

Navigating antimicrobial stewardship for new and early career prescribers

Wednesday, 29 January 2024 18:30-19:30



TARGET Introductions: TARGET and RCGP



Dr Donna Lecky



Julie Brooke



Emily Cooper



Liam Clayton



Catherine Hayes



Joseph Besford



Ming Lee





Emily Whitehorne



Camilla Stevenson Dr Dharini Shanmugabavan



TARGET Introductions: Speakers and panellist











Dr Haroon Ahmed GP, Rumney Primary Care Centre Clinical Reader at Cardiff University

Speaker and panellist

Dr Linda Strettle GP Partner, The Village Surgery, Rotherham

Speaker and Panellist

Dr Graham Duce GP Partner, Park Green Surgery, Macclesfield

Panellist

Raje Dhillon **Consultant Microbiologist** and AMS lead University Hospitals Bristol and Weston NHS **Panellist**

Dr Toyosi Adeniji GP Partner in Northampton, **RCGP National First 5 Chair**

Panellist



• Discuss the burden and consequences of antimicrobial resistance (AMR) for primary care.

 Understand the importance of antimicrobial stewardship activities in your practice or setting.

 Implement and evaluate a cycle of antimicrobial stewardship activities.



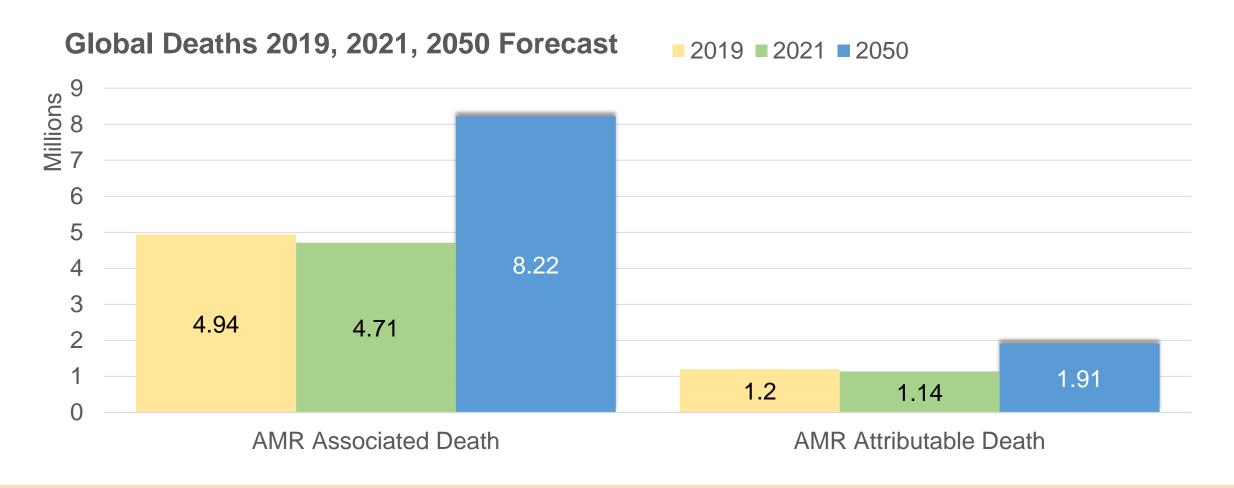


Navigating antimicrobial stewardship for new and early career prescribers

Dr Haroon Ahmed
GP, Rumney Primary Care Centre
Clinical Reader at Cardiff University

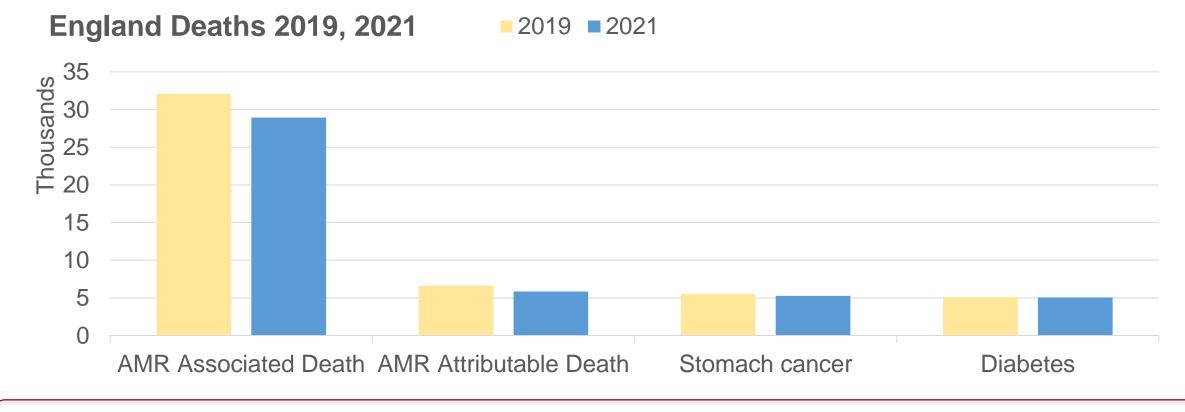


TARGET Scale of the problem





Scale of the problem

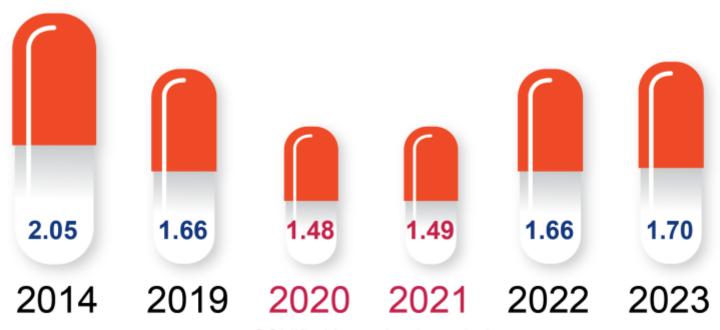


It costs the NHS at least £180 million every year to cope with the level of resistant infections we have



TARGET Prescribing in primary care

Antibiotic consumption in primary care increased in 2023



COVID-19 pandemic period

(Items per 1,000 inhabitants per day)

UKHSA ESPAUR Report 2023-24





AMS deprioritised to keep general practice operational



New AMS initiatives deferred Disruptions to AMS activities



Social distancing resulted in less face-to-face engagement



- Increased difficulty in conducting routine AMS activities
- Harder to challenge prescribing



Increase in remote consultations



Prescribers more cautious, overprescribing to reduce risk of hospitalisation

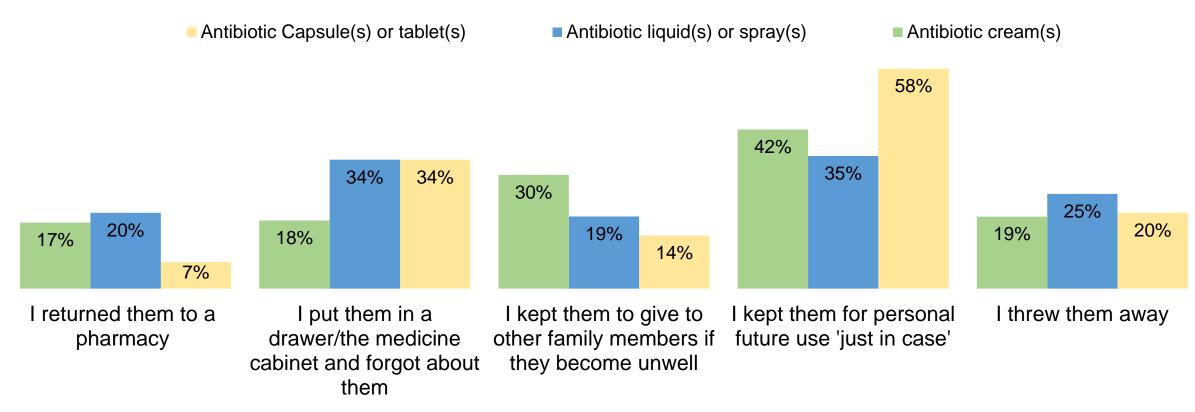
Risk of resistance after prescribing Keep Antibiotics Working antibiotics

Meta analysis of antibiotic resistance in individuals prescribed antibiotics in primary care

	Increased risk of resistant organism		
	Antibiotic in past 2 months	Antibiotic in past 12 months	
RTI 7 studies, n=2,605	2.4 times	2.4 times	
UTI 5 studies, n=14,348	2.5 times	1.33 times	



What did patients do with leftover Keep Antibiotics Working antibiotics?



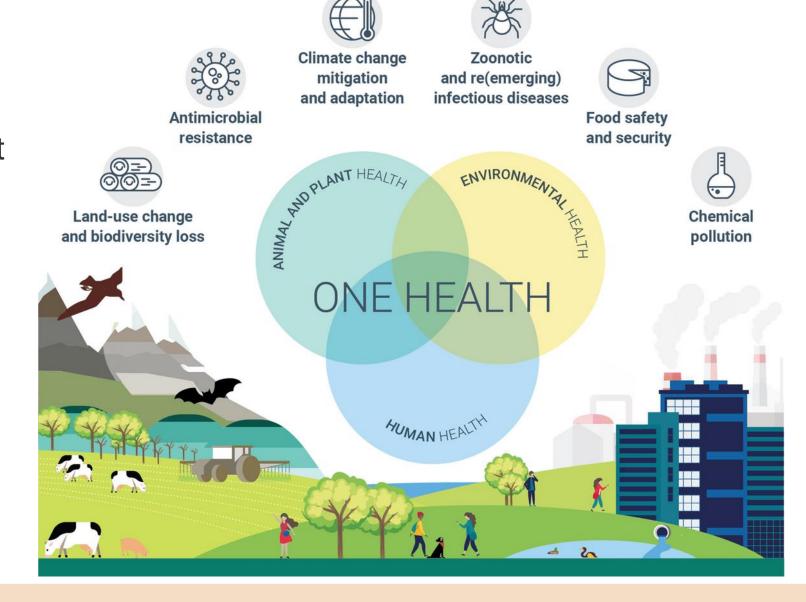
Base: All England participants who had the following antibiotics left over: Antibiotic capsule(s)/tablet(s):390, Antibiotic liquid(s) or spray(s):270, Antibiotic cream(s):142, fieldwork conducted online 15-27 March 2024



A multi-sectoral approach that aims to balance and optimise the health of people, animals, plants, and their shared environment, recognising their interconnection.



Leftover antibiotics





AMS in your practice

Antimicrobial stewardship (AMS)

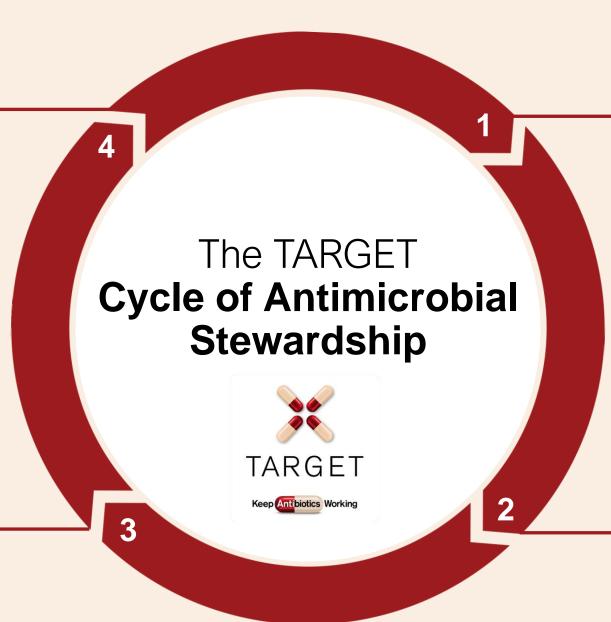
Healthcare system-wide approach to promoting and monitoring judicious use of antimicrobials to preserve their future effectiveness.

Examples: commitment to prioritise AMR, monitoring antimicrobial use, changing prescribing behaviour, antibiotic sparing



Assess the impact on antimicrobial prescribing

Self-assessment toolkits, audit templates, local and national prescribing data can all support the review process





Regularly measure antimicrobial prescribing and actions plans

Use findings to identify areas for improvement in infection management and antimicrobial prescribing



Act

Take proactive steps to enhance stewardship

A practice-wide approach is recommended. Consider using tools across the patient journey, such as triaging, posters, patient information leaflets and medication reviews





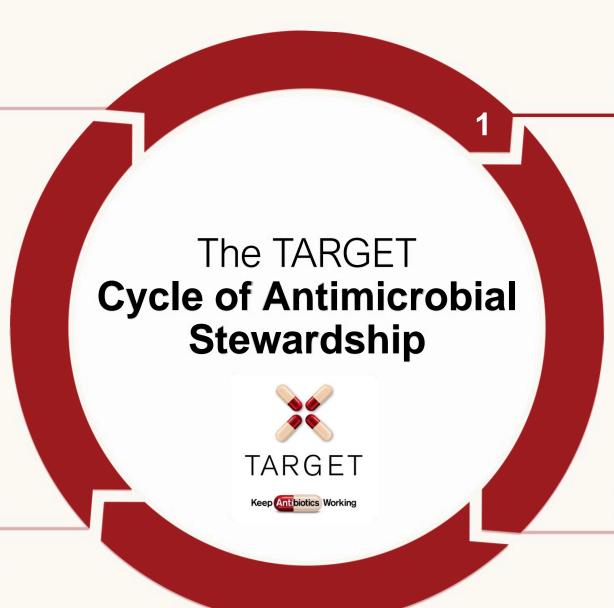
Stay informed on the latest evidence, refresh knowledge on area identified for improvement

Review national and local guidance, interactive training tools, webinars, eLearning courses and podcasts



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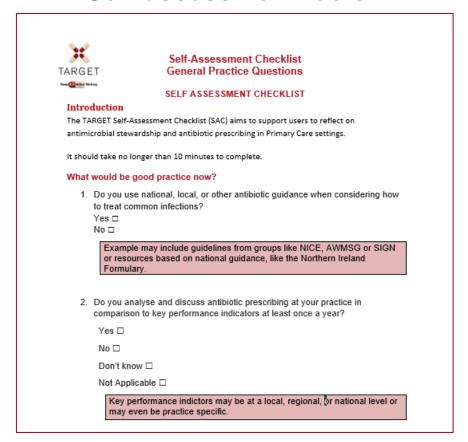


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Self-assessment tools



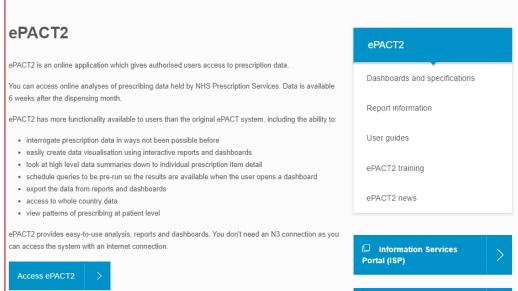
*Digital version will be published Spring 2025

Benchmarking

ePACT2

- Register with ePACT2
- Dashboards
- Prescribing reports
- Customised for your ICB/practice

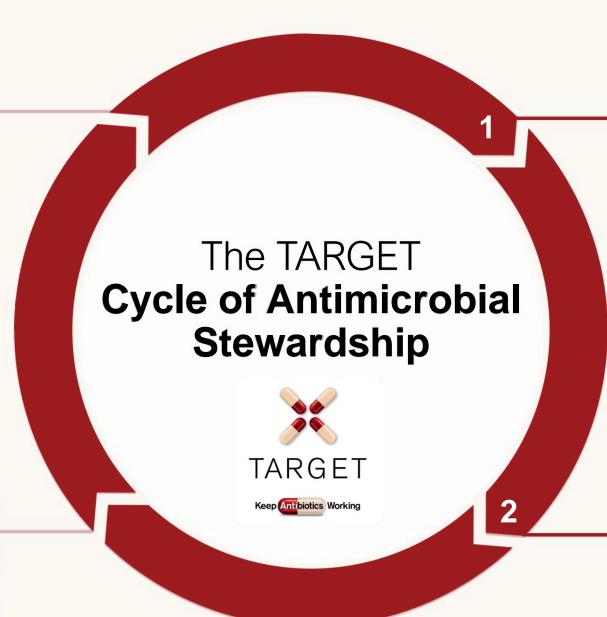
https://www.nhsbsa.nhs.uk/access-our-data-products/epact2





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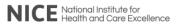




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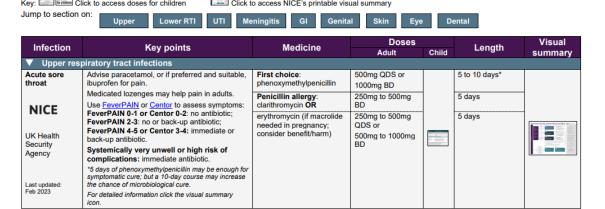






Summary of antimicrobial prescribing guidance - managing common infections

- See the <u>British National Formulary (BNF)</u> for appropriate use and dosing in specific populations, for example, hepatic impairment, renal impairment, pregnancy and breastfeeding.
- . See the TARGET antibiotics toolkit Summary of antimicrobial guidance page for accessible text summaries of the tables and links to full guidance.



Summary of antimicrobial prescribing guidance – managing common infections (December 2024)



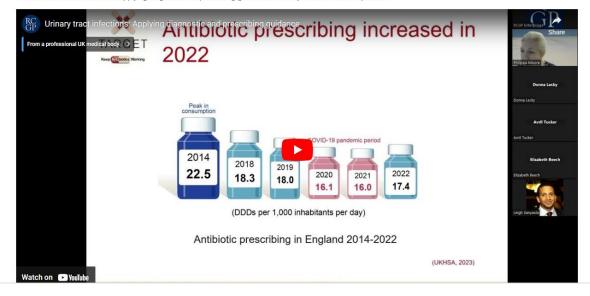
Webinars

Contents - click to view webinar list

Please note the content of these webinars are accurate at the time of the event and are not reviewed for changes to guidance. Our clinical scenario slides are subject to evidence reviews and updated.

Management of urinary tract infections

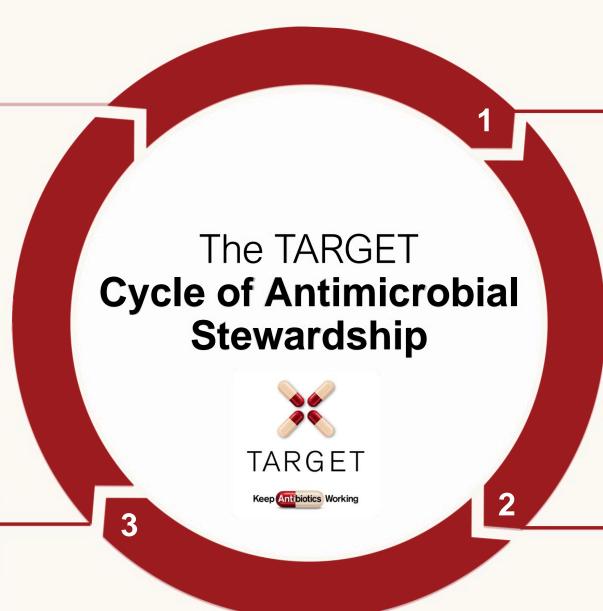
RCGP/UKHSA TARGET webinar: Applying diagnostic and prescribing guidance of urinary tract infections in practice





Assess the impact on antimicrobial prescribing

Self-assessment toolkits, audit templates, local and national prescribing data can all support the review process





Regularly measure antimicrobial prescribing and <u>actions plans</u>

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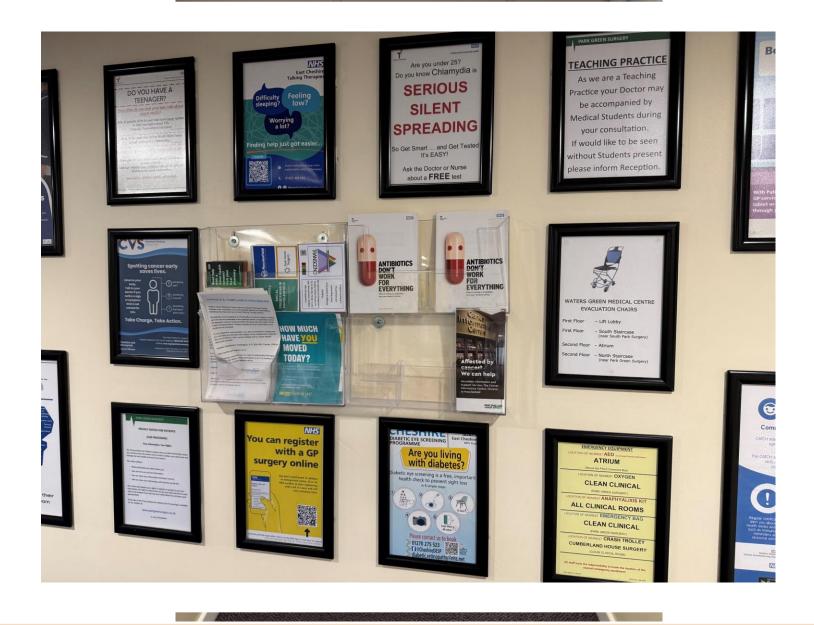
Stay informed on the latest evidence, refresh knowledge on area identified for improvement

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Posters

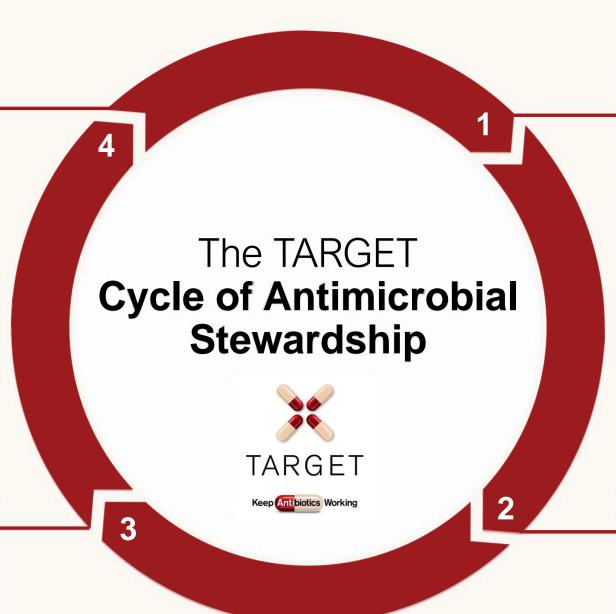






Assess the impact on antimicrobial prescribing

Self-assessment toolkits, <u>audit</u>
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<u>prescribing data</u> can all support the
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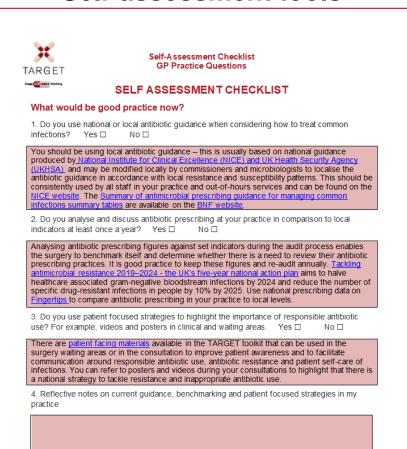


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Self-assessment tools



Audits



"4Cs" Antibiotic Audit: Cephalosporins, Co-amoxiclav, Fluoroquinolones and Clindamycin

Audit aims and rationale

Determine and reflect on:

- When and why you prescribe broad-spectrum antibiotics: cephalosporins (e.g. cefalexin), co-amoxiclav, fluoroquinolones (e.g. ciprofloxacin, levofloxacin, moxifloxacin, ofloxacin) and clindamycin.
- 2. Whether 4Cs use is in line with national/local antimicrobial guidance.
- An action plan to ensure appropriate prescribing of the 4Cs.

Use of data

PrescQIPP

OpenPrescribing

Fingertips

ePACT2

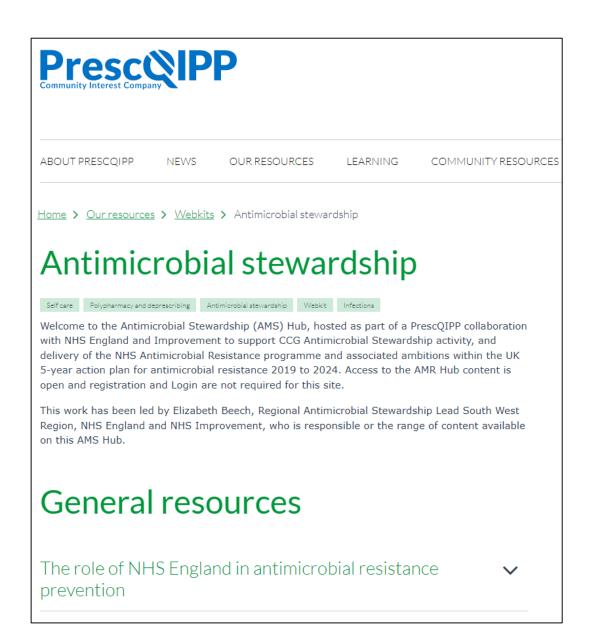
PrescQIPP

PrescQIPP (NHS funded)

PrescQIPP

- AMS hub free to access
- Evidence based resources and tools for primary care commissioners
- Platform to share innovation

https://www.prescqipp.info/ourresources/webkits/antimicrobial -stewardship/



Fingertips

Fingertips (produced by UKHSA)

Public Health profiles/Fingertips

- Open access
- Browse indicators at different geographical levels
- Benchmark against the regional or England average
- Export data to use locally fingertips.phe.org.uk/

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Public
Fingertips is a la
Highlighte
Cardiovascular [Disease
Child and Mater
Mental Health, [
National p
AMR local indica
Atlas of Variation
Cancer Services
Cardiovascular [Disease
Child and Mater
Health Protection
Inequality Tools

for Health

Fingertips | Public health data Guidance API Contact us Your data ▼

Q Search for indicators

health profiles

arge public health data collection. Data is organised into themed profiles. Start by choosing a profile from the list.

ed profiles

Disease, Diabetes and Kidney

rnal Health

Dementia and Neurology

National General Practice Profiles

Productive Healthy Ageing Profile

Public Health Outcomes Framework

public health profiles

ators - produced by the UKHSA

Disease, Diabetes and Kidney

rnal Health

on

Inhale - INteractive Health Atlas of Lung

conditions in England

Learning Disability Profiles

Liver Disease Profiles

Local Alcohol Profiles for England

Local Authority Health Profiles

Mental Health, Dementia and Neurology

Modelled Prevalence Estimates

Mortality Profile

Musculoskeletal Conditions

National General Practice Profiles

NHS Health Check

Obesity Profile

Palliative and End of Life Care Profiles

Physical Activity

Productive Healthy Ageing Profile

Public Health Dashboard

Public Health Outcomes Framework

Sexual and Reproductive Health Profiles

TB Strategy Monitoring Indicators

Latest news

October 2022

STI and HIV indicators in the Sexual and Reproductive Health Profiles updated, including new and modified indicators

September 2022

ONS 2021 population estimates are delayed to enable their alignment with Census results. This delay will have an impact on the publication of indicators which use populations either directly or in their denominators (compare Impact of Census 2021)

June 2022

Integrated Care Boards (ICBs): new geography type added to GP profiles

March 2022

Child and Maternal Health updated

February 2022

PHOF: quarterly update published

December 2021

HIV indicators updated in time for 1st Dec, World AIDS day

Cancer Services: annual update released



TARGET TARGET Toolkit

TARGET

Treat

Antibiotics

Responsibly

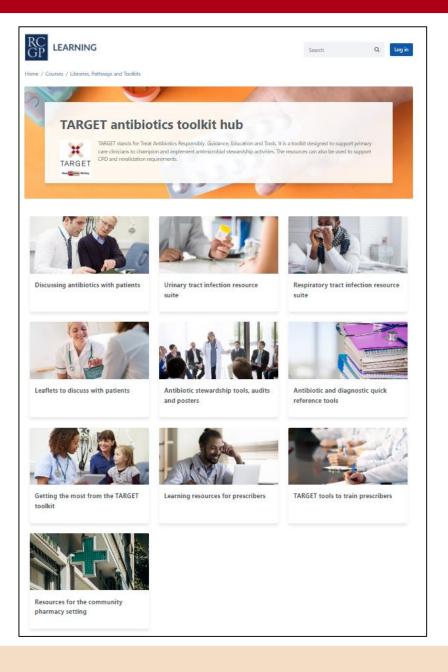
Guidance,

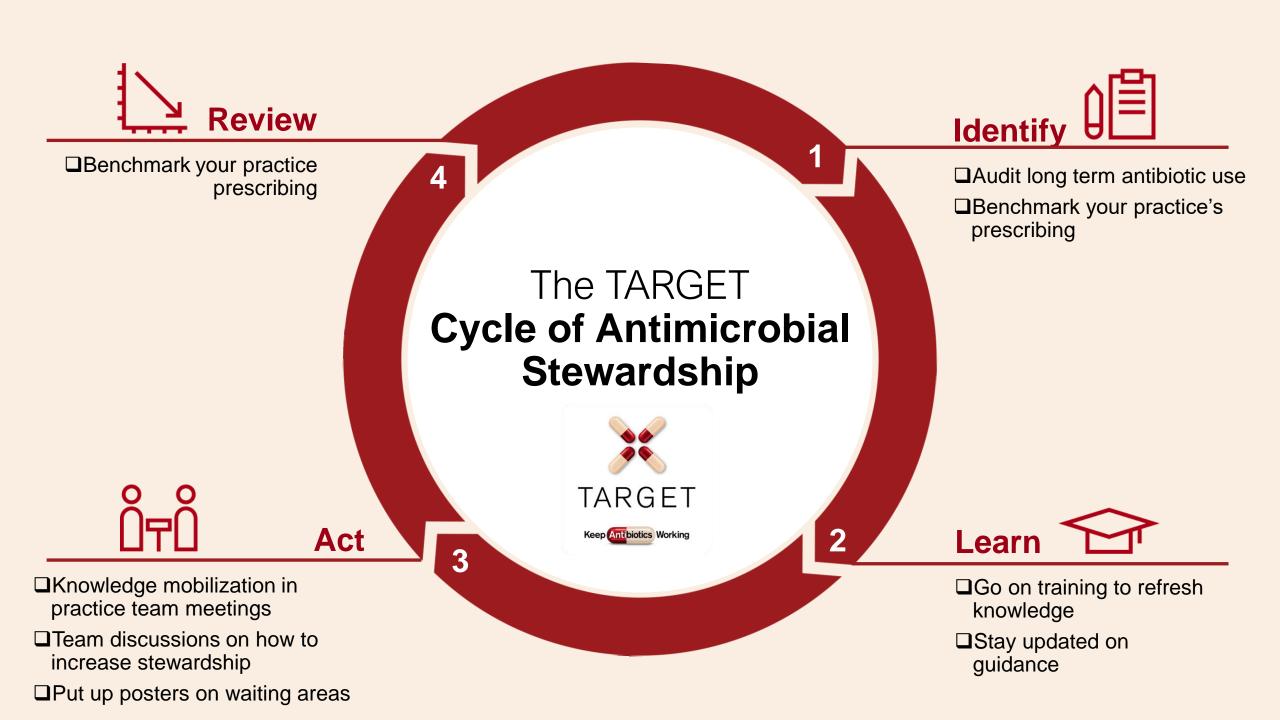
Education and

Tools

Hosted on the RCGP website, FREE to use

- ✓ Summary of antimicrobial guidance
- ✓ Leaflets to discuss with patients (translated to 25 languages)
- ✓ Learning resources



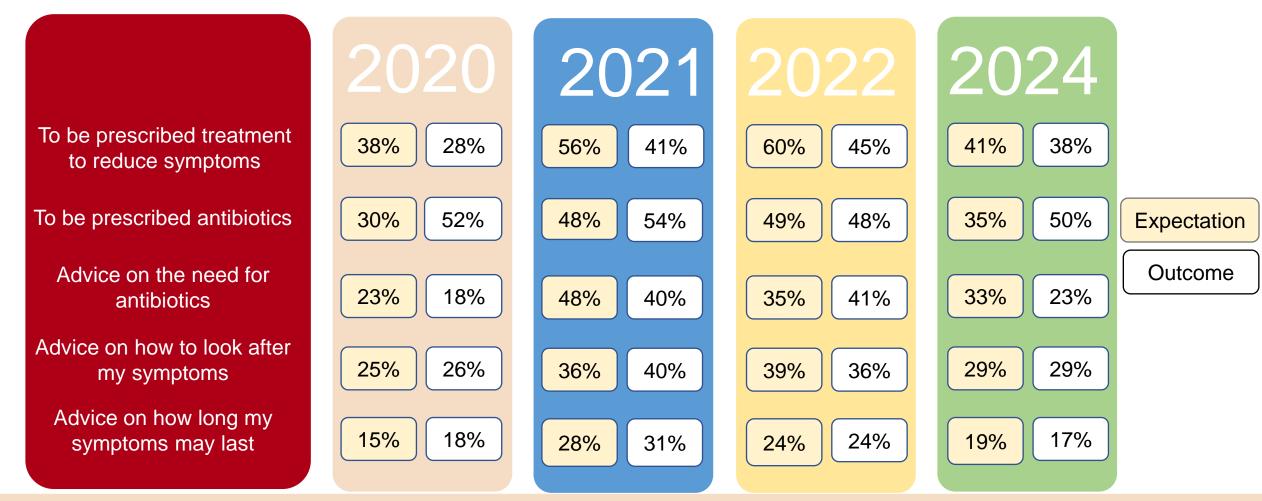




Challenges you may face

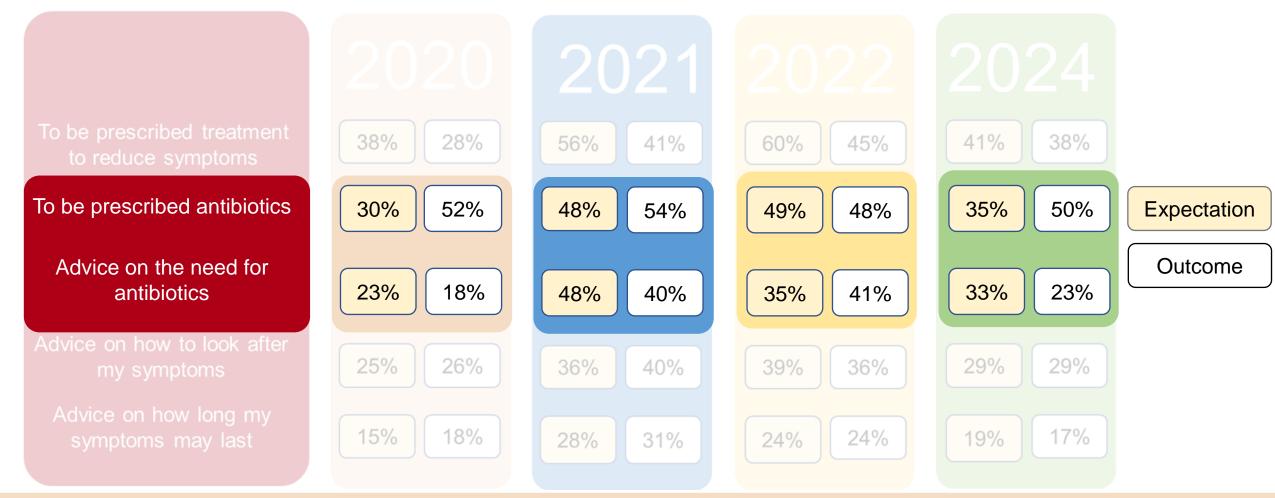


Navigating challenging consultations: Patient expectations





Navigating challenging consultations: Patient expectations





Navigating challenging consultations: TARGET Patient expectations

C: Ask specifically about concerns	'What are the things you are most worried about?'	
H: Discuss history and exam	While doing an examination provide 'no problem' commentary 'Your heart rate is normal, your temperature isn't raised'	
E: Ask specifically about expectations	How do you think I could most help you today?' or 'How do you feel about antibiotics?'	
S: Provide non-serious explanation for symptoms	'Your body produces phlegm as a normal reaction to inflammation in your airways. The phlegm catches particles and helps keep your lungs clear.'	
T : Be specific about illness timeline /usual course	'A typical cough can take 3-4 weeks to clear completely.'	
S: Explain shortcomings of antibiotics	Antibiotics don't help with pain but side effects, such as diarrhoea, nausea and rash, can be experienced by up to 1 in 10 people.'	
S: Self-care advice	'Pain in the chest or throat is normal due to inflammation, you can take paracetamol, and/or ibuprofen, which will help the pain and soothe the inflammation.'	
S: Safety-netting advice	Provide patients with specific information on red-flag symptoms and when they should seek further help	



Navigating challenging consultations: TARGET Patient expectations

C: Ask specifically about concerns	'What are the things you are most worried about?'	
H: Discuss history and exam	While dc 'Your he' First 5 min of the	
E: Ask specifically about expectations	How do consultation	biotics?'
S: Provide non-serious explanation for	'Your bouy produces prinegin as a normal reaction to initialiniation in your anways catches particles and helps keep your lungs clear.'	. The phlegm
symptoms	catorios partiolos ana noipe Roop your lange cicar.	
T: Be specific about illness timeline/usual course	'A typical cough can take 3-4 weeks to clear completely.'	
T: Be specific about illness timeline/usual	'A typical cough can take 3-4 weeks to clear completely.' Antibiotic Covered in the patient experier	sh, can be
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Timelines

Safety-netting

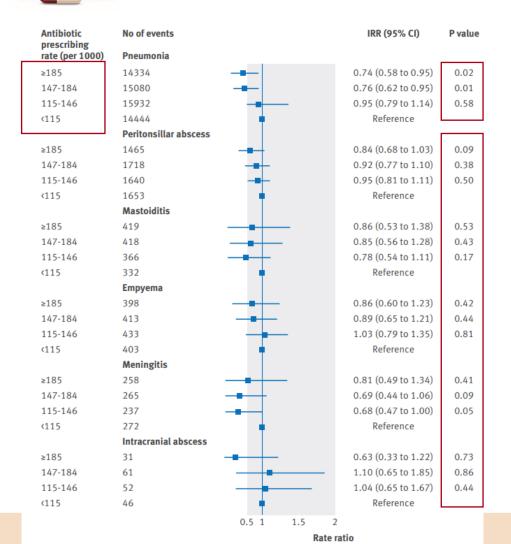
Self-care

112

Side effects



Navigating challenging consultations: TARGET Worry of complications



Estimated that in a practice with ~7,000 patients, a 10% reduction in antibiotic prescribing for RTI might expect:

- 1 additional peritonsillar abscess each 10 years
- 1 additional pneumonia each year



To reduce

 Careful c targeting using dia

Self-care

- Back-up/
- Safety ne leaflets

TREATING YOUR

RESPIRATORY TRACT INFECTION (RTI)



Safety-netting

Timelines

Your infection Most are better by

Middle-ear infection
Sore throat
Sinusitis
Common cold
Cough or bronchitis
7 to 8 days
14 to 21 days
14 days
3 to 4 weeks

How to look after yourself and your family

Days

Have plenty of rest

Other infection

- Drink enough fluids to avoid feeling thirsty
- Ask your local pharmacist to recommend medicines to help reduce your symptoms or pain (or both)
- Fever is a sign your body is fighting the infection.
 It usually gets better by itself in most cases. You can use paracetamol if you (or your
- child) are uncomfortable because of a fever
- Use a tissue to cover coughs and sneezes and wash your hands with soap to help prevent spreading infection to your family, friends and other people

Never share antibiotics and always return any unused antibiotics to a pharmacy for them to dispose of safely.

When to get help

If any of the below apply to you or your child, get an urgent assessment from a healthcare professional. If your child is under the age of 5, go to A&E immediately or call 999.

- Your skin is very cold or has a strange colour, or you develop an unusual rash
- You have new feelings of confusion or drowsiness or have slurred speech
- You have difficulty breathing. Signs that suggest breathing problems include:
- breathing quickly
- turning blue around the lips and the skin below the mouth
- skin between or above the ribs getting sucked or pulled in with every breath

If you (or your child) h

If you (or your child) have any of the following symptoms, are getting worse or are sicker than you would expect (even if your temperature falls), trust your instincts and get medical advice urgently from NHS 111 or your GP.

- You develop a severe headache and are sick
- You have a red, swollen tongue
- You have redness, swelling and pain around the eyes or the ears
- You develop chest pain
- You have difficulty swallowing or are drooling
- You cough up blood
- · You are peeing very little, or not at all
- You are feeling a lot worse
- Your child has a middle-ear infection and fluid is coming out of their ears or they have new deafness

Less serious signs that can usually wait until you visit a pharmacist or your next available appointment

- You are not starting to improve a little by the time given in the 'Most are better by' column in the table above
- · You have mild side effects such as diarrhoea. Get advice from a healthcare professional if concerned

d signs are:

ess (≤3 days)

in the previous 24 hours 3°C at presentation

er/subcostal recession

neeze on auscultation

asthma

lerate/severe ious 24 hours

Back-up antibiotic collection

Back-up antibiotic prescription to be collected after _____ days from only if you are not starting to feel a little better or you feel worse.

 Colds, most coughs, sinusitis, ear infections, sore throats, and other infections often get better without antibiotics, as your body can usually fight these infections on its own

If you need antibiotics, take them exactly as prescribed. Never save them for later and do not share them with others. For more information, visit: www.antibioticguardian.com.

Why it is important to take antibiotics as prescribed

Taking any antibiotics makes bacteria that live inside your body more resistant. This means that antibiotics may not work when you really need them. Antibiotics can cause side effects such as rashes, thrush, stomach pains, diarrhoea, reactions to sunlight, other symptoms, or being sick if you drink alcohol with the antibiotic metronidazole.

Side effects



TARGET is operated by the UK Health Security Agency. This leaflet has been developed with healthcare professionals, patients and professional medical bodies. Version 10.0. Published: November 2024, Review: November 2027. KAW18-07 © Crown copyright 2024.



Implementing a cycle of antimicrobial stewardship:

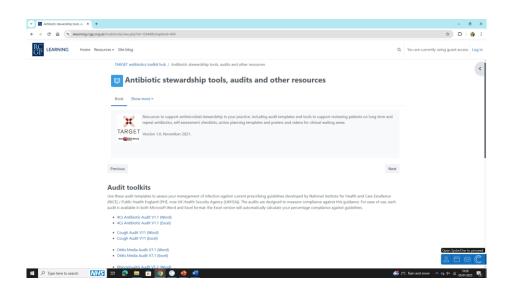
A case study from the Village Surgery



Dr Linda StrettleGP Partner , The Village
Surgery, Rotherham



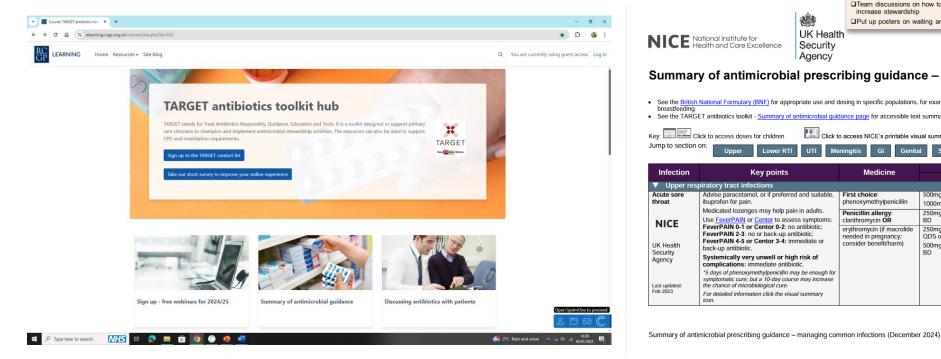
- Village surgery STAR-PU prescribing was above local prescribing target in 2022-23
- Reviewed all antibiotics used in highest prescribing month (June 2022)
- TARGET audits

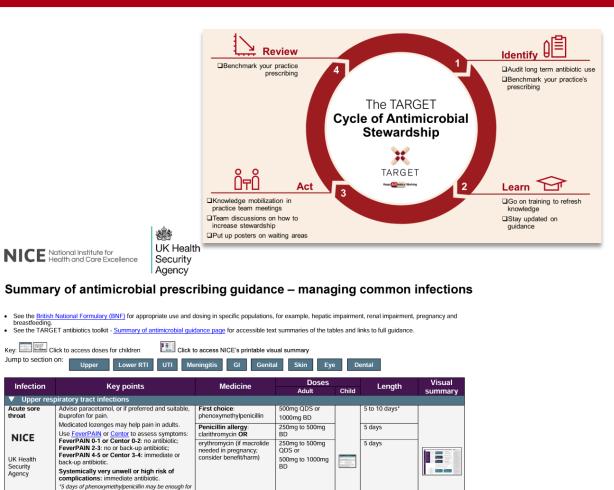




TARGET AUDIT	% patients with appropriately prescribed antibiotics
UTIs >65 years (non catheterized patients)	67%
UTI in women <65 years	65%
Rhinosinusitis	50%
Acute Cough	91%







https://elearning.rcgp.org.uk/mod/book/view.php?id=14887

Key points

symptomatic cure; but a 10-day course may increase the chance of microbiological cure. For detailed information click the visual summary

ibuprofen for pain.

back-up antibiotic.



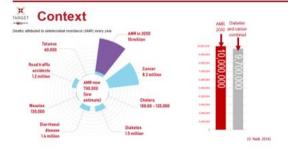
- Protected learning time event
- Individual prescriber feedback
- Practice feedback
- Involvement of the whole team



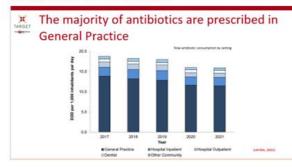
Antibiotic Prescribing The Village Surgery

Why is this relevant?

By 2050 Antimicrobial resistance (AMR) likely to cause as many deaths as diabetes and cancer combined



Vast majority of antibiotics prescribed in primary care



Why audit Village Surgery - aren't we doing fine?

We are above local average locally and nationally for prescribing of antibiotics (even when age/demographics of our population taken in to account.

The information from this audit was taken from a high antibiotic prescribing month in June 202: antibiotics prescriptions to all patients were reviewed from the Village Surgery.

Page 1 of 3



We are only just above target so with some simple changes - we can do this!

In the first instance as with all audits, it is completely taken into account that the notes do not always represent the clinical situation and clinical judgement. But this can give some themes and ideas on changes that can reduce our antibiotic prescribing, reduce resistance and long term save lives.

General learning points for all clinicians from this audit

- 46% of women treated as UTIs based on symptoms had a negative MSU showing no evidence of infection (11 out of 26 pts)
- Consider discussing and documenting risks of resistance to antibiotics (has been shown to engage patients in reducing antibiotic uptake)
- Consider sharing the TARGET antibiotic leaflets → on accurx → type TARGET there are excellent leaflets on UTIs and respiratory tract infections
- 4. Remember in all ages with UTIs to consider other causes eg STIs, vulvovaginal atrophy etc
- If a prescription for an antibiotic is issued but then not available or incorrect please cancel the original prescription.
- Acute cough recommendation again for 5 days antibiotics and not 7. First line is doxycycline rather than amoxicillin. <a href="https://www.bnf.org/wp-content/uploads/2021/07/summary-u

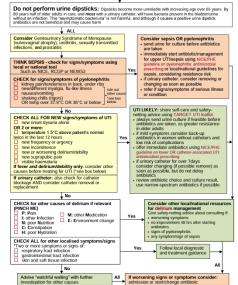


 Tonsillitis – please document FEVER PAIN score and consider 5 days rather than 10 days antibiotics. https://www.nice.org.uk/guidance/ng153/resources/visual-summary-pdf-7084853533



Diagnosis of urinary tract infections: quick reference tool for primary care.





UTI symptom Action advised Other advice

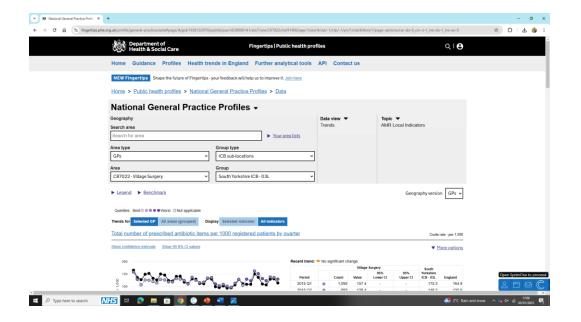
Key: Suspected sepsis alert UTI symptom

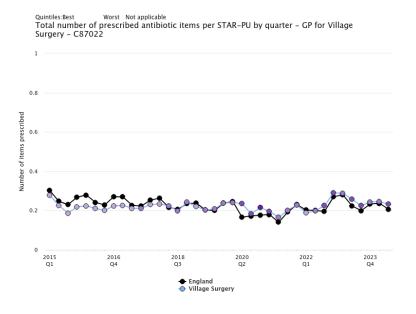
Last review: Nov 2018. Next review: Nov 2021. Last update: October 2020. Version: 3.0 Over 65 TARGET



TARGET AUDIT	taran da antara da a	% patients with appropriately prescribed antibiotics 2024
UTIs >65 years (non catheterized patients)	67%	92%







Accessed 5/1/2025 Office for Health Improvement and Disparities.
Public health profiles.
2025 https://fingertips.phe.org.uk/



TARGET Acknowledgements

- Ming Lee
- Harry Ahmed
- Graham Duce
- Raje Dhillon
- Linda Strettle
- Camilla Stevenson
- Joe Besford
- Dharini Shanmugabavan
- Katherine Henderson



TARGET Thank you for listening!

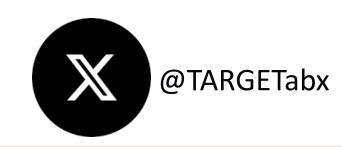
Please complete the feedback survey and let us know what topic you would like next!

Sign up for our next webinars or recommend to colleagues:

Managing recurrent UTI and reviewing long-term and repeat antibiotic therapy Wednesday 19 March 2025 | 18:30 - 19:30 | Online

Visit www.rcgp.org.uk/TARGETantibiotics to find out more and sign up to our contact list







Panel discussion