

Global Point Prevalence Survey (PPS) – Year 2019 (GLOBAL-PPS)

Note: The aim of this GLOBAL-PPS is to find out what the physicians intend treating and not to base the diagnosis on any case definitions. To obtain this information the investigator should be looking at all [medical, nursing and drug prescription chart] patient records. If the information available is not sufficient surveyor/s may request additional information from nurses, pharmacists or doctors caring for the patient. Searching for information from other sources such a laboratory computer systems, phoning laboratories *etc.*, is not required. <u>At no point shall there be any discussion about the appropriateness (or lack thereof) of the prescribed medication. The ward staff MUST NOT feel evaluated at the individual level.</u>

Include in the survey: All patients who are receiving anti-infective agents (ATC codes: J01, J02, A07AA, P01AB, D01BA, J04A, J05 and P01B) and who are in the hospital at 8:00 am on the day of survey should be included in the study.

Prophylaxis: Include any patient who received one or more doses of anti-infective agents intended as surgical prophylaxis in the 24 h prior to 8:00 am on the day of the survey. Checking for any doses administered on the previous day/s will allow the surveyor to code the surgical prophylaxis as either 1 dose, 1 day (multiple doses within 24 hours) or >24hours.

Diagnosis Group: This information is obtained from Appendix II. The conditions are grouped by anatomical site and whether the indication (treatment intent) is prophylaxis or therapeutic.

Global Point Prevalence Survey (2019 GLOBAL-PPS)

Ward Form

Please fill in one form for each ward included in the PPS

	1				
Date of survey					
(dd/mm/year)	/	/			
Person completing form (Auditor code)					
Hospital name					
Ward Name					
Department Type:	Paediatric departm	ents:	Adult departments:		
Place a tick against the type of department		tology-Oncology PMW) ht (BMT/Solid) PMW) surgical Ward) htensive Care Unit) <u>nts:</u> edical Ward)	 AMW (Adult Medical Ward) HO-AMW (Haematology-Oncology AMW) T-AMW (Transplant (BMT/solid) AMW) P-AMW (Pneumology AMW) ASW (Adult Surgical Ward) AICU ([Adult] Intensive Care Unit) 		
Mixed Department	🗆 Yes 🗆 No				
Activity: Tick as appropriate.					
 In case of mixed departments, tick all the encountered activities/specialities 	Medicine	□ Surgery	Intensive Care		
 Total number of admitted patients on the ward present at 8.00 am on day of PPS split up by activity. ➢ For mixed departments, fill the total number of patients corresponding to each of the encountered activities. 					
 Total number of beds on the ward present at 8:00 am on day of PPS split up by activity. ➢ For mixed departments fill in the total number of beds corresponding to each of the encountered activities. 					

Include only inpatients "admitted before 08:00 hours" on the day of the PPS !



GLOBAL-PPS PATIENT Form (Please fill in one form per patient on antimicrobial treatment/prophylaxis)

Ward Name/code	Activity ¹	Patie	Patient Identifier ²		Survey Number ³		Patient Age ⁴					Weight	Gender
	(M, S, IC)						Years Mon (if ≥ 2 years) (1-23 n			ths Days		In kg, 2 decimals	M, F, U
Antimicrobial Name	5		1.		2.		3.		4.			5.	
Single Unit Dose ⁶	Unit (g, mg, or IL	J) ⁷											
Doses/ day ⁸	Route (P, O, R,	I) 9											
Diagnosis ¹⁰ (see app	endix II)									·			
Type of indication ¹¹	(see appendix III)												
Reason in Notes (Yes	s or No) ¹²												
Guideline Compliand	e (Y, N, NA, NI) ¹³												
Is a stop/review date	documented?(Ye	es/No)											
Treatment (E: Empiri	cal; T: Targeted)	· · ·											
The next section is t	o be filled in only	if the	treatment choic	e is base	d on microbiology	data (1	Freatment=tar	geted) A	ND the	organism is a	one o	f the follow	ing
MRSA (Yes or No) 14	•					-							
MRCoNS (Yes or No) ¹⁵													
VRE (Yes or No) 16													
ESBL-producing Enter (Yes or No) ¹⁷													
3rd generation cephalo Enterobacteriaceae no ESBL status unknown	n-ESBL producing	or											
Carbapenem-resistant or No) ¹⁸													
ESBL-producing non fe bacilli (Yes or No) ¹⁹	-												
Carbapenem-resistant negative bacilli (Yes or	No) ²⁰	n-											
Targeted treatment aga organisms (Yes or No) ²													
Treatment based on bio	omarker data (Yes o	or No)	0 Yes - 0	No									
If yes, which biomarl	ker (CRP, PCT or ot	her) ²²		flu	be of biological d sample bod/urine/other)			Most	relevan Value	t value of bion e		er on the day o Init (in μg/L,	



- ¹ <u>Activity:</u> M=medicine (including Psychiatric cases, *etc.*), S=surgery (including orthopaedics, obstetrics and gynaecology, *etc.*), IC=intensive care
- ² <u>Patient Identifier</u>: A unique patient identifier that allows linkage to patient records at local level for more detailed audit. This unique identifier will not be included in the online database.
- ³ <u>Survey Number</u>: A unique non-identifiable number given by WebPPS for each patient entered in the database. Leave blank but note down the number after the patient data has been recorded in the online database. The number is displayed once (and only) after the patient data has been recorded in the online database.
- ⁴ <u>Patient Age</u>: If the patient is 2 years old or older, specify only the number of years, if between 1 and 23 months specify only the number of months, if less than 1 month specify the number of days.
- ⁵ <u>Antimicrobial Name</u>: Insert generic name.
- ⁶ <u>Single Unit Dose</u>: Numeric value for dose per administration (in grams, milligrams or IU).
- $\frac{7}{\text{Unit}}$: The unit for the dose (g, mg or IU)
- ⁸ $\overline{\text{Doses/day}}$ If necessary provide fractions of doses: (e.g., every 16h = 1.5 doses per day, every 36h = 0.67 doses per day, every 48h = 0.5 doses per day)
- ⁹ <u>Route</u>: Routes of administration are: Parenteral (P), Oral (O), Rectal (R), Inhalation (I).
- ¹⁰ See <u>diagnoses</u> groups list (Appendix II)
- ¹¹ See <u>Indication</u> codes (Appendix III)
- ¹² <u>Reason in Notes</u>: A diagnosis / indication for treatment is recorded in the patient's documentation (treatment chart, notes, etc.) at the start of antibiotic treatment (Yes or No)
- ¹³ <u>Guideline Compliance</u>: Refers to antibiotic choice (not route, dose, duration etc) in compliance with local guidelines (Y: Yes; N: No; NA: Not assessable because no local guidelines for the specific indication; NI: no information because indication is unknown)
- ¹⁴ Methicillin-resistant Staphylococcus aureus (MRSA)
- ¹⁵ Methicillin-resistant coagulase negative staphylococci (MRCoNS)
- ¹⁶ Vancomycin-resistant enterococci (VRE)
- ¹⁷ Bacteria, producing extended-spectrum beta-lactamases (ESBL)
- ¹⁸ Carbapenem-resistant Enterobacteriaceae (CRE) enteric bacteria resistant to imipenem, meropenem or other carbapenems
- ¹⁹ Nonfermenters: Pseudomonas aeruginosa, Acinetobacter baumannii, Burkholderia spp., Stenotrophomonas maltophilia
- ²⁰ Carbapenem-resistant Nonfermenters (CR-NF) nonfermenters resistant to imipenem, meropenem or other carbapenems
- ²¹ Multi-drug resistant (MDR) pathogens, others than the listed above.
- ²² If treatment based on biomarker, specify which one: CRP (C-reactive protein), PCT (Procalcitonin) or Other (=lab-based culture and sensitivity result from a relevant biological sample)
- ²³ The unit for the biomarker CRP or PCT value expressed in mg/l, μg/L, ng/L, ng/dL, ng/dL, ng/mL, μg/mL, nmol/L. For a conversion calculator see: <u>http://unitslab.com/node/67</u> (CRP) and <u>http://unitslab.com/node/103</u> (procalcitonin).



Appendix I: Combination anti-infective agents

Combinations of an antibiotic and an enzyme inhibitor:

Ampicillin and enzyme inhibitor: report only ampicillin dose (J01CR01) Amoxicillin and enzyme inhibitor: report only amoxicillin dose (J01CR02) Ticarcillin and enzyme inhibitor: report only ticarcillin dose (J01CR03) Piperacillin and enzyme inhibitor: report only piperacillin dose (J01CR05) Imipenem and enzyme inhibitor: report only imipenem dose (J01DH51) Panipenem and betamipron: report only panipenem (J01DH55)

Example:

Augmentin® 1.2g IV \rightarrow 1g (amoxicillin) + 200mg (clavulanic acid), **report only 1 g** Piperacillin® 4.5g IV \rightarrow 4g (piperacillin) + 500mg (tazobactam), **report only 4 g**

Other combinations of multiple antimicrobial substances:

J01EE01 Sulfamethoxazole and Trimethoprim: report the total amount of sulfamethoxazole and trimethoprim

Example:

Co-trimoxazole 960mg: (sulfamethoxazole. 800mg + trimethoprim 160mg), report 960mg

Further information on agents included for the Global-PPS is available in the antimicrobial list. Only antimicrobial substance name need to be written down, NOT the ATC codes! (excel file - available at website under documents: Global-PPS_antimicrobial_list.xlsx) http://www.global-pps.com/



Appendix II - Diagnostic codes (what the clinician aims at treating)

Site	Codes	Examples					
CNS	Proph CNS	Prophylaxis for CNS (neurosurgery, meningococcal)					
	CNS	Infections of the Central Nervous System					
EYE	Proph EYE	Prophylaxis for Eye operations					
	EYE	Therapy for Eye infections e.g., Endophthalmitis					
ENT	Proph ENT	Prophylaxis for Ear, Nose, Throat (Surgical or Medical prophylaxis=SP/MP)					
	ENT	Therapy for Ear, Nose, Throat infections including mouth, sinuses, larynx					
RESP	Proph RESP	Pulmonary surgery, prophylaxis for Resp iratory pathogens e.g. for aspergillosis					
	LUNG	Lung abscess including aspergilloma					
	URTI	Upper Respiratory Tract viral Infections including influenza but not ENT					
	Bron	Acute Bronchitis or exacerbations of chronic bronchitis					
	Pneu	Pneumonia or LRTI (lower respiratory tract infections)					
	ТВ	Pulmonary TB (Tuberculosis)					
CVS	Proph CVS	Cardiac or Vascular Surgery, endocarditis prophylaxis					
	CVS	CardioVascular System infections: endocarditis, endovascular prosthesis or device e.g					
		pacemaker, vascular graft					
GI	Proph GI	Surgery of the Gastro-Intestinal tract, liver or biliary tree, GI prophylaxis in neutropaenic					
		patients or hepatic failure					
	GI	GI infections (salmonellosis, Campylobacter, parasitic, C.difficile, etc.)					
	IA	Intra-Abdominal sepsis including hepatobiliary, intra-abdominal abscess etc.					
SSTBJ	Proph BJ	Prophylaxis for SST, for plastic or orthopaedic surgery (Bone or Joint)					
	SST	Skin and Soft Tissue: Cellulitis, wound including surgical site infection, deep soft tissue					
		not involving bone e.g., infected pressure or diabetic ulcer, abscess					
	BJ	Bone/Joint Infections: Septic arthritis (including prosthetic joint), osteomyelitis					
UTI	Proph UTI	Prophylaxis for urological surgery (SP) or recurrent Urinary Tract Infection (MP)					
	Cys	Lower UTI					
	Руе	Upper UTI including catheter related urinary tract infection, pyelonephritis					
GUOB	Proph OBGY	Prophylaxis for OB stetric or GY naecological surgery					
	OBGY	Obstetric/Gynaecological infections, Sexual Transmitted Diseases (STD) in women					
	GUM	Genito-Urinary Males + Prostatitis, epididymo-orchitis, STD in men					
No	BAC	Bacteraemia with no clear anatomic site and no shock					
defined	SEPSIS	Sepsis, sepsis syndrome or septic shock with no clear anatomic site					
site	Malaria						
(NDS)	HIV	Human immunodeficiency virus					
	PUO	Pyrexia of Unknown Origin - Fever syndrome with no identified source or site of infection					
	PUO-HO	Fever syndrome in the non-neutropaenic Haematology–Oncolgy patient with no					
		identified source of pathogen					
	FN	Fever in the Neutropenic patient					
	LYMPH	Infection of the lymph atics as the primary source of infection e.g.suppurative					
	011.55	lymphadenitis					
	Other	Antibiotic prescribed with documentation for which there is no above diagnosis group					
	MP-GEN	Drug is used as M edical P rophylaxis in gen eral, without targeting a specific site, e.g.					
		antifungal prophylaxis during immunosuppression					
		Completely Unk nown Indication					
Normat	PROK	Antimicrobial (e.g. erythromycin) prescribed for Prok inetic use					
Neonat	MP-MAT	Drug is used as Medical Prophylaxis for MATERNAL risk factors e.g. maternal prolonged					
al		rupture of membranes					
	NEO-MP	Drug is used as M edical P rophylaxis for NE WBORN risk factors e.g. VLBW (Very Low					
		Birth Weight) and IUGR (Intrauterine Growth Restriction)					



APPENDIX III - Type of Indication

	urgical site infection (w						
HAI1 Post-operative surgical site infection (within: 30 days of surgery OR; 1 year after implant surgery)							
HAI2 Intervention related infections including CR-BSI, VAP and C-UTI							
HAI3 <i>C. difficile</i> associated diarrhoea (CDAD) (>48 h post- admission or <30 days after discharge from previous admission episode.							
HAI4 Other hospital acquired infection (includes HAP, etc)							
HAI5 Infection present on admission from another hospital (pawith infection from another hospital)							
<u>HAI6</u> Infection present on admission from long-term care facility (LTCF) or Nursing Home*.							
SP1Single doseSP2one daySP3>1 day							
For surgical patients, administration of prophylactic antimicrobials should be checked in the previous 24 hours in order to encode the duration of prophylaxis as either one dose, one day (= multiple doses given within 24 hours) or >1 day. See more explanation in protocol page 6 and 7 !							
For example long term use to prevent UTI's or use of antifungals in patients undergoing chemotherapy or penicillin in asplenic patients <i>etc</i> .							
For example erythromycin as a motility agent (motilin agonist).							
Completely unknown indication							
	UTI <u>HAI3</u> <i>C. difficile</i> assoce admission or <30 days episode. <u>HAI4</u> Other hospital act <u>HAI5</u> Infection presenvith infection from and <u>HAI6</u> Infection presenvith infection presenvith infection from and <u>HAI6</u> Infection presenvith or Nursing Hor <u>SP1</u> Single dose ministration of prophylate order to encode the due order to encode th	UTI HAI3 C. difficile associated diarrhoea (CDAD admission or <30 days after discharge from prepisode.					

Select 1 possibility for each reported antimicrobial

CR-BSI= Catheter related-Blood Stream Infection C-UTI= Catheter related-Urinary Tract Infection HAP=Hospital Acquired Pneumonia VAP=Ventilator Associated Pneumonia

* Long-term care facilities represent a heterogeneous group of healthcare facilities, with care ranging from social to medical care. These are places of collective living where care and accommodation is provided as a package by a public-agency, non-profit or private company (e.g. nursing homes, residential homes).

