Data driven improvement



Data and Dashboards available to support Antimicrobial Resistance improvement

Presentation for SPS Mini Conference – Antimicrobial Stewardship (AMS) – unlocking the potential

07/03/2023

Elizabeth Beech MBE - Regional Antimicrobial Stewardship Lead - NHS England - South West elizabeth.beech@nhs.net

Christine Pinkard – Analytical Lead – Prevention Team – NHS England (National)
Christine.pinkard@nhs.net

The data landscape in AMR



- AMR-related data is currently presented via a multitude of dashboards, reports and other data tools that are owned by a range of organisations.
- It is recognised that getting up to speed on so many different tools is a key challenge faced by many colleagues requiring data and intelligence related to AMR.
- To address this, a task and finish group comprising national workstream leads commenced in July-2022. This group aims to develop an understanding of the data and reporting needs of colleagues working in a wide range of roles in the AMR space.
- Tailored support and guidance are being developed to facilitate easy access to the most important trends and figures
 relevant to each role, expected to be published on the AMR futureNHS workspace in the coming weeks.
- We are also developing slide packs that make a small number of the most important metrics related to Antimicrobial Resistance readily available in a high-level report. The reports will be generated each month at national, regional and ICB level.

Keep an eye out for the slide packs and dashboard guidance docs coming soon to the futureNHS workspace:

AMR – Data Workstream - Antimicrobial Resistance Programme - FutureNHS Collaboration Platform

Please contact england.prevention-amr@nhs.net for further information

Data driven improvement – which data dashboards are available to use, how to access, and why

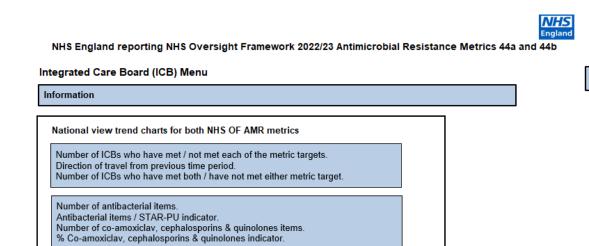


- Data driven improvement there are a variety of NHS data dashboards supporting delivery of both the UK AMR
 National Action Plan ambitions for human health and the NHS Long Term Plan AMR Programme. These data
 dashboards vary by purpose and focus. For example, alignment to clinical pathways such as UTI, or patient
 populations such as children, or organisational place of care such as hospital admissions for sepsis and infection.
 All support assurance and improvement activity, and can be used individually or collectively
 - Identifying opportunity for improvement many of the data dashboards are intended to support
 improvement at different NHS organisational levels. Organisations can identify opportunities for
 improvement looking at variation both between organisations, and within organisations over time; and seek
 the shared learning to adopt and adapt. Dashboard data also support reporting for assurance
 - **Drill down** to the detail to better understand variation; such as length of stay by age in hospital admissions associated with a specific infection such as pneumonia; or rates of antibiotic prescribing by gender, or change between time periods
 - **Inform local strategy** combine data from these data dashboards to 'tell the story'; for example, what contributes to the burden of UTI at an integrated care system level? Where to prioritise improvement? What benefits will this deliver for the organisation / population /patient? What did/do other organisations do?

NHS England Oversight Framework 2022/23 dashboard reporting Antimicrobial Resistance metrics 44a and 44b

Back to Home





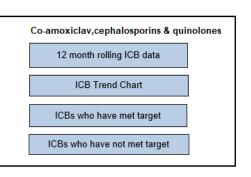
Antibiotics/STAR-PU

12 month rolling ICB data

ICB Trend Chart

ICBs who have met target

ICBs who have not met target



How to access?

Via the AMR FutureNHS workspace here

• Why use?

Reporting ICB performance against NHS Oversight Framework

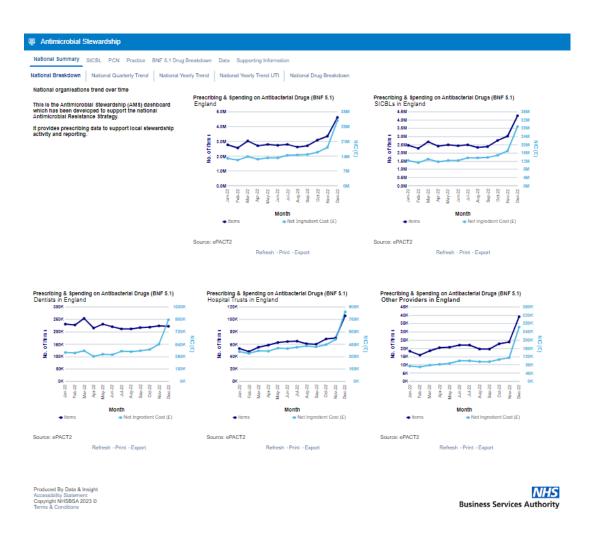
This is the data feed to the NHS Oversight Framework dashboard

Good for

ICB performance and assurance reporting for the NHS Oversight Framework must use this dashboard Monthly publication



NHS BSA ePACT2 Antimicrobial Stewardship Dashboard



How to access?

Via NHSBSA ePACT2 <u>here</u> registration required

· Why use?

Reporting performance against NHS Oversight Framework metrics at National, SICBL, PCN and Practice level over time

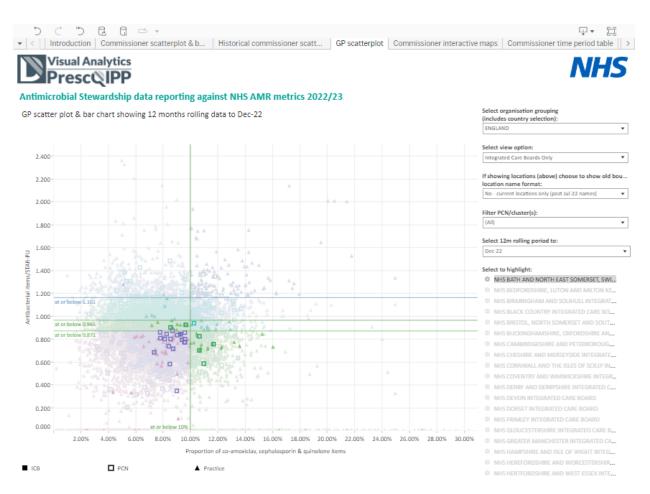
Reports antibiotic item prescribing count over rolling 12 months

Good for

Reporting NHS Oversight Framework metrics at SICBL, PCN and GP practice level over time. Trending change in selected antibiotic item count. Monthly publication.

PrescQIPP AMS Visual Analytics to support Antimicrobial Stewardship activity FY 2017/18 onwards to FY 2022/23





How to access?

Open data via PrescQIPP AMS Hub

• Why use?

Open access. Wide range of pre-set data viz reports. Filters allow user to select and highlight organisations and download images. Reports selected antibiotic item prescribing count over rolling 12 months. Do not use for ICB NHS Oversight Framework performance assurance reporting.

Good for

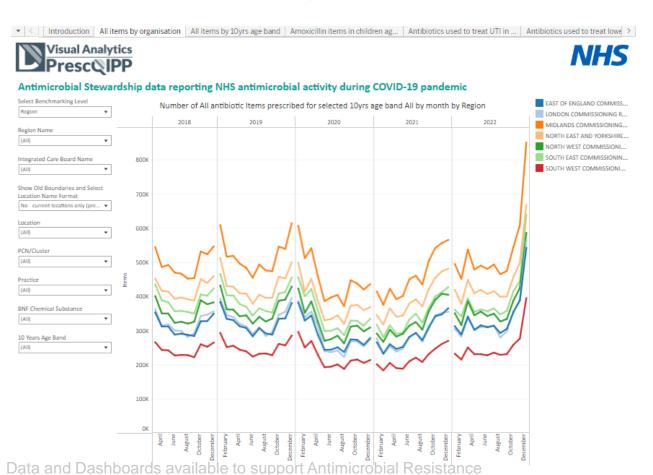
Data for improvement with ready to use scatter/trending plots coloured by performance against NHS Oversight Framework metric targets at ICB, PCN and GP organisational level

PrescQIPP AMS Visual Analytics to support NHS antimicrobial stewardship activity during COVID-19 pandemic



<u>Home</u> > <u>Our resources</u> > <u>Webkits</u> > <u>Antimicrobial stewardship</u> > AMS Visual Analytics to support NHS antimicrobial stewardship activity during COVID-19 pandemic

improvement - SPS Mini Conference 07.03.23



How to access?

Open data via PrescQIPP AMS Hub

Why use?

Open access. Wide range of pre-set data viz reports. Filters also allow user to select and highlight by antibiotics, age band, organisation

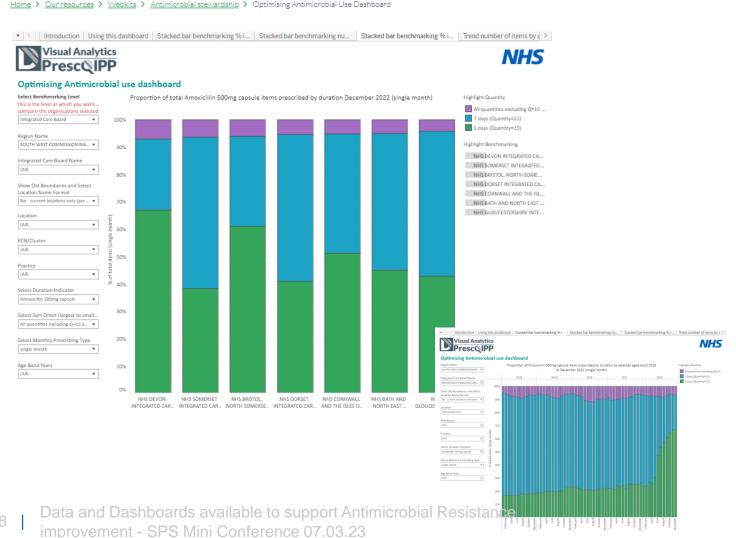
Reports primary care antibiotic prescription item counts monthly by selected NHS organisation

Good for

Monitoring monthly trending activity from April 2018 at Region, ICB, PCN and GP organisational level. Evidences impact of pandemic on antibiotic use in primary care



PrescQIPP Optimising antimicrobial use dashboard



How to access?

Open data via PrescQIPP AMS Hub

Why use?

Open access. Wide range of pre-set data viz reports. Only dashboard reporting duration by specific antibiotic.

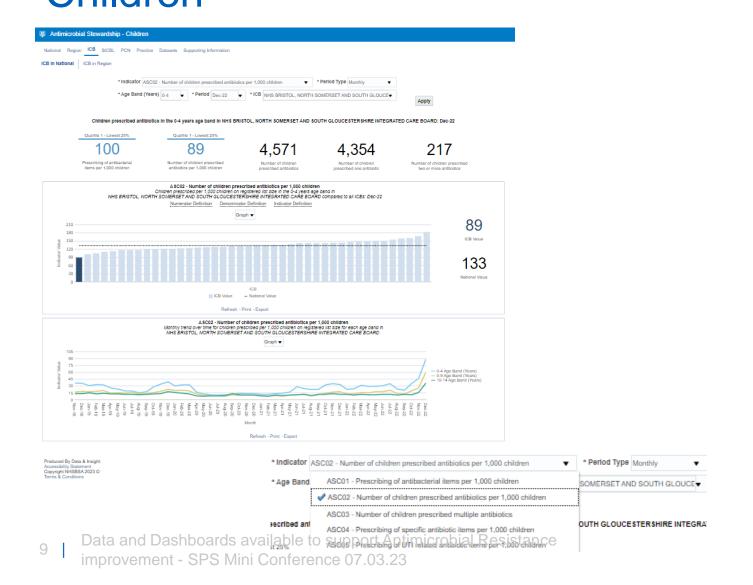
Reports primary care amoxicillin 500mg capsule prescribing by quantity aligned to duration of use. Intended to promote 5day duration.

Good for

Monitoring adherence to NICE antimicrobial prescribing guideline recommendation for amoxicillin 500mg tds for 5 days for most RTIs

NHS BSA ePACT2 Antimicrobial Stewardship Dashboard Children





How to access?

Via NHSBSA ePACT2 <u>here</u> registration required

· Why use?

Improve antibiotic stewardship in the population of children.

Includes a count and proportion of children prescribed antibiotics in primary care by 5Y age bands, by month/12 month. Trends from 2018. Selection by specific antibiotic(s)

Good for

Improvement in a defined population known to have high antibiotic use. Supports penicillin allergy delabelling improvement.

NHS BSA ePACT2 Antimicrobial Stewardship Dashboard RightCare UTI Focus Pack

NHS England

This dashboard is in redevelopment

♠ RightCare - National → Data packs → Urinary Tract Infection data packs

Urinary Tract Infection data packs

Urinary Tract Infections: benchmark, compare and identify opportunities for local systems to improve and reduce unwarranted variation

The data packs enable local health systems to identify opportunities for further improvement in the safe and effective management of UTI in primary care, in particular in older people, and builds on the improvement delivered by the NHS 2019/20 CQUIN scheme Improving the management of lower urinary tract infections in older people

Personalised for each CCG, the packs provide an opportunity to assess and benchmark current systems to find opportunities for improvement, with a focus on presenting a CCG's variation from its most similar 10 peers. This is supported by a new NHS Business Services Authority (NHSBSA) ePACT2 dashboard reporting the latest performance for the RightCare antibiotic prescribing metrics at a variety of NHS organisational levels such as CCG, Primary Care Network, GP practice level. This dashboard is updated monthly and supports reporting of improvement trends.

As most health conditions are linked to demographic factors, RightCare compares systems to their closest demographically similar peers. This is to provide realistic comparisons taking into account the need for healthcare of different populations.

Access the RightCare UTI Data Packs here

Antibiotic prescribing indicators ePACT2 dashboard with latest data to identify opportunities for improvement

The RightCare packs and associated ePACT2 dashboard allow commissioners and PCNs to identify opportunities for improvement and risk reduction associated with:

- Primary care prescribing of antibiotics to treat lower UTI, with a focus on prescribing in people aged 70+ years using new prescribing indicators
- · Inpatient admissions for UTI, including readmissions
- E.coli bloodstream infections
- · Admissions from care homes
- · Urinary catheter use in the community

This resource has been developed in collaboration with our Antimicrobial Resistance (AMR) team, Public Health England and the NHS Business Services Authority.

To support NHS antimicrobial stewardship improvement activity, the NHSBSA has created a new ePACT2 dashboard that reports the RightCare primary care antibiotic prescribing indicators found in this product on a 12-month rolling basis at National, Regional, ICS, CCG, PCN and GP practice level. This allows local healthcare systems to use the most recent prescribing data to identify improvement opportunity, and report associated improvement delivered, supporting system improvement activity associated with the wider RightCare UTI data pack content.

How to access?

Via NHSBSA ePACT2 <u>here</u> registration required. RightCare UTI data packs via FutureNHS <u>here</u>

· Why use?

Aligns to the primary care antibiotic prescribing metrics in use in RightCare UTI data pack which focus on improving the management of lower UTI in people aged 70+Y in primary care

Good for

Improvement in a defined population known to have higher risk of antibiotic resistant UTI, and highest burden of Gram-negative blood stream infections (GNBSI).

NHS England Model Health System AMR Dashboard - UTI



Urinary Tract Infection Risk Factors Antibiotic prescribing in primary care Catheter prescribing in primary care Indwelling Catheters - Unique patients per 100,000 population, National Distribution The number of people prescribed indwelling catheter fems in the 12 month period per 100,000 GP registered population Community E.coli Positive Urine susceptibility testing A&E attendances Inpatient admissions E.coli and Klebsiella bacteraemia rates Inequalities

How to access?

Via Model Health System <u>here</u> registration required

Why use?

Improvement of the UTI pathway at an integrated care system level. Reports a wide variety of UTI related metrics based on routine NHS data. Includes metric reporting by gender

Good for

System level improvement in a defined population known to have higher risk of antibiotic resistant UTI, and highest burden of Gram-negative blood stream infections (GNBSI). Reports population use of urinary catheters



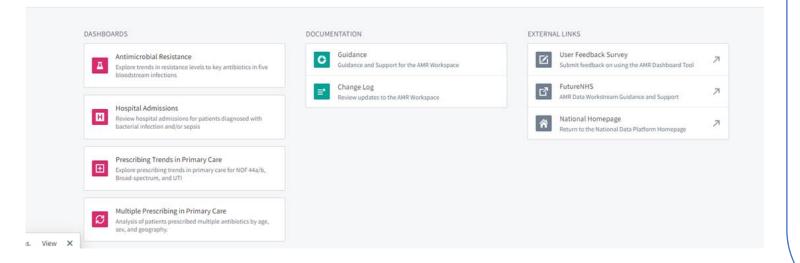




Antimicrobial Resistance

Data and Analysis Dashboard Tool

The core aim of the AMR Dashboard Tool is to provide a mechanism for the NHS to identify variation in the patterns of infection, treatment, and patient outcomes across different care settings and pathways.



How to access?

Link to the AMR dashboard

Instructions on how to obtain access

Why use?

For data related to hospital admissions and outcomes for bacterial infections and sepsis

For resistance levels for key drug-bug combinations by age and sex

For prescribing patterns by deprivation and at the patient-level (number of antibiotic prescriptions per year)

Good for

Detailed metrics, granular exploration and drill down by demographics

NHS Standard Contract performance reporting NHS AMR FutureNHS Workspace



CCG2: Appropriate antibiotic prescribing for UTI in adults aged 16+ CQUIN

How to access?

Via Improvement and Assurance schemes <u>here</u>

Why use?

Hosts CCG2 CQUIN scheme resources and reports quarterly performance for all Trusts who adopted the scheme

Good for

CCG2 CQUIN scheme resources and performance reporting

NHS Standard Contract requirement to reduce broad spectrum antibiotic consumption

How to access?

Via Improvement and Assurance scheme here

Why use?

Hosts the baseline data, reduction targets, and quarterly performance for all Trusts in scope

Good for

Trust performance reporting

RxInfo Define and UKHSA Fingertips data



RxInfo Define

How to access?

Via Rx-Info web site <u>here</u> registration required

· Why use?

Supports antimicrobial stewardship improvement within NHS Trusts including delivery of NHS Standard Contract requirement to reduce antibiotic consumption. Do not use for Trust NHS Standard Performance assurance reporting

Good for

Monthly access to data and pre-set reports that support delivery of the NHS Standard Contract requirement to reduce hospital antibiotic consumption

Fingertips

How to access?

Via the Office for Health Improvement and Disparities (OHID) web site here open access

Why use?

Open access. Reports metrics to support delivery of the UK AMR National Action Plan ambitions to reduce antibiotic consumption, Healthcare Associated Infections, and drug-bug resistance,

Good for

Benchmarking NHS Trust, ICB and GP practice activity, including Drug-bug susceptibility data and for monitoring trends in activity over time

Any questions?



For more information, please subscribe to the **AMR NHSFutures workspace** (click on the link below) where you will find additional guidance and information relating to all data tools as well as core programme information:

AMR – Data Workstream - Antimicrobial Resistance (AMR) Programme - FutureNHS Collaboration Platform

For queries please contact:

england.prevention-amr@nhs.net

Or contact elizabeth.beech@nhs.net or christine.pinkard@nhs.net directly