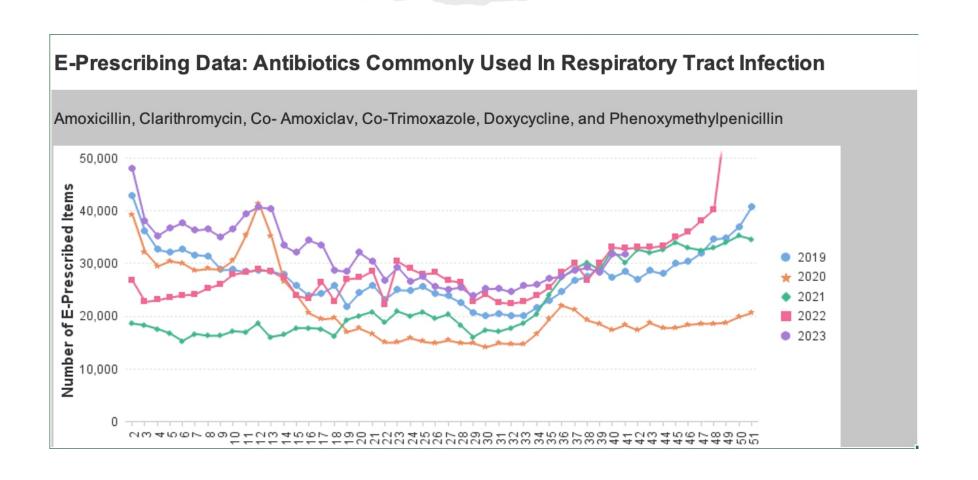
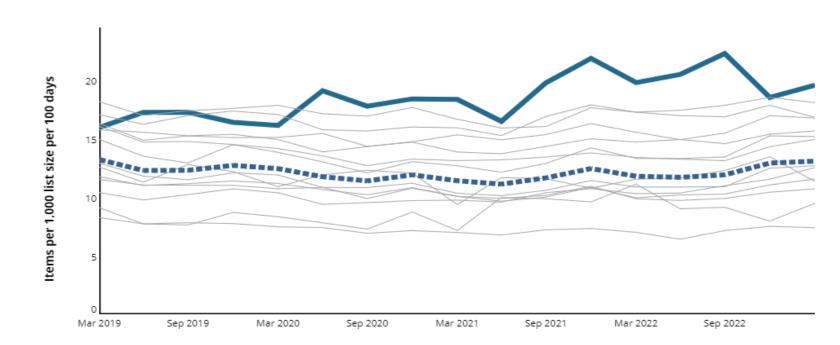


#### Data



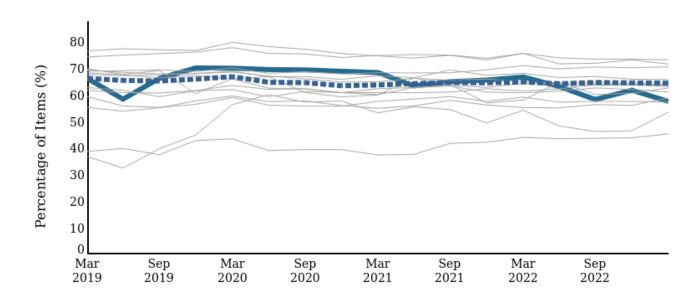
# Shiny Apps

#### Antibiotics: 4C antibiotics script items per 1,000 list size per 100 days



#### Shiny apps: UTI

#### Antibiotics: number of 3-day course of acute UTI antibiotics prescribed to women as a percentage of all acute UTI antibiotic courses prescribed to women



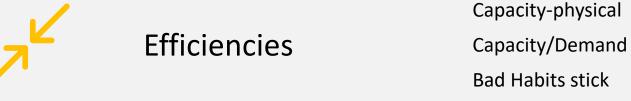
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..... SCOTLAND

Source: Prescribing Information System Scotland, PHS, NSS.

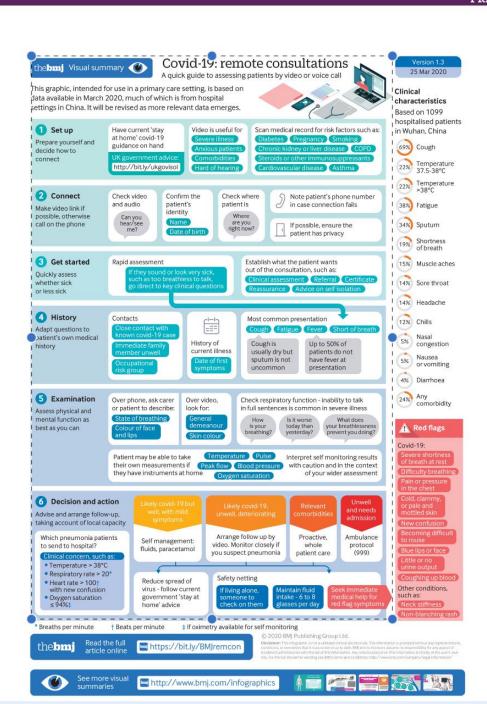
Pre to post pandemic: a rapid journey





# 25 March 2020. Downloaded from http://www.bmj.com/

#### Remote Consultation Tools



#### Evidence and guidance: COVID

High level principles for good practice in remote consultations and prescribing (GMC, GOC, GDC, GPC, NMC etc.-11/19)

- Make patient safety the first priority
- Explain that its not safe (to prescribe) if they don't have sufficient information about the patients health or if remote care is unsuitable to meet their needs

Antibiotic prescribing in remote versus face-to-face consultations for acute respiratory infections in English primary care: An observational study (E.Vestesson et al 2023)

 In adults there was a 23% increase in prescribing antibiotics in remote compared to F2F consultations (no difference in children in this study. (data 2021-2022)

#### Evidence and Guidance: current

NICE QS210: "Acute Respiratory Infection in over 16's: Initial assessment and management including virtual wards"

- QS1: "Adults presenting with suspected acute respiratory infection have a documented assessment of symptoms and signs"
- QS2:"Adults ... are not routinely prescribed antimicrobials based only on remote assessment"

NICE CKS: Acute Bronchitis (update 7/23)

- Do not routinely offer an antibiotic to treat an acute cough Acute bronchitis is usually a self-limiting illness and the cough usually lasts about three to four weeks)
- If a C-reactive protein (CRP) test has been carried out, use the results to guide antibiotic prescribing as follows:
- ullet CRP less than 20 mg/L do not routinely offer antibiotics.
- CRP 20–100 mg/L consider a delayed antibiotic prescription.
- ullet CRP greater than 100 mg/L offer antibiotic therapy.

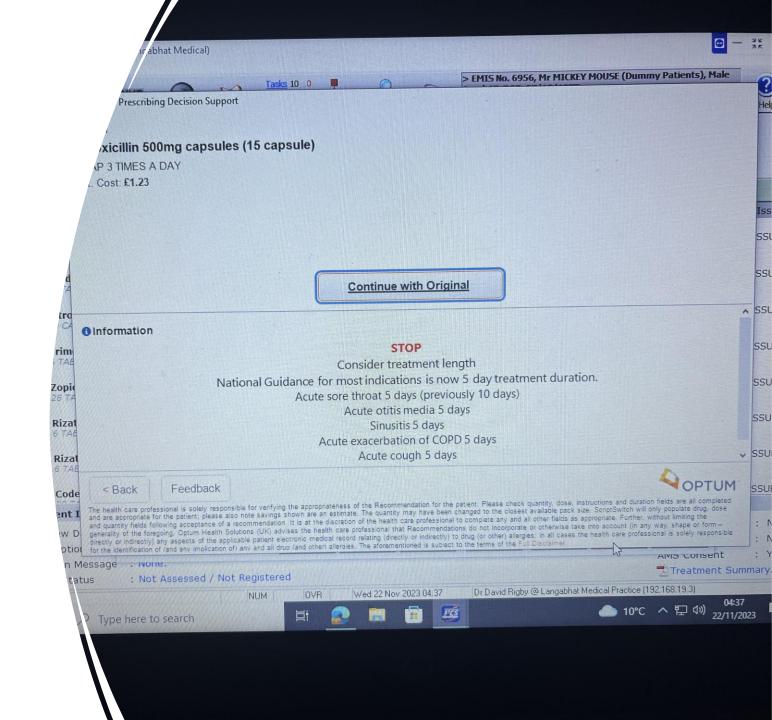


#### Remote Consultation \

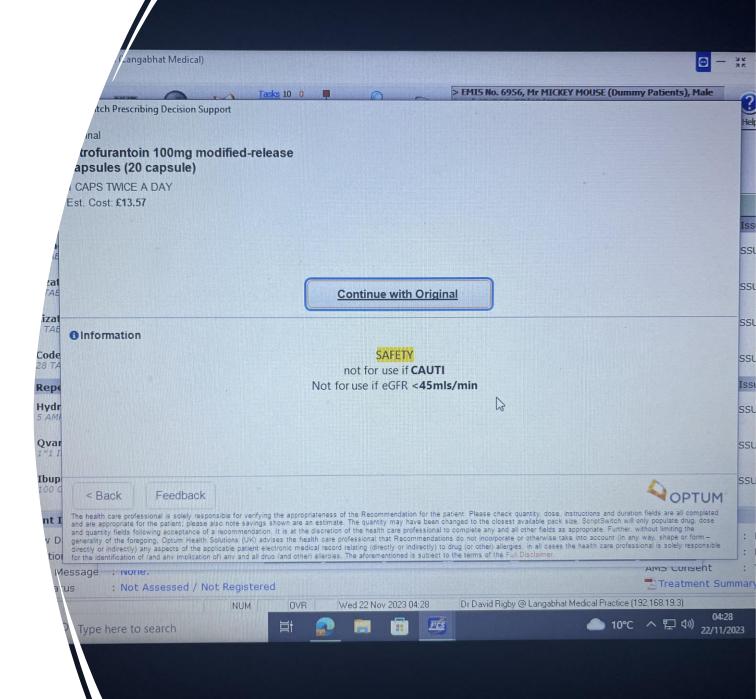
- Pulse Ox
- Electronic BP machines
- Thermometer

# What helps? Scriptswitch

- Set at HB level
- Local adaptation
- National guidance
- Easy to stop start for effect
- Avoid overload
- Cost or Quality



#### What Helps? Scriptswitch



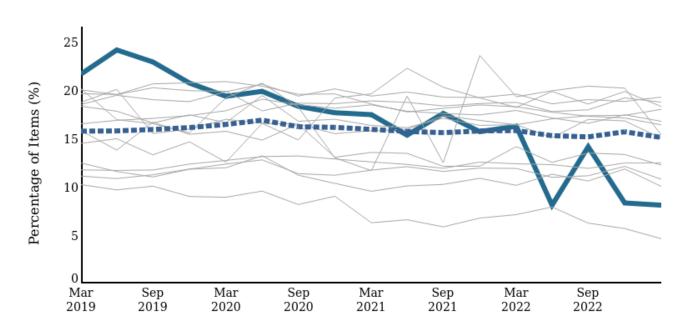
### What helps? HB formulary

#### **Indications for Co-Amoxiclay and Ciprofloxacin**

Condition	Indication	Co-Amox	Cipro	Clinical Notes
Respiratory	Acute Cough	N	N	Often nil needed: If CRP available- nil if <20 for 24 hrs, delayed if 20-100, treat if >100 (Amox 500tds or
	Bronchitis			Doxy 200 stat then 100 od 5/7)
	Acute	N*	N	Usually no treatment. NNT 15 or 8 if purulent nasal discharge. If Rx use Pen V 500qid, Amox 500-1g tds,
	Rhinosinusitis			or Doxy 200mg stat then 100. *Co-amox 625mg tds if severe/worsening
	Sore Throat	N	N	Avoid as 90% self-resolve in a week. If decision to treat use Pen V 500qid or Clarithromycin 500bd (if Penicillin allergy)
	Aspiration	N	N	If indicated (mild/moderate) use Metronidazole 400mg tds and Amoxicillin 500mg tds (if Penicillin
	Pneumonia			allergy use Metronidazole 400mg tds and Clarithromycin 500mg bd). If severe needs IV metronidazole/gent/amox- admit
	Community	N	N	For mild/moderate use Amoxicillin 500mg tds (if Penicillin allergy use Doxycycline 200mg stat then
	Acquired			100mg od).
	Pneumonia			For moderate use Amoxicillin 500mg tds AND Doxycycline 100mg bd)
	COPD	N*	N	If purulent spit use Amoxicillin 500mg tds or Doxycycline 200mg stat then 100mg od, or Clarithromycin
	exacerbation			500mg bd. Only if severe/not responding, use Co-Amoxiclav 625 tds
GU/UTI	Epididymitis/Prost	N	Υ	Epididymitis: <35(check SIT) Doxycycline 100mg bd 14/7, >35 Cefalexin 500mgtds, or Trimethoprim
	atitis			200mg bd, or Ciprofloxacin 500mg bd 14/7.
				Prostatitis: Trimethoprim 200mg bd or Ciprofloxacin 500mg bd 14/7
	Upper UTI and	Υ	Υ	Catheterised: Send sample if for treatment with symptoms (rigors/central low back tenderness, new
	Catheterised			confusion), commence treatment only if clinically unwell and then change catheter. Don't use dipstick
	Patients			results in catheterised patients.
				Co-Amoxiclav 625 tds or Ciprofloxacin 500mg bd 7/7.
	Lower	N	N	Treat 3 days in women, 7 days in men. Many options in women if want to trial non antibiotic methods.
				Trimethoprim 200mg bd, or Nitrofurantoin MR 100mg bd, or Cefalexin 500mg tds
Skin and	Cellulitis	N	N	Mild to Moderate use Flucloxacillin 500mg-1g qid for 7-14/7. If Penicillin allergy use Doxycycline 100mg
Soft Tissue				bd for 7-14/7. If penetrating/dirty wound add Metronidazole 400mg tds.
	Bites	Υ	N	Co-amoxiclav 625 tds 7/7, if Penicillin allergy use Metronidazole 400mg tds AND Doxycycline 100mg bd 7/7
	Diabetic Foot	N	N	Mild use Flucloxacillin 1g qid 7/7 or if Penicillin allergy use Doxycycline 100mg bd 7/7. Add
				Metronidazole if Moderate. Clindamycin 600mg tds is an alternative in Moderate (Caution 'C' drug).
				All other degrees seek help
Dental	Abscess	N	N	Refer dental if pus/concern: Pen V 500mg-1g qid 5/7 (or Amoxicillin 500mg tds if compliance concern),
				or if Penicillin allergy Clarithromycin 500mg bd. Add Metronidazole if spreading infection.

#### Antimicrobial Wound Products: Antimicrobial wound products as percentage of total wound products (items)

What helps? HB Formulary/Centralisation



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Source: Prescribing Information System Scotland, PHS, NSS.



## What helps? Summary

LOTS OF THINGS IN THE RIGHT QUANTITY/PLACE/TIME

Scriptswitch

Targeted Data

POC

Audit

Cluster QI work

Etc.....

