# AMR Awareness Tools for schools

Promoting antimicrobial awareness to school-age children: A toolkit for local authorities



Security Agency







World Antimicrobial resistance Awareness Week

18th – 24th November

### How to use this toolkit

This toolkit aims to provide free, quick and ready-to-use resources to support local authorities to coordinate local antimicrobial awareness campaigns for children and young people during World Antimicrobial Awareness Week (WAAW) and beyond. It includes a wide variety of suggestions for engagement with healthcare professionals, educators, children, parents, carers and the public

### What is in the toolkit?

This toolkit provides a range of evidence-based public health interventions reviewed and selected from a range of different sources

The toolkit focusses on digital messaging to support sustainability, and ease of communication

### Who is the toolkit for?

The toolkit was developed for Local Authority teams in the East of England with a lead for or interest in children and young people's health and wellbeing

#### How should the toolkit be used?

Each page contains resources for a specific group who work with CYP. Each resource can be accessed by clicking on the hyperlink. Local authorities can select a suite of activities from the different resources to promote good health practices and to prevent antimicrobial resistance across a number of community settings

> NHS We should only take antibiotics when we really need them.

### What sources does the toolkit use?

Sources include e-Bug, UKHSA WAAW resources, UKHSA Antibiotic Guardian resources, NHS Health Education for England eLearning for Health, Imperial College London Health Protection Research Unit, the Seriously Campaign, and the UK Paediatric Antimicrobial Stewardship (UK-PAS) network

### Who developed the toolkit?

The toolkit was developed in partnership with East of England teams in NHS England, ICBs, Local authorities and UKHSA

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### Introduction to Antimicrobial Resistance (AMR)

There is a wealth of information available to support AMR awareness campaigns. This toolkit brings together these relevant, free, publicly available resources into one place to support local authorities to promote awareness of AMR to children and young people in their local communities

### What is antimicrobial resistance?

Antimicrobial resistance occurs when microbes, such as bacteria, fungi or viruses, change in a way that makes the drugs used to treat them ineffective. Every time an antibiotic is used, we put pressure on bacteria to evolve and develop resistance

These resistant microbes can then survive, multiply and be passed on to other people and animals meaning that antimicrobial resistant infections can spread rapidly

Without effective drugs, routine medical procedures, minor injuries and common illnesses can become life-threatening



10 million people could die every year, by 2050, due to drug resistant infections.

#### Why is AMR in children important?

Children experience a greater burden from AMR and infections compared with adults. Antibiotic use in children is also high

Antibiotics are prescribed for a range of medical and non-medical reasons including the perceived vulnerability of children, concern about a rapid change in clinical state, and to mitigate a perceived risk of future hospital admissions and complications

Yet antibiotic use can have harmful longterm effects, (including increased risk of <u>atopic dermatitis</u> allergic symptoms <u>food</u> <u>allergies</u>, allergic <u>rhinoconjunctivitis</u>, <u>wheez</u> <u>ing</u>, asthma, increased weight gain or overweight, obesity, <u>juvenile idiopathic</u> <u>arthritis</u>, <u>psoriasis</u>, <u>autism spectrum</u> <u>disorders</u> and <u>neurodevelopment</u> disorders) and evidence shows that for some infections, the risk of complications is low and not prevented by prescribing antibiotics

Reference: <u>Antibiotic exposure and adverse long-term</u> <u>health outcomes in children: A systematic review and meta-</u> <u>analysis – ScienceDirect</u>

#### What can we do to prevent AMR?

Raising awareness of AMR is important to encourage collective action to help us reduce the associated risks

Every year WAAW takes place from 18 to 24 November and is led globally by the World Health Organization (WHO). It aims to increase awareness of global AMR and to encourage best practices to avoid the further emergence and spread of drug-resistant infections

These campaigns support the aims of the <u>UK 20-year</u> vision for <u>AMR</u> and <u>5-year national action plan (NAP)</u>



#### How can we raise awareness of AMR in Children and young people?

Key to raising awareness of AMR in children and young people is through engagement with and participation from local communities, building on local assets to educate and inform people about the risks of AMR and the prevention and management of infection in children and young people. By working together we can reduce the risk of AMR in children and for future generations



### **Tools for educators**

In building the resilience of future generations, educators can make a positive impact by communicating AMR messages to children and young people. To engage educators there are a number of resources we can encourage educators to use

**Training:** Encourage educators to <u>Become an e-Bug educator</u> to teach CYP how to prevent the spread of infections and how to use antibiotics responsibly

**Letter to schools:** Share a letter with school headteachers, introducing WAAW and how they can get involved to raise awareness of AMR.

### **Newsletter items:**

Share a newsletter item to ensure the AMR message is shared across the school.

Share <u>resources for parents</u> with schools so they can be added to newsletters or communications

**Lesson plans:** Encourage schools to use <u>e-Bug</u> resources. e-Bug (operated by the UKHSA) provides lesson plans and resources for school-aged children split into <u>Key Stage 1</u>, <u>Key</u> <u>Stage 2</u>, <u>Key Stage 3</u>, <u>Key Stage 4</u>. These include:

- Instructions and discussion points for the presenter
- Interactive whiteboard sessions
- A range of activities
- Aids for discussion

### Vaccination guidance: Ensure that

educators have up to date <u>primary</u> and <u>secondary</u> school guidance on vaccinations and <u>resources</u> to share with parents and carers.

Vaccines can help prevent the spread of infections. Fewer infections mean fewer antimicrobials are used – reducing the risk of AMR and drugresistant infections





### **Tools for educators and primary school-aged children**

Resources can be used to introduce children aged 5-11 years to positive behaviours (such as hand washing, respiratory, and oral hygiene), microbes and the importance of vaccinations to help to prevent infection and reduce the need for antibiotics

### Lesson plans

Suggested e-Bug lesson plans designed to complement the National Curriculum. Key Stage 1 and 2

- KS1 Introduction to Microbes
- KS2 Harmful Microbes

KS2 Antibiotics

KS2 Vaccinations

### Activities

<u>Additional e-Bug resources</u> including sports games, experiments, word games, comic strips

### **Co-production opportunities**

Co-production challenges can be run to engage children (see Box 1 for an example suggested by The Antimicrobial Guardian Campaign)





### Box 1: Poster co-production for schools

Develop an eye-catching poster to show others how and why they should protect antibiotics.

Young people should be encouraged to focus on one area they feel strongly about:

- Microbes
- Hand Washing
- Respiratory Hygiene
- · Spread of infection
- Not using antibiotics for viral infections
- Going to the pharmacy before a GP for colds, coughs and sore throats
- Getting vaccinated to prevent getting ill

How to use the posters:

- Make a display of posters in schools and newsletters.
- Encourage young people to take posters home and present to family
- Send to your local PH team, community centre, library pharmacy or hospital to share with others in the community

### Tools for educators and secondary school aged children

Resources can be used with children aged 11-16 years to inform them about useful and harmful microbes; hand, respiratory and food hygiene; vaccinations, and antibiotics and the role these play in AMR

#### Lesson plans

Suggested lesson plans designed to complement the National Curriculum .Key Stage 3 and 4

KS3 Antimicrobial Resistance

KS4 Antimicrobial Resistance

KS3 Vaccinations

KS4 Vaccinations

### Activities

Additional eBug resources includes sports games, experiments, word games, comic strips

#### Quizzes and crosswords

<u>Debate kits</u> (with teacher instructions) on antibiotic resistance and vaccinations<u>Seriously AMR Education</u> <u>Campaign</u> includes comic strips, word searches and board games

#### **Training events**

Antibiotic Guardian Schools Ambassador Toolkit use to connect with local schools and promote a toolkit of lesson resources

Antibiotic Guardian Youth Badge (e-bug.eu) to engage young people on antibiotic resistance and motivate them to keep antibiotics working through reducing infections and using antibiotics responsibly





# Tools for health care professionals working with CYP

By working in partnership with health care professionals we can prevent serious infections and AMR through promoting control measures, encouraging the uptake of vaccinations, and reducing inappropriate antibiotic use

#### Raise awareness of current guidance

To avoid inappropriate antibiotic prescribing, UKHSA recommend that healthcare professionals:

- Follow current NICE guidelines: <u>Products -</u> <u>Antimicrobial stewardship | Topic | NICE</u>
- Explain to patients that antibiotics do not prevent or treat viral infections, that antibiotics can cause side-effects, and that their use can increase the risk of spreading infections that are caused by bacteria resistant to antibiotics
- Encourage patients to return unused medicines to a pharmacy, not to share or keep unused medicines
- Consider the use of solid dosage forms when prescribing antibiotics for children: <u>Using solid</u> <u>oral dosage form antibiotics in children – SPS</u> <u>- Specialist Pharmacy Service – The first stop</u> <u>for professional medicines advice</u>





children would need to be OVER-TREATED WITH ANTIBIOTICS EVERY TIME



### **Encourage HCPs to Join a professional**

**Network** such as the <u>UK Paediatric</u> <u>Antimicrobial Stewardship</u>

### **Encourage HCPs to complete training**

TARGET tools to train prescribers: TARGET antibiotic toolkit training resources | RCGP Learning

Learning resources for prescribers: Webinars | RCGP Learning

To improve their ability to teach CYP

Health Educator Training

e-Bug Educator Training

To help HCPs to understand the threats and management of antimicrobial resistance

Antimicrobial-Resistance and Infection Programme

### Tools for parents, carers, the public and community groups

The outcome of AMR awareness campaigns with children and young people can be strengthen with the active engagement of the public, and in particular parents and carers.

### Share guidance on tablet swallowing:

Swallowing tablets is preferable to IV antibiotics to reduce AMR and can be taught to children aged 4yrs+

Teaching your child to swallow tablets: Healthier Together

<u>Helping your child to swallow tablets –</u> <u>Medicines For Children</u>

## Share guidance on managing infections:

Share this <u>caring for children with cough</u> <u>leaflet</u> as Many coughs and respiratory tract infections do not respond to antibiotics

### General guidance on antibiotics and AMR:

<u>General advice about antibiotics leaflet</u> <u>Antimicrobial Resistance - what can I do as a</u> parent

#### Box 2: WAAW daily themes

Day 1: 'Prevention' theme (including infection prevention and vaccination).

Day 2: 'Antimicrobials in clinical practice' and engagement with patients and the public.

Day 3: 'Optimising diagnostics'

Day 4: 'Antimicrobials and untrue or spurious allergy' theme

Day 5: 'Antimicrobial resistance and the environment and research' theme



**#AntimicrobialResistance** is one of the most urgent global threats to the public's health. Antibiotics can cause side-effects, including nausea and diarrhoea and contribute to the development of **#antibioticresistance**.





#AntibioticGuardian #KeepAntibioticsWorking #WAAW

### Daily themes:

WAAW has one theme per day (see Box 2). <u>Resources for the daily themes</u> can be used for media communications each day

### Media messaging resources:

#### **Infographics**

Twitter / X posts

Social media posts

Digital sticky notes for social media

Tips for working with your local comms teams

## **Tools for local authority workforce**

AMR is an issue that can affect everyone. Additional resources are available to raise awareness among adult populations groups and those working in local authorities

Vaccines can also help prevent the spread of infections. Fewer infections mean fewer antimicrobials are used – therefore reducing the risk of antimicrobial resistance and drug-resistant infections. It is important to ensure that awareness campaigns include immunisation awareness information

### Additional AMR toolkits and guidance

World Antimicrobial Resistance Awareness Week (WAAW) and European Antibiotic Awareness Day (EAAD) - GOV.UK

Dental antimicrobial stewardship: toolkit - GOV.UK

### Vaccination guidance and resources

Adolescent vaccination programme: briefing for secondary schools 2024 to 2025 - GOV.UK

Flu vaccination in schools - GOV.UK

Childhood Immunisations Campaign Resource Centre - GOV.UK

Digital sticky note to use social media comms

### Training for LA workforce

Beat the Bugs is a six-week community hygiene course aiming to equip people with information to keep themselves and others healthy by preventing the spread of infection and learning about treating infection

NHSE elfh Hub Antimicrobial Resistance Training Programme and Toolkit Take **ANTIBIOTICS** exactly as prescribed, never save them for later, never share them with others.







#Antibiotic Guardian #Keep Antibiotics Working

### **Resources from local authority WAAW campaigns**

WAAW is marked across the country. Here are some examples of good practice from local authority campaigns in different regions that can be adapted locally



### Tools for improving sustainability and addressing inequalities

Improving sustainability and addressing health disparities and inequalities are two of the cross-cutting themes underpinning all 5 days of the WAAW campaign

## Ways to help reduce environmental contamination:

The incorrect disposal of antimicrobials can have an adverse effect on the environment if they get into the ecosystem. Ways to help include:

- Raise awareness of the environmental effects of not disposing of antimicrobials safely
- Encourage individuals to return unused antimicrobials to a pharmacy for safe disposal and not to flush antimicrobials down the toilet
- Run a local <u>antibiotic amnesty</u> <u>campaign</u>
- Use <u>Antibiotic Amnesty Resources</u>
- Use <u>AMR and environmental</u> <u>sustainability</u> resources



## Ways to help improve the sustainability of an AMR campaign

Try to reduce the environmental impact of the campaign by

Going paperless

No new antibiotics

in the pipeline.

Dan't throw them down the

drain - Protect the environment.

#Antibiolic Suardian # Keep Antibiotics Working

- Only using digital resources
- Conducting virtual webinars and meetings

Standardised blood Culture pathways = Fewer health Inequalities. #Antibiotic Stuardian #Keer Antibiotic Stuardian

### Ways to address inequalities

Healthcare professionals, including those in the pharmacy profession, are ideally placed in community and hospital settings to raise awareness of how inequalities impact infection management and resistance rates (e.g., using standardised blood culture pathways), as well as advocating for equity of access in Core20PLUS5 populations

Use the WAAW <u>key messages</u> to reach out to certain populations and vulnerable groups to provide information that is clear and concise and can encourage conversations and raise awareness of AMR

Use the <u>leaflets</u>, <u>poster and social media</u> <u>resources</u> that have been translated into 12 languages to engage with different community groups

Use e-Bug Translated lesson plans

### Developed in partnership across the East of England Published November 2024

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