

Treat Antibiotics Responsibly: Guidance, Education, Tools.

Issue 5 Nov 2018

Welcome!

Welcome to the World Antibiotics Awareness Week (November) edition of the TARGET antibiotics newsletter.

This edition shares TARGET's new logo, exciting new TARGET e-Learning, an update on our UTI diagnostic tools, published research around CRP POCT, and a focus on how nurses in general practice and in the community can use the TARGET resources.

World Antibiotic Awareness Week (12-18 Nov)

The <u>World Health Organisation website</u> has a host of campaign resources that you can download and use freely.

During WAAW TARGET aim to promote:-

- Re-branded TARGET leaflets via the Keep Antibiotics Working national campaign
- New TARGET Future Learn e-Learning
- Our exciting new research publications

TARGET antibiotics: Prescribing in Primary Care Future Learn e-Learning



TARGET have collaborated with the British Society of Antimicrobial Chemotherapy (BSAC) to develop a TARGET e-Learning series on the Future learn platform. A new topic is released every week for 7 weeks and each topic takes approx. 1 hour.

Registration for the course opens this week so click <u>here</u> to register. Week 1 will commence on **Monday 28th January 2019**.

The course aims to help primary care professionals to target the use of antibiotics to help towards the reduction in antimicrobial resistance. By the end of the course you will have an understanding of how to apply practical antimicrobial stewardship strategies in your practice.

Topics covered include: Introduction to antimicrobial resistance in primary care, Prescribing in Urinary Tract Infections, Assessing the Need for Antibiotics, Managing Patient Expectations, Back-up prescriptions, Antibiotics for Children, Common Practice Approach.

Research updates

Effectiveness of Behavioural Interventions to Reduce Urinary Tract Infections and E. coli Bacteraemia for Older Adults Across all Care Settings: A Systematic Review published in the **Journal of Hospital Infection**. Read more <u>here</u>.

A qualitative study to explore the views of general practice staff on the use of point-of-care *C*-reactive protein testing for the management of lower respiratory tract infections in routine general practice in England" has been published by the **BMJ Open**. Read more <u>here</u>.

To remove your name from our mailing list, please click here.

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Come meet the team

We will be attending the following meetings/ conferences.

- FIS, Nov 2018
- BSAC, March 2019
- PHE Public Health Research and Science Conf, April 2019

Read more here.

<u>Mail us</u> if you are attending any of these events and would like to have a chat about the presentations, TARGET or just to say hi.

Antibiotic Guardian

Antibiotic Guardian supports the UK Antimicrobial Resistance strategy, European Antibiotic Awareness Day and World Antibiotic Awareness Week .

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Issue 5

www.rcgp.org.uk/TARGETantibiotics/

Keep Antibiotic Working Campaign

On 23rd October 2018, Public Health England (PHE) relaunched the national 'Keep Antibiotics Working' (KAW) campaign highlighting that taking antibiotics when you don't need them puts you and your family at risk. To help keep antibiotics working you are urged to always take your doctor or nurse's advice on antibiotics.





NEW TARGET rebranding

"Keep Antibiotics Working" is the unifying brand to manage antimicrobial resistance (AMR) and currently includes the Antibiotic Guardian campaign. The TARGET logo and resources are being re-branded in 2018 to follow the KAW brand. So keep a look out for our new logo on our future resources and social media platforms.

TARGET leaflets

Keep Antibiotics Working in your practice

In 2017 the TARGET Treating Your Infection leaflet for respiratory tract infections (RTI) was rebranded to be used as part of the KAW campaign. The rebranded leaflets were disseminated by Public Health England and NHS England to all general practices in England who had signed up to the campaign. In 2018 PHE and NHS England are distributing KAW resource packs to approx. 7,500 general practices that will include the TARGET Treating Your Infection RTI leaflet. These will be distributed by PHE but if practices would like to order additional resources for the KAW campaign they can do so from the Campaign Resource Centre.

Patient name It is recommended that you set					
Your infection	Most are better by	How to look after yourself and your family	When to get help		
Middle-ear infection	8 days	Here pitch of net. Here and the sound feeling thirsty. Advances your back paramactic the recommend machines the big your sympletions or pain (or both). Ferver is a sign the body is fighting the interface and using the big work sympletic parameters the signal of the second sympletic parameters or your date the uncomfortable as a result. Use a factour advanty your hand swell to help prevent spread of your interface Other hings you can do suggested by GP arr runse:	The following an possible signs of antices literes and about to assessed urgentry: 1. If provide in your foll for as a single action or you develop an unsular late. 2. If you bell contained or has braned speech or an evy drawy. 3. If you bell contained or has braned speech or an evy drawy. 4. If you have difficulty branching Signs that suggest branching problems can include: • branching ackely 4. Import late and the size blow the most • branching acked by and the size blow the most • branching brane of the size blow the most • branching brane of the size blow the most • branching brane prime •		
Sore throat	7-8 days				
Sinusitis	14-21 days				
Common cold	14 days				
Cough or bronchitis	21 days				
Other infection:	days		Less serious signs that can usually wait until the next available appointment: 10. If you are not thating to improve a title ty he time grains in the Moot are later by Colume. 10. If you are not thating to improve a title to compare of the next or of they here new dashees: 11. Mit side effects such as darhoes, however seek medical attention if you're concerned. 12. Other		
ack-up antibiotic pr			are not starting to feel a little better or you feel worse.		
Faking antibiotics encoura Antibiotics can cause side	ges bacteria that effects such as	live inside you to become resistant. That means that rashes, thrush, stomach pains, diarrhoea, reactions to	GP, nurse, other whout articlotics, as your body can usually fight these infections on its own arbibiotics may not work when you really need them. o suright, other symptoms, or berg sick if you drink alcohol with metronidazele. en effective by viscom awanth sufficient arbitration and and and and and and and and and an		

The RTI and UTI leaflets are accessible and available to order to prescribing GP and healthcare professionals in surgery or practice settings via the <u>Public Health England campaign centre</u>.

TARGET community pharmacy leaflet Help Us Help You

This year the TARGET Treating Your Infection leaflet (RTI) for community pharmacy staff has been rebranded to be in line with the PHE and NHS England community pharmacy campaign "*Help Us Help You*".

HELP YOU "Help Us Help You" is the new umbrella campaign for Stay Well this Winter and Stay Well Pharmacy. The TARGET community pharmacy leaflet will be included and delivered to all pharmacies in England as part of the campaign.

Patient name			Self-care advice provided
Product(s) sugges			Patient advised to contact GP
Your infection	Without antibiotics most are better by	How to look after yourself and your family	When to get help
Middle-ear infection	8 days	Have plerky of mat. Dirke arough data award keeling thirsty. Askyour local plasmacist to recommend medicines to kelly your symptome or pain (or boh). Foreir a sign the body is fighting the most cause. No care use parameterism of you your child are uncomotable as a result of a free. Use a tissue and wash your hards well to help prevent spread of your intection to help means; theread of our intection to poar that of referent or a data plasmaci, theread Other things you can do suggested by your pharmary taxes:	The following are possible signs of serioral literas and should be assessed urgenty: 1. If you chin to work of the as atting using outcome rytu develops on round in atti. 2. If you chin effort have a strong using the sering problems can include 3. If you have information of the same strong of the sering problems can include 3. If you have information and the series of the s
Sore throat	7-8 days		
Sinusitis	14-21 days		
Common cold	14 days		
Cough or bronchitis	21 days		
Other infection:	days		age of 5 has any of symptoms 1-3 ge to A&E Immediately or call 899. Less serious signs that can usually wait until the next available appointment: 0. If you enro taining to provos all site by the imge in in the Muta be bette by Column. 10. In chidew with midde-air infection: If fuid is coming out of their area of they have new dealness. 11. Mid side effects such as darifoes, however seek medical alterition if yo/ne concerned. 12. Other



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Issue 5 Nov 2018

www.rcgp.org.uk/TARGETantibiotics/

PHE management of common infections antibiotic guidance update

The Public Health England *Management and treatment of common infections: antibiotic guidance for primary care* has been produced and updated over the last 20 years. It has been a journey from the simple original table to the 100 page document with detailed rationale we now have. This is very much in thanks to collaboration, feedback and input from you and many experts and stakeholders.

We are now going through a period of change. The Department of Health has asked NICE and PHE to develop management of infection guidance across primary and secondary care. This guidance, moving forward, will cover many of the sections that are already summarised in the PHE quick reference guide.

To facilitate CCGs use of the guidance, the two sets will be joined into one summary table and will be accessible together on the NICE managing infection website via a word document. The joint summary tables will now be produced by NICE/PHE and called *Summary of antimicrobial prescribing guidance – managing common infections*. As <u>new</u> syndromic NICE/PHE guidance is published, each PHE box in the NICE/PHE table summary will be replaced with content written by NICE, and users will be referred to the new rationale and infographic developed by the NICE team.

PHE references, rationales and surrounding text for the summary will be published in a separate document that will be on the PHE website (along with hyperlinks to the summary tables on the NICE website). PHE will continue to do occasional updates to PHE content based on user feedback or significant changes in the evidence base and a full review of their content every 3 years.

The joint guidance was published in October 2018 . Read more here.

Please contact **TARGETantibiotics@phe.gov.uk** if you would like a document with changes highlighted.

Diagnosis of UTIs - UTI quick reference diagnostic tools

The UTI diagnostic flowcharts are currently going through the final publication process and expected to be published during World Antibiotics Awareness Week. Based on feedback from stakeholder consultation we have worked to ensure alignment with the new NICE/PHE UTI treatment guidance and have subsequently delayed publication until after this is available.

Future TARGET interactive webinars

Rosie Allison gave an excellent update on the TARGET resources on the 23 October 2018 to support the launch of the new TARGET logo, rebranding and the Keep Antibiotics Working campaign. The interactive webinar was so popular, with over 60 individuals joining live, that further webinars will be held on the UTI resources. Dates for these future interactive webinars will be circulated by the end of 2018.



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www.rcgp.org.uk/TARGETantibiotics/

Issue 5

Nov 2018

Updated Under 65's Lower Urinary Tract Infection Patient Leaflet

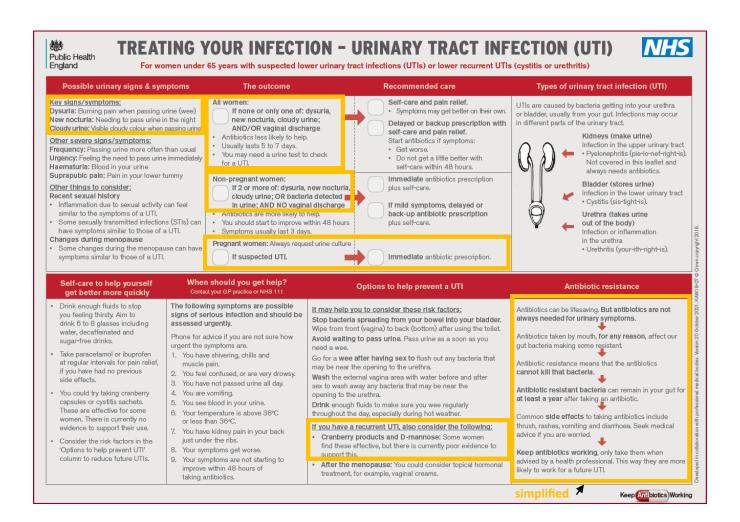
The Treating Your Infection leaflet for lower urinary tract infections (UTIs) has been updated in line with the Public Health England review of the evidence around the diagnosis of UTIs in under 65 year olds and updated NICE/PHE UTI antibiotic guidance launched in October.

The main changes are:

- Management of a UTI is now based on only 3 discriminating key symptoms and signs: dysuria, new nocturia and cloudy urine
- Urine dip-sticking on recommended for women with 0 or 1 key symptoms or signs
- D-mannose has been added as a possible preventative agent for women with recurrent UTI, although evidence is poor

The updated leaflet is currently going through the NICE endorsement process to support the following NICE guidelines:

- NG15 Antimicrobial stewardship: systems and processes for effective antimicrobial medicine use
- <u>NG63 Antimicrobial stewardship</u>: changing risk-related behaviours in the general population
- NG109 Urinary tract infection (lower): antimicrobial prescribing





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www.rcgp.org.uk/TARGETantibiotics/

Issue 5

Nov 2018

NICE endorsement for the older adult UTI resources

What is NICE endorsement?

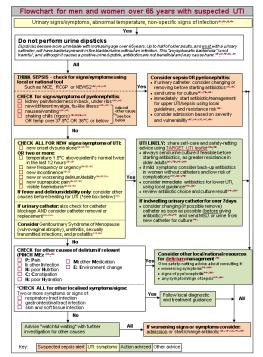
The NICE Endorsement Programme formally endorses resources produced by external organisations that support the implementation of NICE guidance and the use of quality standards in part or in full.

Why do we want NICE endorsement for our resources?

Any TARGET resources endorsed will benefit from having the a NICE endorsement statement. Resource will also be signposted to from the relevant NICE guidance and quality standard webpages and listed on the NICE endorsement webpage. It also provides an opportunity to develop the resource further with support from NICE.

In October 2018 the TARGET UTI leaflet for older adults and carers and the UTI quick reference diagnostic tools were endorsed by NICE, pictured below.





How do these resources link to NICE guidance?

The UTI leaflet for older adults and their carers and the UTI quick reference diagnostic tools accurately reflects recommendations in the NICE guideline on:

- <u>NG15 Antimicrobial stewardship</u>: systems and processes for effective antimicrobial medicine use
- <u>NG63 Antimicrobial stewardship</u>: changing risk-related behaviours in the general population
- <u>NG109 Urinary tract infection (lower)</u>: antimicrobial prescribing

Other TARGET resources endorsed by NICE

TARGET currently have three other leaflets endorsed by NICE:

- The Treating Your Infection Respiratory Tract Infection leaflet
- The TYI Respiratory Tract Infection pictorial leaflet
- The Treating Your Infection Uncomplicated Urinary Tract Infection leaflet (seeking re-endorsement following updates)



Treat Antibiotics Responsibly: Guidance, Education, Tools.

Issue 5 Nov 2018

www.rcgp.org.uk/TARGETantibiotics/

Published research

"Effectiveness of Behavioural Interventions to Reduce Urinary Tract Infections and E. coli Bacteraemia for Older Adults Across all Care Settings: A Systematic Review" published in the Journal of Hospital Infection. The full article will be available <u>here.</u>

Jones L, Meyrick J, Bath J, Dunham O, McNulty CAM

Background: Escherichia coli bacteraemia rates in the UK have risen; rates are highest amongst older adults. Previous Urinary Tract Infections (UTIs) and catheterisation are risk factors. This review examines effectiveness of behavioural interventions to reduce E.coli bacteraemia and/or symptomatic UTIs for older adults.

Method: Sixteen databases, grey literature and reference lists were searched. Titles and/or abstracts were scanned and selected papers read fully to confirm suitability. Quality was assessed using Critical Appraisal Skills Programme guidelines and Scottish Intercollegiate Guidelines Network grading.

Results: 21 studies were reviewed, and all lacked methodological quality. Six multi-faceted hospital interventions including education, with audit, and feedback or reminders reduced UTIs but only three provided statements of significance. Dickson et al reported decreasing catheter associated UTI (CAUTI) by 88% F(1,20)=7.25. Smith et al, reported reductions in CAUTI from 11.17 to 10.53 during Phase I and by 0.39 during Phase II (Chi-square=254). Van Gaal et al reported fewer UTIs per patient week (rr=0.39). Two hospital studies of online training and catheter insertion and care simulations decreased CAUTIs from 33 to 14 and from 10.40 to 0. Increasing nursing staff, community continence nurses, and catheter removal reminder stickers reduced infection. There were no studies examining prevention of E. coli bacteraemias.

Conclusions: The heterogeneity of studies means one effective intervention cannot be recommended. We suggest feedback should be considered because it facilitated reductions in UTI when used alone or in multifaceted interventions including education, audit or catheter removal protocols. Multi-faceted education is likely to be effective. Catheter removal protocols, increased staffing and patient education require further evaluation.

"A qualitative study to explore the views of general practice staff on the use of point-of-care C-reactive protein testing for the management of lower respiratory tract infections in routine general practice in England" has been published in the **BMJ Open**. The full article will be available <u>here:</u> Eley CV, Sharma A, Lecky DM, Lee H, McNulty CAM

Objectives: To explore the knowledge, skills, attitudes and beliefs of general practice staff about C-reactive protein (CRP) point-of-care tests (POCT) in routine general practice and associated barriers and facilitators to implementing it to improve the management of acute cough.

Design: A qualitative methodology including interviews and focus groups using the Com-B framework to understand individuals' behaviour to implement CRP POCT in routine general practice. Data was analysed inductively and then aligned to the Com-B framework.

Setting: A service evaluation of CRP POCT over a 6 month period was previously conducted in randomly selected GP practices from a high prescribing NHS CCG in England. All eleven intervention practices (eight accepting CRP; three declining CRP) and the eight control practices, which were not offered CRP POCT, were also invited to interview. A further randomly selected practice not allocated to intervention or control was also invited to participate.

Participants: Seven of eight accepting CRP, one of three declining CRP, and four of nine control practices consented to participate. 12 practices and 26 general practice staff participated; eleven interviews, three focus-groups and one hand written response.

Results: Participants reported that CRP POCT can increase diagnostic certainty for acute cough, inform appropriate management, manage patient expectations for antibiotics, support patient education, and improve appropriate antibiotic prescribing. Reported barriers to implementing CRP POCT included; CRP cost, time, easy access to the POCT machine, and effects on clinical workflow. Participants with greater CRP use usually had a dedicated staff member with the machine located in their consultation room.

Conclusions: CRP POCT can help general practice staff improve patient care and education if incorporated into routine care, but this will need enthusiasts with dedicated POCT instruments or smaller, cheaper, more portable machines. In addition, funding will be needed to support test costs and staff time.



Treat Antibiotics Responsibly: Guidance, Education, Tools.

Issue 5 Nov 2018

www.rcgp.org.uk/TARGETantibiotics/

The role of practice and community nurses in appropriate antibiotic use

Everyone has a responsibility to tackle AMR by preventing infection and using antimicrobials appropriately. In the primary care setting, nurses are the point of contact for many patients presenting with selflimiting infections, such as coughs, colds, ear infections, urinary symptoms. This often includes parents accompanying their children; nurses are responsible for managing patient and parents' expectation during these consultations.

Managing patient and parents' expectations during a consultation: the six Rs

Patients and parents need to feel that their concerns have been listened to and addressed, which in turn should help reduce future GP consultations and unnecessary antimicrobial prescriptions. 'The six Rs' of good practice for information exchange can be used to elicit patient concerns and expectations:

- 1. **Reassurance**—reassure the patient about the severity of the infection
- 2. **Reasons**—provide reasons if antimicrobials are not necessary. Communicate these to the patient in a clear manner
- 3. Relief—this can be advised in the form of paracetamol for pain
- 4. **Realistic**—give a realistic natural history or length of duration of illness
- 5. **Reinforce**—reinforce the key message that back-up prescriptions (if appropriate ie. when there is clinical uncertainty about whether a condition is self-limiting or is likely to deteriorate) must only be used if symptoms worsen or do not begin to settle in the expected time
- 6. **Rescue**—give safety netting advice at the end of the consultation.

These will be covered in the TARGET webinar number 4 by Paul Little.

Use "Leaflets to share with patients" to support clear communication with patients and parents

- TARGET TYI-RTI—appropriate for patients who present with: middle-ear infection; sore throat; sinusitis; common cold; cough or bronchitis, and do not require treatment with antimicrobials. Available in nearly 20 languages, but do <u>contact us</u> if you require other languages.
- TARGET TYI-RTI (pictorial) suitable for people with lower literacy and language needs, and emphasises how to manage an infection through self-care.
- When should I worry?—information for parents about the management of RTIs, such as: coughs, colds, sore throats and ear aches in children.
- Caring for children with coughs—contains information about how to look after a child who has a cough (not due to asthma)
- TARGET TYI-UTI—appropriate for women who have urinary symptoms suggestive of an uncomplicated UTI.
- TARGET TYI-UTI for older adults—designed to be used with older adults who are at risk of UTI, experiencing urinary symptoms or have been diagnosed with UTI

ACTION: Encourage practice and community nurses to sign up to <u>Future Learn</u> e-Learning to reflect on your practice and tests your knowledge on managing patient expectations OR watch the full hour webinars here (Webinar 3)

ACTION: Encourage practice and community nurses to sign up to TARGET to keep up-to-date

ACTION: Encourage practice and community nurses to use 'leaflets to share with patients' in consultation to aid clear communication. All leaflets can be downloaded from the <u>TARGET website</u>.



Treat Antibiotics Responsibly: Guidance, Education, Tools.

www.rcgp.org.uk/TARGETantibiotics/

Issue 5

Nov 2018

Come meet the team: Meetings and Conferences

Infection Prevention Society Conference #IP2018

It was lovely to see so many of you at the Infection Prevention Society Conference in Glasgow in September. TARGET delivered an oral presentation, three poster talks and a symposium. The team came away with the *"Best Small Exhibition Stand"* award—thoroughly deserved.



General Practice Research on Infections Network (GRIN) Conference

This year saw the 20th annual GRIN conference, held in Zeist, Netherlands. TARGET were invited to present our research on: CRP implementation; local AMS initiatives; GP's research needs; and our recent development of UTI resources for older adults. All were warmly received by the delegates, especially our insight into facilitators and barriers for real-life implementation of CRP in general

Future Meetings and Conferences

Federation of Infection Societies (FIS) Conference

For full programme click here

Dates: 13-15th November 2018

Venue: Sage Gateshead, Newcastle

Public Health England have an exhibition stand at this conference. The TARGET resources will be promoted on this PHE stand. Please visit the team!

British Society for Antimicrobial Chemotherapy (BSAC) Spring Conference

For full programme <u>click here</u>

Dates: 21-22 March 2019 Venue: International Convention Center, Birmingham Abstracts from the TARGET team will be submitted to this conference.

Public Health England Health Research and Science Conference

For full programme <u>click here</u> Dates: 9-10 April 2019 Venue: University of Manchester Abstracts from the TARGET team will be submitted to this conference.



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Issue 5 Nov 2018

www.rcgp.org.uk/TARGETantibiotics/



The TARGET Team

Professor Cliodna McNulty, TARGET Programme Lead

Cliodna, a clinical microbiologist, leads the Public Health England Primary Care Unit. She has led numerous large surveys on the public's use of and attitudes to antibiotics and resistance and is an expert advisor to the ECDC Advisory Committee on AMR and HCAIs.

Dr Donna Lecky, TARGET Programme Manager (on maternity leave)

Donna has a background in microbiology research, programme management and resource development having previously managed the development of the e-Bug educational resources for school aged children, the PHE stool collection leaflet and the TARGET Urinary Tract Infection leaflet.

Charlotte Eley, TARGET Programme Manager (maternity cover)

Charlotte is TARGET Programme Manager maternity cover. Charlotte also manages research projects within the TARGET Programme including a point-of-care C-reactive protein study in Oldham CCG. Previously been involved in developing the TARGET TYI-RTI pictorial leaflet for patients with lower literacy levels.

Emily Cooper, TARGET Project Manager

Emily has a background in nursing and public health. She works part time supporting resource development projects within TARGET and is currently involved in activities that focus on prevention and management of urinary tract infections in older adults.



Leah Jones, TARGET Research Project Support Officer

Leah has a background in Psychology and is currently studying for a Professional Doctorate in Health Psychology. Leah's current work includes the development of a urinary tract infection patient leaflet for older adults, and exploratory work in community pharmacies with the view of developing resources for the pharmacy setting.



Rosie Allison, TARGET Research Project Support Officer

Rosie is a TARGET Research Assistant with a background in Biology and Public Health. Rosie has previously been involved in qualitative research studies and her current work involves liaising with medicines management teams to collect data on local implementation of antimicrobial stewardship initiatives via a national questionnaire.



Rosie Alouat , Project Manager (RCGP)

Rosie is a Project Manager for the RCGP's Clinical Innovation and Research Centre, focusing on the College's quality improvement projects. Her portfolio of work includes the maintenance of the TARGET Toolkit on the RCGP website and managing QI Ready.

