

5PSQ-138 **INFLUENCE OF ANTIBIOTIC STEWARDSHIP PROGRAMME INTERVENTIONS IN A HOSPITAL AT HOME UNIT**

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**Background and importance** Hospital at home (HaH) units provide hospital level care at home to patients who would otherwise remain hospitalised. This hospitalisation model is growing as it saves costs, reducing hospital stay and complications such as nosocomial infections. Antibiotic stewardship programmes demonstrated success in conventional hospitalisation, and these interventions might be extended to HaH units. At the beginning of 2019, the antibiotic stewardship programme (ASP) made two interventions in the HaH unit: to prescribe fluoroquinolones only to patients with no safer alternatives based on the restriction made by the Spanish Agency of Medicines and Medical Devices (AEMPS) in 2018, and the advice to reduce the prescribed dose of cefixime from 400 mg/12 hours to 400 mg/24 hours.

**Aim and objectives** The aim of the present study was to analyse the influence of the ASP interventions in a HaH unit.

**Material and methods** An observational, descriptive, cross-sectional study was carried out. Antibiotic consumption data from January 2017 to December 2019 were analysed. Defined daily dose (DDD) per 100 bed days was used as the indicator to measure antibiotic consumption, and increases or decreases in consumption were expressed in absolute terms. Data analysis was carried out using Microsoft Excel 2013.

**Results** Global antibiotic consumption was reduced progressively since 2018: 133.85 DDD/100 bed days (2017); 127.02 DDD/100 bed days (2018) and 101.95 DDD/100 bed days (2019). Fluoroquinolone consumption was 26.18 DDD/100 bed days in 2017. Since the recommendation made by the AEMPS, a more rationale use was observed in 2018 (21.62 DDD/100 bed days). After the ASP recommendations, its consumption fell to 15.16 DDD/100 bed days in 2019 (14.40% reduction 2018–2019). Cefixime consumption was 17.74 DDD/100 bed days in 2017 and increased to 20.62 DDD/100 bed days in 2018. After the ASP intervention, it was reduced to 11.12 DDD/100 bed days in 2019 (7.13% reduction 2018–2019).

**Conclusion and relevance** Antibiotic stewardship programme interventions were effective in reducing antibiotic consumption in the HaH unit. Prescription restrictions related to fluoroquinolones due to their safety profile and cefixime dosing intervention were effective and reflected a reduction in consumption. HaH units could potentially benefit from the positive effects of antibiotic stewardship teams as conventional hospitalisation units.

**REFERENCES AND/OR ACKNOWLEDGEMENTS**

**Conflict of interest** No conflict of interest

5PSQ-139 **PRESCRIPTIVE APPROPRIATENESS OF ANTIBIOTIC THERAPIES: CRUCIAL ROLE OF THE HOSPITAL PHARMACIST**

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**Background and importance** In the context of the single dose, the pharmacist is involved in the validation of patients' personalised therapies, attempting to minimise errors in therapy.

**Aim and objectives** The aim of this study was to evaluate, through the computerised prescription, the increase in prescribing appropriateness of antibiotic therapy, following notification by the pharmacist, with relative money saving costs.

**Material and methods** The analysis was carried out by extrapolating, from the unit dose (UD) software, prescriptions of antibiotics subjected to a single request motivated (SRM) in the period from 1 January 2019 to 31 December 2019. We analysed inappropriate prescriptions where the hospital pharmacist affixed the 'note', sent immediately to the prescriber. These prescriptions were divided into inappropriate for: posology, duration of therapy and interaction/incompatibility. Subsequently, the variation in prescriptions due to the pharmacist's intervention was evaluated (ie, the number of inappropriate prescriptions which were changed by the physician was extrapolated). In the pharmacoeconomic field, we evaluated the expenditure of inappropriate prescriptions without notification of the hospital pharmacist and the savings obtained following the change in therapy.

**Results** During the study period, total prescriptions of antibiotics with SRM were 2067; 216 (10.45%) were not appropriate. The number of prescriptions modified following the pharmacist's intervention was 104 (48%). Pharmacoeconomic analysis showed that the expenditure incurred for the dispensation of antibiotics related to inappropriate prescriptions changed by notification from the pharmacist was 77 537€ for 12 months. If the physician had not modified the therapies, the expenses would have been 162 762€ and therefore the amount of money saved was 85 225€ in 12 months.

**Conclusion and relevance** The control and validation of medical prescriptions by the pharmacist produced an important added value to the risk management process, in that in almost 50% of cases the pharmacist's notes led to an actual change in the medical prescription. The use of computerised prescriptions and single dose management contributed strongly to the objectives of verifying prescriptive appropriateness as a tool to govern effectiveness, efficiency and costs in healthcare.

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5PSQ-140 **UNIT DOSE SYSTEM: MODEL OF IMPLEMENTATION OF THE ANTIMICROBIAL STEWARDSHIP**

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