

Optimising CT KUB Utilisation in Suspected Renal Colic



J. Gibson¹, W. Hunter¹, A. Gkentzis¹
1. Bolton NHS Foundation Trust

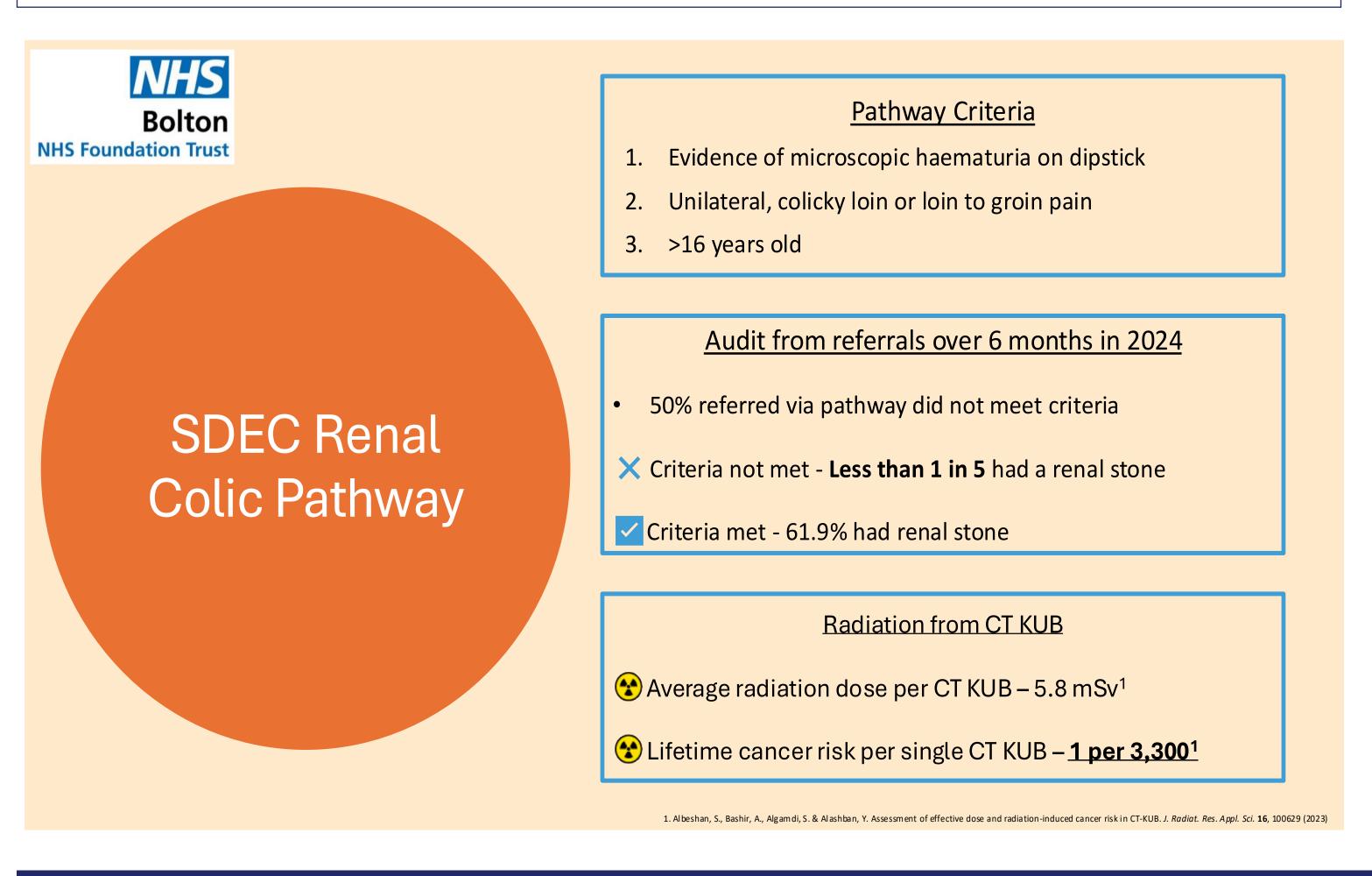
AIMS

- To evaluate adherence to the suspected renal colic pathway and its impact on the appropriate use of CT KUB.
- To Improve diagnostic yield of CT KUB's performed and reduce unnecessary radiation exposure.
- To optimise radiological investigations by ensuring CT KUB slots were reserved for patients meeting clinical criteria.

METHODS

- Suspected Renal Colic Referral criteria: unilateral colicky loin or loin-to-groin pain, microscopic haematuria, age >16 years, and an initial pain score >7/10.
- 1st Cycle Retrospective cohort study reviewed patients referred via the pathway over 6 months.
- Data were collected on: (i) adherence to criteria, (ii) ureteric stone detection rates, and (iii) CT KUB utilisation.
- Educational intervention was introduced via a poster reinforcing referral criteria.
- 2nd Cycle assessed the impact of the intervention over 6 months.

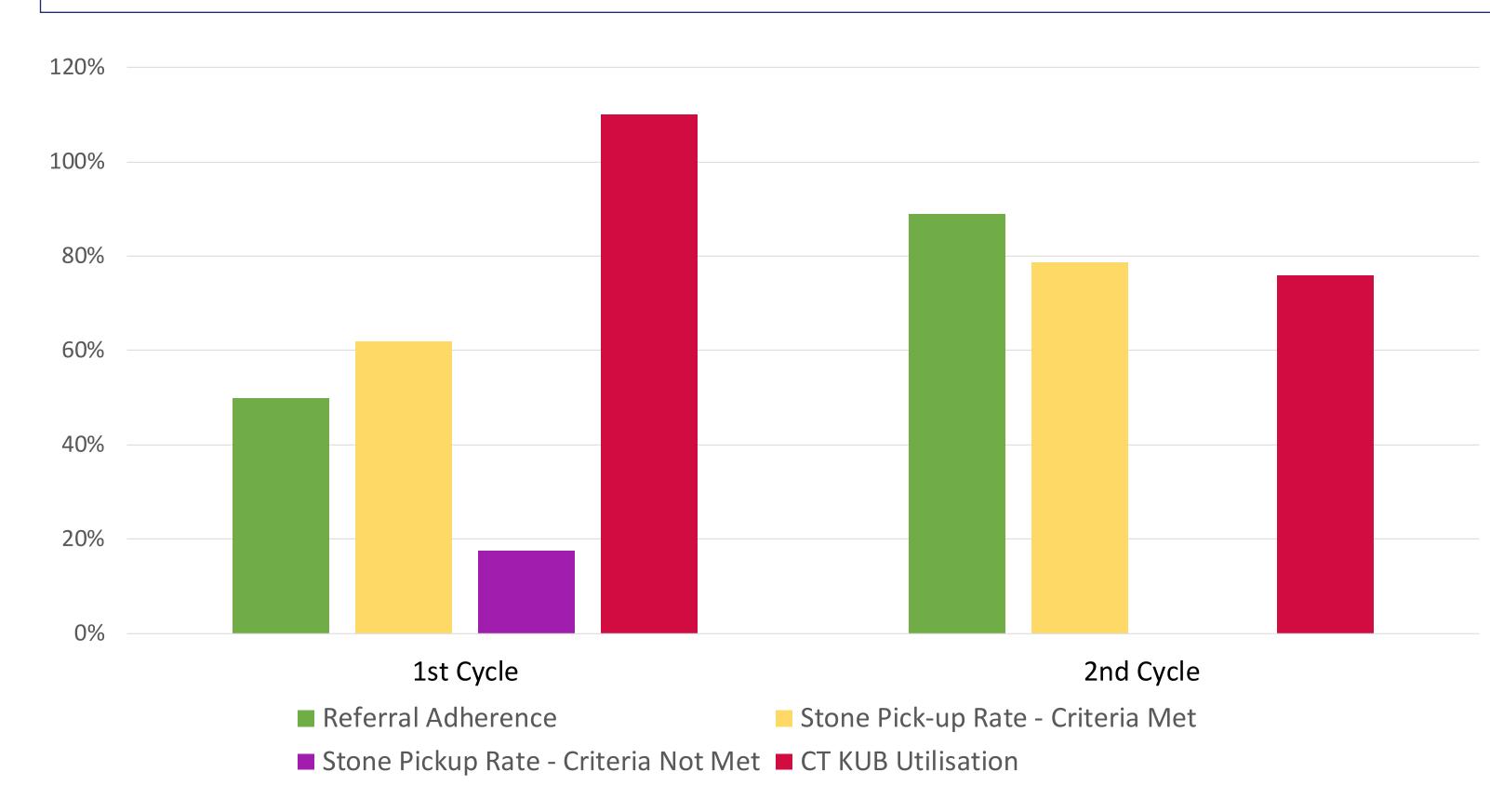




RESULTS

- First Cycle
- 50% of patients met referral criteria.
- Referral criteria met 61.9% had ureteric stones.
- Referral criteria not met 17.6% had ureteric stones.
- Reserved CT KUB Utilisation 110%
- Second Cycle
- Referral adherence improved to 88.9%.
- Referral criteria met 78.8% had ureteric stones.
- Referral criteria not met 0.0% had ureteric stones.
- Reserved CT KUB Utilisation 76%

Table 1: Bar Chart Showing Result Differences Between Audit Cycles



CONCLUSIONS

- Radiological pathways are valuable tools in guiding appropriate imaging.
- Ensuring they are correctly followed is essential to optimise their effectiveness while reducing unnecessary imaging, benefiting both patients and staff.
- Targeted educational interventions can enhance appropriate referrals.
- Reducing unnecessary radiological investigations minimises patient radiation exposure and optimises workflow within radiology departments.

Summary

- Our aim was to evaluate current practice of a suspected renal colic pathway and improve it.
- Educational poster to help educate referring clinicians of criteria pathway.
- This resulted in an improvement in the number of unnecessary CT KUB's and improved stone detection.
- Radiological pathways are useful tools for patients and staff when used correctly.