

Abstract 4CPS-279 Table 1

WARD	MEDICATION WASTE		COST DIFFERENCE	
	Pre-implementation of HMDH (€.)	Post-implementation of HMDH (€.)	Absolute (€.)	Relative (%)
A	243	292	49	20.0
B	4296	2718	-1,578	-36.7
C	1290	1263	-27	-2.1
D	7571	4902	-2,670	-35.3
E	440	923	482	109.6
F	1113	631	-482	-43.3
<b>Total</b>	<b>14 954</b>	<b>10 728</b>	<b>-4,226</b>	<b>-28.3</b>

#### 4CPS-279 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

<sup>1,2</sup>L Van Herpen-Meeuwissen\*, <sup>3</sup>B Maat, <sup>1,4</sup>B Van den Bemt, <sup>5</sup>H Van Onzenoort. <sup>1</sup>Radboud University Medical Centre, Pharmacy, Nijmegen, The Netherlands; <sup>2</sup>Radboud Institute For Health Sciences, Pharmacy, Nijmegen, The Netherlands; <sup>3</sup>Elisabeth-Tweesteden Hospital, Pharmacy, Tilburg, The Netherlands; <sup>4</sup>Sint Maartenskliniek, Pharmacy, Nijmegen, The Netherlands; <sup>5</sup>Amphia Hospital, Pharmacy, Breda, The Netherlands

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**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=357) 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.

#### 4CPS-280 DOES PLATELET-RICH PLASMA COMPOSITION MATTER IN HIP OSTEOARTHRITIS?

<sup>1</sup>MDM Villanova Lopez\*, <sup>2</sup>M Nunez-Nunez, <sup>3</sup>M Murillo-Izquierdo, <sup>4</sup>J Donaire, <sup>5</sup>R Alvarez-Sanchez, <sup>3</sup>M Camean-Fernandez, <sup>3</sup>S Sandoval. <sup>1</sup>Hospital Hospiten, Traumatology, Malaga, Spain; <sup>2</sup>Hospital San Cecilio-Granada, Pharmacy, Granada, Spain; <sup>3</sup>Hospital Macarena, Pharmacy, Sevilla, Spain; <sup>4</sup>Hospital La Línea, Traumatology, Cadiz, Spain; <sup>5</sup>Hospital San Cecilio, Pharmacy, Granada, Spain

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**Background** Analgesic and antiinflammatory (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- $\beta$ 1), interleukin beta 1 (IL-1 $\beta$ ) and insulin growth factor (IGF) concentration of growth factors in PRP. Uni- and multivariate analyses were performed using SPSS v.18.

**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 IL1 $\beta$ -HHS (*r*=-0.38, *p*<0.042), IL1 $\beta$ -VAS