Key Messages for Antimicrobial Stewardship in Community Settings

IIOP Webinar 23rd October 2024

Mala Shah

Chief II Antimicrobial Pharmacist HSE Access and Integration

Email: mala.shah@hse.ie





H Outline

Respiratory infections (RTI)

- Antibiotic guideline
- Upper respiratory tract infections
- Strive for 5

Urinary tract infections (UTI)

- Prophylaxis reviews
- Skip the Dip for UTI in over 65s
- UTI resistance rates Ireland



H National Antimicrobial Prescribing Guidelines for Community Settings

www.antibioticprescribing.ie Conditions and Antimicrobial use in AMRIC Key Messages Treatments Residential Care Facilities Antimicrobial safety alerts and including Nursing Homes View a list of conditions and advice issued by AMRIC treatment guidelines Infection Prevention and What's New Safe Prescribing Control WHATS NEW? Prescribing safely. Renal Updates and new content Evidence based approach impairment dosing, Drug preventing patients and health interactions vorkers from avoidable infections Paediatric Prescribing Antimicrobial stewardship Prescribing in Pregnancy Guidelines based on weight and Learn about AMS & access tools to Prescribing Antimicrobials in improve antimicrobial use Pregnancy, Postpartum infections eight and Lactation Covid-19 Acute Respiratory Dental Prescribing Tips on Penicillin Allergy Infection Tips on verifying Penicillin Allergy Guidelines on dental prescribing Prescribing guidance in suspected and treatments or proven infection

Most widely used clinical resource amongst GPs

> Over 80 Clinical Guidelines

Multi-disciplinary involvement with >60 experts, including community pharmacists

Reviews led by the Community Antimicrobial Pharmacists Key Messages for Antimicrobial Stewardship in Community Settings

Respiratory Tract Infections

Guideline Updates Upper respiratory tract infections Strive for 5









Acute Cough / Bronchitis - Sept 2024

The antibiotic treatment table has been removed to reflect international best practice. Acute cough / bronchitis is caused mainly by viruses and is a self-limiting condition. In the majority of cases, antibiotics are not indicated.

Sinusitis - Sept 2024

> Addition of dosing table for intranasal steroids to be considered for people with symptoms of around 10 days or more. Note added regarding duration of treatment for severe / worsening infection.

Pneumonia in Residential Care Facilities - Sept 2024

> Updates to guidance on aspiration pneumonia. Some antibiotic dose amendments.

*Co-amoxiclav suspensions available for those with swallowing difficulties:

Co-amoxiclav Solid Dose Form	Suspension Available as	Measured dose
500mg/125mg Tablet	Augmentin [®] Paediatric Oral Suspension (125 mg/31.25 mg per 5 mL) OR Co-amoxiclav paediatric (125 mg/31.25 mg per 5 mL)	20mL = 500mg/125mg
875mg/125mg Tablet	Augmentin [®] Duo Oral Suspension (400 mg/57 mg per 5 mL)	11mL = 880mg/125mg (off label use)



ĥĩ

Q: Is an antibiotic usually beneficial for any of the following illnesses?

	Yes/No
Middle ear infection	
Sore throat	
Common cold	
Sinusitis	
Acute cough / bronchitis	







ANSWER: NO

Antibiotics generally not required for these self-limiting illnesses



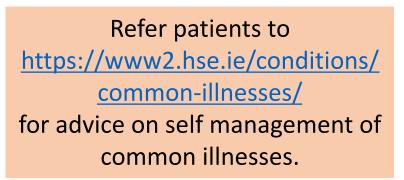
Many respiratory tract infections are viral infections and antibiotics won't work.

For common upper respiratory tract infections:

- Antibiotics are often not needed
- They may do more harm than good
- Limited impact on time to symptom resolution

Informing patients how long they can expect symptoms to resolve without antibiotics can help to manage their expectations

Middle ear infection	3-7 days
Sore throat	7 days
Common cold	14 days
Sinusitis	14-21 days
Acute cough / bronchitis	21 days







For more information, consult the Respiratory section on <u>www.antibioticprescribing.ie</u>



Q: IF an antibiotic is required,

what is the recommended antibiotic treatment duration for the following infections in primary care

	Treatment duration
Sinusitis	
Otitis media	
Community acquired pneumonia	
Infective exacerbation of COPD	











ANSWER: 'STRIVE FOR FIVE' 5 days for all respiratory tract infections that require antibiotics*

- A 7 day antibiotic course for respiratory tract infections (RTIs) is no longer recommended in primary care.
- Strong evidence to support shorter courses.
- Shorter courses are more likely to improve adherence.
- Every extra day of antibiotic increases likelihood of adverse effects and antimicrobial resistance.
- *If scarlet fever suspected, a 10 day course of antibiotic is recommended.
- In severe sinusitis, in select cases, 7-10 day antibiotic course may be considered.

Remember: Many RTIs are viral or self limiting and don't require an antibiotic.



For more information, consult Respiratory sections on antibioticprescribing.ie



Friction Stewardship Key Messages for Antimicrobial Stewardship in Community Settings

Urinary Tract Infections

Prophylaxis Skip the Dip Resistance patterns





Q: For a patient on long-term UTI prophylaxis, how long should prophylaxis be continued?

- A. 1 month
- B. 3-6mths
- C. 1 year
- D. 3-5yrs
- E. Lifelong









ANSWER:



For a patient on long-term UTI prophylaxis, how long should

prophylaxis be continued?

A. 1 month

3-6mths

C. 1 year

Β.

- D. 3-5yrs
- E. Lifelong

- All UTI prophylaxis should be reviewed at 3-6 months with a view to stopping.
- Long term use is associated with antimicrobial
 - resistance and increased risk of adverse drug reactions such as pulmonary fibrosis and peripheral neuropathy
 - associated with nitrofurantoin.
- Pharmacists should prompt review of antibiotic
 - prophylaxis with prescriber

Visit the Urinary Section of <u>www.antibioticpresribing.ie</u> for De-prescribing UTI prophylaxis guidance









Q: For whom is dipstick urinalysis recommended to assess for urinary tract infection (UTI)?

А	Adults 65 years and older
В	Adults with indwelling catheters
С	Pregnant women
D	Men
Е	Children







ANSWER: ONLY E

Dipstick urinalysis recommended when assessing for UTI in children

- Older persons and adults with indwelling catheters are likely to have asymptomatic bacteriuria (bacteria in urine without causing harm). A positive nitrite / leukocyte result does not always indicate a urine infection and may lead to unnecessary use of antibiotics.
- For suspected UTIs, dipstick urinalysis is no longer recommended for:

✤Adults 65 years and over

Adults with indwelling catheters

∜Men

Pregnant women



A urine sample for culture should be sent if UTI suspected for above.

A diagnosis of UTI should be made on clinical signs and symptoms.

For more information, consult Urinary section on <u>antibioticprescribing.ie</u> View the <u>Position Statements Dipstick Urinalysis for UTI in Adults</u>





QU

$L \sim$ Skip the Dip for UTI in over 65s

- Performing dipstick urinalysis is an ingrained practice amongst medical and nursing staff
- Aim: to promote best practice in assessment of UTI and reduce inappropriate antibiotic prescribing for UTI in HSE older persons residential care facilities (RCFs) (>100 RCFs)
- Method: Focus groups held to identify facilitators and barriers. Surveys conducted to assess dipstick urinalysis practice. Antibiotic use for UTI monitored monthly. Skip the Dip campaign resources developed. Antimicrobial Pharmacists conducted workshops for RCF staff. National webinar recording available.
- Results: Reduction in number of RCFs reporting using dipstick urinalysis for UTI assessment (98% RCFS reported using dipsticks in 2020/21, reduced to 24% by March 2024)
- Trend in reduction of antibiotics prescribed for UTI



National Quality Improvement Initiative led by HSE Community Antimicrobial Pharmacists

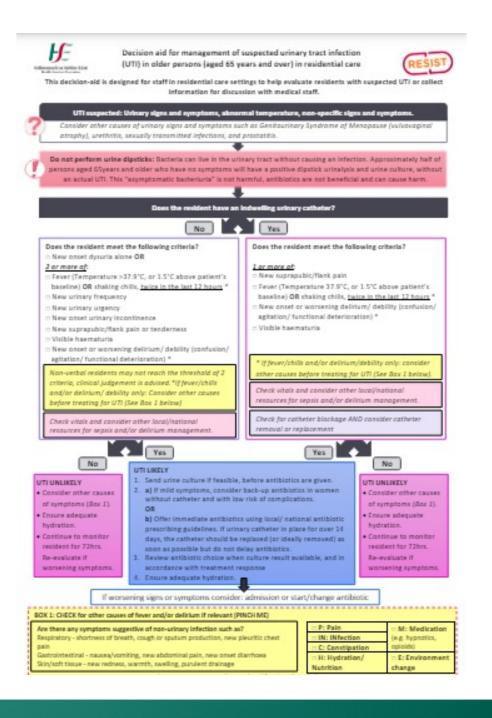
In persons >65 years, urine dipsticks are likely to be positive if there are bacteria in urine, whether they are causing an infection or not.

HE Decision aid for management of suspected UTI

Guides staff in residential care facilities on how to manage suspected UTI without performing dipstick urinalysis

https://www.hse.ie/eng/services/li st/2/gp/antibioticprescribing/prescribingltcf/decision-aid-for-managementof-suspected-uti-in-older-personsover-65yrs-in-residential-care.pdf





H = SKIP THE DIP for UTI in Over 65s

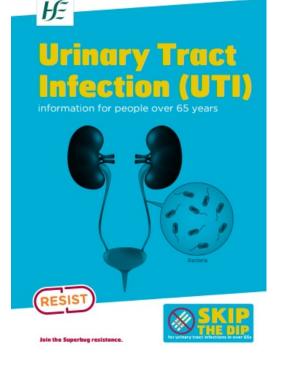
Staff Handbook

Assessment of Urinary Tract Infection (UTI) in Older People

HĨ

Version 1.0 September 2023





RCF staff handbook

A quality improvement initiative to increase awareness of current best-practice guidance in assessment of UTI in people 65 years and over living in residential care facilities

Resident / patient leaflet

Information, resources and webinar recording on the Skip the Dip Quality Improvement Initiative in HSE nursing homes is available on <u>Antibiotics in Nursing</u> <u>Home section</u> of www.antibioticprescribing.ie



Community Antimicrobial Pharmacists





Skip the Dip QI has won 2 poster prizes at national conferences

H_{z} UTI antibiotic resistance patterns

- No routine surveillance of UTI culture and antibiotic susceptibility (MC&S) in community settings
- In general, for *E. Coli* UTI:
- Amoxicillin resistance rates very high
- Trimethoprim and co-amoxiclav resistance moderately high
- Nitrofurantoin resistance low
- Ciprofloxacin: multiple warnings with adverse effects with fluoroquinolones. Use as last resort for targeted therapy.



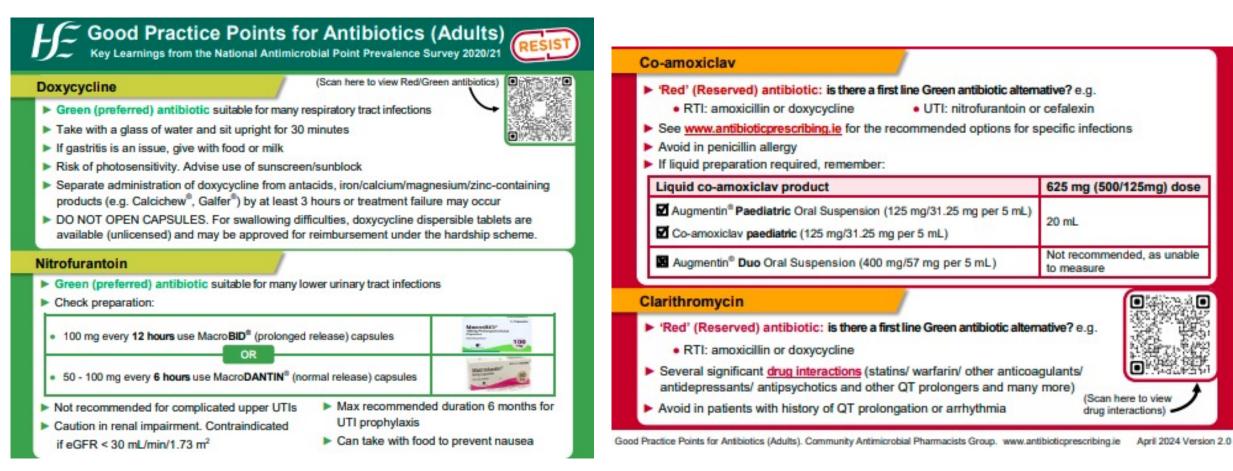
Key Messages for Antimicrobial Stewardship in Community Settings

Antibiotic Good Practice Points





$\int \mathcal{I}$ Good Practice Points for Antibiotics Poster



Available in the Toolkit for Antimicrobial Stewardship in Residential Care Facilities on www.antibioticprescribing.ie https://www.hse.ie/eng/services/list/2/gp/antibiotic-prescribing/prescribing-ltcf/good-practice-points-v2-0-final-april-2024.pdf