Assessing Antibiotic Usage on Wandle 1 ward

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Aim

We aimed to assess antibiotic prescriptions on Wandle 1 ward and compare these to trust guidelines to determine the number how many differed from these recommendations.

Methods

We assessed antibiotic prescriptions on Wandle 1 ward approximately every 2-3 weeks, looking at:

- What was the antibiotic prescribed?
- What was the clinical indication?
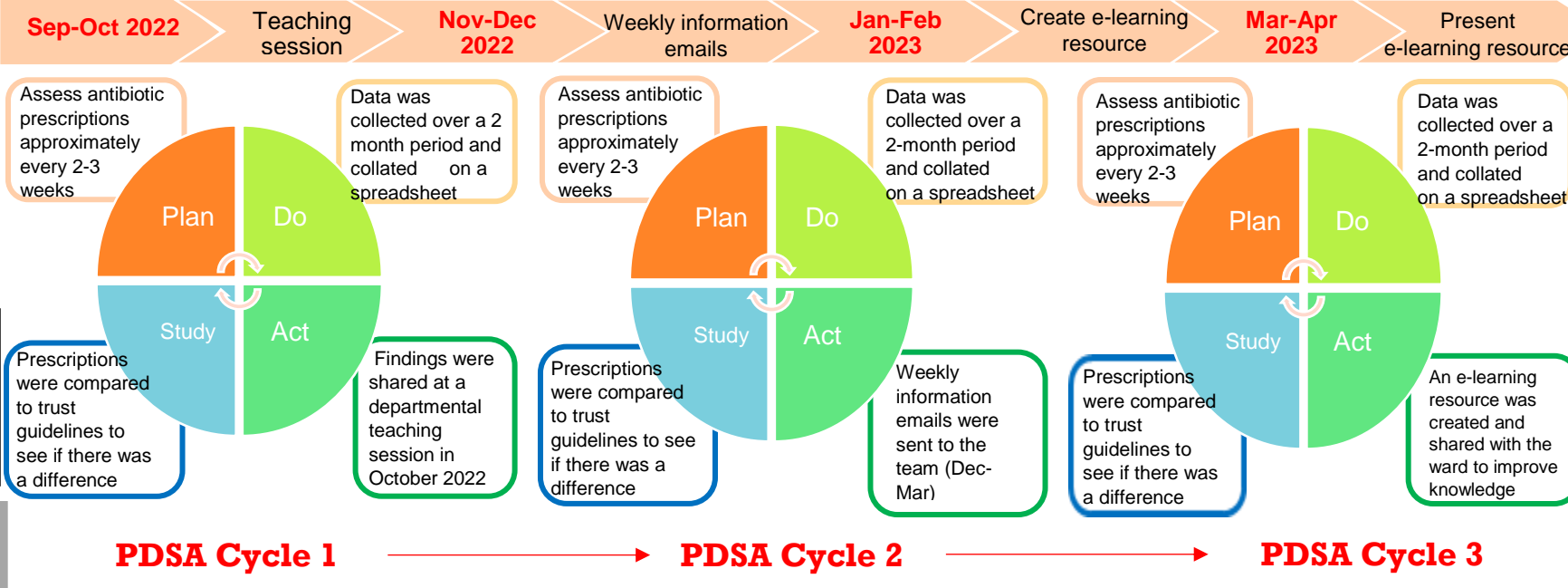- Route of administration?
- Duration of the course?
- Was a review date present?
- Did the prescription align with trust guidelines?

After the first 8 weeks, we delivered a departmental teaching session on antibiotic prescribing. We discussed:

- Common prescription errors
- Trust guidelines
- Antibiotic resistance
- Most prescribed for conditions
- Dangers of incorrect prescriptions
- Preliminary data

PDSA Cycle 1

Sep-Oct 2022 → Teaching session → **Nov-Dec 2022**

Plan: Assess antibiotic prescriptions approximately every 2-3 weeks

Do: Data was collected over a 2 month period and collated on a spreadsheet

Study: Prescriptions were compared to trust guidelines to see if there was a difference

Act: Findings were shared at a departmental teaching session in October 2022

PDSA Cycle 2

Weekly information emails → **Jan-Feb 2023** → Create e-learning resource

Plan: Assess antibiotic prescriptions approximately every 2-3 weeks

Do: Data was collected over a 2-month period and collated on a spreadsheet

Study: Prescriptions were compared to trust guidelines to see if there was a difference

Act: Weekly information emails were sent to the team (Dec-Mar)

PDSA Cycle 3

Mar-Apr 2023 → Present e-learning resource

Plan: Assess antibiotic prescriptions approximately every 2-3 weeks

Do: Data was collected over a 2-month period and collated on a spreadsheet

Study: Prescriptions were compared to trust guidelines to see if there was a difference

Act: An e-learning resource was created and shared with the ward to improve knowledge

Methods

Following this, we:

- Re-audited antibiotic prescriptions for approximately 2 months following this
- Sent weekly emails to the ward team on locating trust guidelines and common correct prescriptions
- Re-audited antibiotic prescriptions for approximately 2 months following this
- Created an e-learning resource on antibiotic prescriptions for the ward team to complete

E-learning resource

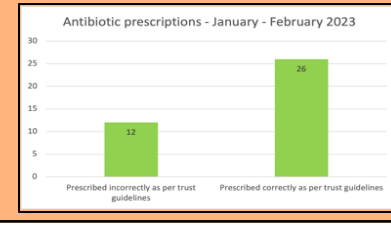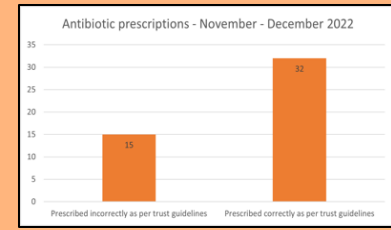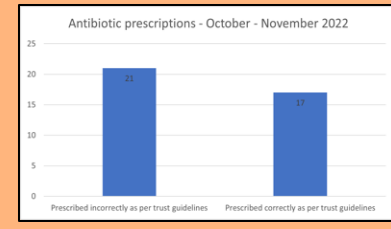Scan the QR code to review the e-learning resource created as part of PDSA cycle 3

Results

110 notes were reviewed between 17/09/22 and 26/10/22.
55% of prescriptions differed from trust guidelines.

132 notes were reviewed between 09/11/22 and 21/12/22.
31.9% of prescriptions differed from trust guidelines.

129 notes were reviewed between 09/01/23 and 21/02/23.
31.6% of prescriptions differed from trust

Antibiotic prescriptions - October - November 2022
- Prescribed incorrectly as per trust guidelines: 21
- Prescribed correctly as per trust guidelines: 17

Antibiotic prescriptions - November - December 2022
- Prescribed incorrectly as per trust guidelines: 15
- Prescribed correctly as per trust guidelines: 32

Antibiotic prescriptions - January - February 2023
- Prescribed incorrectly as per trust guidelines: 12
- Prescribed correctly as per trust guidelines: 26

Next Steps

- Deliver a teaching session to the ward on how to use the e-learning resource
- Re-audit antibiotic prescriptions post completion of the e-learning resource
- Collate results to determine the overall trend and share these results with the hospital

Conclusion

The overall trend so far has demonstrated an improvement in the quality of antibiotic prescriptions on Wandle 1 ward. More work is needed to determine if this has continued to cycle 3.

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