

## The Appropriateness of Antibiotic Prescribing within Dundee Dental Hospital

**Authors :** Salma Ainine, Colin Ritchie, Tracey McFee

**Abstract :** Background: The societal impact of antibiotic resistance is a major public health concern. The increase in the incidence of resistant bacteria can ultimately be fatal. Objective: To analyse the appropriateness of antibiotic prescribing in Dundee Dental Hospital, ultimately improving the safety and quality of patient care. Methods: Two examiners independently cross-checked approximately fifty consecutive prescriptions, and corresponding patient case notes, for three data collection cycles between August 2014–September 2015. The Scottish Dental Clinical Effectiveness Program (SDCEP) Drug Prescribing for Dentistry guidelines was the standard utilised. The criteria: clinical justification, regime justification, and review arrangements was measured, and compared to the standard. Results: Cycle one revealed 42% of antibiotic prescriptions were appropriate. Interventions included: multiple staff meetings, an introduction of a checklist attached to the prescription pack, and production of patient leaflets explaining indications for antibiotics. Cycle two and three revealed 44%, and 30% compliance, respectively. Conclusion: The results of the audit have yet to meet target standards set out in prescribing guidelines. However, steps are being taken and change has occurred on a cultural level.

**Keywords :** antibiotic resistance, antibiotic stewardship, dental infection, hygiene standards

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