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NHS Medicines Optimisatio

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SPEAKING NOW



I will be discussing...

"Medication Review - The Isimpathy Project"

Michael Scott

Director - Medicines Optimisation Innovation Centre Northern Ireland Medicines Optimisation Innovation Centre







ISIMPATHY Project -Medicines Use Review

Professor Michael Scott Director MOIC Medicines Optimisation Conference 30 November 2022



MOIC Work Themes





- > Focus needs of NI population
- Accelerate adoption of innovation into practice to improve patient outcomes and experiences
- > Build culture of partnership and collaboration
- Make meaningful contribution to NI economy





EU Population is getting older

| Year | 2016 | 2070 |
|-------------------------------------|-------------|-------------|
| Total Population | 511 million | 520 million |
| Working age | 333 million | 292 million |
| Old age dependency ratio(>65/45-64) | 29.6% | 51.2% |
| Working age ratio | 3.3 | 2.0 |



Medicines Related Statistics

- 8.6 million unplanned hospital admissions are caused by adverse drug events in Europe each year
- 50% of hospital admissions due to adverse drug events are preventable
- 75% of these are in patients over 65 years of age and on 5 or more medicines



Polypharmacy-some statistics (Mair et al Journal of Integrated Callerence strees 2020)

- Twenty percent of people with two chronic conditions took between 4 and 9 medicines daily and around 10% took over 10 medicines daily
- European citizens over the age of 65 will rise from 18% in 2013 to 28% by 2060
- The over 80s will increase from 5% to 12 % over the same period
- Polypharmacy is a key risk factor for frailty with the association increasing from 55% for those prescribed more than 4 medicines to 147% for those taking more than 7 medicines









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Ensuring the best medication outcomes for patients

iSIMPATHY, (implementing Stimulating Innovation in the Management of Polypharmacy and Adherence Through the Years), a three year EU funded project in Northern Ireland, Scotland and the Republic of Ireland. The project aims to ensure the best and most sustainable use of medicines for patients by training pharmacists and other medical professionals to deliver medicine reviews and embedding a shared approach to managing multiple medicines.



Smarter





Stimulating Innovation Management of Polypharmacy and Adherence in the Elderly

Cathy Harrison

EIP AHA Conference of Partners

10th December 2015



This presentation is part of the SIMPATHY project (663082) which has received funding from the European Union's Health Programme (2014-2020)



CONSORTIUM AND OBJECTIVES



Inappropriate Polypharmacy A Major Health Issue

50% of the people taking 4 or more medicines don't take them as prescribed.

Changing the approach to multiple prescriptions requires a "collective" and joint effort involving different stakeholders.





EIP ON AHA REFERENCE SITE

Overview of iSIMPATHY project

(Implementation of

Stimulating Innovation in the Management of Polypharmacy & Adherence Through the Years)

















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Northern Ireland - Ireland - Scotland European Regional Development Fund

What is iSIMPATHY?

- iSIMPATHY is a 3-year EU funded project (2019 2022)
- Operates in Northern Ireland, Scotland and the border areas of the Republic of Ireland (Donegal, Sligo, Leitrim, Cavan, Monaghan and Louth)
- NI- hospital based
- Scotland and ROI- GP practice based













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Aims of iSIMPATHY

• To make a significant contribution towards the embedding of a single approach for polypharmacy management and adherence across the three jurisdictions

- > WHO Medication Without Harm (2017) 3 key areas
- medication safety in high-risk situations
- medication safety in polypharmacy
- medication safety in transitions of care.







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• Delivering Polypharmacy Medicine reviews

(15,000 patients across the three project jurisdictions in Primary and Secondary care) (10.5 pharmacists)

Delivering training

(120 GPs, hospital doctors and pharmacists - 40 in each jurisdiction)

Cross border collaboration













7 STEPS TO APPROPRIATE POLYPHARMACY



Step 1: What matters to the patient

Step 2: Identify essential drug therapy

Step 3: Does the patient take unnecessary drug therapy?

Step 4: Are therapeutic objectives being achieved?

Step 5: Is the patient at risk of ADRs or suffers actual ADRs?

Step 6: Is drug therapy cost-effective?

Step 7: Is the patient willing and able to take drug therapy as intended?

7 STEPS medicine review tool

| Domain | Ste | ep (7 steps) |
|-------------------------|-----|---|
| Aims | 1. | What matters to the patient? |
| Need | 2. | Identify essential drug therapy. |
| | 3. | Does the patient take unnecessary drug therapy? |
| Effectiveness | 4. | Are therapeutic objectives being achieved? |
| Safety | 5. | Does the patient have ADR/Side effects or are they at risk of ADRs/Side effects? Does the patient know what to do if they are too ill? |
| Cost- Effectiveness | 6. | Is drug therapy cost-effective? |
| Patient Centeredness | | Is the patient willing and able to take drug therapy as intended? |
| | | |











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| Domain | Steps | Process |
|---|---|--|
| Aims | What matters to the patient? | Review diagnoses and identify therapeutic objectives with respect to: What matters to me (the patient)? Understanding of objectives of drug therapy Management of existing health problems Prevention of future health problems |
| | Identify 2. essential drug therapy | Identify essential drugs (not to be stopped without specialist advice): Drugs that have essential replacement functions (e.g. levothyroxine) Drugs to prevent rapid symptomatic decline (e.g. drugs for Parkinson's disease, heart failure) |
| Need | Does the patient take unnecessary drug therapy? | Identify and review the (continued) need for drugs: With temporary indications With higher than usual maintenance doses With limited benefit in general for the indication they are used for With limited benefit in the patient under review (See: <u>Drug Efficacy</u> (<u>NNT</u>) table) |
| Effectiveness | 4. Are therapeutic objectives being achieved? | Identify the need for adding/intensifying drug therapy in order to achieve therapeutic objectives: To achieve symptom control To achieve biochemical/clinical targets To prevent disease progression/exacerbation |
| Scottish Governmen Riaghaltas na h-Alb | Does the patient have ADR/Side Effects or is at risk of ADRs/Side Effects? Does the patient know what to do if they're ill? | Identify patient safety risks by checking for: Drug-disease interactions Drug-drug interactions (see <i>Cumulative Toxicity</i> tool) Robustness of monitoring mechanisms for high-risk drugs Drug-drug and drug-disease interactions Risk of accidental overdosing (Yellow Card Scheme) Identify adverse drug effects by checking for Specific symptoms/laboratory markers (e.g. hypokalaemia) Cumulative adverse drug effects (see <i>Cumulative Toxicity</i> tool) Drugs that may be used to treat ADRs caused by other drugs (<i>Sick Day Rule</i> guidance can be used to help patients know what do with their medicines if they fall ill) |

| Cost- effectiveness | 6. Is drug therapy cost-effective? Identify unnecessarily costly drug therapy by: Consider more cost-effective alternatives (but balance against effectiveness, safety, convenience) |
|-------------------------|---|
| Patient centeredness | 7. Does the patient understand the outcomes of the review? Does the patient understand why they need to take their medication? Consider Teach back Ensure drug therapy changes are tailored to patient preferences Is the medication in a form the patient can take? Is the dosing schedule convenient? Consider what assistance the patient might have and when this is available Is the patient able to take medicines as intended? Agree and Communicate Plan Discuss with the patient/carer/welfare proxy therapeutic objectives and treatment priorities Decide with the patient/carer/welfare proxies what medicines have an effect of sufficient magnitude to consider continuation or discontinuation Inform relevant healthcare and social care carers change in treatments across the care interfaces Add the READ code 8B31B to the patients record so that when they move across transitions of care it is clear their medication has been reviewed |
| HSC | Northern Health and Social Care Trust |

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and Social Care Trust

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iSIMPATHY Patient Cohort

Suitable patients for an iSIMPATHY review are those admitted to the NHSCT who meet one or more of the following criteria:

- Prescribed 10 or more regular medicines
- Adults of any age, approaching the end of their life due to any cause, to include adults with frailty
- Aged 50 years and older and resident in a residential care setting e.g. nursing home, intellectual disability residential setting or community hospital
- On medication or combinations considered particularly High-Risk for adverse events such as bleeding, acute kidney injury and falls (as defined by the Scottish Polypharmacy Case Finding indicators)





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Robust evaluation

- Data collection
- Interventions (Eadon)
- Medication appropriateness index (PC-MAI)
- Patient reported outcome measures (PROMS)
- Economic analysis

Supporting reviews with the Manage Medicines app

The <u>Manage Medicines app</u> is a key way to support the medicines reviews process. With easy to navigate toolkits for both professionals and patients or carers, the app also lets patients answer questions ahead of their reviews. As well as giving practitioners this information in advance, it helps patients get the most out of their medicines reviews. Look out for our short animation explaining the app and the PROMs (Patient Reported Outcomes Measures) questionnaire coming soon on our website and twitter.







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Training

Royal College of Physicians (RCP) accredited HCPs (TURAS)

https://learn.nes.nhs.scot/59670/isimpathy-evidencebased-polypharmacy



Modules:

ONE – Why should we address Polypharmacy

- Definition and dangers of Polypharmacy
- Medication Adherence
- Adverse Drug reactions
- Criteria for selection for Polypharmacy reviews
- Short introduction to the '7 step' medication review process

TWO – 7 Steps Methodology

- The 7 Step Medication review process
- Numbers Needed to Treat
- The 7 steps review process in practice
- High risk medicines combinations

THREE – Change Methodology and Numbers Needed to Treat

- Implementing Change Methodology,
- Case study example of the 7 steps in practice
- 'Understanding NNT's' Numbers Needed to Treat





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Project ECHO (Extending Community Health Outcomes) - Education & shared learning

| | Presentation Date | Curriculum/Education Topic |
|--------|-------------------|--|
| | 27 May 2021 | Numbers Needed to Treat for Hard Pressed Pharmacists |
| | 24 June 2021 | Skills & Tools to Manage Difficult Conversations |
| | 23 September 2021 | Pain Management in the Frail |
| | 21 October 2021 | A Day in the Life of the iSIMPATHY Pharmacist – 3 nations |
| | 25 November 2021 | High Risk Combinations in relation to anti-thrombotics |
| | 16 December 2021 | Tapering of Antidepressants – generically psychoactive agents |
| | 27 January 2022 | Parkinson's Disease & minimising the risk of falls |
| | 24 February 2022 | Maximising the Impact of the Consultation |
| IP. | 24 March 2022 | Issues Surrounding Diabetes / Cardio Metabolic issues |
| dicati | on personal | EUROPEAN UMON Special Northern Ireland - Ireland - Scotland European Regional Development Fund |

Eadon Scale

| Intervention | Grade |
|---|-------|
| Intervention is detrimental to patient's well-being | 1 |
| Intervention is of no significance to patient care | 2 |
| Intervention is significant but does not lead to an improvement in patient care | 3 |
| Intervention is significant and results in an improvement in the standard of care | 4 |
| Intervention is very significant and prevents a major organ failure or adverse reaction of similar importance | 5 |
| Intervention is potentially life saving | 6 |





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Early Findings

| Average number of interventions per patient | 9.1 |
|---|-------|
| Percentage Grade 4 and above (%) | 92.7% |
| Percentage Grade 5 (%) | 4.86% |
| Percentage Grade 6 (%) | 0.07% |
| Reduction in pcMAI score (5) | 86% |
| Number of medicines before review | 12.4 |
| Number of medicines after review | 12.4 |



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Early Findings (2)

- Patient post stroke, no alcohol intake in notes, iSIMPATHY R/V: 50-60 units/week, commenced on Pabrinex and Chlordiazepoxide
- Patient on tamsulosin and doxazosin. Tamsulosin stopped by GP several months ago. When prompted that usually not taken together patient remembered GP pharmacist told him to stop tamsulosin
- Patient on Targinact prescribed BD on NIECR. Patient took at night to help sleep. No indication for pain, weaned to stop
- Patient gets 2 weekly District Nurse INRs on warfarin for AF since 2013: changed to DOAC













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What patients say...



'The service and empathy I received from the hospital chemist was very comforting. She was able to help me understand how the medication I would need would benefit my health. At the moment my health has improved and the medication I have been given has served their purpose well. Thank you for your help.' 'No one has ever sat down with me and taken time to go through all my medicines with me'

'It means so much to me to be involved in decisions about my brother's care. He is non-verbal and I do everything for him'

'The pharmacist I spoke to was so friendly and helpful reassuring me with regard to my medication. My health has certainly improved as I understood more about any medicines I was taking. She explained what the tablets were for and why each dosage was being given. I would highly recommend this service to anyone' 'A wonderful person. It was the first time anyone ever listened and understood what I was coping with and helped me in so many ways. I wish you all the very best in your job'

> European Union inaged by the me Body (SEUPB)

Find out more...



iSIMPATHY project

www.isimpathy.eu/ @iSIMPATHY

Medicine review training (TURAS)*

https://learn.nes.nhs.scot/59670/isimpathy-evidence-basedpolypharmacy

Effective Prescribing & Therapeutics Division

www.therapeutics.scot.nhs.uk

MOIC

www.themoic.hscni.net

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*Royal College of Physicians 3 external CPD credits (code 138908)

Contact details

- <u>https://www.isimpathy.eu/</u>
- <u>Twitter</u>: <u>@iSIMPATHY</u>
- : <u>https://themoic.hscni.net/news-media/</u>
- <u>Drmichael.scott@northerntrust.hscni.net</u>
- <u>Twitter :@moicni</u>













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UP NEXT...




NHS Medicines Optimisation Conference 2022



SPEAKING NOW



I will be discussing...

"Collective Intelligence to Support OPAT expansion"

Ann Cole

Value Solutions Consultant Baxter Healthcare Limited

Collective Intelligence to support OPAT Expansion

Ann Cole Value Solutions Lead Baxter Healthcare Limited

30th November 2022

Collective Intelligence is a shared or group intelligence that emerges from the collaboration, collective efforts and competition of many individuals¹



Partnering for patient centric sustainable healthcare

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Key Conditions that Drive Value

#SCANHEPS18



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The NHS is facing a large backlog of non-COVID-19 care

The NHS faces a challenging backlog of...

7m

elective Procedures² with

Baxter

2.75m waiting over 18 weeks² A complex system remodel is needed



But which therapy areas can you build differently – and better?

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With so many services requiring restoration and recovery, how do you prioritise?



OPAT*: An opportunity to remodel and rebuild



*Outpatient Parenteral Antimicrobial Therapy (OPAT) is a method for delivering intravenous antimicrobials in the community or outpatient setting, as an alternative to inpatient care

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OPAT: Supporting antimicrobial stewardship

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How does IV antimicrobial therapy impact capacity?

- An estimated 1 in 3 hospitalised patients in the UK will receive antimicrobial therapy on any given day¹⁴. In 2018 IV antimicrobials accounted for 30% of prescriptions in acute care¹⁴
- Up to 4% of all inpatients are in hospital solely to receive IV antimicrobial therapy⁸. Longer stay
 and "super stranded" patients (21 days or longer) are at further trisk of hospital-related health
 risks such as muscular deconditioning and infections¹⁵
- Transforming NHS pharmacy services in England recommends NHS Englands should incetivise OPAT to care for people closer to home or at home, thereby reducing pressure on hospital beds and improving patients'experience⁶

The NHS needs a proven and scalable solution that provides optimal antimicrobial therapy while minimising hospital stays and risk of infection to support restoration and recovery

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Every Patient who could have OPAT, should have OPAT - the importance of data

Authors: Katie Holgate¹, Steph Williams¹, Hannah Bolton¹, Rachel Nye¹, Millie Watson¹, Alli Wood¹, Ann Cole² 1. York and Scarborough Teaching Hospitals NHS Foundation Trust 2. Baxter Healthcare Limited, Compton, UK

Background

OPAT (Outpatient Parenteral Antimicrobial Therapy) has a clear role to play in optimising anti-microbial stewardship, and is listed as one of the Department of Health five options for antimicrobial prescribing decision options to focus therapy.¹

York and Scarborough Teaching Hospital NHS Foundation Trust (YST) OPAT service has been operational since January 2019, treating over 438 patients and demonstrating year on year growth

Growth has been progressive, however an OPAT department vision established in 2021 stretched this to seek that "Every patient who could have OPAT, should have OPAT." (Figure 1) An ambitious target but not impossible with a robust evaluation of the service, and a structured approach to scale.

Objective

An in-depth assessment to understand the current OPAT service and to identify pathways for further expansion together with potential efficiency and productivity gains.

Method

Mean

Working in partnership with Baxter Healthcare Limited a three-month diagnostic process was undertaken with the YST multi-disciplinary team, using a range of service and quality improvement tools to inform an in-depth assessment.

A clear picture of the OPAT current state was developed through: Outcomes analysis • Insights: Pathway Mapping and System Flow • Insights: Patient Experience • Insights: Point of Use

Results

The assessment of OPAT services provided a clear demonstration of how the service has grown from 8.4 patients per month in 2019, 20.8 in 2020, 27.4 in 2021 (Figure 2), saving over 10,500 bed days in line with the department vision and anti-microbial stewardship team goals. Achieving the initial key performance indicators set for reducing inpatient stays, reduction in the number of super stranded patients and percentage of patients on the self-care pathway, (Figures 3-5).



The local OPAT trustwide database developed in line with recommendation 5.1 of the OPAT Good Practice recommendations² enabled service evaluation of multiple metrics that demonstrated clear service expansion opportunities and growth. From January 2019 to April 2020, 44% of total patients were trauma and orthopaedic, and surgical patients totalled 71% patients across all sites. The evaluation enabled expanded capacity to now include provision for patients with Endocarditis, Necrotising Ottis Externa, Diabetic Foot infections, Bronchiectasis and Intra-abdominal infections.

The service has significant peaks and troughs, impacted by a number of factors impacting capacity and flow including resource, points of referral and the ability to identify patients.

The OPAT Good Practice Recommendation (GPR) Assessment Tool³ was utilized to review overall compliance with the British Society for Antimicrobial Chemotherapy OPAT GPRs and to plan further improvement initiatives.

Patient Experience: 93% reported OPAT allowed them to get on with everyday activities and normal home routine.



Goal













Conclusion

Moving forward the focus is on predictability for sustainable growth creating a more consistent service, with multiple care pathways optimized to meet individual patient needs across North Yorkshire. The Baxter partnership has offered the Trust an opportunity to understand the service potential and meet their ambitious vision. Ultimately the goal is for 75% of patients in the OPAT service to be on a self-care pathway, thus releasing time to care.



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 Antimicrobial stewardship: Start smart - then focus - GOV.UK (www.gov.uk) last accessed 29th April 2022 2. Updated good practice recommendations for outpatient parenteral antimicrobial therapy (OPAT) in adults and children in the UK | JAC-Antimicrobial Resistance | Oxford Academic (oup.com) Volume I, issue 2. September 2019 last accessed 26 April 2022 3. BSAC_OPAT_GPR_Survey_Tool_100320-3.xisx (live.com) last accessed 26 April 2022 Contact for further information: Katie Holgate, OPAT specialisit nurse Katie.Holgate@york.nhs.uk



UKI-MD16-220006 May 2022

Findings from BSAC National Outcomes Registry (2015-19)¹⁷



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In summary

Teams offer the potential to achieve more than any person could achieve working alone; yet, particularly in teams that span professional boundaries, it is critical to capitalize on the variety of knowledge, skills, and abilities available¹⁸.

Thank you for your time



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NHS Medicines Optimisation Conference 2022



SPEAKING NOW



Michelle Haddock

Pharmacy Lead NHS Arden & GEM CSU

I will be discussing...

"The Discharge Medicines Service – Improving patient care through cross-sector working"

The Discharge Medicines Service: Improving patient care through cross-sector working

Michelle Haddock NHS Arden & GEM CSU

NHS Medicines Optimisation Conference 30 November 2022

www.ardengemcsu.nhs.uk







Session overview

- About NHS Arden & GEM CSU
- DMS background
 - DMS objectives
- Patient pathway
 - Implementation approach
 - Black Country pilot
 - Lessons learned
- Questions





About NHS Arden & GEM CSU



Working with a customer base of 90+ organisations across health and care systems

- NHSE
- ICSs
- ICBs

- Trusts
 - Primary Care
 - Local Authorities







INVESTORS IN PE⊖PLE[™] We invest in people Gold INVESTORS IN PEOPLE We invest in wellbeing Gold







NHS

DMS background

Greater East Discharge from hospital associated with an increased risk of avoidable medication related harm¹

- ♦ NICE guideline NG05² recommendations:
 - medicines-related communication systems should be in place when patients move care settings
 - medicines reconciliation processes should be in place for all persons discharged from a hospital or another care setting back into ٠ primary care, and the act of reconciling the medicines should happen within a week of discharge
- > 2016 first data published 'Newcastle Study'³ showed that this type of clinical handover to community pharmacy could result in lower rates of readmission at 30, 60 and 90 days
 - Patients receiving CP follow-up consultation had statistically significant lower rates of readmissions and shorter hospital stays than ٠ those patients without
- TCaM; pre-pandemic system-wide collaboration between AHSN, Trusts and Community Pharmacy
- CQUIN target for acute hospital Trust inpatients 2022/23:
 - Refer 0.5 1.5% of all inpatient discharges with a change in their medicines (excluding day case patients and maternity discharges)
 - Referral within 48 hours post discharge ⁴

Established as Essential service 15th Feb 2021, Community Pharmacy Contractual Framework ⁵





DMS objectives





To ensure better communication of changes to a patient's medication when they leave hospital and to reduce incidences of avoidable harm caused by medicines



Optimise the use of medicines whilst facilitating shared decision making



Reduce harm from medicines at transfer of care



Improve patients' understanding of their medicines and how to take them following their discharge from hospital



Reduce hospital re-admissions



Support collaborative working between hospital and community pharmacy teams and primary care networks, including GP practices





DMS patient pathway



Hospital

- Identify and refer patient who will benefit from follow up by community pharmacy
- Work in partnership with community pharmacy to support self discharge for patients





Community Pharmacy

- Medicines reconciliation and clinical check
- Resolve issues
- Consultation with patient

General Medical Practice (in a Primary Care Network)

- Work in partnership with community pharmacy to provide safe clinical care for patients
- Update central records
- Follow-up medical care and /or tests or monitoring
- Structured medication reviews
- Prescribing







Implementation approach – initial phase





Implementation approach – tailored support

- Data retrieval and sharing
- Identifying process efficiencies, overcoming barriers
- Updating SOPs
- Development of training materials
- Delivery of training: remote and in-person team sessions, 1-2-1 bedside training
- System engagement cross-sector webinars
- Individual team, place and system feedback
- Networking





Black Country pilot



Graph 1: Dudley Group NHS Foundation Trust – Weekly DMS Referrals, March - May 2022



Feedback from a DMS training attendee at an NHS trust:

"The training has been well received... I believe it has given those unfamiliar the confidence to go ahead and has also been a valuable reminder to those who had forgotten a lot of what we did before. The one-to-one training has also helped those less tech savvy and less tech confident."

Senior Pharmacy Technician



Read the full case study in <u>PM Healthcare Journal – Summer 2022</u>

Lessons learned

Recognise demands on existing workforce capacity





Any questions?

Get in touch with us at:









-

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1. Technical report WHO Medication safety in transitions of care

https://apps.who.int/iris/bitstream/handle/10665/325453/WHO-UHC-SDS-2019.9-eng.pdf

- 2. Medicines optimisation: the safe and effective use of medicines to enable the best possible outcomes. Available at <u>https://www.nice.org.uk/guidance/ng5</u>
- 3. New transfer of care initiative of electronic referral from hospital to community pharmacy in England: a formative service evaluation. Nazar H et al.

Available at New transfer of care initiative of electronic referral from hospital to community pharmacy in England: a formative service evaluation | BMJ Open

- 4. Commissioning for Quality and Innovation (CQUIN): 2022/23; 17 March 2022; Available at NHS England » Commissioning for Quality and Innovation (CQUIN): 2022/23
- 5. Community Pharmacy Contractual Framework: 2019 to 2024; 03 February 2022;

Available at Community Pharmacy Contractual Framework: 2019 to 2024 - GOV.UK (www.gov.uk)







NHS Medicines Optimisation Conference 2022



UP NEXT...

AstraZeneca

This is a promotional symposium sponsored and organised by AstraZeneca



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NHS Medicines Optimisation Conference 2022



COMFORT BREAK

Please remain logged into the platform. We will resume at 12:40pm



NHS Medicines Optimisation Conference 2022



SPEAKING NOW



Chris McAuley Programme Delivery Manager - NHS Benchmarking Network



Mr Stan Fleming Graduate Project Coordinator - NHS Benchmarking Network

We will discuss...

"Findings from 2022 Pharmacy and Medicines Optimisation Benchmarking Project"



NHSBN Pharmacy 2022 Benchmarking Findings Webinar Chris McAuley – Programme Delivery Manager Stan Fleming – Graduate Project Coordinator

YEARS

CELEB



Welcome and introduction





Raising standards through sharing excellence

Network membership

240+ member organisations and c.10,000 clinicians and managers using the service In England:

- 75% of acute providers
- 87% of NHS Trusts providing community services, plus 11 Social Enterprises
- 100% of mental health trusts
- 31% of ICBs by population covered
- 100% coverage in Wales Health Boards
- 100% coverage in Northern Ireland HSCTs
- 100% coverage of Scottish Health Boards, plus the Scottish Government



*as of 31st August 2022 **NHS** Benchmarking Network



2022/23 work programme

Core Network projects



Acute Sector

- Acute Transformation Dashboard
- Acute Therapies
- Emergency Care
- Managing Frailty in Acute Settings
- Operating Theatres
- Outpatients
- Pharmacy & Medicines Optimisation (Provider)

Community Sector

- Community Indicators (monthly)
- Community Services
- Community Hospital Bed Survey
- Intermediate Care





Mental Health Sector

- Adults & Older Adults Mental Health
- Children & Young People's Mental Health Services (CYP MH)
- Learning Disabilities
- Mental Health & Learning Disabilities Covid-19 Dashboard (monthly)

Whole System

- Cost Collection Analysis
- Integrated Care System Benchmarker
- ICS Pilots and Whole System Events
- Summary Opportunity Reports
- Whole Systems Beds

To view the 2022/23 work programme calendar, click here.


Project timetable

| Period | Project Stage |
|-------------------------|--------------------------------------|
| January to March | Project consultation and development |
| April to June | Data collection |
| 9 th June | Pharmacy Share Learning Webinar |
| July to September | Data validation and analysis |
| August | Draft online analysis toolkit |
| September | Draft reports released |
| 6 th October | Findings Webinar |
| October | Outputs released |

2022 is the eighth iteration of the Pharmacy & Medicines Optimisation project.

Within each Benchmarking project, we produce a range of network resources:

Online project toolkits lılı. **ICS Benchmarker Summary Report Knowledge Exchange Forum** Shared learning & good practice Webinar presentations and ... recordings CELEB, NETWORK

Benchmarking findings

Stan Fleming and Chris McAuley NHS Benchmarking Network







Pharmacy Overview



Raising standards through sharing excellence



Total medicines cost per 100 beds



Medicines costs timeseries (% of 2019/20 value)



% of total medicines cost spent on homecare medicines



Cost of medical gases per 100 beds



Service overview

Do medical gas pipeline systems meet the HTM 02-01 technical standards?

| Yes | 51% |
|-----------|-----|
| Mostly | 40% |
| Partially | 8% |
| Νο | 1% |
| | |

Does the organisation have a Medical Gas Committee?



If yes, does the Chief Pharmacist or a Deputy Chief Pharmacist sit on the committee?





Service overview

System level working



| | All participants % yes (2022) |
|---|-------------------------------------|
| Is there an interface pharmacist who works between the provider organisation and the ICS? | 29% |
| Are there designated posts within the ICS to deliver education and training for pharmacy staff? | 15% |
| Does the organisation have an ICS or place-based workforce strategy? | 40% |
| Have any pharmacists left the organisation to join PCNs? | 83% |
| Have any pharmacy technicians left the organisation to join PCNs? | 76% |
| | ork cei |
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Service overview

Briefly describe the major priorities/developments being addressed at ICS level







Total WTE pharmacy staff employed (unbenchmarked)

| 600 | | Year | Mean |
|---------------|-----------------|-----------|--------------------|
| 500 | | 2022 | 155 |
| | | 2021 | 123 |
| 400 | | 2020 | 106 |
| 300 | | 2019 | 110 |
| | | 2018 | 88 |
| 200 | | 2017 | 87 |
| 100 | | CELEBRAY | SG 25 YEARS OF THY |
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Pharmacy department discipline mix



| | 2022 | 2021 | 2020 |
|-------------------------|------|------|------|
| Pharmacists | 40% | 39% | 40% |
| Pharmacy Technicians | 34% | 34% | 34% |
| Pharmacy Assistants | 22% | 21% | 21% |
| Nurses | 0% | 0% | 0% |
| All other | 5% | 5% | 5% |

VIEARS OF THE ARS OF T

Pharmacist skill mix



| | 2022 | 2021 | 2020 |
|----------------|------|------|------|
| Band 5 pre-reg | 8% | 9% | 9% |
| Band 6 | 20% | 21% | 22% |
| Band 7 | 25% | 26% | 26% |
| Band 8a | 31% | 29% | 28% |
| Band 8b | 10% | 9% | 9% |
| Band 8c | 4% | 3% | 3% |
| Band 8d | 1% | 1% | 1% |
| Band 9 | 1% | 1% | 1% |



% sickness/absence rate



Please outline any successful wellbeing initiatives





Participants that have staff with integrated roles in care settings



Availability

Availability overview

| | In- house | By SLA (NHS body) | Collaborative /shared service | Commercial company | Mixture | Not provided |
|-----------------------------------|--------------|----------------------|-------------------------------------|-----------------------|---------|-----------------|
| Dispensing services – Inpatients | 99% | 0% | 0% | 0% | 1% | 0% |
| Dispensing services – Outpatients | 68% | 0% | 2% | 0% | 28% | 2% |
| Dispensing services – discharge | 95% | 0% | 0% | 0% | 5% | 0% |
| Drug distribution | 96% | 0% | 0% | 0% | 2% | 1% |
| Medicines procurement | 95% | 0% | 1% | 0% | 4% | 0% |
| Clinical pharmacy | 99% | 1% | 0% | 0% | 0% | 0% |
| Formulary/interface | 69% | 0% | 29% | 0% | 3% | 0% |
| Medicines information | 78% | 7% | 3% | 0% | 5% | 7% |
| Aseptic services | 60% | 0% | 1% | 0% | 35% | 4% |
| Manufacturing | 16% | 0% | 0% | 0% | 24% | 60% |
| Pre-packing | 20% | 2% | 2% | 0% | 34% | 43% |
| Quality Control/Quality Assurance | 46% | 26% | 1% | 0% | 10% | 17% |
| Homecare | 74% | 4% | 2% | 0% | 19% | 2% |
| Education & training | 71% | 1% | 1% | 0% | 27% | 0% |
| Clinical trials | 95% | 0% | 1% | 0% | 2% | 1% |
| Outreach in GP practices | 10% | 3% | 1% | 0% | 3% | 84% |





Clinical pharmacy

% of pharmacists' time spent undertaking clinical activities





Clinical pharmacy

% of all pharmacists that are qualified to prescribe



Clinical pharmacy

What changes have you made to your approach to clinical pharmacy due to COVID-19 that you intend to keep moving forward?



CELEB

Stock / Procurement

Total number of order lines sent per order (inc. homecare)



Stock / Procurement

Estimated number of hours per week spent managing medicines shortages (unbenchmarked)





% of inpatient beds prescribed digitally



Dispensing

Number of prescription lines per 100 beds

| | Mean (2022) | Mean (2021) | Mean (2020) |
|-------------|----------------|----------------|----------------|
| Outpatients | 12,214 | 10,094 | 13,112 |
| Discharge | 16,690 | 16,890 | 18,625 |
| Inpatients | 16,583 | 15,018 | 14,928 |
| Day case | 1,808 | 1,554 | 1,656 |





Homecare

Number of patients supported by homecare per 100 beds



Homecare

What changes have been made to the organisation's approach to homecare in the past 12 months that you intend to keep going forward

change none invoices reviewed medicines currently teams iecare providers patient capacity due service process development clinical management growth admin services working staff pharmacist time business team numbers wte increased part continued workforce pharmacy case prescriptions band prescription staffing support home meetings new post review continue technician processes available patients introduction



Medicines information

Does your organisation have a defined medicines information service/team?

NHS

Does your organisation provide a medicines information service to any other NHS Trusts?



Medicines information

Medicines information WTE as a % of total WTE Pharmacy staff



Antimicrobials

Specialist microbiology pharmacist time (WTE Band 8+) protected for antimicrobial stewardship or optimising prescribing (unbenchmarked)



Antimicrobials

Training

| | % Yes (2022) | % Yes (2021) |
|---|-----------------|-----------------|
| Do all prescribers receive mandatory training in prudent antimicrobial use at induction? | 70% | 68% |
| Do all prescribers receive mandatory training in prudent antimicrobial use at least once every three years? | 33% | 33% |
| Do all clinical staff receive mandatory training in prudent antimicrobial use at induction? | 42% | 44% |
| Does your organisation employ a Pharmacist in an antimicrobial stewardship role who has completed (or is currently undertaking) formal post-graduate training with a higher education institute, at Diploma/Masters level or above, in medical microbiology, infectious diseases, infection management or a similar discipline? | 31% | 43% |
| NHS Benchmarking Network | TWORK | 102 |

THA

Antimicrobials

Is serum procalcitonin testing available in your organisation?



| Yes (unrestricted) | 32% |
|-----------------------|-----|
| Yes (restricted) | 57% |
| Νο | 11% |

Does your Microbiology service use a MALDI-TOF system for rapid identification of microorganisations for the majority of clinical specimens?



Does your Microbiology service use a system for automated culture and susceptibility reporting for the majority of clinical specimens (e.g. Vitek)?



Benchmarking Network

NHS

Medicines safety

Number of dispensing errors per 100,000 dispensed items

| 200 - | Year | Mean |
|----------|----------|------------------|
| 180 | 2022 | 22 |
| 160 | 2021 | 19 |
| 140 | 2020 | 19 |
| 120 | 2019 | 19 |
| 100 | 2018 | 21 |
| 80 60 | 2017 | 20 |
| 40 | | |
| 20 | 1. M | G 25 YEARS OF 73 |
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NETWORK

Quality

Average discharge prescription turnaround time (mins) Weekday Sunday



Concluding remarks and next steps



Raising standards through sharing excellence





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NHS Medicines Optimisation Conference 2022



SPEAKING NOW



Professor Simon Maxwell

Professor of Student Learning - Clinical Pharmacology & Prescribing at University of Edinburgh

I will be discussing...

"Prescribing Safety Assessment (PSA): Promoting basic competency of new doctors to prescribe and supervise the use of medicine"



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THANKS FOR ATTENDING



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