Experience of using a mobile app audit tool to support hospital prescribing quality indicators

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Introduction
The Scottish Government approved a national hospital antimicrobial prescribing quality indicator which was developed by the Scottish Antimicrobial Prescribing Group (SAPG) in collaboration with NHS board Antimicrobial Management Teams (AMTs). The quality indicator is intended to support reduction in unnecessary hospital antibiotic use through promoting review of IV therapy within 72 hours and documentation of duration for oral therapy. The data for the quality indicator are recorded via an audit tool within the SAPG Antimicrobial Companion app which was launched in August 2017.

Results
Compliance with the quality indicator at national level demonstrates progress towards a 95% target (Figure 2).
Run charts can be generated within the app so NHS boards can track progress over time. Run charts can be created by specialty (medical or surgical), at hospital level or health board level.

Method
Each month, data are collected on a minimum of 10 patients in one medical and one surgical ward on each of the following measures:
• Indication documented
• Compliance with local antibiotic prescribing policy
• All prescribed doses administered
• Oral therapy only: duration or stop date documented, and
• IV therapy: Clinical review and management plan documented within first 72 hours and documented outcome of review.
Data are downloaded from the app by AMTs in each NHS board and are collated to produce a national report.

Conclusions
Data collection via the app can be done in real-time during ward rounds and provides clinical staff with an easy to use, accessible audit tool. The data recorded on the SAPG app allows national monitoring of quality indicators as well as at local level within individual NHS boards.
Following recent improvements to the reporting functions within the app, weekly or monthly reports can be generated on any device via the app to track compliance over time and can be downloaded into PDF format to email directly to clinical teams to share results. The updated version will be used from October 2018.

Figure 1: App data entry screen

Figure 2: Aggregated data for all health boards, January to June 2018