
- Stabbing pleuritic pain







Remote consultations and maintaining ca



29 Jul

27 Oct 25 Jan

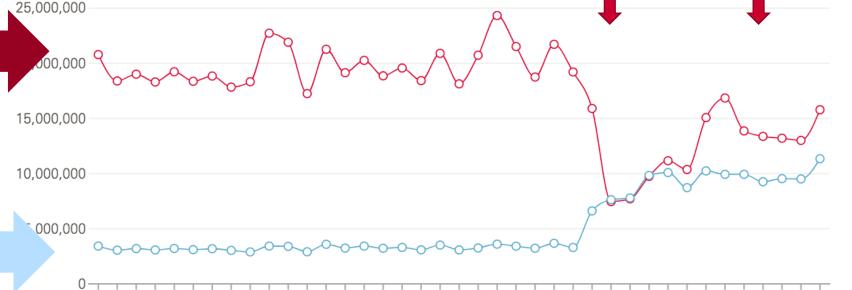
250

31 Jan 30 Apr



Monthly number of face-to-face and telephone appointments

■ Face to face appointments ■ Telephone appointments





The Health Foundation © 2021

Source: NHS Digital, Appointments in General Practice 2021



Remote consultations and maintaining care









'Working from a long screen of lots of telephone calls... ... and having then also removed what many GPs find the most enjoyable part of their job — talking and touching and sensing patients in the room — the day job has become a bit of a hard grind.' (GP, HC20, Round 2)

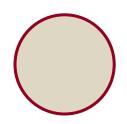






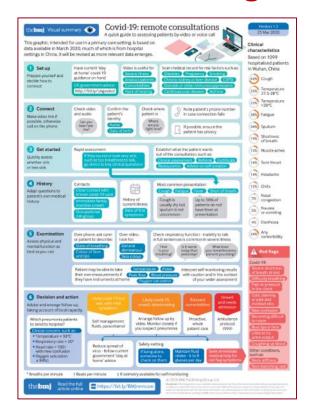


'I hope we'll never go back to just whole mornings of patients booking by themselves....' (GP, HC9, Round 2)



Acute care

Remote consulting in a Covid pandemic







Set up: prepare, background

Connect: check identity

Quickly assess severity/red flags

History

Examination: temp; BP; PF

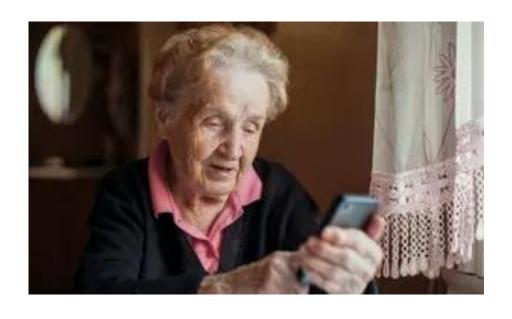
Decision and safety net

How do you assess breathlessness remotely?



Acute care

Remote consulting in a Covid pandemic



- Ask the patient 'How is your breathing today?' (compared to yesterday/last week)
- ? Ask standard questions (MRC Dyspnoea score)?
- Roth score (Time how long how before the patient stops speaking to take a breath)
- Listen to whether the patient sounds breathless when they speak

How do you assess breathlessness remotely?



Video-consulting

* Setting up: Checking the video/audio (unmuting)

Social talk: Greeting, rapport building

Clinical talk: Related to the condition and management.

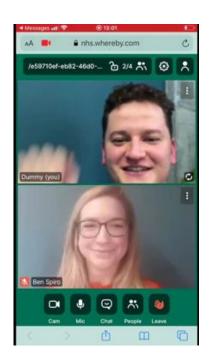
Summarise the key points clearly.

* Operational talk: Instructions (to enable examination)

* Repair talk: Correcting significant disruption

Wherton J, et al. BMJ Leader 2020;0:1-5.







'The [verbal] description doesn't always match up with the clinical picture and being able to actually have a look, that's very helpful'. (GP, HC3, Round 1)



Video-consulting

Checking the video/audio (unmuting) * Setting up:

Social talk: Greeting, rapport building

Clinical talk: Related to the condition and management.

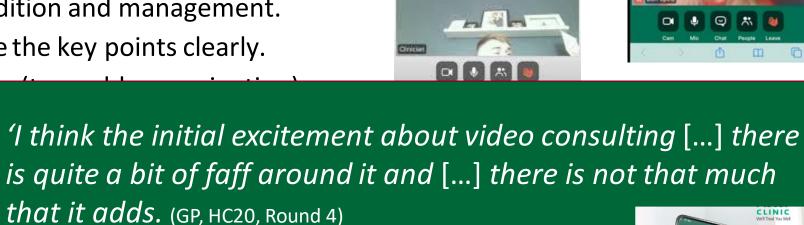
Summarise the key points clearly.

* Operational talk: Instruct

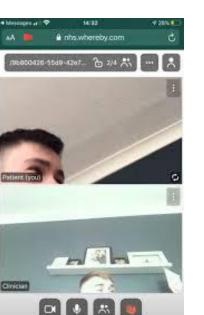
* Repair talk: Correcting signif

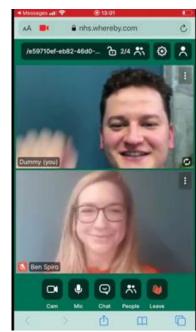
Wherton J, et al. BMJ Leader 2020;0:1-5.





'I kind of thought I would be doing more video by now, but [...] I'm still doing mostly phone. I want to <u>feel</u> more than see, mostly.' (GP, HC8, Round 4)

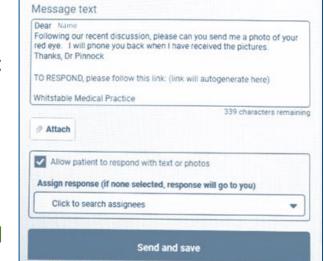






On-line and SMS consulting

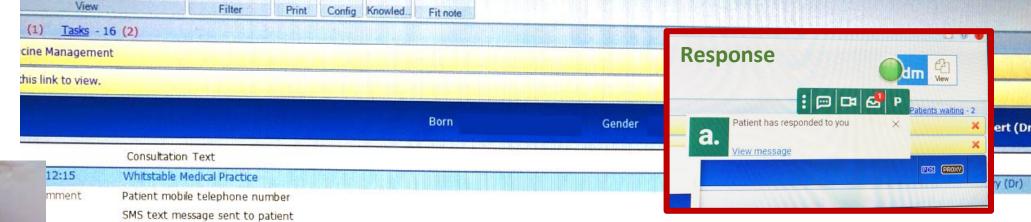
Request





→ Requesting photos





red eye. I will phone you back when I have received the pictures.

Thanks, Dr Pinnock
TO RESPOND, please follow this link: (link will autogenerate here)
Whitstable Medical Practice

Following our recent discussion, please can you send me a photo of

11:56 Telephone consultation (Whitstable Health Centre)
History Telephone encounter Sticky eye started 2 days ago +

Telephone encounter Sticky eye started 2 days ago + a red area on bottom lid. Eye is blood shot. Running ++. Vision is OK, except when eye is watering/sticky.

2021 7 Docman

PCTI, docman (Mr)

PINNOCK, Hilary (Dr)

Location: (unknow



On-line and SMS consulting



- → Requesting photos
- Send links (e.g. to information, clips of inhaler technique)



Adjunct to a remote consultation

300 characters remaining



Dear Name

I have sent XX's prescription to the pharmacy. You may find this website about hay fever helpful (though some of the treatments will be more useful for people older than X https://patient.info/allergies-blood-immune/hay-fever-leaflet.

Thanks, Dr Pinnock

Whitstable Medical Practice





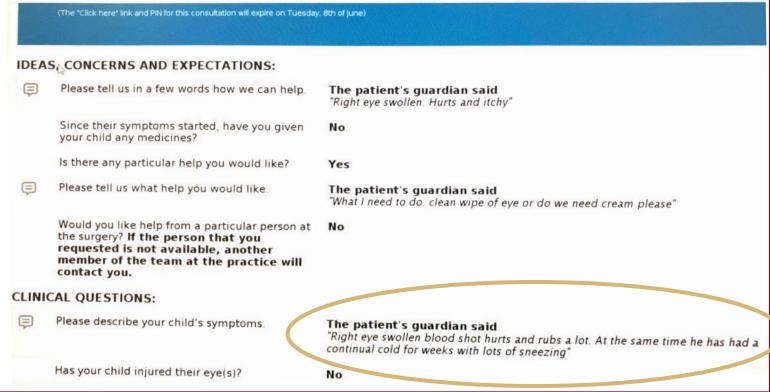
On-line and SMS consulting

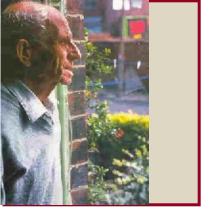


- → Requesting photos
- Send links (e.g. to information, clips of inhaler technique)



On-line consultations



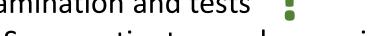


Remote reviews for COPD

Ask about symptoms and how they are affecting ADL

- Use objective scores (MRC, CAT or CCQ)
- Remember depression

Examination and tests



Some patients may have oximeter/FEV₁ meter

Check smoking status (and advise to quit)

Check inhaler technique (Provide links to video clips)



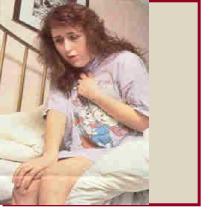
Advise on treatment/discuss adherence



Remember multimorbidity







Remote reviews for asthma

Establish concerns that the patient wants to discuss

Assess control: Use objective scores (ACT or ACQ)

Assess risk of attacks: Previous attacks, SABA use, poor adherence

Discuss triggers; Check smoking status (and advise to quit)

Check inhaler technique (Provide links to video clips)

Discuss adherence

Discuss treatment options

Discuss self-management (Provide an action plan) 🤊





Hamour O, et al. npjPCRM 2020;30:48



Resources

https://www.asthma.org.uk



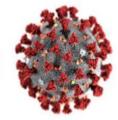
Components of an asthma review https://www.sign.ac.uk/sign-158-british-guideline-on-the-management-of-asthma



Digital communication and remote consultations are options both for delivering acute healthcare and routine reviews of known conditions

Telephone reviews are convenient, and (when offered as an option) are shorter and more focussed

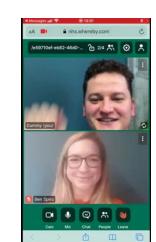




The pandemic dramatically changed the context, promoted organisational change that enabled remote reviews – but removed choice



- Telephone is a known technology which improves access
- Video-consultations offer more features, but are still challenging technically
- SMS has proved a very practical adjunct to remote consultations



Post-COVID a new balance will be struck



How to care for and communicate with patients digitally

Any questions?

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GP, Whitstable Medical Practice

