

# DRUGGL: Together we learn to improve prescribing practice



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## Objectives

- Prescribing errors in paediatrics can inadvertently cause significant harm to children and young people.
- There are a multitude of contributing factors including individualised calculations, medication formulation, and a high turnover of junior doctors who may be unfamiliar with prescribing in paediatrics.
- This QIP aims to increase awareness of common prescribing errors and improve prescribing practice.

## Methods

### DRUGGL

Together we learn to improve prescribing practice

### Three DrugglearnS (TDS)

1. Write LEGIBLY in CAPITAL LETTERS
2. Prescribe microgram instead of mcg
3. Append your surname & bleep no. close to the prescriber signature

### Did you know?

Prescriptions for antimicrobials should include a course length or review date.

### I spy with my little eyes..

Can you identify the error?

DRUG (Approved name)		Dose	6	Nurse
CO-AMOXICLAV		5mL	8	
Route	Special Directions	Pharmacist	Supply	13
ORAL				14
				18
Start Date	Prescriber's Signature & Bleep	Stop date	R/V	22
01/06/23	A. DOCTOR 246	03/06		
If New prescription state indication				
Lower respiratory tract infection				

**Answers:**  
Co-Amoxiclav has different concentrations; 125/31, 250/62. So it is important to prescribe the right strength in the drug name

- We collected baseline data from drug charts using a standardised data collection sheet.
- We introduced DRUGGL in May 2023, with a weekly 5-minute drug huddle attended by doctors and nurses, led by a Consultant Paediatrician or Paediatric Registrar.
- An electronic DRUGGL poster (e-DRUGGL) is then circulated to all Paediatric staff members. (see Figure 1)
- It contains **three learning points, one drug-related fact, and a drug error identifying quiz section** - "I spy with my little eyes".
- We reviewed the drug charts for improvement monthly.

Figure 1: e-Druggl poster

## Results

- Review of data showed there was a significant number of mistakes being made suggesting improvement was needed.
- Only 43.75% of drug charts in May 2023 had 100% of the medications prescribed correctly.
- By July 2023 100% of the drug charts reviewed had no prescription errors. (+56.25% improvement)
- Demographic data was correct in most instances with 100% of drug charts having patient name, DOB and weight written in all three months.
- The missing data included Patient number, consultant name and allergy status. (See Chart 1)
- The prescriptions were reviewed with data analysed to find the most common errors. (See Chart 2)

Repeated errors included

- No antibiotic review date (-18.88% from May to July)
- No antibiotic indication (-7.62%)

Improvement included

- Appropriate dose (+6.82%)
- Appropriate units (+20.45%)
- Appropriate route (+4.5%)
- Appropriate frequency (+13.95%)
- Prescriber name and signature (+64.44%)
- Stopped medication signed and dated (+28.57)

Significantly worsened area

- Fluid rate was correctly written in only 50% of the drug charts reviewed in July compared to the 83% of prescriptions in May.

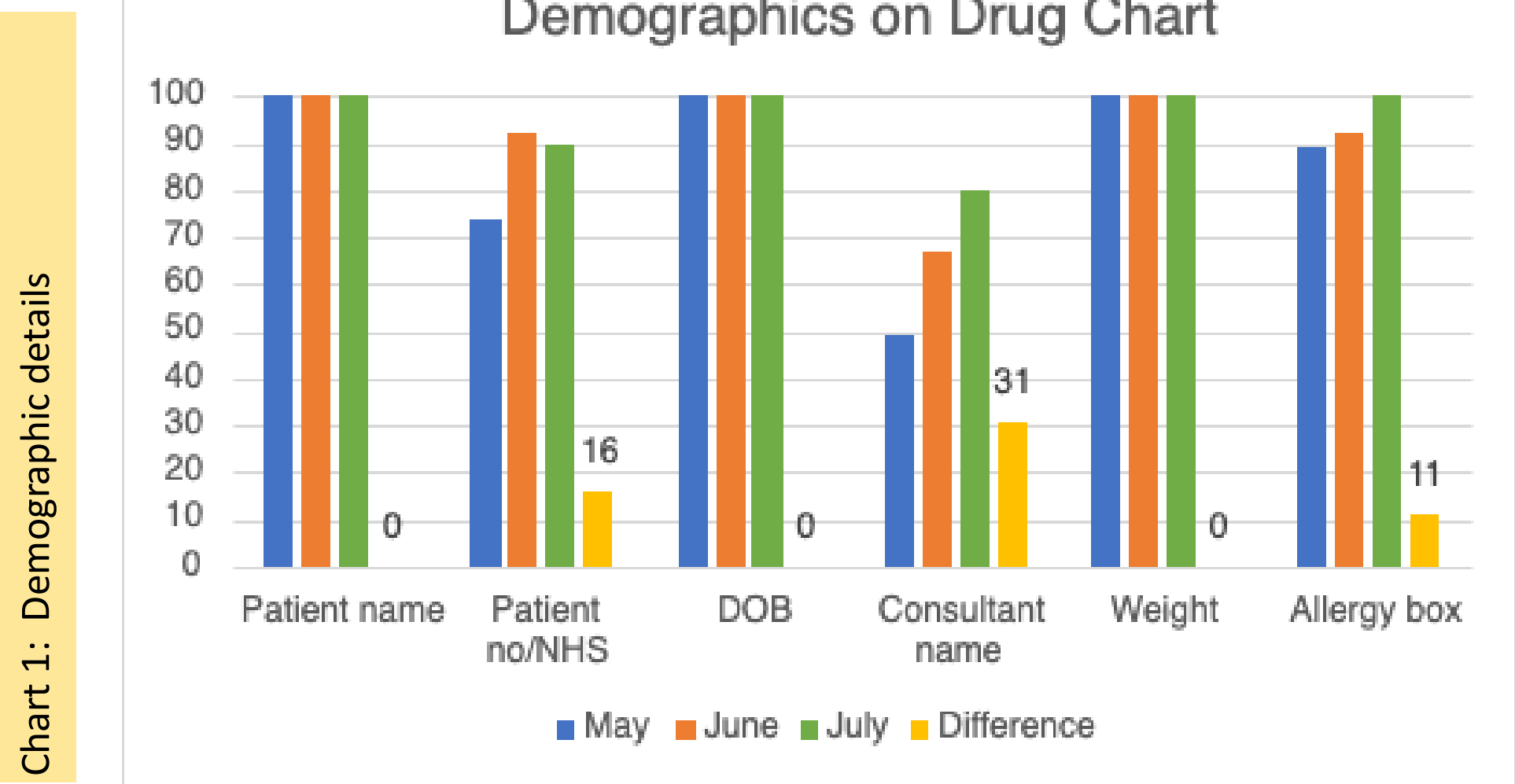
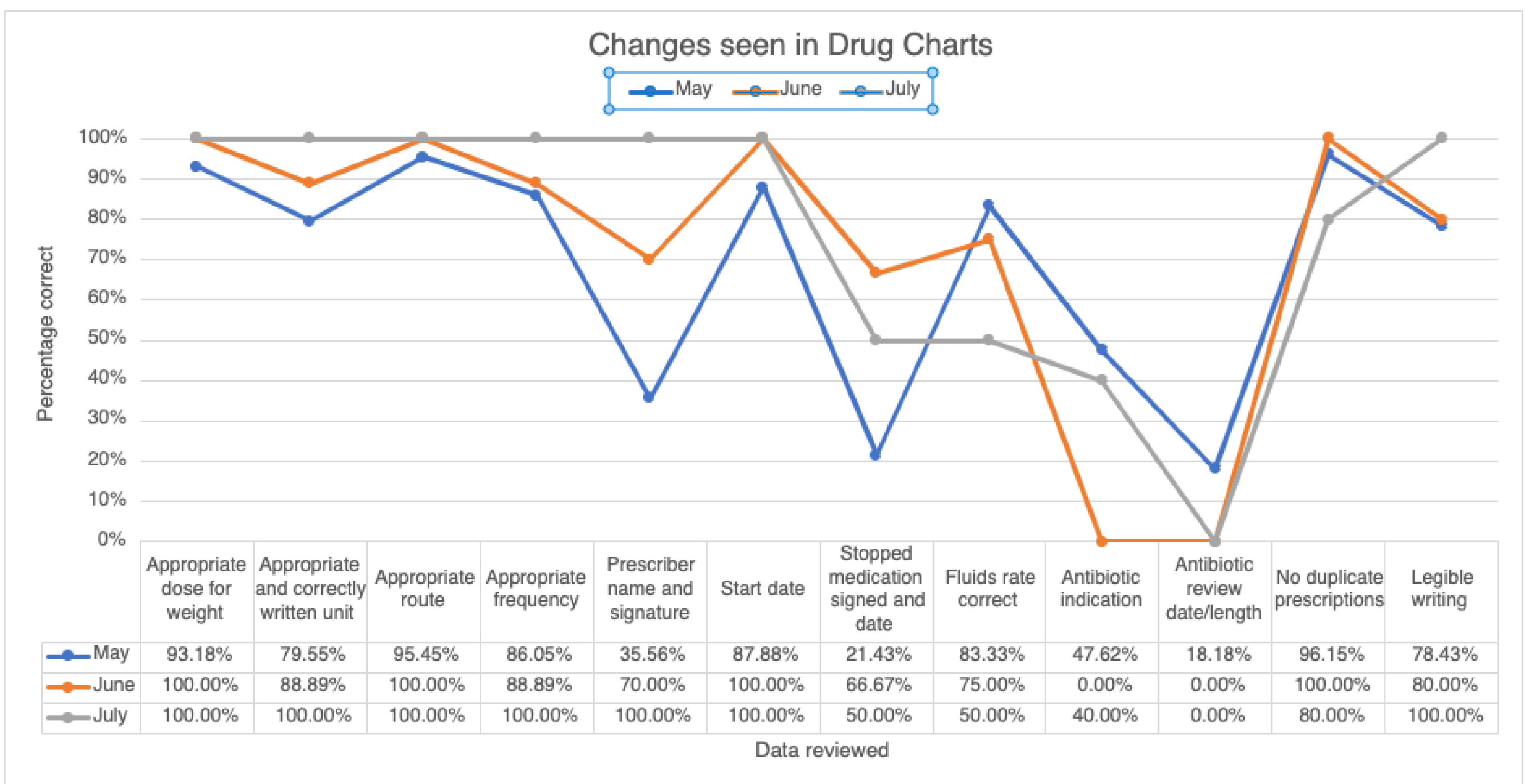


Chart 2: Drug errors across May to July 2023



## Conclusion

- An overall improvement was seen following the introduction of the weekly DRUGGL ward rounds.
- This was seen with statistics as discussed, as well as positive feedback received from the paediatric staff including junior doctors and Consultants.
- Having an awareness of the difficulties junior doctors face when rotating in paediatrics; incorporating weekly teaching sessions helped to address common errors and improve overall prescribing practices.
- Commitment as a department to sustaining education around medication related errors is recommended to ensure continued and sustainable improvement in prescribing practice.