Ward Form (Mandatory : Fill in one form for each ward included in the PPS) Include only <u>in</u>patients "admitted before and present at 08:00 hours" on the day of the PPS!

Date of survey (dd/mm/year)	/	Person o	completing form (Audito	or code) :			
Hospital name:			War	d Name :			
	Adı	ult wards			Paediatric w	ards	
Ward Type:	☐ AMW (General or mixed Adult Medical Ward)	☐ ASW (General or mixed Adult Surgical Ward)			☐ PMW (Paediatric Medical Ward)		
Tick the most appropriate	☐ HO-AMW (Haematology-Oncology)	☐ DIG-ASW (Digesti	ve tract surgery)		☐ HO-PMW (Haematology-Oncology)		
type of department/ward	☐ T-AMW (Transplant (BMT/solid))	☐ ORT-ASW (Orthor	paedics-Trauma surg.)		☐ T-PMW (Transplant (BMT/Solid))		
type of department, ward	☐ P-AMW (Pneumology)	☐ URO-ASW (Urolog	gical surg.)		□ PSW (Paediatric Surgical Ward)		
	☐ CAR-AMW (Cardiology)	☐ CV-ASW (Cardio-v	ascular surg.)		☐ PICU (Paed	iatric Intensive Care Unit)	
	□ NEU-AMW (Neurology)	□ NEU-ASW (Neuro	surgery)		□ ID-PMW (Ir	nfectious Disease PMW)	
	☐ REN-AMW (Nephrology)	□ ONCO-ASW (Onco	ology-cancer surg.)				
	☐ ID-AMW (Infectious Disease)	☐ PLAS-ASW (Plastic	c, reconstructive surg.)		Neonatal wa	<u>rds:</u>	
	□ DB-AMW (Dermatology-burn wards)	☐ ENT-ASW (Ear-no:	se-throat surg.)		□ NMW (Ned	natal Medical Ward)	
	☐ PSY-AMW (Psychiatry)				□ NICU (Neor	natal Intensive Care Unit)	
	☐ REH-AMW (Rehabilitation)	☐ AICU (General or	mixed Adult Intensive C a	re Unit)			
	☐ GER-AMW (Geriatrics)	☐ MED-AICU (Medic	cal AICU)				
	☐ LTC-AMW (Long-Term care)	☐ SUR-AICU (Surgica	al AICU)				
	☐ OBG-AMW (gynaecology-obstetrics)	☐ CAR-AICU (Cardia	c AICU)				
Mixed Ward	☐ Yes ☐ No						
	ase of mixed wards, tick all encountered activities/spec		☐ Medicine	☐ Surge	ery	☐ Intensive Care	
· · · · · · · · · · · · · · · · · · ·	ents (=all patients whether they receive an antimicrob						
1	f PPS. For mixed departments, fill the total number of	patients					
corresponding to each of the enco							
	d present at 8:00 am on day of PPS split up by activity.						
	per of beds corresponding to each of the encountered						
The	e next section is to be filled in 'only' if you are pa	articipating in the He	althcare-Associated Inf	ections (H	AI) module	1	
Total number of	Indwelling	Urinary Catheter (UC)					
"admitted" inpatients	At least one peripheral va	ascular catheter (PVC)					
with one of the following	Central vascular catheter, no implanta	ble venous port (CVC)					
"inserted" invasive devices	Non-invasive pos. & neg. mechanical ventilation (0	•					
at 8:00 am on day of PPS	Invasive respiratory endotra						
	1	ubes and drains $(T/D)^2$					
	- Inserted to	abes and drains (1/D)	1	1			

² Inserted tubes and drains: include patients with nephrostomy tubes, intra-abdominal tubes and drains, cerebrospinal fluid shunts etc.



¹ Include tracheostomy

GLOBAL-PPS PATIENT Form (Mandatory: Fill in one form per patient with an ongoing antimicrobial at 8am on the day of the PPS)

	1					Pa	atient Age	4	Curi	ront	Neonate or	ily (optional)	
Ward Name/code	Activity ¹ (M, S, IC)	Patient Ide	entifier ²	Survey	Number ³	Years (if ≥ 2 years)	Months (1-23 month)	Days (if <1 month)	Weig	ght*	Gestatio- nal age*	Birth weight* (kg)	Sex M, F, U
Treatment based on b	iomarker data	a or WBC	Yes –	0 No			Culture(s)) sent to t	he lab to	docum	ent infection	* (Tick if yes)	
If yes, which:	b	Type iological			nt value close	Bloc	d 🗆	Cerebros	pinal flui	d	☐ BAL (protected resp.	specimen)
CRP, PCT, other	flu	id sample		Value	Unit ⁶	Urin	e 🗆	Wound (s	surgery/bi	iopsy)	☐ Sputu	m/bronchial as	pirate
or WBC ⁵	(Bl	lood/urine/ other)					•				Other	type of specim	en
·		<u> </u>											
Antimicrobial Name	7		1.		2.		3.			4.		5.	
Start date of the anti	imicrobial* (dd/mm/yyyy)											
Single Unit Dose 8	Unit (g, mg	g, IU, MU) ⁹											
Doses/ day 10	Route (P,	O, R, I) 11											
Diagnosis 12 (see app	endix II)												
Type of indication ¹³	<u> </u>	lix III)											
Reason in Notes (Ye													
Guideline Compliane	ce (Y, N, NA	, NI) ¹⁵											
Is a stop/review date	documente	ed?(Yes/No)											
Treatment (E: Empir													
The following resista			in only if tl	he treatment	choice is bas	sed on micro	obiology d	lata (Trea	tment=T) availab	le on the da	y of the PPS	
Maximum 3 microorga Maximum 1 Resistance	• •	-	МО	R type	** МО	R type	* MC	D R	type ^{**}	МО	R type	* MO	R type**
Insert codes (see Appe	ndix IV, page 9	9) MO 1											
		MO 2											
		мо з											

Resistance type

**- choose between: MRSA¹⁷; MRCoNS¹⁸; PNSP¹⁹; MLS²⁰; VRE²¹; ESBL (ESBL-producing Enterobacterales²²); 3GCREB (3rd generation cephalosporin resistant Enterobacterales); CRE (Carbapenem-resistant Enterobacterales²³); ESBL-NF (ESBL-producing non fermenter Gram-negative bacilli²⁴); CR-NF (Carbapenem-resistant non fermenter Gram-negative bacilli²⁵); other MDRO²⁶; Azoles²⁷. Encode Microorganism also if resistance type is unknown.

Note: * Current weight, Gestational age (in number of weeks), Birth weight, Start date of the antimicrobial and Cultures sent to the lab are optional variables.



- Activity: M=medicine (including Psychiatric cases, etc.), S=surgery (including orthopaedics, obstetrics and gynaecology, etc.), IC=intensive care
- Patient Identifier: 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 Patient Age: 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 If treatment based on biomarker, specify which one: **CRP** (C-reactive protein), **PCT** (Procalcitonin), **Other** lab-based biomarker other than CRP, PCT; or **WBC** (white blood cell count).
- ⁶ The unit for the biomarker CRP or PCT value expressed in mg/L, μg/L, ng/L, mg/dL, ng/dL, ng/mL, μg/mL, nmol/L. In thousand per microliter (μL) for WBC count (normal number of WBCs in the blood is 4,500 to 11,000 WBCs per microliter). For a conversion calculator see: http://unitslab.com/node/67 (CRP) and http://unitslab.com/node/103 (procalcitonin).
- ⁷ Antimicrobial Name: Insert generic name.
- 8 Single Unit Dose: Numeric value for dose per administration (in grams, milligrams, IU or MU).
- Unit: The unit for the dose (g, mg, IU or MU)
- $\frac{10}{\text{Doses/day}}$ 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)
- Route: Routes of administration are: Parenteral (P), Oral (O), Rectal (R), Inhalation (I).
- ¹² See <u>diagnoses</u> groups list (Appendix II)
- ¹³ See <u>Indication</u> codes (Appendix III)
- Reason in Notes: A diagnosis / indication for treatment is recorded in the patient's documentation (treatment chart, notes, etc.) at the start of antibiotic course (Yes or No)
- ¹⁵ <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 of absence of local guidelines for the specific indication; NI: No Information because diagnosis/indication is unknown)
- Treatment: **Report "E"** 1) when the antibiotic is being used as per a local guideline, treatment by which experience has proved to be beneficial; 2) when a culture or microbiological examination is not done; 3) when a microbiological examination is done, BUT not yet available on the day of the PPS; or the result was not assessable. **Report "T"** if based upon microbiological result; Report also "T" if the micro-organism yielded susceptible results.
- ¹⁷ Methicillin-resistant *Staphylococcus aureus* (MRSA)
- ¹⁸ Methicillin-resistant coagulase negative staphylococci (MRCoNS)
- ¹⁹ Penicillin-non susceptible *Streptococcus pneumoniae* (PNSP)
- Macrolide-lincosamide-streptogramin resistance in Streptococcus isolates (MLS)
- ²¹ Vancomycin-resistant enterococci (VRE)
- ²² Bacteria, producing extended-spectrum beta-lactamases (ESBL)
- ²³ Carbapenem-resistant *Enterobacterales* (CRE) enteric bacteria resistant to imipenem, meropenem or other carbapenems
- ESBL Non fermenters (ESBL-NF): Pseudomonas aeruginosa, Acinetobacter baumannii, Burkholderia spp., Stenotrophomonas maltophilia multidrug resistant
- ²⁵ Carbapenem-resistant Nonfermenters (CR-NF) nonfermenters resistant to imipenem, meropenem or other carbapenems
- ²⁶ Multi-drug resistant (MDR) pathogens, others than the listed above
- Azoles: if the medicinal product chosen is intended to treat infections caused by azole-resistant fungi and yeasts (e.g. *Candida spp.*, *Aspergillus spp.*)

GLOBAL-PPS PATIENT Form – additional variables for HAI at patient level (optional)

(Fill in one form per patient with an ongoing antimicrobial at 8am on the day of the PPS - more info on definitions in protocol, page 20)

							P	atient Age	4	0		Neona	te only	optional)	
Ward Name/code	Activity ¹ (M, S, IC)	Patient Ident	tifier ²	Surv	ey Num	ber ³	Years (if ≥ 2 years)	Months (1-23 month)	Days (if <1 month)	Wei	rent ght* kg	Gestat nal ag		Birth weight* (kg)	Sex M, F, U
Date of admission in (dd/mm/yyyy) (optio	•						Surg hosp	ical proced oital	ure durin	g curren	t admi:	ssion in	☐ Yes	□ No	□ UNK
Previous hospitalizati < 3 months (optional)	ion	☐ Yes, ICU	☐ Yes,	other	No	☐ UNK		ious antibi tment >2 w			nth or	antibiotic	☐ Yes	□ No	□ UNK
"Inserted" invasive devic	e present at 8	3 am on the day	of the PPS	S				Date 1 st	insertion/	start		McCabe	□ Nor	-fatal disea	se
Indwelling Urinary Cathet	er (UC)				Yes	☐ No	☐ UN	IK —	<i></i>	_		score	Ulti	mately fatal	disease
Peripheral Vascular Cathe	eter (PVC)				☐ Yes	☐ No	☐ UN	ık —	<i></i>	-			Rap	idly fatal dis	sease
Central Vascular Catheter	r, no implanta	ble venous port ((CVC)		☐ Yes	☐ No	☐ UN	IK —	//_	=			□ UNF	(/Not availa	ble
Non-invasive pos. & neg.	mechanical ve	entilation (CPAP,	BiPAP, CN	NEP,)	☐ Yes	☐ No	☐ UN	IK —	//_	=					
Invasive respiratory endo	tracheal intub	oation (IRI) ⁱ			☐ Yes	☐ No	☐ UN	ık –	//	-					
Inserted tubes and drains	s (T/D) ⁱⁱ				☐ Yes	☐ No	☐ UN	IK –		-					
Underlying morbidity	Diahete	es mellitus, type 1	1 or 2			Genet	c disorder				Fnd-	stage Liver D	lisease ci	rrhosis	
(multiple choice,		IV (only if last CD		(500/mm ³)			nital heart d	liseases			Traui		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11110313	
maximum 3 choices)	☐ Hemato	ological or solid c	ancer/ Re			Chron	c lung disea	ses includin			Gasti	roenterolog el disorders,		•	natory
	☐ Stem ce	ell or solid organ	transplan	nt		Neutro	penia				Chro	nic neurolog	ical cond	itions ⁱⁱⁱ	
	Chronic	Renal Disease (a	all stages)	1		High d	ose steroids	iv			Othe	r			
	☐ Active t	tuberculosis				☐ Malnu	trition ^v				None	<u>ş</u>	□Unkn	own	

ⁱ Include tracheostomy

ii Inserted tubes and drains: include nephrostomy tubes, intra-abdominal tubes and drains and cerebrospinal fluid shunts.
iii Chronic neurological conditions: include Alzheimer's disease, Parkinson's disease, dystonia, ALS (Lou Gehrig's disease), Huntington's disease, neuromuscular disease, multiple sclerosis and epilepsy etc.

iv Corticotherapy \geq 30 days or recent corticotherapy at high doses (> 5 mg/kg prednisolone > 5 days)

V Malnutrition refers to dietary deficiency which lead to lack of vitamins, minerals and other essential substances. Score illnesses as kwashiorkor, scurvy, delayed growth, serious underweight, etc.

HOSPITAL PROFILE – "Optional data" to be collected at hospital level

Provide, if available, for each indicator the year of reference and the number "at hospital level".

	Year (yyyy)	Number
Hospital size : number (N) beds		
Number of admissions (or discharges)/year		
Number of patient days/year		
Number of consumption of alcohol-based hand rub in litres/year		
Number of "patients" with blood culture test/year		
Number of stool tests for Clostridioides Difficile Infections/year		
Number of FTE* antimicrobial stewardship physicians		
Number of FTE antimicrobial stewardship pharmacists		
Number of FTE Infection prevention control (IPC) doctors		
Number of FTE Infection prevention control (IPC) nurses		
*ETE-Full Time Equivalent units or equivalent employees working full time	a an antimicrahial stay	ardchin acti

^{*}FTE=Full-Time Equivalent units or equivalent employees working full-time on antimicrobial stewardship activities or IPC. E.g. if 3 employees work 20 hours, 30 hours and 10 hours/week=total 60 hours/week and assuming that a full-time employee works 40hours/week, the FTE calculation equals 60hours/40hours; or 1.5 FTE

Indicate for each indicator at hospital level if available 'yes' or 'no'.

·	Yes	If yes: Year of introduction	No
Presence of formally defined AMS* program			
Presence of active AMS group (committee and operational team)			
Presence of formally defined IPC* program			
Presence of active IPC group (committee and operational team)			
Presence of regular IPC (annual, quarterly) feedback to health care workers			
Clinical Infectious Disease (ID) consultation available			
Specialized AMS or ID training available for physicians/pharmacists			
Presence of microbiology lab support on site			
Availability of microbiology lab on weekends/holidays			
Availability of periodic cumulative antimicrobial susceptibility report**			
If yes, is susceptibility report distributed to prescribers?			
Availability of standardized criteria for appropriate IV-PO switch			
Software available for Infection Control and/or AMS			
Presence of bundles or checklists to decrease CAUTI, VAP, CR-BSI, CDIF, SSI°			

^{*}AMS=Antimicrobial Stewardship; IPC=Infection Prevention and Control; ** local epidemiological report

Tick for each indicator if available at hospital level.

Availability of written policy to document the antimicrobial prescription in the medical record	Yes, all wards	Yes, selected wards	☐ Yes, in ICU	□ No
Availability of formal restriction procedure (defined formulary, restrictive list) for certain antimicrobials	Yes, all wards	Yes, selected wards	☐ Yes, in ICU	□ No
Presence formal review of antimicrobial after 48 hours (post-prescription review)	☐ Yes, all wards	Yes, selected wards	☐ Yes, in ICU	□ No
Presence of antimicrobial ward rounds (Review of antimicrobial orders for assigned patients)	Yes, all wards	Yes, selected wards	☐ Yes, in ICU	□ No

[°] CAUTI=Catheter Associated Urinary Tract Infection; VAP=Ventilator Associated Pneumonia; CR-BSI=Catheter-related Blood Stream Infection; CDIF= Clostridioides Difficile Infection; SSI=Surgical Site Infections.

Appendix I: Combination anti-infective agents

Combinations of an antibiotic and a beta-lactamase inhibitor:

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

Example:

Amoxicillin and beta-lactamase inhibitor 1.2g IV → 1g (amoxicillin) + 200mg (clavulanic acid), **report** only 1 g as a dose

Piperacillin and beta-lactamase inhibitor 4.5g IV \rightarrow 4g (piperacillin) + 500mg (tazobactam), **report** only 4 g as a dose

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)

		- 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
	AOM	Acute otitis media
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 Bron chitis or exacerbations of chronic bronchitis
	Pneu	Pneumonia or LRTI (lower respiratory tract infections)
	COVID-19	Coronavirus disease caused by SARS-CoV-2 infection
	ТВ	Pulmonary TB (Tuberculosis)
	CF	Cystic fibrosis
CVS	Proph CVS	Cardiac or Vascular Surgery, endocarditis prophylaxis
	CVS	CardioVascular System infections: endocarditis, endovascular device e.g pacemaker, vascular graft
GI	Proph GI	Gastro-Intestinal tract surgery, liver/biliary tree, GI prophylaxis in neutropenic patients or hepatic failure
	GI	Gastro-Intestinal infections (salmonellosis, Campylobacter, parasitic, etc.)
	IA	Intra-Abdominal sepsis including hepatobiliary, intra-abdominal abscess etc.
	CDIF	Clostridioides difficile infection
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 Urinary Tract Infection (UTI): cystitis
	Pye	Upper UTI including catheter related urinary tract infection, pyelonephritis
	ASB	Asymptomatic bacteriuria
GUOB	Proph OBGY	Prophylaxis for OB stetric or GY naecological surgery (SP: section caesarean, no episiotomy; MP:
	0001	carriage of group B streptococcus)
	OBGY	Obstetric/Gynaecological infections, Sexually Transmitted Diseases (STD) in women
	GUM	Genito-Urinary Males + Prostatitis, epididymo-orchitis, STD in men
No	BAC	Bacteraemia or fungaemia with no clear anatomic site and no shock
defined site	SEPSIS	Sepsis of any origin (eg urosepsis, pulmonary sepsis etc), sepsis syndrome or septic shock with no clear anatomic site. Include fungaemia (candidemia) with septic symptoms
(NDS)	Malaria	dicar anatomic site. Include rangacinia (candidenna) with septic symptoms
(1100)	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-neutropenic H aemato— O nco patient with no identified source of pathogen
	FN	Fever in the Neutropenic patient
	LYMPH	Lymphatics as the primary source of infection eg suppurative lymphadenitis
	Sys-DI	Disseminated infection (viral infections such as measles, CMV)
	Other	Antimicrobial prescribed with documentation but no defined 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
	UNK	Completely Unk nown Indication
	PROK	Antimicrobial (e.g. erythromycin) prescribed for Prok inetic use
Neo-	MP-MAT	Medical Prophylaxis for Maternal risk factors e.g. maternal prolonged rupture membranes
natal	NEO-MP	Drug is used as M edical P rophylaxis for Newborn risk factors e.g. VLBW (Very Low Birth Weight) and IUGR (Intrauterine Growth Restriction)
	CLD	Chronic lung disease: long-term respiratory problems in premature babies (bronchopulmonary dysplasia)
	•	

APPENDIX III - Type of Indication

OAL O		0	and the same and and the same	-!(-1./				
CAI Community acquired infection		Symptoms started ≤ 48 hours from admission to hospital (or present on admission).						
HAI	11	HAI1 Post-operative surgical site infection (within: 30 days of surgery OR;						
Healthcare Associated		90 days after implant surgery) HAI2 Intervention related infections of mixed origin (mix of CVC-BSI, PVC-BSI, VAR, CALITY or related to tube of decimal)						
Infection: Symptoms	Inter- vention	VAP, CAUTI; or related to tubes/drains) HAI2-CVC-BSI (Central Venous Catheter-related Blood Stream Infection)						
start 48 hours	related HAI	HAI2-PVC-BSI (Peripheral	Vascular Catheter-relate	ed Blood Stream Infection)				
after	ПАІ	HAI2-VAP (Ventilator Asso	ciated Pneumonia)					
admission to hospital		HAI2- CAUTI (Catheter As	sociated Urinary Tract In	fection)				
,		HAI3 C. difficile associated days after discharge from p						
		HAI4 Other hospital acquire BSI)	ed infection of mixed or u	ndefined origin (HAP, UTI,				
		HAI4-BSI Blood Stream Inf	fection, not intervention re	elated				
		HAI4-HAP Non-intervention	n related Hospital Acquire	ed Pneumonia (not VAP)				
		HAI4-UTI Urinary Tract Inf	· · · · · · · · · · · · · · · · · · ·					
		<u>HAI5</u> Patient readmitted <48h after stay in another hospital, with infection present on current admission or within 48 hours (patient with infection from another hospital)						
		HAI6 Infection present on admission from long-term care facility (LTCF) or Nursing Home*						
SP Surgical prophylaxis**		SP1 Single dose	SP2 one day	<u>SP3</u> >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 and table in protocol page 8!								
MP Medical prophylaxis								
OTH Other	TH Other For example erythromycin as a motility agent (motilin agonist).							
<u>UNK</u>	C	Completely unknown indication	า					

Select 1 possibility for each reported antimicrobial

^{*}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). **Surgical prophylaxis includes those antibiotics prescribed before and after a surgical intervention (surgery in the operation room). The code SP1, SP2, SP3 goes with a diagnostic code preceded by 'proph' (e.g. 'proph GI')

APPENDIX IV – list of micro-organisms by resistance type

Microorganisms (MO)	Code	Resistance type - 1	Resistance type - 2	Resistance type - 3
Staphylococcus aureus	STAAUR	MRSA		
Staphylococcus epidermidis	STAEPI	MRCoNS		
Staphylococcus haemolyticus	STAHAE	MRCoNS		
Other coagulase-negative staphylococci (CNS)	STAOTH	MRCoNS		
Streptococcus pneumoniae	STRPNE	PNSP	MLS	
Streptococcus spp., other or not specified	STROTH	MLS		
Enterococcus faecalis	ENCFAE	VRE		
Enterococcus faecium	ENCFAI	VRE		
Enterococcus spp. , other or not specified	ENCOTH	VRE		
Neisseria meningitidis	NEIMEN	Other MDRO		
Neisseria gonorrhoeae	NEIGON	Other MDRO		
Listeria monocytogenes	LISMON	Other MDRO		
Citrobacter freundii	CITFRE	ESBL	3GCREB	CRE
Citrobacter spp. , other or not specified	СІТОТН	ESBL	3GCREB	CRE
Enterobacter cloacae	ENBCLO	ESBL	3GCREB	CRE
Enterobacter spp. , other or not specified	ENBOTH	ESBL	3GCREB	CRE
Escherichia coli	ESCCOL	ESBL	3GCREB	CRE
Klebsiella aerogenes	KLEPAE	ESBL	3GCREB	CRE
Klebsiella pneumoniae	KLEPNE	ESBL	3GCREB	CRE
Klebsiella oxytoca	KLEOXY	ESBL	3GCREB	CRE
Klebsiella spp., other or not specified	KLEOTH	ESBL	3GCREB	CRE
Proteus mirabilis	PRTMIR	ESBL		CRE
	PRTVUL	ESBL	3GCREB	CRE
Proteus vulgaris			3GCREB	CRE
Proteus spp., other or not specified	PRTOTH	ESBL	3GCREB	
Serratia marcescens	SERMAR	ESBL	3GCREB	CRE
Serratia spp., other or not specified	SEROTH	ESBL	3GCREB	CRE
Morganella spp.	MOGSPP	ESBL	3GCREB	CRE
Providencia spp.	PRVSPP	ESBL	3GCREB	CRE
Salmonella enteritidis	SALENT	ESBL	3GCREB	
Salmonella typhi or paratyphi	SALTYP	ESBL	3GCREB	
Salmonella typhimurium	SALTYM	ESBL	3GCREB	
Salmonella spp., other or not specified	SALOTH	ESBL	3GCREB	
Shigella spp.	SHISPP	ESBL	3GCREB	
Yersinia spp.	YERSPP	ESBL	3GCREB	
Other Enterobacterales	ETBOTH	ESBL	3GCREB	CRE
Acinetobacter baumannii	ACIBAU	ESBL-NF	CR-NF	
Acinetobacter spp., other or not specified	ACIOTH	ESBL-NF	CR-NF	
Pseudomonas aeruginosa	PSEAER	ESBL-NF	CR-NF	
Stenotrophomonas maltophilia	STEMAL	CR-NF		
Burkholderia cepacia	BURCEP	CR-NF		
Burkholderia pseudomallei	BURPSE	CR-NF		
Burkholderia mallei	BURMAL	CR-NF		
Pseudomonadaceae family , other or not specified	PSEOTH	ESBL-NF	CR-NF	
Campylobacter spp.	CAMSPP	Other MDRO		
Helicobacter pylori	HELPYL	Other MDRO		
Clostridioides difficile	CLODIF	Other MDRO		
Clostridium spp., other or not specified	CLOOTH	Other MDRO		
Other bacteria Mycobacterium, atypical	MYCATY	Other MDRO		
Mycobacterium tuberculosis complex	MYCTUB	Other MDRO		
Other bacteria	OTHER	Other MDRO		
Candida spp.	CANSPP	Azoles		
Aspergillus spp.	ASPSPP	Azoles		
Other fungi	FUNG_	Azoles		