## **RACF Medicinewise Report - Antibiotics for urinary tract** infections

Nursing Home - Ground Floor

Nursing Home - Level 1

Nursing Home - Level 2

Nursing Home - Level 3A

Nursing Home - Level 3B

Metropolitan Pharmacy

Date of report: 18/02/2015

Report date range: 01/02/2015 - 01/02/2016

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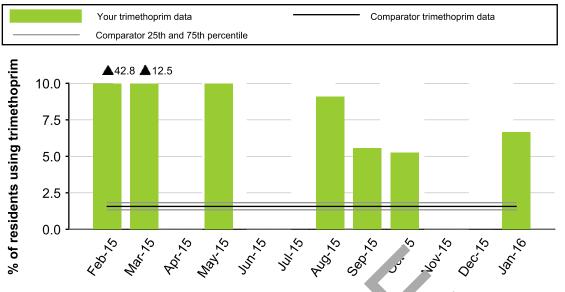
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# How does your trimethoprim use compare with other facilities?

### Interpreting the graph

This graph compares use of trimethoprim for acute treat. Ent of UTI (14 day course or less) for your RACF to a sample group of 847 residentence. 9 K CFs were a 10 month period (March 2014 - December 2014). The comparator result are provided as a median with the associated 25<sup>th</sup> and 75<sup>th</sup> percentiles shown. The end of percentiles are comparison but should not be used as a benchmark or target. The comparator data used for the sample and your individual results are not linked to indication. An ough, rimethoprim is commonly used for UTIs, it can also be used for other Comparisons.

RACFs should aim for judicic prescrib, n of antibiotics; the overall pattern of usage will be dependent on your patient mi. This port includes additional information relating to your antibiotic use and helpful hints possist you to achieve best practice management of UTIs.

How do I act o our wh?

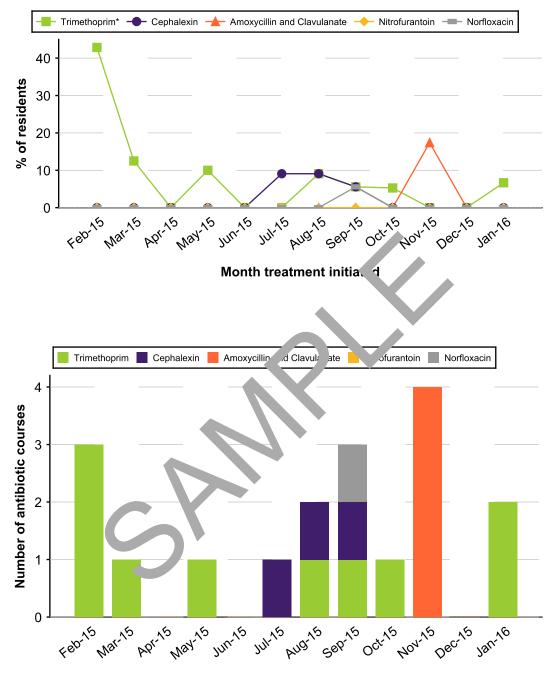
## There may be multiple rear ons for your individual facility results. Correct assessment of suspected UTI is critical in RACFs

- Practice good hand hygiene and ensure appropriate environmental cleaning to minimise the spread of resistant organisms.<sup>1</sup> Follow facility infection control guidelines.
- Avoid routine screening for and treatment of asymptomatic bacteriuria\* in aged-care facilities. Antibiotic treatment increases the risk of these residents developing antibiotic resistant infections and doesn't improve mortality or morbidity.<sup>2</sup>
- Do not investigate or treat cloudy or malodorous urine in residents who do not have other signs or symptoms of a UTI.<sup>2</sup> Display and use the algorithm (*Initial assessment and* management of aged-care facility residents with suspected urinary tract infection) to help evaluate the likelihood of a UTI.
- Consider whether an alternative diagnosis is more likely in residents who have mental state changes. However, fever or mental state change as a single symptom may be sufficient to warrant investigation if there is a strong suspicion of UTI and the resident can't communicate symptoms because of cognitive impairment.<sup>2</sup>

\* Defined as a urine bacteria concentration greater than 10<sup>8</sup> colony-forming units/L without symptoms of a UTI.







## How is antibiotic use changing at your facility?

Month treatment initiated

Month	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16
Number of residents	7	8	8	10	10	11	11	18	19	23	25	30

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### Practice points to consider

- Try to obtain a urine sample for culture and susceptibility testing routinely before administering empirical antibiotics for a suspected UTI, as aged-care residents are at a higher risk of infection by multidrug-resistant bacteria.<sup>2</sup> The feasibility of this depends on the resident's well-being and capacity.
- Use nitrofurantoin with caution in older people. Avoid when creatinine clearance is < 60 mL/minute as inadequate concentrations of the medicine occur in the urine and there is an increased risk of adverse effects including peripheral polyneuropathy.<sup>3,4</sup>
- Avoid fluoroquinolones (e.g. norfloxacin) as first-line antibiotic medicines as they are the only available orally active antibiotic to treat *Pseudomonas aeruginosa* infections and other multidrug-resistant bacteria.<sup>2</sup>

### How do I act on my results?

There may be multiple reasons for your individual facility results. Below are some actions that you may need to take (in relation to antibiotics for JTI only):

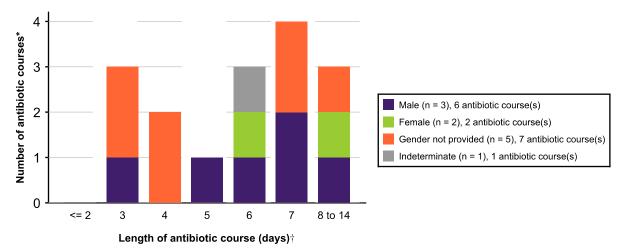
- Obtain a clean-catch urine sample. Consider sampling with on i -out catheter for women or a newly applied condom catheter for men.<sup>2</sup> Aspirate the catheter troing port (not the drainage bag) for residents with short-term indweil on catheters. I place the catheter and collect the sample immediately following insertion for osidents with long-term catheters.<sup>2</sup>
- Adhere to the guideline recommendations f, choi e of the stic treatment (and resident's most recent susceptibility result if available) if starting empirical antibiotic treatment while waiting for culture rescins (see able 1: Summary of recommendations for treatment of urinary tract infections in 1: 4, 5).

\*Antibiotic data is not linked to indication. Medicines like date on only used for UTIs but may also be prescribed for other indications e.g. cephalexin for cellulitis. Residents may be sking more than one antibiotic. Refer to individual resident notes or chart for indication. Antibiotic courses included the days or the sking more than one antibiotic.

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## How long are antibiotics prescribed for at your facility?

### Practice points to consider

- Recommend a 3-5 day course of antibiotic treatment in worken (depending on chosen antibiotic) and a 7 day course in men with lower uncomplicited in 1. This is associated with good outcomes and minimises the risk of adverse effects. See Tuble 1: Summary of recommendations for treatment of urinary tract informations in RAC.
- Clinicians are advised where practical to examine all then with LITIs (including a rectal examination) and investigate to exclude underlying about the unitary tract function or structure.<sup>2</sup>
- ▷ Recommend a 7-14 day course of the poy to coute pyelonephritis depending on the antibiotic chosen.<sup>2</sup> Obtain a follow-up to the culture 1-2 weeks after treatment course has finished.<sup>2</sup>
- Severe pyelonephritis requires. The proof treatment and if able to be administered in the facility, (e.g. through a residential in reach, rogram) can avoid admission to hospital.<sup>2</sup> The use of IV antibiotics on thoreser, and in the above graph.

### How do I act o my recult ?

## There may be multiple reas ins for your individual facility results. Below are some actions that you may need to take (in relation to antibiotics for UTI only)

- Display and adhere to guideline recommendations for dose and duration of individual antibiotics (see Table 1).
- Request prescribers include indication and duration of treatment on antibiotic orders as pack sizes may be more than required by Therapeutic guidelines: Antibiotic.<sup>2</sup>
- Always check short-term order section of the drug chart when administering medicines to ensure doses of antibiotics are given as prescribed.

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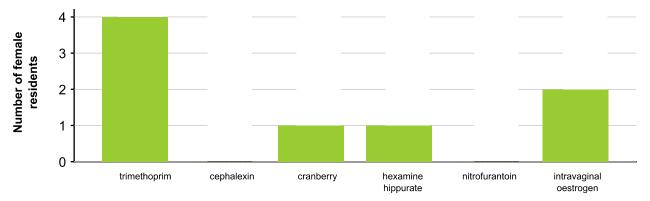




<sup>\*</sup> Includes trimethoprim, cephalexin, amoxycillin+clavulanate, nitrofurantoin, norfloxacin and ciprofloxacin started < 6 months before date of report. Antibiotics listed are commonly used for UTIs but may also be prescribed for other indications e.g. cephalexin for cellulitis. Refer to individual resident notes or chart for indication.

<sup>&</sup>lt;sup>†</sup>Antibiotic courses included are for 14 days or less (acute treatment).

n = number of unique patients



## What preventive treatments are women using at your facility?

### Practice points to consider

- ▷ Address modifiable causes of relapse/reinfection before considering preventive treatment.<sup>2</sup>
- ▷ Intravaginal oestrogen may reduce recurrent UTIs in post-menopausal women with signs or symptoms of vaginal atrophy.<sup>2,4</sup>
- ▷ The effectiveness of cranberry products for UTI prevention a unclear. The optimum dosage, method of administration and duration are current uncertain.<sup>2,5</sup>
- Before starting a preventive antibiotic, balance the risks of an macterial resistance and adverse effects against the perceived gains in UT' reduction. The resistance for preventive antibiotics in recurrent UTIs in older neop.
- ▷ Consider preventive antibiotics for women w to he le free tien symptomatic UTIs (i.e. two or more confirmed infections in 6 months, or pree or nore intections in 12 months).<sup>2</sup>
- If antimicrobial prophylaxis is appropriate, g. tranes recommend trimethoprim 150 mg at night as first-line treatment and cephal x 250 mg at night as an alternative.<sup>2</sup> Continue treatment for 3-6 months, in some case. Ion ter. Seek expert advice if recurrent infections occur despite antibiotic treatment
- ▷ Evidence for efficacy of hexamine ioput in preventing UTIs is poor.<sup>3</sup> It may be effective for preventing a UTI in a tendent with jut renal tract abnormalities, particularly if used for short-term prophylaxis.<sup>6</sup>

### How do I act o my result ?

## There may be multiple reasens for your individual facility results. Below are some actions that you may need to take (in relation to antibiotics for UTI only)

- Monitor and report to the prescriber any adverse effects of long-term treatments. For nitrofurantoin, be aware of peripheral paraesthesia and sensory loss (usually in lower limbs) as symptoms may indicate peripheral polyneuropathy. Renal impairment is the main predisposing factor.<sup>3</sup>
- Recommend review of preventive treatment after at least 3-6 months to assess ongoing need for treatment.<sup>2,4</sup>
- Specify on the medicine chart the time and day(s) of the week to apply intravaginal oestrogens to ensure administration occurs.<sup>3</sup>

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Medicine data is not linked to indication. Medicines listed are commonly used for UTI prevention but may also be prescribed for other indications e.g. cephalexin for cellulitis prophylaxis. Refer to individual resident notes or chart for indication. Includes courses of cephalexin, nitrofurantoin and trimethoprim dosed once daily for > 14 days; cranberry (single ingredient oral forms excluding juice); hexamine hippurate and intravaginal oestrogen dosed > 14 days regardless of daily frequency. Number of residents using preventive treatment on date of report.

## Where do we go for more information?

- NPS MedicineWise knowledge hub for the latest evidence-based information and resources about UTI diagnosis and treatment, and antibiotic resistance. <u>www.nps.org.au/utis</u>
- Medicinewise News 'Antibiotic resistance and UTIs' provides up-to-date independent information and evidence-based advice on quality prescribing and use of medical tests. <u>www.nps.org.au/medicinewise-news</u>

### • Health, News and Evidence article

explores non-antibiotic strategies for managing UTIs. <u>www.nps.org.au/h-n-e/managing-utis</u>

- NPS MedicineWise online module 'Managing urinary tract infections in RACFs' designed for nurses and provides an overview of the diagnostic approach to urinary tract infections in residents in aged-care facilities. <a href="https://www.nps.org.au/utis-in-aged-care-course">www.nps.org.au/utis-in-aged-care-course</a>
- NPS MedicineWise interactive case study 'Urinary tract ir ections exploring antibiotic treatment'

follows the diagnosis and treatment of an aged-care facility, resident with a suspected UTI. To complete the case study visit <u>www.nps.org.au/case-s</u> dies

### • Therapeutic guidelines: Antibiotic

provides clear, practical, succinct and up-to-c'acovera, vutici formation and treatment guidance. Available for purchase at <u>www.t\_.org.au</u>

• Prevention and control of infection , result ntial and community aged care pocket book

supports the aged care sector to improve static knowledge and skills in the area of infection prevention and control. Type (www.c.nhmrc.gov.au/guidelines/publications/d1034)

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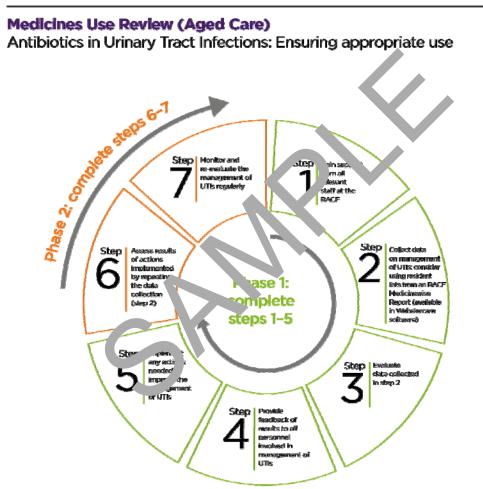




## Improve your results and earn CPD points

Gain deeper insight into improving management of UTIs in your facility by participating in the *Medicines Use Review (Aged Care), Antibiotics in Urinary Tract Infections: Ensuring appropriate use* at <u>www.nps.org.au/medicines-use-review</u>. This quality improvement activity provides you with a step-by-step guide to conducting an in-depth review of UTI management and allows you to generate solutions that are specific to your facility. Results can be easily shared with GPs and other health professionals.

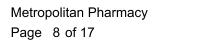




This quality improvement activity has been accredited for CPD suitable for inclusion in an individual pharmacist's or nurse's CPD plan.

Concerned you don't have the resources or time to complete the full *Medicines Use Review* (*Aged Care*)? Completing Phase 1 (Steps 1-5) will still entitle you to CPD points.

To enrol and for more information see <a href="http://www.nps.org.au/medicines-use-review">www.nps.org.au/medicines-use-review</a>







## **Residents prescribed acute antibiotic treatments**

Nursing Home - Level 3A (NH3A)

Resident	Antibiotic*	Dose	Duration (days)	Date started <sup>†</sup>	Indication Enter from care plan, chart or notes
MCDONALD, COSMO	Alprim 300mg Tablet	(crushed) 1 2x daily	6	31/01/2016	



\* Residents prescribed trimethoprim, cephalexin, amoxycillin+clavulanate, nitrofurantoin, norfloxacin and ciprofloxacin in the 2 months prior to date of report. Antibiotics listed are commonly used for UTIs but may also be prescribed for other indications e.g. cephalexin for cellulitis. Refer to individual resident notes or chart for indication. Antibiotic courses included are for 14 days or less (acute treatment).

<sup>†</sup>Date started on administration chart may vary to MMS software date listed by up to 2 days for nurse initiated / emergency medication box courses. If a temporary break in therapy was for 2 days or less, the duration of medicine use is considered from the date the medicine was originally started. Residents may have been using medicines for longer than the duration stated if they were using the medicine before admission or have recently been re-admitted.

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## **Residents prescribed acute antibiotic treatments**

Nursing Home - Level 3B (NH3B)

Resident	Antibiotic*	Dose	Duration (days)	Date started <sup>†</sup>	Indication Enter from care plan, chart or notes
NEWLAND, JANETTE	Alprim 300mg Tablet	(crushed) 1 2x daily	8	01/01/2016	



\* Residents prescribed trimethoprim, cephalexin, amoxycillin+clavulanate, nitrofurantoin, norfloxacin and ciprofloxacin in the 2 months prior to date of report. Antibiotics listed are commonly used for UTIs but may also be prescribed for other indications e.g. cephalexin for cellulitis. Refer to individual resident notes or chart for indication. Antibiotic courses included are for 14 days or less (acute treatment).

<sup>†</sup>Date started on administration chart may vary to MMS software date listed by up to 2 days for nurse initiated / emergency medication box courses. If a temporary break in therapy was for 2 days or less, the duration of medicine use is considered from the date the medicine was originally started. Residents may have been using medicines for longer than the duration stated if they were using the medicine before admission or have recently been re-admitted.

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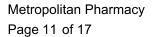


## Female residents using preventive treatments

Nursing Home - Ground Floor (NHGR)								
Resident	Current medicine(s)*	Dose	Durat (days	-	Indication Enter from care pl	Last review date an, chart or notes		
ANTON, JANE	Ellura (Flordis) Capsule Date first prescribed: 17/12/2015	(crusheo 1 mornir		46				
CLIFFORD, VANESSA	Alprim 300mg Table Date first prescribed: 06/01/2016	et (crushed 1 dinner	,	26				
JONES, JACKLYN	Hiprex 1g Tablet Date first prescribed: 06/01/2016	(crushed 1 mornii		76				
KING, MARIA	Vagifem 25n rg Pessary Date first prescribe 17/11 2015	1 ar rig	ht	46				

\* Residents using trimethoprim, cephalexin, cranberry, hexamine hippurate and nitrofurantoin on 'date of report'. Courses of cephalexin, nitrofurantoin and trimethoprim dosed once daily for > 14 days are included. Courses of cranberry (single ingredient oral forms excluding juice) and hexamine hippurate > 14 days are included regardless of daily frequency. Medicine listed are commonly used for preventing UTIs but may also be prescribed for other indications e.g. cephalexin for cellulitis prophylaxis. Refer to individual resident notes or chart for indication.

<sup>†</sup>Date started on administration chart may vary to MMS software date by up to 2 days for nurse initiated / emergency medication box courses. If a temporary break in therapy was for 2 days or less, the duration of medicine use is considered from the date the medicine was originally started. Residents may have been using medicines for longer than the duration stated if they were using the medicine before admission or have recently been re-admitted.



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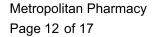
## Females residents using preventive treatments

Resident	Current medicine(s)*  [	Dose	Duration (days) <sup>†</sup>	Indication Enter from care p	Last review date lan, chart or notes
LEE, HARMONY	Alprim 300mg Tablet Date first prescribed: 06/01/2016	(crushec 1 dinner	,		



\* Residents using trimethoprim, cephalexin, cranberry, hexamine hippurate and nitrofurantoin on 'date of report'. Courses of cephalexin, nitrofurantoin and trimethoprim dosed once daily for > 14 days are included. Courses of cranberry (single ingredient oral forms excluding juice) and hexamine hippurate > 14 days are included regardless of daily frequency. Medicine listed are commonly used for preventing UTIs but may also be prescribed for other indications e.g. cephalexin for cellulitis prophylaxis. Refer to individual resident notes or chart for indication.

<sup>†</sup>Date started on administration chart may vary to MMS software date by up to 2 days for nurse initiated / emergency medication box courses. If a temporary break in therapy was for 2 days or less, the duration of medicine use is considered from the date the medicine was originally started. Residents may have been using medicines for longer than the duration stated if they were using the medicine before admission or have recently been re-admitted.





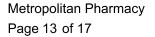


## Females residents using preventive treatments

<u>Nursing Home - Level 3B (NH3B)</u>								
Resident	Current medicine(s)*	Dose	Duration (days) <sup>†</sup>	Indication Enter from care p	Last review date lan, chart or notes			
MAXWELL, LINDA	Alprim 300mg Table Date first prescribed: 06/01/2016	et (crushed 1 dinner						
NEWLAND, JANETTE	Alprim 300mg Table Date first prescribed: 12/01/2016	et (crushed 1 dinner						
	Vagifem 25mcg Pessary Date first prescribed: 01/01/2016	1 bedtim	ne 31					
	S							

\* Residents using trimethoprim, cephalexin, cranberry, hexamine hippurate and nitrofurantoin on 'date of report'. Courses of cephalexin, nitrofurantoin and trimethoprim dosed once daily for > 14 days are included. Courses of cranberry (single ingredient oral forms excluding juice) and hexamine hippurate > 14 days are included regardless of daily frequency. Medicine listed are commonly used for preventing UTIs but may also be prescribed for other indications e.g. cephalexin for cellulitis prophylaxis. Refer to individual resident notes or chart for indication.

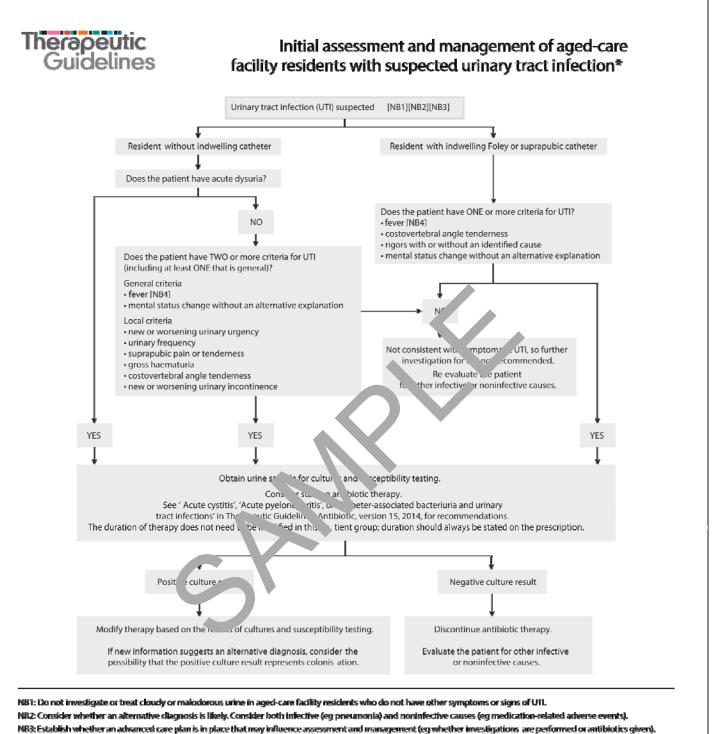
<sup>†</sup>Date started on administration chart may vary to MMS software date by up to 2 days for nurse initiated / emergency medication box courses. If a temporary break in therapy was for 2 days or less, the duration of medicine use is considered from the date the medicine was originally started. Residents may have been using medicines for longer than the duration stated if they were using the medicine before admission or have recently been re-admitted.



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NB4: Fever is defined as a temperature higher than 38°C or an increase of more than 1.5°C above baseline temperature.

 Validated criteria for diagnosing UTI in residents of aged-care facilities are lacking. This algorithm is intended as a general guide for the initial assessment and management of suspected UTI in aged-care facility residents.

#### References

D'Agata E, et al. J Am Geriatr Soc 2013;61:62-6. High KP, et al. Clin Infect Dis 2009;48:149-71. Juthani-Mehta M, et al. J Am Geriatr Soc 2009;57:963-70. Loeb M, et al. Infect Control Hosp Epidemiol 2001;22:120-4.

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TABLE 1 Summary of recommendations for treatment of urinary tract infections in RACFs Acute cystitis WOMEN MEN There may be associated infection of the posterior urethra, In symptomatic residents, consider starting empirical antibiotics. Obtain a urine sample for culture and susceptibility prostate or epididymis. If feasible, examine males with a UTI testing before administration of antibiotics. (including rectal examination) and investigate to exclude an If a decision is made to start antibiotics while waiting for culture underlying abnormality. In presence of fever or loin pain manage results use: as acute pyelonephritis. 1. trimethoprim 300 mg orally, daily for 3 days OR > In symptomatic residents, consider initiating empirical antibiotics. Obtain a urine sample for culture and susceptibility testing before 2. cephalexin 500 mg orally, 12-hourly for 5 days OR administering antibiotics. If a decision is made to start antibiotics 3. amoxycillin+clavulanate 500 mg + 125 mg orally, while waiting for culture results use: 12-hourly for 5 days OR trimethoprim 300 mg orally, daily for 7 days OR 3. nitrofurantoin 100 mg orally, 12-hourly for 5 days 2. cephalexin 500 mg orally, 12-hourly for 7 days OR (avoid in creatinine clearance < 60 mL/min). 3. amoxycillin+clavulanate 500 mg + 125 mg orally, 12-hourly for If resistance to all the above drugs is proven and if susceptible, a 7 days OR suitable alternative is: 3. nitrofurantoin 100 mg orally, 12-hourly for 7 days (limit to norfloxacin 400 mg orally, 12-hourly for 3 days. afebrile men in ... iom prostatitis is considered unlikely, avoid if creatinine cle\_ance < 60 mL/min). If resistance to al. he above drugs is proven and if susceptible, a suitable alternative norfloxacin 400 mg ally \* -hourly for 7 days. Acute pyelonephritis – men and women It is imperative that adequate urine samples are collected for cultures and second sections before administering antibiotics. Blood cultures should also be performed in hospitalised resident. MILD INFECTION IN ADULTS SE TRE INFECTION IN ADULTS (LOW-GRADE FEVER, NO NAUSEA OR VOMITING) ASS CIATED WITH SEPSIS OR VOMITING) While awaiting culture results use: posider investigations to define or exclude any underlying anatomical or functional abnormality. In particular, obstruction of amoxycillin+clavulanate 875 mg + 125 mg orally, the upper urinary tract should be excluded as this may represent 12-hourly for 10-14 days OR a urological emergency. 1. cephalexin 500 mg orally, 6-hourly for 10–14 avs Parenteral treatment is recommended see 1. trimethoprim 300 mg orally, daily for 10-14 da Therapeutic Guidelines: Antibiotic for specific therapy. A follow up culture 1 to 2 weeks / .er the conclu-⊳ hn of therapy is advised. If resistance to all the above drugs is. ....ven or t∤ causative organism is Pseudomonas aeruginosa, use: 1. ciprofloxacin 500 mg orally, 12-hourly for 7 days OR 1. norfloxacin 400 mg orally, 12-hourly for 7 days. Recurrent urinary tract infections - women Before using antibiotic preventive therapy attempt to address If antibiotic prophylaxis is appropriate use: modifiable causes for relapse/reinfection. 1. trimethoprim 150 mg orally, at night OR See www.nps.org.au/h-n-e/managing-utis 2. cephalexin 250 mg orally, at night Consider prophylaxis for women who have frequent symptomatic infections (e.g. two or more infections in 6 months or 3 or more infections over 12 months). Prophylaxis may be considered for 3–6 months, in some cases longer, if recurrences continue to occur despite prophylaxis, seek specialist advice. Sources used: eTG complete [Internet]. Melbourne: Therapeutic Guidelines Ltd. 2014. AMH aged care companion (online). Adelaide: Australian Medicines Handbook Ptv Ltd. 2014. www.amh.net.au Note: The recommended order of preference is indicated by the number next to each regimen. Alternatives of equal preference are marked with the same number.

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### Data in this report

The data presented from the Webstercare Medication Management Software (MMS) includes all medicines used in your aged care facility supplied by the stated pharmacy. Indications for medicine use cannot be determined for medicines used in this report.

Please note: this report is from one unique pharmacy only. If you aged care facility is supplied medicine by multiple pharmacies, reports need to be plate to give an accurate reflection of your use.

Discrepancies may occur between the data provided and your own facility's medicine charts. Some pharmacies may not include all non-packed medicine such as liquids, wafers and injections or residents who self-administer in the Webstercare at a system. You can contact your supply pharmacy to confirm whether this report is a complete record of all administered medicines for your aged care facility.

If you consider your individual data is incorrect, lease contact your community/supply pharmacy for assistance. If you have a result of about clinical content or general feedback, please contact NPS Medicin are on 02 1217 8700 (and select option 2) or by email at info@nps.org.au

Webstercare can provide your community/supply pharmacy with guidance on how to enter data for the maximum broken using this report. Please contact Webstercare on 02 9563 4900 or by email at into@web\_tercare.com.au.

### Notes

Clinical information and review steps are relevant to residents using antibiotics for UTIs only. Resident medicine charts, notes and care plans should be read to assist resident medicine review.

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### References

1. Stuart R, et al. Prevalence of antimicrobial-resistant organisms in residential aged care facilities. MJA 2011;195:530-3. <u>https://www.mja.com.au/journal/2011/195/9/prevalence-antimicrobial-resistant-organisms-residential-aged-care-facilities?0=ip\_login\_no\_cache%3D3e0dcbad9e8c25fa142f558dc2aa5e99</u> (accessed 11 Aug 2014).

2. Therapeutic guidelines: Antibiotic (online). Melbourne: Therapeutic Guidelines Ltd, 2014. <u>www.tg.org.au</u> (accessed 15 Nov 2014).

3. Australian medicines handbook (online). Adelaide Australian Medicines Handbook Pty Ltd 2014. <u>www.amh.net.au</u> (accessed 21 July 2014).

4. AMH aged care companion (online). Adelaide: Australian Medicines Handbook Pty Ltd, 2014. <u>www.amh.net.au</u> (accessed 18 August 2014).

5. Jepson RG, et al. Cochrane Database of Systematic Reviews / J12;10:CD001321.

6. Lee BSB, et al. Cochrane Database of Systematic Reviews 2. 10 10:CDP 3265



