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Slovenia

pneumonia/low

sepsis and uppe



## The global point prevalence survey of antimicrobial consumption and resistance (Global-PPS): first results of antimicrobial prescribing in University Medical Centre Ljubljana (UMCL), Slovenia

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## **INTRODUCTION AND PURPOSE**

UMCL was the only hospital in Slovenia which participated in the Global-PPS. UMCL is the biggest state hospital which represents approximately one third of hospital beds in the country. UMCL has more than 100.000 admissions per year. With multifaceted antimicrobial stewardship programme and infectious diseases specialist consultations antimicrobial resistance and consumption in UMCL is relatively stable. The purpose of PPS in UMCL was to use a uniform and standardized method to assess antimicrobial (AM) use in the hospital and to compare it with other hospitals in Europe and worldwide.

On the day of PPS a total of 1763 patients were hospitalized at UMCL and a total of 60 wards were surveyed. The hospital

prevalence was the highest in hematology and intensive care wards for adults. A similar pattern can be seen for pediatric

does not have a dedicated transplant unit which precluded the assessment of AM use in transplant wards. The AM

78

61.5

and neonatal wards with AM prevalence in haemtology-oncology ward being 100%. (Table 1)

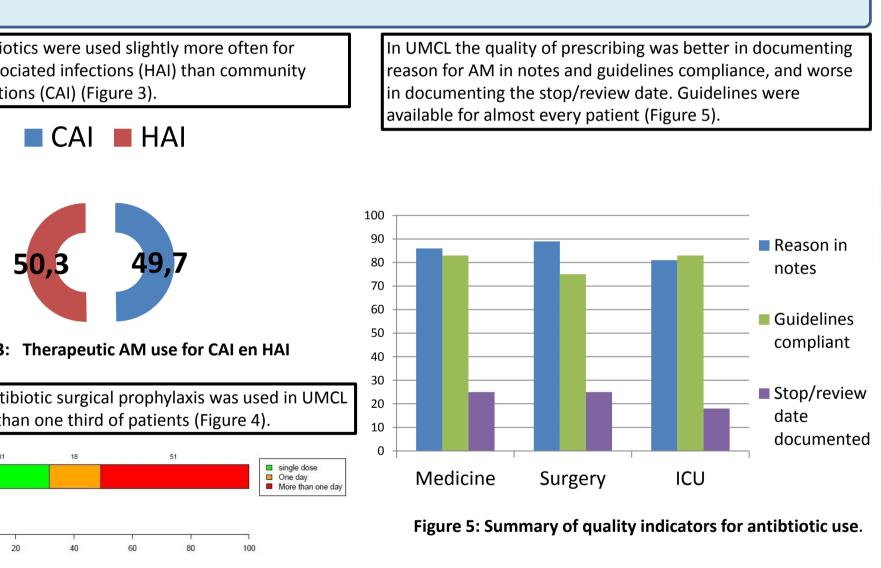


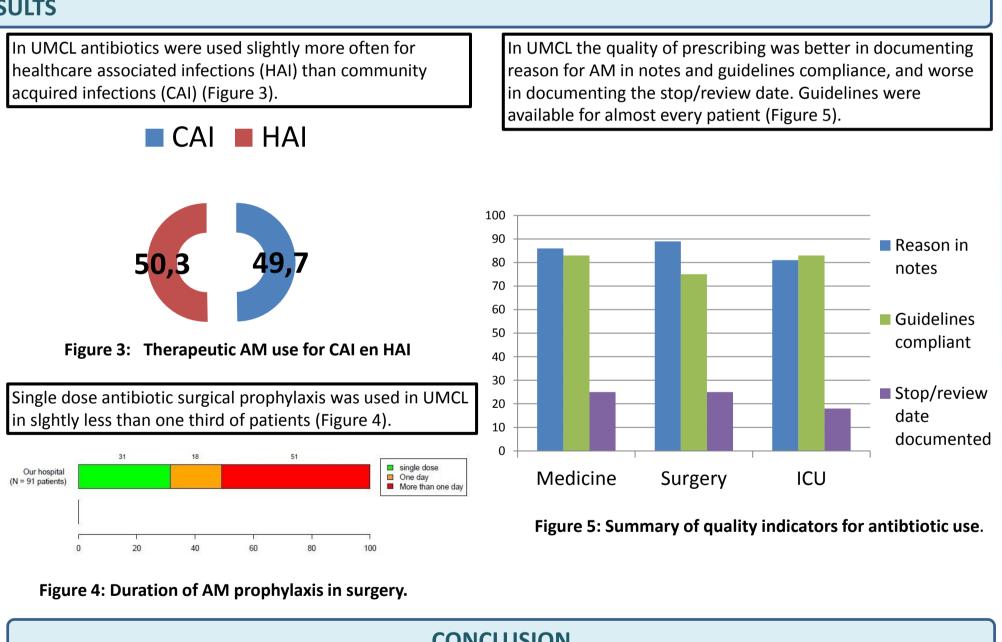
The Global-PPS in UMCL was conducted in March and April 2015. The survey included all inpatients receiving an AM on the day of PPS. Data collected included age, gender, weight, antimicrobial agents, doses, reasons and indications for treatment, microbiological data, compliance to guidelines, documentation of reasons and stop/review date of prescription. Denominators included the total number of inpatients per ward. A web-based application was used for data-entry, validation and reporting as designed by the University of Antwerp.

RESULTS

45 5





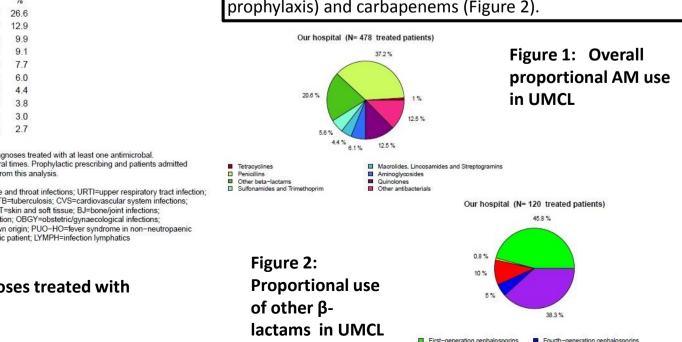


Global-PPS provided ar
to the following conclu
1.) AM use in hematolo
2.) Improvements shou
3.) Better infection con
4.) Stop/review date of
5.) We should decrease

Disclosures: "bioMérieux is the sole sponsor of the GLOBAL Point Prevalence Survey. The funder has no role in study design, data collection, data analysis, data interpretation, or writing the report. Data are strictly confidential and stored anonymous at the coordinating centre of the University of Antwerp."

Neol	natal	war	<b>'ds</b>								
	Total	NMW	NICU								
Our hospital											
patients (N)	94	65	29								
treated patients (%)	5.3	3.1	10.3								
MT/solid) AMW; P-AMW = Pneumology AMW; ASW = Adult Surgical Ward; AICU = Adult Intens			100 1000	atric Intensive Care I	onic, runni	reconata	meaned m	ard, moo	ricona	ar intensive /	oure one.
ole 1: Overall AM prevalence in adult, pedia	ric an	nd neo	onatal	wards for	UMC	Ľ					
• •							M w	ere	oenic	illins,	
nmon diagnoses treated with AM were		he mo	ost frec	quently pr	escrit	oed A					
nmon diagnoses treated with AM were ver respiratory tract infection, intra-abdomin	al to	he mo ogethe	ost frec er with	quently pr other β-l	escrik lactan	oed A ns th	ey su	mme	ed up	o for n	
nmon diagnoses treated with AM were	al to	he mo ogethe	ost frec er with	quently pr	escrik lactan	oed A ns th	ey su	mme	ed up	o for n	

patients (N)



Pediatric wards

imicrobial prevalence (%) Total = Overall antimi T-AMW = Transplant (BI Tab Top 3 most comr

**Adult wards** 

SST SEPSIS FN GI

Top ten diagnoses in our hospital. Count on the number of diagnoses treated with at least one antimicrobal This implies that a patient with multiple diagnoses can be counted several times. Prophylactic prescribing and patients admitted on NICU or NMW are excluded from this analysis.

CNS=infection of central nervous system; Eye=eye infections; ENT=ear, nose and throat infections; URTI=upper respiratory tract infection; Bron=bronchitis; Pneu=Pneumonia or lower respiratory tract infection; TB=tuberculosis; CVS=cardiovascular system infections; Gl=gastro-intestinal infections; IA=intra-abdominal sepsis; SST=skin and soft tissue; BJ=bone/joint infections; Cys=lower urinary tract infection; Py=U0=pyrexia of unknown origin; PUO-HO=fever syndrome in non-neutropaenic haematology-oncology patient; FN=fever neutropaenic patient; LYMPH=infection lymphatics

Table 3: Ten most common diagnoses treated with AM in UMCL



## **METHODS**

## **CONCLUSION**

n insight into antimicrobial prescribing at UMC Ljubljana. According to the results we came isions:

- ogy and intensive care units should be further analyzed and improved.
- uld be done to lower the use of fluoroquinolones.
- ntrol and antimicrobial stewardship are needed to lower the prevalence of HAI.
- f prescribed AM should be documented more frequently.
- e the duration of surgical prophylaxis.