

The Safer Prescription of Opioids Tool (SPOT) - Evaluation in Clinical Practice

The Safer Prescription of Opioids Tool (SPOT) enables clinicians to SPOT is a clinical decision support (CDS) tool, aimed at double-check opioids conversions safely, quickly, and conveniently reducing errors in conversion and improving the efficiency of the double-checking process. at the patient's bedside, using a smartphone, tablet or computer.

Aim

The aim of the SPOT clinical utility study was to evaluate SPOT as a CDS platform in equianalgesic opioid dose conversion using clinical data across primary, secondary and tertiary care.

Methods

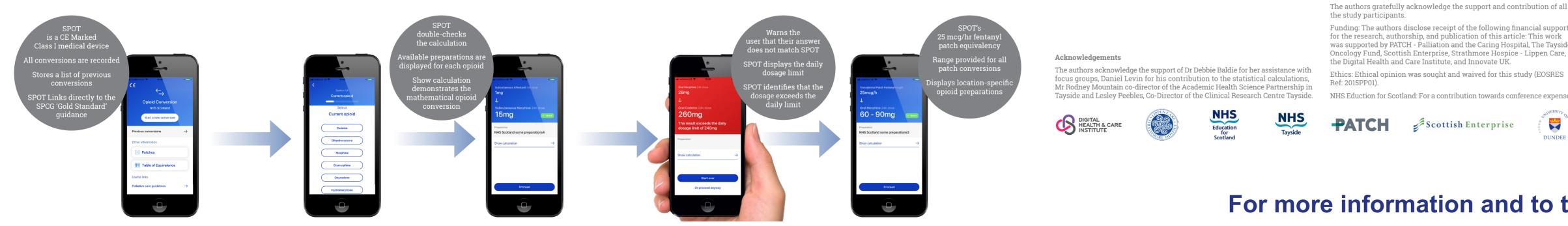
The study population included all male and female patients in primary, secondary and tertiary care settings undergoing equianalgesic opioid switch under the Palliative Care Department at a Scottish Health Board. We also included patients in primary care undergoing equianalgesic opioid rotation. The data collection period for the clinical study was 5 months.

Results

Almost all users (98%) found it beneficial to their clinical practice and for patient safety to have an easy way to double-check their calculations.

Confidence in prescribing opioids was significantly higher in the post-SPOT study group than in the pre-SPOT study group (Table 2) (Onetailed t-test, t-value = -1.94004. p= -0.027).

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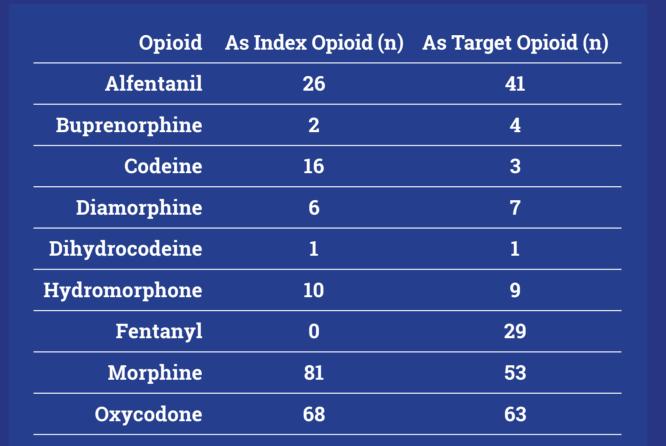
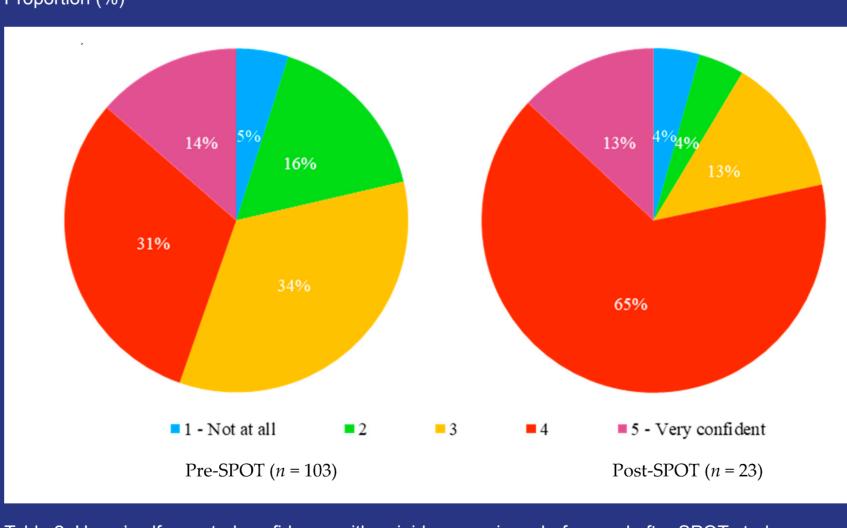


Table 1. Opioids used during the study period, recorded as the starting (Index) and the resulting opioid (Target) of the equianalgesic switch.



Confidence Levels With Opioid Conversions Proportion (%)

Table 2. Users' self-reported confidence with opioid conversions, before and after SPOT study.

Discussion

In contrast to tests of other equianalgesic opioid converter test protocols, our intention was to evaluate the clinical utility of a novel CDS, SPOT, using real-world patient conversion data from quantitative and qualitative aspects. The information gathered is intended to provide clarity on the real-world challenges of using technology for opioid conversions.

Our initial survey identified low confidence and variable competence in performing equianalgesic opioid conversions.



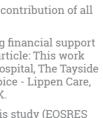
We found variable adherence to guidelines. For example, despite guidance to the contrary, not all of the respondents altered their choice of index opioid despite a reduced estimated glomerular filtration rate (eGFR).

Conclusion

This study evaluated the use of a novel CDS, SPOT in clinical practice in vivo, using contemporaneous clinical data. SPOT improved self-reported confidence when End Users performed equianalgesic opioid dose conversion in palliative and end of life care settings.

SPOT was found to appropriately improve End User confidence when prescribing opioids.

SPOT's role is as a support to the generalist making complex, high risk, clinical decisions.





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