Electronic databases (MEDLINE, CINAHL, International Pharmaceutical Abstracts, Cochrane database and Web of Science) were searched using pre-specified terms for peer-reviewed publications in English from 2010 onwards. Quality assessment, data extraction and synthesis were independently performed by two reviewers. ASP interventions were compared to the Centre of Disease Control and Prevention (CDC) checklist, a systematic assessment of key ASP interventions.

Results Fifteen quantitative studies were included. Quality assessment indicated that two were ‘good quality’, two ‘poor’ and the remainder ‘fair’. Studies were mostly based in Saudi Arabia (n=10), Qatar (n=3), United Arab Emirates (n=1) and Kuwait (n=1). ASP interventions’ implementation in line with the CDC checklist were weak, with the majority of studies reporting only one-third of the expected CDC criteria. The most commonly reported outcomes were antibiotic consumption, with very little reporting of any microbiological, clinical and economic outcomes. Only six studies reported facilitators and barriers relating to ASP intervention. Key facilitators were physician and organisation support and education. Barriers reported included the lack of dedicated staff, workload issues and lack of sufficient funding for implementation.

Conclusion There is a lack of robust studies of ASP implementation in the GCC States. Such studies should focus on CDC criteria in developing the ASP intervention and report valid and reliable outcomes including microbiological, clinical and economic outcomes. There is also a need for qualitative research to focus on facilitators, barriers and solutions to implementation.

REFERENCES AND/OR ACKNOWLEDGEMENTS


No conflict of interest.
THE EFFECT OF CONTINUATION OF HOME MEDICATION BY HOSPITALISED PATIENTS ON MEDICATION WASTE AND PATIENT SATISFACTION, A MULTICENTRE, QUASI-EXPERIMENTAL STUDY WITH A PRE-POST DESIGN

Background The majority of all hospitalised patients use medication at home. On admission, patient’s medication is often ordered or changed to the hospital’s formulary. Therefore, the use of home medication during hospitalisation (HMDH) may prevent unnecessary medication waste, because currently ordered medication is disposed of at discharge. Furthermore, these medication changes have the potential to cause harm. In addition, they oppose the possibility for patients to participate in their pharmaceutical treatment. Therefore, the implementation of HMDH may increase patient satisfaction.

Purpose The aim of this study was to investigate the effect of HMDH on medication waste and patient satisfaction.

Material and methods This multicentre quasi-experimental study was conducted at seven different nursing wards, including both surgical and non-surgical wards. During pre- and post-implementation of HMDH, data were collected for 2 months at a time. Medication waste was measured by identifying all disposed medication for at least 1 month during both periods. The following data were collected: price per unit on November 2017, unique medication identification number and the amount of medication disposed of. Patient satisfaction was measured using a questionnaire about patients’ perceptions and beliefs. The results of the questionnaire were statistically tested by performing a t-test.

Results The total value of disposed medication was €14,954 (SD €2,887) and €10,728 (SD €1,728) per month, during pre- and post-implementation of HMDH, respectively. HMDH led to a reduction of 28.3% in medication waste costs. Extrapolation of these data to the national level may theoretically lead to €15 million savings annually in medication costs. In total, 912 patients completed the questionnaire. Pre-implementation, 69% (n=337) of all patients were positive about HMDH. When HMDH was implemented, this number significantly increased to 83% (n=328; p<0.05).

Conclusion The results of this study show that implementation of HMDH decreases costs associated with medication waste. In addition, the introduction of HMDH increases patient satisfaction.

REFERENCES AND/OR ACKNOWLEDGEMENTS

No conflict of interest.

DOES PLATELET-RICH PLASMA COMPOSITION MATTER IN HIP OSTEOARTHRITIS?

Background Analgesic and antiinflamatory (AA) activity of autologous platelet-rich plasma (PRP) yields in its concentration on blood-cell counts and certain growth factors, although, clinical correlation is poorly described.

Purpose We sought to analyse clinical outcomes and its growth factors and blood cell concentration of PRP.

Material and methods A cohort study of adult patients with hip osteoarthritis (OA) who had failed previous conservative treatment and received a single intra-articular injection of autologous PRP for pain management.

Follow-up period: 1 year with clinical evaluations at baseline (day of PRP administration) and at 1, 4, 24 and 48 weeks. The primary outcome measure was a change in the Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC) and secondary outcomes: Harris Hip Score (HHS), Visual Analogue Scale (VAS), responders’ rate (OARSI Criteria), analgesic treatment, cell counts and the contents of vascular endothelial growth factor (VEGF), platelet-derived growth factor AB (PDGF-AB), transforming growth factor beta 1 (TGF-b1), interleukin beta 1 (IL-B1) and insulin growth factor (IGF) concentration of growth factors in PRP.

Results Thirty-eight patients were included. A better response to treatment was observed in those patients with a baseline grade 1–2 of Kellgren Larwrence (11.51 OR, 95% CI: 2.34 to 50.65, p<0.03). Significant high correlation was found between white cells’ concentration-VAS score (r=0.748, p<0.013) and white cells’ concentration-WOMAC stiffness (r=0.748, p<0.013). Moreover, moderate correlation was found between IL61-HHS (r=−0.38, p<0.042), IL81-VAS