Antimic on sumption with

The Global Point Prevalence Survey of Antimicrobial Consumption and Resistance (Global-PPS): Results on outpatient antimicrobial prescribing in Calabar, Nigeria



ECCMID 2024 (Poster 2676)

Ubong Udoh^{1,5}, Akaninyene Otu², Ann Versporten³, Ines Pauwels³, Annelies Boven³, Erika Vlieghe^{3,4}, Bode Abraka⁵, Victory Ikhalo⁵ ¹University of Calabar, Calabar, Nigeria, ²Hull University Teaching Hospitals NHS Trust, Hull, United Kingdom, ³University of Antwerp, Antwerp, Belgium, ⁴University Hospital Antwerp, Antwerp, Belgium, ⁵University of Calabar Teaching Hospital, Calabar, Nigeria

Contact : ubongudoh@unical.edu.ng

BACKGROUND & OBJECTIVES

The Outpatient Global Point Prevalence Survey was a recently developed standardized tool to measure antimicrobial consumption to inform antimicrobial stewardship interventions in the clinic. Global-PPS was conducted in October 2023, at the **University of Calabar Teaching Hospital**, Nigeria. The survey included all outpatients receiving an antimicrobial on the day of PPS. Data collected included details on antimicrobial agents, reasons for treatment, and a set of quality indicators. A web-based application was used for data entry and validation (www.global-pps.com). CwPAMS-2/THET provided funding for this study.

METHODS



Overall **antimicrobial prevalence was 21%**, varying between departments (**Table 1**). "Watch" antibiotic usage was high (55%). Most common antibiotics were levofloxacin (10.8%), metronidazole (8.1%) and amoxicillin/clavulanate (8.1%) (**Figure 1**).

Figure 1: Proportion of antibiotic types among AWaRe categories



The most common indications for antimicrobial use were >1-day surgical prophylaxis (18.9%), community-acquired infection (16.2%) and single-dose surgical prophylaxis (10.8%). The most common diagnosis for antimicrobial use was Malaria and prophylaxis for the gastro-intestinal tract (**Figure 2**).

Drug, dosing and duration guideline compliance was unknown for most prescriptions (76.3%). Antimicrobials were not based on biomarker/POCT/RDT results.

CONCLUSION

High variation of antimicrobial use between clinics, age groups, sexes and clinical symptoms was found. Most antimicrobials were prescribed for surgical prophylaxis and community-acquired infections. While empiric prescribing guidelines exist, also biomarkers and POCT were not routinely used to guide antimicrobial treatment or prophylaxis, "Watch" antibiotics use was common.

Table 1: Antimicrobial prevalence among outpatient	
departments, age groups and sex	
	Antimicrobial prevalence among
	outpatients(%)
Outpatient hospital departments	
Dermatology	2 (50.0%)
General Practioner Practise	6 (12.2%)
Gynaecology	8 (30.8%)
Haematology-Oncology	0 (0.0%)
HIV-Tuberculosis	3 (100.0%)
Nephrology	4 (22.2%)
Surgical Mixed	3 (16.7%)
Age groups (years)	Y Y
20-29	10 (8.1%)
30-39	9 (7.3%)
40-49	10 (8.1%)
50-59	3 (2.4%)
60-69	5 (4.0%)
Sex	
Female	21 (26.2%)
Male	4 (9.3%)
Unknown	1 (100.0%)
Antimicrobial types	
Antibiotics for systemic use	20 (54.1%)
Antimalarials	10 (27%)
Antivirals	7 (18.9%)
	departments, age groups and s Outpatient hospital departments Dermatology General Practioner Practise Gynaecology Haematology-Oncology HIV-Tuberculosis Nephrology Surgical Mixed Age groups (years) 20-29 30-39 40-49 50-59 60-69 Sex Female Male Unknown Antimicrobial types Antibiotics for systemic use Antimalarials



