

## A new <u>Pharmacy Intervention Recording Tool (xPIRT)</u> to improve medicines optimisation, prescribing practice and health outcomes

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## The role of pharmacy

#### **Person's experience**

Person focused services/care Information about medicines Support with effective medicines use/outcomes Medicines transfer at care interfaces

#### **Medicines assurance**

Safety culture Effective management of medicines Safe storage, access, return, preparation and dispensing of medicines Tools to support medicines use

#### **Delivery of service**

Strategic, operational and clinical leadership Research, audits, QI, financial management Workforce planning, development and wellbeing

### **Recording Pharmacy Interventions**

**Inform services planning** training needs, fill identified gaps, needs for specific guidelines/SOPs management planning Inform on key trends in prescribing identifies/prevents errors informs prescribers on their practice

identifies cost-savings opportunities



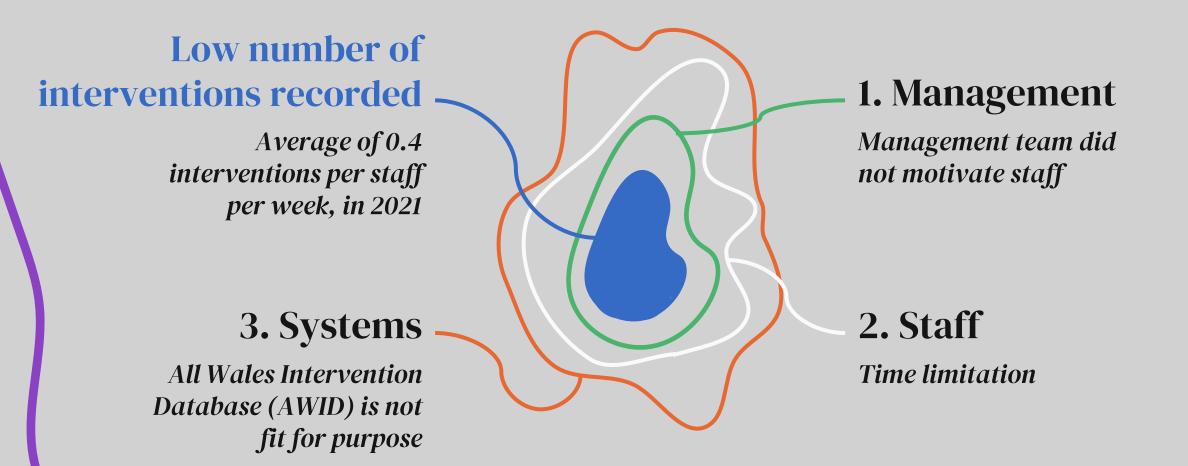


# **Problem and Aims**

Background data - what is not working?



### Problem





# Improvement cycles

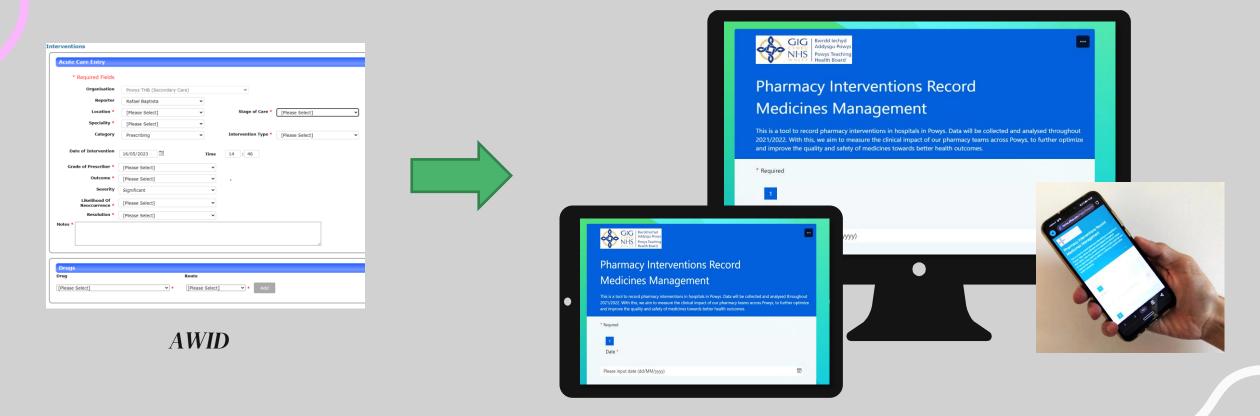
How have we done it?

## **Tackling problems**



New recording Tool

All Wales Intervention Database (AWID) was replaced by xPIRT (Pharmacy Intervention Recording Tool)

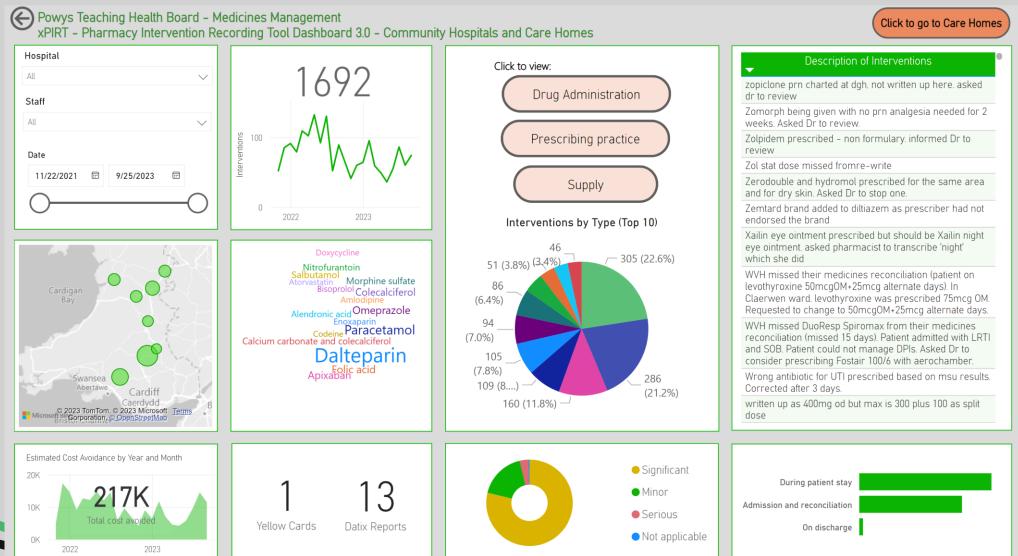


## **Tackling problems**

#### **New Dashboard**

Real-time interactive infographics on data analytics

based on the interventions recorded



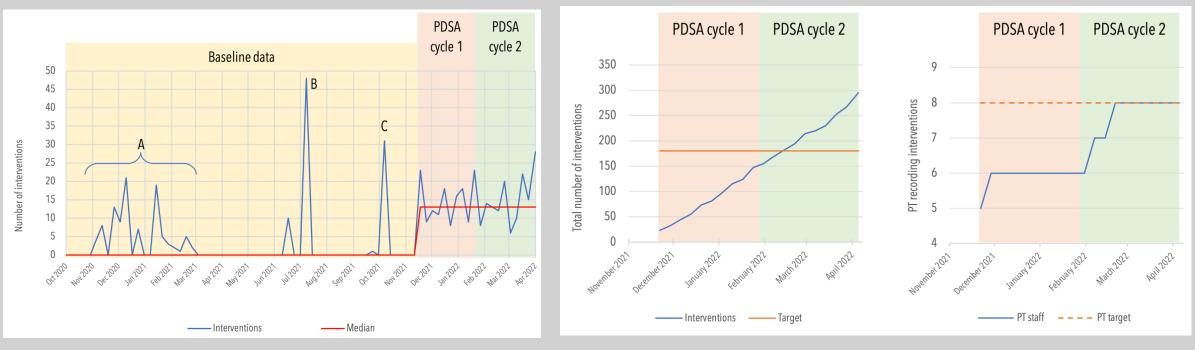


# Outcomes

How are we impacting the everyday work on the wards?



### Targets were met



A total of 977 interventions were recorded, an increase of more than 600% compared to that of 2021.

All ward-based pharmacy staff recorded interventions

1. Stakeholders satisfaction and level of awareness; 2. Identified key issues around prescribing. New guidelines have been prepared (PPIs, LMWH for VTE prophylaxis, oral paracetamol for extremes of weight) with formulary changes; 3. Creation of Community hospital ward-specific interventions yearly report; 4. Pharmacy team actively involved in feedback meetings with GPs;



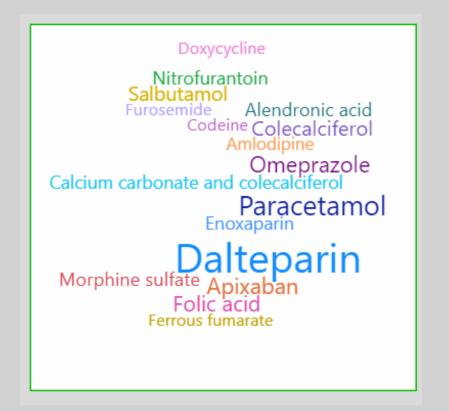
# Satisfaction

Interventions is a "challenging competing priority"

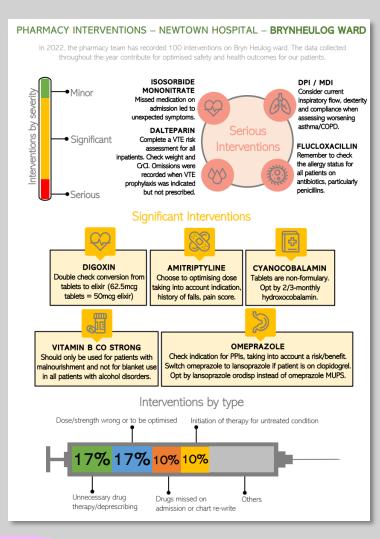
#### 83.3% vs 71.4% 🖊

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# Today

Where are we now?



## Today

Harm and mortality / Clinical governance groups PTHB **Area Prescribing Group PTHB Powys Learning from Experience Group** All Wales Quality and Patient Safety Group **Digital Health and Care Wales** 

**Finalist NHS Wales Awards 2022 (Patient Safety category)** Winner CHA UK – Innovation and Best Practice Winner – PrescQIPP Award 2023 (Technology to support medicines optimization) **Publications (QI project & outcomes)** 



Article

#### Using xPIRT to Record Pharmacy Interventions: An **Observational, Cross-Sectional and Retrospective Study**

Rafael Baptista <sup>1,\*</sup>, Mary Williams <sup>2</sup> and Jayne Price <sup>1</sup>

Medicines Management, Powys Teaching Health Board, Hafren Ward, Bronllys Hospital, Brecon LD3 0LU, UK School of Pharmacy & Pharmaceutical Sciences, Cardiff University, King Edward VII Avenue, Cardiff CF10 3NB, UK Correspondence: rafael.baptista@wales.nhs.uk medR<sub>χ</sub>iv **BMJ** Yale **BMJ** Open Quality THE PREPRINT SERVER FOR HEALTH SCIENCES Improving the impact of pharmacy interventions in hospitals Rafael Baptista, Mary Williams, Jayne Price doi: https://doi.org/10.1101/2023.03.03.23286757

MDPI

# Thank you

