

The AHSN Network

Polypharmacy Action Learning Sets

Clare Howard

Clinical Lead Medicines Optimisation

2022

How to get the most out of the Polypharmacy ALS

The Polypharmacy Action Learning Set model was co-designed and delivered by Wessex AHSN, in collaboration with Clare Howard, Clinical Lead for the National Polypharmacy Programme, Zoe Girdis, Consultant in Primary Care, Lead Clinical Pharmacist PCN and Steve Williams Senior PCN Clinical Pharmacist, HEE Clinical Fellow (Medication Safety) and is now being scaled across England by the AHSN Network.



Health Education England



TheAHSNNetwork

These slides are only to be used for cascade training by attendees of the Polypharmacy Action Learning Sets.

Copyright Statement

The Polypharmacy Action Learning Set model is protected by copyright. You may not copy, reproduce, distribute, modify, create derivative works, share with others, sell content or use in any way except for delivery of the Polypharmacy Action Learning Sets, or without prior consent of the AHSN Network.



Agenda

01 Size and scale of Polypharmacy.

02 What are we doing about it?

03 Strategic and policy context.

04 Technical and behavioural elements to addressing problematic Polypharmacy.

05 Tools and further support.



Size and scale of Polypharmacy

Medicines are intended to help patients but they can cause harm...



In England in July 2021 there were 934,644 people on 10 or more medicines and 371,520 were 75 or over.



Over a six-month period, over **three quarters of people** over the age of 70 will have an adverse drug reaction.



A person taking 10 or more medicines is **300% more likely** to be admitted to **hospital**.



There has been a **53% increase** in the number of emergency hospital admissions caused by adverse drug reactions.

Polypharmacy adds preventable cost to the healthcare system and diminishes quality care for the patient.

We dispense over 1 billion prescription items per year in Primary care in England.

Most of the harm from polypharmacy is **preventable.....**

What are we doing about it?

IT'S GLOBAL

WHO has said “given that medicines are the most common therapeutic intervention, ensuring **safe medication use** and having **processes** in place to improve medication safety should be of **central importance**”.

IT'S A BIG CHALLENGE AND GROWING

We dispense over a billion prescription items a year in primary care in England each year.

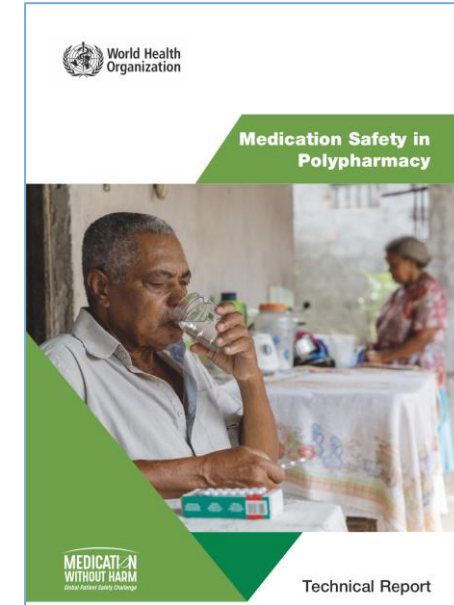
Age UK have recently highlighted the issue

RPS published guidance

ACTION IS NEEDED

NHS BSA Polypharmacy Prescribing Comparators tool is available to help GPs and Pharmacists **find the people most at risk**.

Shared Decision Making consultations are helping clinicians and patients to reach agreement about what is important to the patient and what is clinically important.



More harm than good

Why more isn't always better with older people's medicines

Strategic and Policy Context

NHS Long Term Plan

Commitment to increase the number of Pharmacists working in General Practice. Highlights the importance of Structured Medication review

Primary Care Networks

Funding for PCNs to secure Pharmacists

QOF

Update

NICE guidance on Shared Decision Making (SDM) DHSC Overprescribing review



The role of the NHS BSA Polypharmacy Prescribing Comparators?

01

Benchmarking polypharmacy prescribing

Use the data tool **see how GP practices' prescribing** (both volume and risky combinations of medicines) **compares to others' in England.**

02

Prioritise and identify those at risk from harm

The tool **helps GP practices to quickly and reliably prioritise** the areas where practices have the most risk (because you can't review everyone). Then, **without any additional technology or kit**, the GP practice can identify which of their patients most require a medication review.

03

Measure the harm

The data is updated every month so clinicians can quickly see the impact of their interventions.

The NHS BSA Polypharmacy prescribing comparators are **available to all 191 CCGs** in England and their constituent GP Practices.

Polypharmacy prescribing comparators in action:

YouTube link:

<https://youtu.be/iqKf1Lz0eq4>



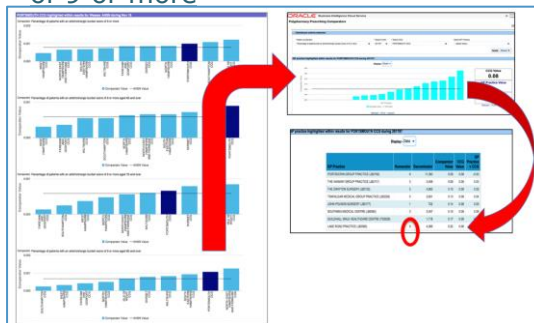
What does the tool look like?

STEP 1

Know your data.

Look at your local polypharmacy data via ePACT 2 and select an area of concern

Portsmouth CCG percentage of patients with Anticholinergic Score of 9 or more



STEP 2

Find patients at risk.

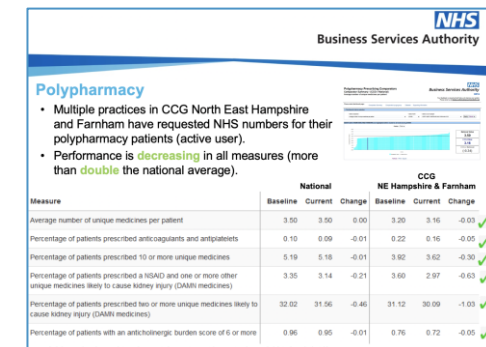
Complete the "request procedure" to access the NHS numbers of the patients in your practice deemed to be at risk and invite those patients for a medication review



STEP 3

Make a difference!

NE Hampshire and Farnham CCG supported every practice to do this well and have demonstrated a decrease in all polypharmacy comparators at double the national average rates!



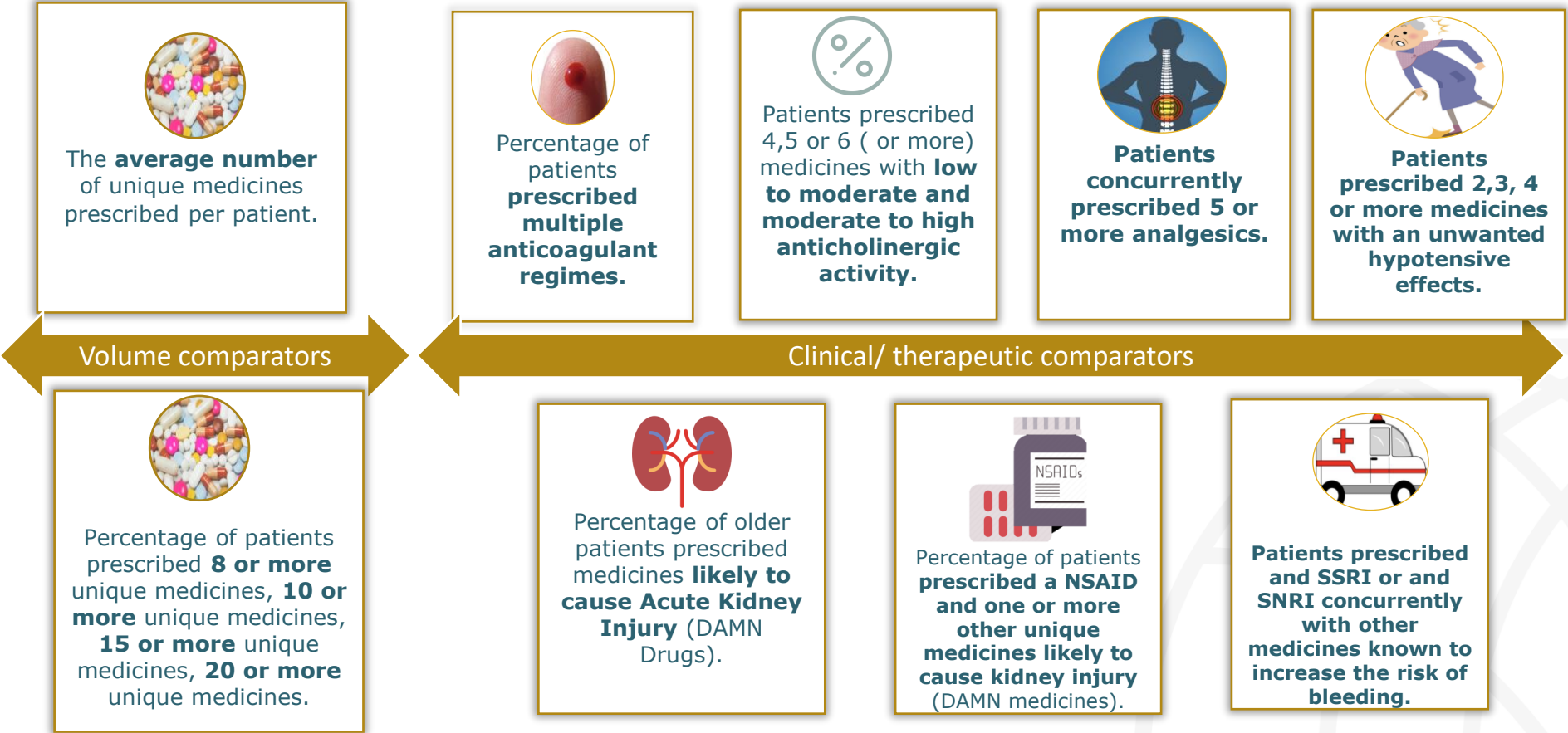
To access your data go to:

nhsbsa.nhs.uk/epact2/dashboards-and-specifications/medicines-optimisation-polypharmacy

For more resources go to

<https://wessexahsn.org.uk/projects/160/polypharmacy-what-next-planning-for-wessex>

What do the comparators measure?



What about patients?

COMPARING DATA FROM BEFORE JULY 2017 (PUBLICATION DATE OF COMPARATORS) TO JUNE 2019:



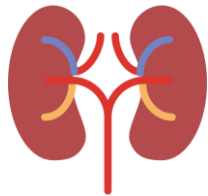
9,400 fewer patients

prescribed 10 or more unique medicines.



25,900 fewer patients

prescribed a NSAID and one or more other unique medicines likely to cause kidney injury.



58,300 fewer patients

prescribed two or more unique medicines likely to cause kidney injury (DAMN medicines).



4,800 fewer patients

with an anticholinergic burden score of 6 or more.



7,500 fewer patients

with an anticholinergic burden score of 6 or more aged 65 and over.



700 fewer

patients prescribed two or more anticoagulants and antiplatelet medicines.

A case study:

- Using the data, the North-East Hampshire and Farnham CCG Care Home Pharmacist has undertaken over 250 reviews and made over 800 interventions. As a result;
- The average number of medicines per patient has reduced from 9.4 to 7.6
- The average anticholinergic burden score has reduced from 1.39 to 1.00

WHO have cited evidence that
pharmacist-led medication reviews
reduce hospital admissions.

Prescribing we should be concerned about...

01



RED FLAG DRUGS

NSAIDs
Anticoagulants
Anti-platelets
Diuretics

Practitioners should always think about "red flag" drugs in the same way as diagnostic red flags

02



CONCERNING COMBINATIONS

DAMN drugs
(Diuretics , ACEI/Angiotensin antagonists/ Metformin / NSAIDs
Anticholinergic Burden

CNS drugs
(Opiates / GABA / Antidepressants
/ Antipsychotics / Anxiolytics

PINCER OR THE NHS BSA POLYPHARMACY PRESCRIBING COMPARATORS
WILL HELP YOU TO IDENTIFY THESE TYPES OF PATIENTS IN YOUR
PRACTICE.

Victim or villain?



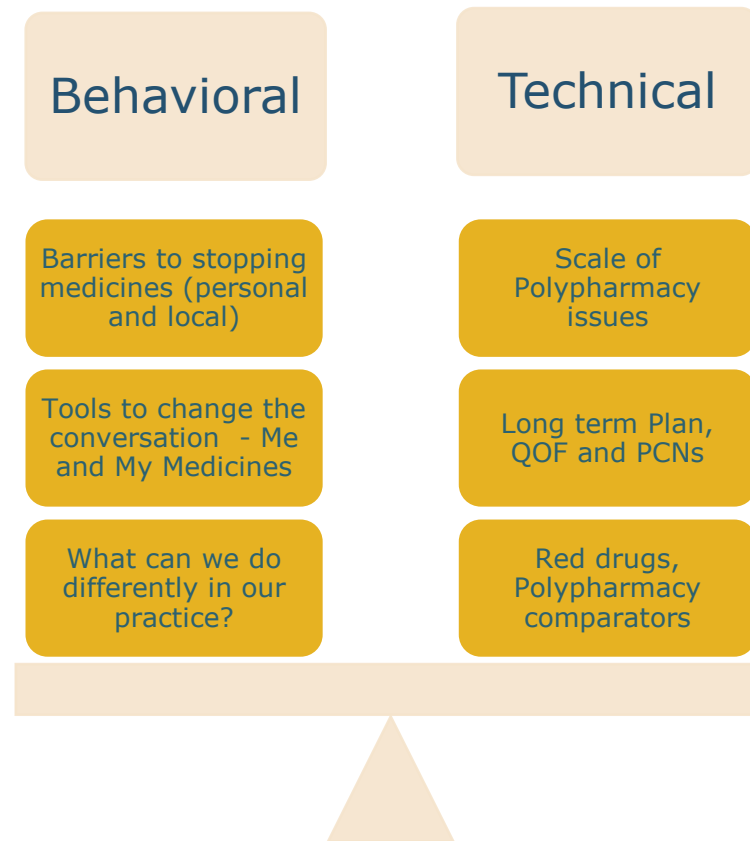
Personal barriers
Environmental barriers
Behavioural barriers
Technical barriers



QOF
Specialist silo
prescribing
Interface
Prescribing cascade

We all work in a **complex** and
over-burdened system.....

Addressing problematic polypharmacy requires both behavioural change and technical knowledge.



Behavioural tools to address problematic polypharmacy

- Firstly, you can't be expected to do good shared decision making in a 7-minute consultation
- No single tool can fix this
- Change is about moving towards shared decision making over time
- Working together as GPs and Patients to learn how to do this together
- There are ways to make shared decision-making work well

Network Contract Directed Enhanced Service

Guidance for 2019/20 in England

May 2019



me + my medicines



social research

HEALTH AND SOCIAL CARE

Good practice in shared decision-making and consent

Gosha Wojcik - SGSSS Intern

The Scottish Government's Health and Social Care Delivery Plan contains a commitment to reviewing the consent process for patients in Scotland with the General Medical Council and Academy of Medical Royal Colleges. This report supports that work, by setting out the findings of a review on the practice of consent and shared decision-making within NHS Scotland.

Main findings

Although many examples of excellent practice exist across NHS Scotland, effective shared decision-making between clinicians and patients is not yet universally embedded. The current challenge is to devise effective ways for supporting cultural transformation, engaging the public and embedding best practice within mainstream clinical processes.

Background

The project is underpinned by the recognition that people should be regularly libeing.

What we do Funding

has been a consistent 'ublic Services led that inadequate identified in its complaints or the last 5 years.

Technical tools to address problematic polypharmacy

01 Scottish Polypharmacy Guidance: Realistic Prescribing 2018



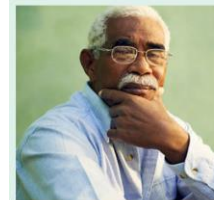
Polypharmacy Guidance Realistic Prescribing 3rd Edition, 2018



02 Size & scale of Polypharmacy

University Hospital Southampton **NHS**
NHS Foundation Trust

MEDICINE SAFETY PORTAL *Safer prescribing for primary care*



This is Raymond. At an appointment for a suspected UTI, Raymond's GP, Dr Clarke, asks him about his general health. He says he's been 'feeling his age' recently. He's 74 years old and his angina has been playing up. He knows he gets a bit confused sometimes and finds it harder to do crosswords these days. He's also constipated and doesn't eat as much as he used to; and he had to have a tooth out last week.

Raymond saw his GP a few months ago about vertigo, and was prescribed prochlorperazine 5mg three times daily. He's taking several other medicines and Dr Clarke reviews them:

- Amitriptyline 25mg twice daily for neuropathic pain.
- Amlodipine 10mg daily.
- Atorvastatin 40mg at night.
- GTN spray when required.

Visit:

<https://www.medicinesafety.co.uk/p/anticholinergics-introduction.html>

Technical tools to address problematic polypharmacy

03 NO TEARS model (2004)

The NO TEARS tool

Need and indication

Open questions

Tests and monitoring

Evidence and guidelines

Adverse events

Risk reduction or prevention

Simplification and switches

thebmj



Scottish Polypharmacy Guidance



7 STEPS

focuses on person centred care and the need for shared decision-making.

Table 2b: An overview of therapeutic groups under each step

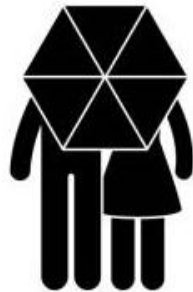
Step 2: Essential drug therapy – Only consider stopping following specialist advice		
Discuss with expert before stopping	Discuss with expert before altering	
<ul style="list-style-type: none"> Diuretics - in LVSD (7) ACE inhibitors - in LVSD (17) Steroids Heart rate controlling drugs 	<ul style="list-style-type: none"> Anti-epileptics Antipsychotics Mood stabilisers Antidepressants DMARDs 	<ul style="list-style-type: none"> Thyroid hormones Amiodarone Antidiabetics (34) Insulin
Step 3: Potentially unnecessary drug therapy		
Check for expired indication	Check for valid indication	Benefit versus Risk
<ul style="list-style-type: none"> PPI(1) /H² blocker (2) Laxatives (3) Antispasmodics (4) Oral steroid (22, 36) Hypnotics/anxiolytics (24) H¹ blockers (29) Metoclopramide (28) Antibacterials (oral/topical) (32) Antifungals (oral/topical) (33) Sodium/potassium supplements (44, 45) Iron supplements (44) Vitamin supplements (44) Calcium/Vitamin D (44) Sip feeds (44) NSAIDs (46) Drops, ointments, sprays etc. (49) 	<ul style="list-style-type: none"> Anticoagulant (5) Anticoagulant + antiplatelet (6) Aspirin (6) Dipyridamole (6) Diuretics (7) Digoxin (9) Peripheral vasodilators Quinine (11) Antiarrhythmics Theophylline (2) Antipsychotics (4) Tricyclic antidepressants Opioids (30) Levodopa Nitrofurantoin (43) Alpha-blockers Finasteride (40) Antimuscarinics Cytotoxics/immunosuppressants (43) Muscle relaxants 	<ul style="list-style-type: none"> Antianginals (12) BP control (15) Statins (14) Corticosteroids (20) Dementia drugs (26) Bisphosphonates (37)
Step 4: Effectiveness		
If therapeutic objectives are not achieved: Consider intensifying existing drug therapy		For patients with the following indications: Consider if patient would benefit from specified drug therapy
<ul style="list-style-type: none"> Laxative - Constipation (3) Antihypertensives - BP control (15) Antidiabetics - HbA_{1c} control (34) Warfarin - INR control Rate limiting drugs - Heart rate? Respiratory drugs – Symptoms? Pain control 		<ul style="list-style-type: none"> see Drug Efficacy (NNT) table CHD - Antithrombotic, statins, ACEI/ARB, beta blocker Previous stroke/TIA - Antithrombotic, statin, ACEI/ARB LVSD - Diuretic, ACEI/ARB, beta blocker AF - Antithrombotic, rate control DMT2 - Metformin High fracture risk – Bone protection
Step 5: Safety		
Drugs poorly tolerated in frail adults See Gold National Framework on frailty		High –risk clinical scenarios
<ul style="list-style-type: none"> Antipsychotics (incl. phenothiazines) NSAIDs (46) Digoxin (doses ≥ 250 micrograms) (9) Benzodiazepines (24) Anticholinergics (incl. TCAs) (27) Combination analgesics 		<ul style="list-style-type: none"> Cumulative Toxicity tool Sick day rule guidance Metformin + dehydration ACEI/ARBs + dehydration Diuretics + dehydration NSAIDs + dehydration NSAID + ACEI/ARB + diuretic NSAID + CKD NSAID + age >75 (without PPI) NSAID + history of peptic ulcer NSAID + antithrombotic NSAID + CHF Glitazone + CHF TCA + CHF Warfarin + macrolide/quinolone ≥2 anticholinergics (Anticholinergic Burden Tool)
Step 6: Cost-effectiveness		
Check for		
<ul style="list-style-type: none"> Costly formulations (e.g. dispersible) Costly unlicensed 'specials' 	<ul style="list-style-type: none"> Branded products >1 strength or formulation of same drug 	<ul style="list-style-type: none"> Unsynchronised dispensing intervals (28 or 56 day supplies)
Step 7: Adherence/patient centredness		
Check Self-Administration (Cognitive)		Check Self-Administration (Technical)
<ul style="list-style-type: none"> Warfarin/DOACs Anticipatory care meds e.g. COPD Analgesics Methotrexate Tablet burden 		<ul style="list-style-type: none"> Inhalers Eye drops Any other devices Bisphosphonates/calcium

Barriers to stopping medicines



Personal barriers

- Confidence to stop
- Time pressures
- Resources
- Patient expectations
- Different healthcare professionals to stop medicines have different priorities re stopping medicines
- Not confident in all areas
- Pressure patient/carers
- Lack of evidence
- Worry about causing harm
- Time to think and do it well
- Difference of opinion with/to colleagues
- Lack of knowledge/information resource
- Specific medications – potential harm
- Not really knowing what patient is doing with their medications
- Records: Why drug started? Working in the dark
- Repeat processes
- Time: medication reviews 'hijacked'
- Fear of causing harm: stop medications and then an event happens/peers wouldn't support your decision
- Fear of litigation
- Individuals' knowledge – so much to keep up to date with



Environmental barriers

- Transfers of Care -medicines reconciliation
- Aging population with multi morbidities
- QOF. Targets driving action
- Lack of time
- Lack of expertise/evidence
- Fear of consequences
- Lack of process in primary care
- Patient expectations/Family pressure
- High proportion of nursing homes
- Multiple prescribers for 1 individual
- Conflicting information – quality/source
- Specialist prescribing
- Training needs – both existing and new pharmacists
- Pain prescribing and pathways
- Checklist prescribing
- Single condition focus
- Blame game
- Medical advancement – more and more drugs
- Patient Confidence – multiple clinicians – patient confusion
- Communication pathways
- Prescriber confidence
- Media influences

Bringing it all together



ePACT2

Step 1: review your data and identify key areas for your PCN/ practice



Step 2: Think about your skill mix and capacity. Think about how many session you have for Multimorbidity structured medication reviews.

Step 3: Request the NHS numbers of the patients that the NHS BSA data shows make up the comparator you have decided to focus on. (could be volume, could be therapeutic) nhsbsa.informationssystem@nhs.net.



Step 4: Triage the list, some patients may have been seen already, prioritise e.g older, not been seen recently, in a care home, overdue blood test.

Step 5: Carry out shared decision-making structured medication reviews.

Step 6: Review the polypharmacy data. What has been your impact? What did you learn?



ePACT2

Learning resources

Resources

Resources include

- This Slide Deck.
- The Presenter Notes.
- The editable feedback slide deck.
- The Case Study.
- Patient facing shared decision-making tools and information leaflets e.g. [Me and My Medicines](#), [Are the Medicines Working for you](#) and [5 Moments of Medication Safety](#).

NHS BSA Polypharmacy Comparators

To access your data go to:

nhsbsa.nhs.uk/epact2/dashboards-and-specifications/medicines-optimisation-polypharmacy

For more information about the AHSN National Polypharmacy Programme and to connect with your local Polypharmacy Lead click [**here**](#).

A stylized globe graphic with a grid of latitude and longitude lines, rendered in a lighter blue shade than the background, positioned at the top of the slide.

Connect with us

Web: www.ahsnnetwork.com

Email: info@ahsnnetwork.com

@AHSNNetwork