

Patient Safety Directorate







Healthcare-Associated Infections &

Antimicrobial Use in Long-Term Care Facilities

(HALT)

May 2016

Survey Protocol – Version 1.0

(Adapted from the final © ECDC Protocol Version 2.0 – February 2016)



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LIST OF ACRONYMS

АВ	Antibiotic
ADL	Activities of Daily Living
CDI	<i>Clostridium difficile</i> infection
COPD	Chronic Obstructive Pulmonary Disease
СР	, Coordinating Physician
CVC	Central Vascular Catheter
ECDC	European Centre for Disease Prevention and Control
ERCP	Endoscopic Retrograde Cholangio-Pancreatography
FAQ	Frequently-Asked Questions
FBC	Full Blood Count
GP	General Practitioner
HALT	Healthcare-Associated Infections in Long-Term Care Facilities
HCAI	Healthcare-Associated Infection
HPSC	Health Protection Surveillance Centre
HSE	Health Service Executive
ICC	Infection Control Committee
IM	Intramuscular Route
IPC	Infection Prevention & Control
IV	Intravenous Route
LTCF	Long-Term Care Facility
MRSA	Meticillin Resistant Staphylococcus aureus
NA	Microbiology result not yet available or microbiology result is missing
NOEXA	No specimen was sent to microbiology
NONID	Microorganisms isolated from the specimen, not identified and reported mixed growth
OGD	Oesophago-Gastro-Duodenoscopy
PEG	Percutaneous Endoscopic Gastrostomy
PICC	Peripherally Inserted Central Catheter
PO	Oral or Enteral Route
PPE	Personal Protective Equipment
PVC	Peripheral Venous Cannula
RCPI	Royal College of Physicians of Ireland
SC	Subcutaneous Route
STERI	Microorganisms not isolated from specimen or sterile culture
ТВ	Tuberculosis
UTI	Urinary Tract Infection
WCC	White Cell Count
WIV-ISP	Scientific Institute of Public Health, Brussels, Belgium

INTRODUCTION

Thank you for participating in the fourth national point prevalence survey of healthcare-associated infections & antimicrobial use to be carried out by Irish long-term care facilities (LTCF) during May 2016. This study is also known as the HALT survey. Irish LTCFs first participated in a European HALT survey in 2010. In 2011, Ireland repeated a national HALT survey and the third HALT survey in Ireland (second European HALT survey) took place in 2013. From May 2016, the HALT survey will be repeated across Europe. HALT is coordinated by the European Centre for Disease Prevention & Control (ECDC) and the Scientific Institute of Public Health (WIV-ISP), Brussels, Belgium. The HALT survey in Ireland is coordinated by the Health Protection Surveillance Centre (HPSC) and is overseen by a multi-disciplinary steering group convened in January 2016, under the auspices of the Royal College of Physicians of Ireland (RCPI) Clinical Advisory Group on Healthcare-Associated Infections (HCAI) & Antimicrobial Resistance **(Appendix A)**. Representatives from each participating LTCF are required to attend one of a series of regional HALT training days, scheduled to take place across Ireland before the study takes place in May 2016.

ADDITIONAL INFORMATION

All documentation related to HALT in Ireland may be found on the HPSC website at the following link:

http://www.hpsc.ie/hpsc/A-

Z/MicrobiologyAntimicrobialResistance/InfectionControlandHAI/Surveillance/HCAIinlongtermcarefacilities/

- 1. Results of previous HALT surveys: 2010, 2011 & 2013
- 2. HALT 2016 Protocol
- 3. HALT 2016 Data collection forms/questionnaires
- 4. HALT 2016 Resident & staff information leaflets
- 5. HALT 2016 Data entry software
- 6. HALT 2016 Frequently-Asked Questions (FAQ)
- 7. HALT 2016 Training materials

If you need additional information before, during or after the HALT survey, please contact the HPSC via e-mail at: <u>HALT@hpsc.ie</u> or telephone 01-8765300.

1. THE HALT POINT PREVALENCE SURVEY: PLANNING

1.1. When should the HALT survey be carried out?

- The survey should be carried out in your LTCF during May 2016
- The HALT survey is a point prevalence survey: This means that all the data should be collected in a single day on each ward (e.g., all data for Unit A should be collected in the same working day). Completion of the full survey over one day may not be practical for larger LTCFs. Therefore, make a plan to divide the LTCF into separate wards/units and collect the data over two or three consecutive days. It is very important that the data on a particular ward/unit is collected on the same day
- Each facility selects the day(s) to undertake the survey. However, it is important to factor in that the deadline for submitting the results to HPSC is 31st May, and time is required to input results into the software after completing the data collection

1.2 How should we prepare for HALT in our facility?

- Designate a staff member, who will be in charge of the HALT survey locally and act as a nominated contact person for any communications with the national coordinating centre at HPSC
- The HALT contact person for each LTCF should attend one of the HALT training days and be the lead data collector for their LTCF
- If a person (other than the HALT contact person) attends the training day, it is critical that this trained person is the lead data collector for their LTCF. The HALT contact person should plan the date(s) on which the HALT survey will be performed in their LTCF, ensuring that the staff member who has attended the training is present
- Before the HALT survey date(s) in your LTCF, you will need to draw up a list of all of the wards/units in your LTCF and assign a letter code to each ward/unit. For example, St. Patrick's ward may be assigned the letter 'A', St Mary's ward may be assigned the letter 'B' etc. This letter code must stay with the particular ward/unit during HALT data collection
- After the HALT training day, organise a local information session(s) for your colleagues and let them know the planned date(s) for performing the HALT survey in your LTCF. Taking into account the potential extra workload on the date(s) of the HALT survey, it may be useful to involve extra staff on the day and it's really important to make sure that the HALT data collector(s) have the time specifically allocated to collect the data and don't get distracted with other duties on the day

- To help you prepare your colleagues for HALT 2016, all training day MS PowerPoint presentations can be downloaded from the HPSC website for your local use
- Make sure your colleagues and residents are aware that HALT is taking place in your LTCF and that they
 understand what is involved, including the benefits to residents and staff in participating. Print out and
 distribute copies of the resident and staff information leaflets, which are available on the HPSC website
- Make sure you have a printed copy of this HALT 2016 Survey Protocol and sufficient numbers of printed copies of the various HALT questionnaires/data collection forms which you can print from the HPSC website

1.3 Confidentiality & ethical considerations

- <u>Each participating LTCF will be assigned a unique anonymous facility study number by HPSC</u>. If your facility
 has previously participated in a HALT survey, you will retain the same facility study number
- The HALT survey is an anonymous survey and no resident-identifying information will leave your facility
- The ward list is the only survey document which contains resident names (see Section 2.2). The <u>ward list is</u> for local use only. All the completed ward lists for your LTCF should be retained locally by the HALT local contact person, until the national HALT report has been published. Ward lists must **NOT** be sent back to HPSC. The ward list enables the local HALT contact person to:
 - Assign each resident named on the ward list with an <u>anonymous resident study number</u>. This is made up of two parts: The locally-assigned letter code for the ward/unit and the consecutive number of the resident on the ward list. *For example, J. Juliet is a patient in St Patrick's ward. For the HALT survey the local HALT contact person has assigned St. Patrick's ward with the letter code 'A'. Upon completion of the ward list for ward 'A', J Juliet is the fifth consecutive patient on the ward. Therefore, J Juliet's anonymous resident study number is A05*
 - Go back at a later date, if necessary, to link a resident to their anonymous resident study number. For example, if upon return of HALT data from a LTCF, the national HALT coordinator at HPSC notices there is some missing data associated with the anonymous resident study number (A05), the HPSC will then contact the local HALT contact person, who can then go back to the locallyretained completed ward list to identify the resident in question as J Juliet and clarify the missing data
- For each eligible resident meeting the criteria for completion of a resident questionnaire (see Section 1.4), the anonymous resident study number is used. The resident's name is not written on the resident questionnaire and is not provided to HPSC

 In Ireland, the HALT survey is an anonymous resident safety survey, which forms part of a high-level audit cycle and enables participating facilities to review their own performance. HSE has confirmed that <u>ethical</u> <u>approval is not required for a LTCF to participate in the HALT survey</u>

1.4 What information will be collected during the HALT survey?

- All of the HALT 2016 questionnaires/data collection forms should be downloaded, printed off and stapled together locally in advance, from the HALT section of the HPSC website:
 - Institutional Questionnaire One institutional questionnaire to be completed per participating LTCF. Sections A, C, D & E of the institutional questionnaire may be completed ahead of your planned HALT survey date. Sections B & F are completed after all of the other data has been collected in your LTCF. The local HALT coordinator is advised to liaise with their Director of Nursing or General Manager when completing sections A, C, D & E of the institutional questionnaire
 - Ward List <u>One ward list to be completed per ward/unit within your LTCF</u>. The ward list is an important document, for local use only. Completed ward lists will help you to gather the information required for completion of section B of the institutional questionnaire and enables you to assign each resident their anonymous resident study number. Because the ward list contains resident names, it <u>must not</u> leave the LTCF. All data to be returned to HPSC from each participating LTCF is anonymous and no resident-identifying information can be returned. The completed ward lists for your LTCF should be retained locally by the HALT local contact person, until the national HALT report has been published by HPSC
 - Resident Questionnaire <u>One</u> resident questionnaire to be completed for each eligible resident, who on the day of the HALT survey:
 - Is currently prescribed a systemic antimicrobial(s) (either for infection treatment or prevention/prophylaxis) AND/OR
 - Has symptoms and/or signs of an active healthcare-associated infection (HCAI) OR who has recently had symptoms and/or signs of HCAI and continues to receive antimicrobial therapy for that infection
 - There is space on the same resident questionnaire to record information for a resident who is prescribed an antimicrobial AND who has an active HCAI
 - The resident questionnaire contains anonymous information. <u>The resident's name should</u> <u>never be recorded on this form</u>. The resident's anonymous study number should be

recorded on each page of the resident questionnaire. The local HALT contact person can go back to the ward list if they need to link the resident study number back to the resident at a later date (e.g., to clarify a queried infection)

1.5 Which residents should be included in the HALT survey?

1.5.1. Included & excluded residents

A resident should be included in the HALT survey if he or she is:

 living full-time*in the LTCF
 AND present at 08:00AM on the morning of
 the HALT survey date for that ward/unit
 AND Not discharged from the LTCF at the
 time of the survey

*For the purposes of the HALT survey, 'living full-time' simply means that the LTCF is the resident's current place of residence, where overnight accommodation is provided for the resident. The duration of residence/length-of-stay should not be a factor in deciding whether or not the resident lives full-time in the LTCF.

A resident should be excluded from the HALT survey if he or she is:

- Not living full-time in the LTCF
- Living full-time in the LTCF, but not present at 08:00AM on the morning of the HALT survey date for that ward/unit (e.g. absent for holidays or currently admitted overnight to hospital as an inpatient)
- Attending the LTCF day care centre only and not living full-time in the LTCF
- Hospitalised on the HALT survey date for that ward/unit (i.e., admitted overnight to hospital as an inpatient)
- The resident states that he/she does not wish to participate in the HALT survey

Note: residents receiving chronic ambulatory care (i.e., not admitted to hospital overnight as an inpatient on the HALT survey date) on a regular basis (e.g. outpatient haemodialysis, or oncology day ward chemotherapy etc) should <u>NOT</u> be excluded from HALT.

1.5.2 Which residents need a resident questionnaire completed?

Not all eligible residents need a resident questionnaire completed. **A resident questionnaire has to be completed** for each eligible resident who meets the following criteria on the HALT survey date:

Is currently prescribed systemic antimicrobial(s) (either for infection treatment or prophylaxis) **AND/OR**

Having signs or symptoms of an active healthcare-associated infection

A resident questionnaire has to be completed for each eligible resident, who is prescribed a **systemic** antimicrobial on the HALT survey date (i.e., a resident who is living full-time in the LTCF, who is present at 08:00AM on the HALT survey date and who has not been discharged from the LTCF at the time of the survey). Based on the results of previous HALT surveys performed in Ireland in 2010, 2011 and 2013, it is estimated that around 10% of all the eligible residents will need to have a resident questionnaire completed.

Systemic antimicrobial means that the drug is given to the patient via the following routes of administration:

- 1. Oral (PO) or tablet or enteral route
- 2. Intramuscular (IM) route
- 3. Intravenous (IV) route
- 4. Rectal (PR) route
- 5. Inhaled or nebulised (nebs) or aerosolised route
- 6. Subcutaneous route

The following types of systemic antimicrobials should be recorded on the resident questionnaire:

- Antibacterials (i.e. drugs used to treat bacterial infections)
- Antifungals (i.e. drugs used to treat fungal infections)
- Antimycobacterials (i.e. drugs used to treat tuberculosis/TB e.g., rifampicin, isoniazid, pyrazinamide, ethambutol)

The HALT survey is not collecting information on the following drugs:

- Antivirals (i.e., drugs used to treat viral infections, such as oseltamivir/Tamiflu or aciclovir)
- Antiseptics
- Antimicrobials given to the patient via the topical route are NOT classified as systemic antimicrobials (e.g., creams, lotions, ointments) and are not recorded on the resident questionnaire
- A resident who is receiving an antiviral, antiseptic or topical antimicrobial does not require a resident questionnaire to be completed, UNLESS the resident is also prescribed a systemic antimicrobial and/or meets case definition for an active HCAI on the survey date

2.0 THE HALT POINT PREVALENCE SURVEY: QUESTIONNAIRES

2.1 Institutional questionnaire (Appendix B)

- <u>One institutional questionnaire to be completed per participating LTCF</u>. The questionnaire is five pages long and is divided into six sections. Sections A, C, D & E of the institutional questionnaire may be completed <u>ahead of</u> your planned HALT survey date. Sections B & F are completed <u>after</u> all of the other data has been collected in your LTCF
- The local HALT coordinator is advised to liaise with their Director of Nursing or General Manager when completing sections A, C, D & E of the institutional questionnaire

2.1.1 Section A – General information

A – GENERAL INFORMATION		
DATE OF THE SURVEY IN YOUR FACILITY	ــــا ـــــا 2016	
FACILITY STUDY NUMBER (allotted by your national HALT-3 coordina	tor)	
OWNERSHIP OF THE FACILITY	□ For profit □ Not for profit	
QUALIFIED NURSING CARE AVAILABLE 24/24h IN THE FACILITY	□ Yes □ No	
IN THE FACILITY:		
Total number of FTE REGISTERED NURSES	FTE registered nurses	
Total number of FTE NURSING ASSISTANTS	FTE nursing assistants	
Total number of RESIDENT ROOMS	Rooms	
Total number of SINGLE OCCUPANCY RESIDENT ROOMS	Single occupancy rooms	
Total number of SINGLE OCCUPANCY RESIDENT ROOMS WITH INDIVIDUAL TOILET AND WASHING FACILITIES	Rooms with individual toilet and washing facilities	

Section A – General Information This section may be completed abead of the HALT survey date for your LTCE		
Questionnaire Item	Explanation	
Date of the survey in your facility	Start date of the HALT survey data collection in your LTCF	
Facility study number	A unique anonymous facility study number which will be given to you by HPSC. If your facility has previously participated in a HALT survey, you will retain the same facility study number	
Ownership of the facility	 will retain the same facility study number Tick the box which indicates the most appropriate option for ownership of your facility: Public = HSE-owned For profit = Privately-owned Not for profit = Owned by charitable or voluntary organisation 	

Qualified nursing care available	Tick appropriate box (yes or no) to indicate whether or not your LTCF
24/24h in the facility	always has qualified nurses available on-site
Total number of FTE registered nurses	Total number of full-time equivalent (FTE) or whole-time equivalent
	(WTE) registered nurses working in the LTCF
	Includes all registered nursing staff headcount, regardless of whether
	they are permanent, temporary or agency posts. Do not breakdown the
	proportion of each employee's clinical versus non-clinical/managerial
	commitment
	Excludes student nurses who are not yet registered by NMBI
Total number of FTE healthcare assistants or	Total number of full-time equivalent (FTE) or whole-time equivalent
nurse aides or multi-task attendants or carers	(WTE) healthcare assistants or nurse aides or multi-task attendants or
	carers working in the LTCF
	Includes all healthcare assistant/nurse aide/multitask attendant/carer
	headcount, regardless of whether they are permanent, temporary or
	agency posts
	Excludes students, volunteers or other allied health professionals (e.g.,
	physiotherapist, dietician, occupational therapist, speech and language
	therapist)
Total number of resident rooms	Count up the TOTAL number of resident bedrooms in the facility, which
	are available for occupancy by a resident. If beds are closed and not
	available for occupancy, they should not be counted.
	This includes the number of single-occupancy resident bedrooms, each
	of which is counted as one room PLUS the number of multiple-
	occupancy resident bedrooms/bays (e.g., a bedroom or bay shared by
	two or more residents is also counted as one room)
Total number of single occupancy resident	Count up the number of single-occupancy resident bedrooms, which are
rooms	available for occupancy by one resident. If rooms are closed and not
	available for occupancy, they should not be counted
Total number of single occupancy resident	Total number of single-occupancy resident bedrooms with an en suite
rooms with individual toilet and washing	bathroom (i.e., separate toilet and washing facilities for the use of one
facilities	resident)
	Do not include a single bedroom with commode in this category

2.1.2 Section B – Denominator data

B – DENOMINATOR DATA		
This table when completed will summarize the data collected in each ward (ward list)	for the total population	
IN YOUR FACILITY, ON THE DAY OF THE SURVEY, TOTAL NUMBER OF:		
BEDS IN THE FACILITY (both occupied and non-occupied beds)		
OCCUPIED BEDS		
ELIGIBLE RESIDENTS:		
PRESENT AT 8 AM AND NOT DISCHARGED AT THE TIME OF THE SURVEY		
AGE OVER 85 YEARS		
MALE RESIDENTS		
RESIDENTS RECEIVING AT LEAST ONE ANTIMICROBIAL AGENT		
RESIDENTS WITH AT LEAST ONE INFECTION		
RESIDENTS WITH ANY URINARY CATHETER		
RESIDENTS WITH ANY VASCULAR CATHETER		
RESIDENTS WITH PRESSURE SORES		
RESIDENTS WITH OTHER WOUNDS		
RESIDENTS DISORIENTED IN TIME AND/OR SPACE		
RESIDENTS USING A WHEELCHAIR OR BEDRIDDEN		
RESIDENTS WITH SURGERY IN THE PREVIOUS 30 DAYS		
RESIDENTS WITH URINARY AND/OR FAECAL INCONTINENCE		

Section B – Denominator data		
This section can only be completed <u>after</u> all of the HALT data has been collected in your LTCF. Gather each of the		
completed ward lists and add up the data recor	ded from each ward list to complete this section	
Questionnaire Item	Explanation	
Beds in the facility	This is calculated by adding the total number of entries in	
(both occupied and non-occupied beds)	<u>Column 1 'Room & bed number'</u> from each completed ward	
	list	
Occupied beds	This is calculated by adding the total number of residents	
	listed in <u>Column 2 'Resident name'</u> from each completed	
	ward list	
	This includes beds that are normally occupied by a	
	resident(s) who is absent because they are currently	
	admitted to hospital or are on leave or holidays	
	Where a couple shares a double bed – count this as two	
	separate beds	

Eligible residents, present at 08:00AM in the facility and	This is calculated by adding the total number of X marked in
not discharged at the time of the survey	Column 4 'Present at 8AM and not discharged at time of
	PPS' from each completed ward list
Age over 85 years	This is calculated by adding the total number of eligible
	residents older than 85 years X marked in Column 5 'Age
	over 85 years' from each completed ward list
Male residents	This is calculated by adding the total number of eligible
	male residents X marked in <u>Column 6 'Male resident'</u> from
	each completed ward list
Residents receiving at least one antimicrobial agent –	This is calculated by adding the total number of eligible
	residents prescribed systemic antimicrobial(s) X marked in
	<u>Column 7 'Antimicrobial agent'</u> from each completed ward
	list
	Make sure that residents prescribed only topical agents,
Decidents with at least one infection	This is calculated by adding the total number of aligible
Residents with at least one infection	residents who have at least one infection confirmed on the
	HALT survey date where an Y is marked in Column 8b
	'Infection matching a case definition' from each completed
	ward list
Residents with any urinary catheter	This is calculated by adding the total number of eligible
	residents with a urinary catheter X marked in Column 9
	'Urinary catheter' from each completed ward list
	A urinary catheter is any tube system placed in the body to
	drain and collect urine from the bladder (e.g., indwelling
	urethral catheter, suprapubic catheter)
	Condom catheters are not included, because they are not in
	the body. Intermittent catheterisation is not included
Residents with any vascular catheter	This is calculated by adding the total number of eligible
	residents with a vascular catheter X marked in <u>Column 10</u>
	<u>'Vascular catheter'</u> from each completed ward list
	A vascular cathotor is a tube system placed in the body to
	access the vascular system, such as a peripheral venous
	cannula (PVC) perinherally inserted central catheter (PICC)
	midline or central vascular catheter (e.g. Hickman
	permcath for dialysis, portacath or temporary CVC)
Residents with pressure sores	This is calculated by adding the total number of eligible
	residents with a pressure sore X marked in Column 11a
	<u>'Pressure sore'</u> from each completed ward list
	All grades of pressure sores should be included, even the
	lowest grade, characterised by discolouration of intact skin
	not affected by light finger pressure: non-blanching
	erythema
Residents with other wounds	This is calculated by adding the total number of eligible
	residents with a wound other than a pressure sore X
	marked in <u>Column 11b 'Other wound'</u> from each completed
	ward list
	This category includes residents with: leg ulcers, surgical
	wounds, traumatic wounds, insertion sites for
	percutaneous endoscopic gastrostomy (PEG) tubes,
	suprapublic calificiers, perilonear calificiers, tracheostomy
	i cubes, coloscomy, neoscomy and uroscomy siles

	-
Residents disoriented in time and/or space	This is calculated by adding the total number of eligible
	residents who suffer from periods of confusion, especially
	for time, place or recognition of places or people they know
	who are X marked in <u>Column 12</u> 'Disorientation in time
	and/or space' from each completed ward list
Residents using a wheelchair or bedridden	This is calculated by adding the total number of eligible
	residents who need a wheelchair for mobility or who are
	bedridden, who are X marked in <u>Column 13</u> 'Wheelchair
	bound or bedridden' from each completed ward list
Residents with surgery in the previous 30 days	This is calculated by adding the total number of eligible
	residents who have undergone a surgical procedure in the
	30 days prior to the HALT survey date, who are X marked in
	Column 14 'Surgery in the previous 30 days' from each
	completed ward list
	Surgery is a procedure that takes place in an operating
	theatre or an interventional procedure room (radiology,
	cardiology, endoscopy suite), where a surgeon makes at
	least one incision through skin or mucous membranes,
	including laparoscopic surgery and closes the incision
	before the patient leaves the operating theatre
	Percutaneous procedures, such as insertion of PEG tubes or
	coronary angiography and endoscopic procedures such as
	OGD, colonoscopy, bronchoscopy and ERCP are NOT
	counted as surgical procedures
Residents with urinary and/or faecal incontinence	This is calculated by adding the total number of eligible
	residents who suffer from urinary and or faecal
	incontinence, who are X marked in <u>Column 15 Urinary</u>
	and/or laccal incontinence from each completed ward list
	much of the bould or bladder resulting in uncentrolled
	huscle of the bower of bladder, resulting in uncontrolled
	dianars (nannias in the 24 hours prior to the UALT survey
	date
	Note that residents with a urinary catheter in situ are NOT
	counted as being incontinent

2.1.3 Section C – Medical care & coordination

C - MEDICAL CARE AND COORDINATION

1. Is medical resident care, including antimicrobial prescribing, in the facility provided by the:

Personal general practitioners (GP) or group practice(s) only

Medical staff, employed by the facility only

□ Both personal GPs/group practice(s) and medical doctor(s) employed by the facility

2. Are medical activities in the facility coordinated by a coordinating medical physician (CP)?

□ No, there is no internal or external coordination of the medical activity

□ Yes, there is a physician from inside the facility (internal) who coordinates the medical activities

□ Yes, there is a physician from outside the facility (external) who coordinates the medical activities

□ Yes, there is both a physician from inside and outside the facility (internal and external) who coordinates the medical activities

3. Can any of the following persons consult the medical/clinical records of all residents in the facility?

The physician(s) in charge of medical coordination in the facility?	Yes	□ No	
The nursing staff	Yes	D No	

Section C – Medical care & coordination	
This section may be completed ahead of the HALT survey date for your LTCF	
Questionnaire Item	Explanation
C1 – Is medical resident care, including antimicrobial	Tick the box which most appropriately describes how
prescribing, in the facility provided by the	medical care, including antimicrobial prescribing is
	delivered to residents in your LTCF
C2 – Are medical activities in the facility coordinated by a coordinating medical physician (CP)?	Tick the box which most appropriately describes how medical activities are coordinated for the residents in your LTCF
	A coordinating physician (CP) is a medical doctor who is in charge of coordinating medical activities and the standardisation of practices/policies for residents in the LTCF
	Medical activities are defined as medical treatment, diagnosis and follow-up of residents' health problems
C3 – Can any of the following persons consult the medical/clinical records of all residents in the facility?	Tick the box which most appropriately describes the level of access to all of the residents' clinical records/medical information that the nursing staff and coordinating physician have
	Yes = has access to all clinical records No = does not have access to all clinical records

2.1.4 Section D – Infection control practice

1. Are there persons w	ith training in infection cor	ntrol/prevention available to the staff of the facility?
□ Yes	□ No	
2. If a person with train	ning in infection control/pr	evention is available, is this person:
□ A nurse	□ A doctor □ 1	There is both a nurse and a doctor
Is this/are these perso	n(s):	
Working in the	e facility (internal)	
□ Not working	in the facility (external)	
There is both	an internal and an externa	Il person
3. In the facility, is/are (Please complete this available in the facility	there: question even if there is)	s no person with training in infection control/preventi
Infection previous	ention and control training	g of the nursing and paramedical staff
Appropriate t	raining of general practitio	ners and medical staff in infection prevention and contro
Development	of care protocols	
Registration	of residents colonized/infec	ted with multi-resistant microorganisms
Designation of the second s	of a person responsible for	reporting and management of outbreaks
Feedback on	surveillance results to the r	nursing/medical staff of the facility
Supervision of di	sinfection and sterilization	of medical and care material
Decisions on isolo microorganisms	ntion & additional precauti	ions for residents colonized with resistant
Offer of annual in	mmunisation for flu to all r	esidents
Organization, co	ntrol, feedback on hand hy	giene in the facility on a regular basis
 Organization, con (on regular basis) 	ntrol, feedback of a proces.	s surveillance/audit of infection policies and procedures
□ None of the abov	e	
n the facility, is there a	n infection control commit	tee (internal or external)? 🛛 Yes 🗌 No
How many infection cor	ntrol committee meetings	were organized in the previous year?
Total number of me	etings last year?	meetings previous year
Can the facility ask for h	elp and expertise from an	external infection control (IC) team on a formal basis

🗆 Yes 🗆 No

7. In the facility, is a written protocol available for:

 the management of MRSA and/or other multidrug resistant microorganisms 	□ Yes	□ No
- hand hygiene	□ Yes	□ No
- the management of urinary catheters	□ Yes	□ No
 the management of venous catheters/lines 	□ Yes	□ No
- the management of enteral feeding	□ Yes	□ No

8. Is a surveillance programme of healthcare-associated infections in place in the facility? (annual summary report of number of urinary tract infections, respiratory tract infections, etc...)

🗆 Yes 🗆 No

9. In the facility, which of following products are available for hand hygiene?

- Alcohol rub solution	Yes	No
- Wipes (alcoholic)	Yes	No
- Liquid soap (antiseptic/ other)	Yes	No
- Bar soap in clinical areas	Yes	No

10. Which hand hygiene method is most frequently used in your facility <u>when hands are not soiled</u> (only <u>one answer</u> is possible)?

□ Hand disinfection with an alcohol solution

Hand washing with water and a non antiseptic soap

- Hand washing with water and an antiseptic soap
- 11. How many litres of hand alcohol were used last year? Total annual consumption in litres

Litres last year

12. Last year, was a hand hygiene training session organized for care professionals of the facility?

🗆 Yes 🗆 No

13. How many hand hygiene opportunities were there observed in your facility last year?

Number of observed opportunities

Section D – Infecti	on control practice
This section may be completed ahead	of the HALT survey date for your LTCF
Questionnaire Item	Explanation
D1 – Are there persons with training in infection	Tick the appropriate box 'yes' or 'no'
control/prevention available to the staff of the facility?	
	A person with specific IPC training may be a registered
	nurse or doctor, who may or may not work full-time on IPC
	activities in the LTCF. IPC activities may involve provision of
	advice on prevention of HCAI spread, by appropriate
	isolation of infectious patients, provision of training for
	staff on IPC practices, collection, analysis and of infection
	surveillance data
	When answering this question, an infection prevention and
	control link nurse is not counted as being an infection
	prevention and control nurse

D2a – If a person with infection control/prevention training is available?	Tick the box that most appropriately describes the training background of the person/people who provide the IPC advice and training to the staff of the facility – nurse, doctor or both a nurse and doctor are available
D2b – Is this/are these person(s)	Tick the box that most appropriately describes the usual location at which the IPC person is based – internal, external or both internal and external IPC people are available
D3 – Is there a system in place within the facility to ensure	Tick the box(es) that most accurately describe the IPC systems currently in place within the LTCF
D4 – In the facility, is there an infection control committee (internal or external)?	Tick the appropriate box 'yes' or 'no' An infection control committee (ICC) is a multi-disciplinary committee that meets regularly and keeps written meeting records/minutes to review infection control data, IPC policies and monitor IPC goals and activities. The ICC may be internal or external to the facility (e.g., a joint ICC shared between a group of LTCF) The ICC membership should include the IPC person for the LTCF, the coordinating physician, the LTCF director of nursing or manager and other healthcare professionals, as appropriate
D5 – How many ICC meetings were organised in the previous year?	Write in the number of ICC meetings that took place in 2015
D6 – Can the facility ask for help and expertise from an external infection control team on a formal basis (e.g., local hospital team or public health team)?	Tick the appropriate box 'yes' or 'no'
D7 – In the facility, is a written protocol available for:	Tick the appropriate box 'yes' or 'no' which describes the availability of written protocols for each of the five listed items
D8 – Is a surveillance programme of healthcare associated infections in place in the facility?	Tick the appropriate box 'yes' or 'no' A surveillance programme for a particular HCAI involves systematic counting and recording of the number of infections and the consistent use of definitions to define
D9 – In the facility, which of the following products is available for hand hygiene?	Tick the appropriate box 'yes' or 'no' for each of the four listed hand hygiene products
D10 – Which hand hygiene method is most frequently used in your facility for hands that are not visibly soiled (only one answer is possible)?	<u>Tick one box only</u> , which most accurately describes the hand hygiene method most frequently used by staff in your LTCF for routine hand hygiene
D11 – How many litres of hand alcohol were used last year?	Find out and write in the total number of litres of alcohol hand rub (gel/foam) that were used by your LTCF in 2015
D12 – Last year, was a hand hygiene training session organised for care professionals of the facility?	Tick the appropriate box 'yes' or 'no' to confirm whether staff hand hygiene training session(s) took place in 2015 A hand hygiene training session is a formal education session for staff working in the LTCF which provides information on hand hygiene indications (when to do it) and technique (how to do it)

D13 – How many hand hygiene opportunities were there observed in your facility last year?	This question should be answered if hand hygiene compliance audits were carried out in your facility in 2015. Provide the number of observed hand hygiene opportunities (or estimate if exact number not available) Do not provide the number of opportunities that were compliant
	Leave this answer blank if hand hygiene compliance audits were not carried out in your facility in 2015.

2.1.5 Section E – Antimicrobial policy

E – ANTIMICROBIAL POLICY

1. Does the facility use a 'restrictive list' of antimicrobials to be prescribed? (prescription requiring permission of a designated person or not to be used)

🗆 Yes 🗆 No

2. If a restrictive list exists, what kinds of antibiotics are restricted?

- □ Carbapenems
- □ 3rd generation cephalosporins
- Fluoroquinolones
- Vancomycin
- □ Mupirocin
- □ Glycopeptides
- Broad-spectrum antibiotics
- Intravenously administered antibiotics

3. Which of following elements are present in the facility?

- □ An antimicrobial committee
- □ Annual regular training on appropriate antimicrobial prescribing
- Uritten guidelines for appropriate antimicrobial use (good practice) in the facility
- Data available on annual antimicrobial consumption by antimicrobial class

□ A system to remind healthcare workers of the importance of microbiological samples to inform the best antimicrobial choice

□ Local (i.e. for that region/locality or national if small country) antimicrobial resistance profile summaries available in the LTCF or in the GP surgeries who prescribe

□ A system that requires permission from a designated person(s) for prescribing of restricted antimicrobial, not included in local formulary

- □ Advice from a pharmacist for antimicrobials not included in the formulary
- □ A therapeutic formulary, comprising a list of antibiotics
- Feedback to the GPs on antimicrobial consumption in the facility
- None of the above

4. If written therapeutic guidelines are present in the facility, are they on:

- Respiratory tract infections?	Yes	No
- Urinary tract infections?	Yes	No
 Wound and soft tissue infections? 	Yes	No

5. Do you perform a urine dipstick test for detection of urinary tract infections in the facility?

```
□ Routinely □ Sometimes □ Never
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6. Is a programme for surveillance of antimicrobial consumption and feedback in place in the facility?

🗆 Yes 🗆 No

7. Is a programme for surveillance of resistant microorganisms in place in the facility? (annual summary report for MRSA, Clostridium difficile, etc)

□ Yes □ No

8. How are antimicrobials supplied to your facility? (only one answer possible)

- Provided by more than one pharmacy
- Provided by one pharmacy only
- □ This facility does not acquire antimicrobials directly from pharmacies; antimicrobials are acquired by residents directly (e.g. supplied by the family)
- 9. How many microbiological laboratories do you work with? (only one answer possible)
 - More than one microbiological laboratory
 - One single microbiological laboratory
 - This facility does not send microbiological samples to any laboratories; each visiting general practitioner can work with his microbiological laboratory of choice.

	Section E – Antimicrobial policy
This section may be co	mpleted <u>ahead of</u> the HALT survey date for your LTCF
Questionnaire Item	Explanation
E1 – Does the facility use a	Tick the appropriate box 'yes' or 'no' to indicate whether or not your LTCF
'restrictive list' of antimicrobials to be	operates a restricted list for antimicrobial prescribing
prescribed?	
	A restricted list usually describes antimicrobials which may classified either by the class of antimicrobial (e.g., fluoroquinolones, cephalosporins, macrolides) or by the name of the antimicrobial (e.g., ciprofloxacin, levofloxacin, azithromycin, fosfomycin) that should not be empirically prescribed for residents, unless there is a microbiology culture and sensitivity result that indicates that there is no alternative effective antimicrobial available
E2 – If a restrictive list exists,	Answer this guestion if you answered 'yes' to guestion E1
what kinds of antibiotics are restricted?	 Carbapenems = meropenem, ertapenem, imipenem/cilastatin,
	 doripenem 3rd generation cephalosporins = cefotaxime, ceftriaxone, ceftazidime Fluoroquinolones = ciprofloxacin, levofloxacin, olfloxacin, movifloxacin
	 Glyconentides = teiconlanin
	 Broad-spectrum antimicrobials = co-amoxiclav, piperacillin- tazobactam Intravenously-administered antibiotics = any antimicrobial
	administered via the IV route (i.e. through a vascular catheter)
E3 – Which of the following elements	From the list of 11 antimicrobial stewardship practices, tick the box(es) that
are present in the facility?	most accurately describe those that are currently in place within your LTCF
	An antimicrobial committee is a multi-disciplinary committee that meets regularly and keeps written meeting records/minutes to review

	antimicrobial prescribing data and consumption, policies and monitor antimicrobial stewardship goals and activities. The antimicrobial committee may be internal or external to the facility (e.g., a joint committee shared between a group of LTCF) The membership should include the antimicrobial prescribers for the LTCF, the coordinating physician, the LTCF, director of pursing or manager a
	pharmacist, the IPC person and other healthcare professionals as
FA – If written theraneutic guidelines	Answer this question if you answered 'yes' to question F3 sub-questions 3
are present in the facility they are on:	or 9
are present in the radinty, they are on	Tick the appropriate box 'yes' or 'no' to indicate which of the three listed
FF De com en eferrer e contre eltrettele	Tiel, the hear that must an unicropial treatment guideline available
E5 – Do you perform a urine dipstick	lick the box that most appropriately answers the question on the use of
(UTI) in the facility?	diagnosting LITL in your facility
E6 – Is a programme for	Tick the appropriate box 'yes' or 'no'
surveillance of antimicrobial consumption	
and feedback in place in the facility?	
E7 – Is a programme for surveillance	Tick the appropriate box 'yes' or 'no'
of resistant microorganisms in place in the	A surveillance programme for a particular drug-resistant organism involves
facility?	the systematic counting and recording of the number of cases of infection
(e.g., summary report for meticilin	and colonisation due to that resistant organism, with the consistent use of
F8 - How are antimicrohials supplied to	Tick one how only which most accurately describes the usual way that
vour facility?	antimicrohials are supplied to the LTCE
(only one answer is possible)	
E9 – How many microbiological	Tick one box only, which most accurately describes the most usual way your
laboratories do vou work with?	facility uses the local microbiology laboratory.
(only one answer is possible)	If resident microbiology specimens/samples are normally only sent directly
	from your facility to the same microbiology laboratory, choose 'one single
	microbiology laboratory'
	If the resident's GP visits the LTCF, takes a microbiology sample from the resident and then sends it onto a different microbiology laboratory used by that GP, choose the third option

2.1.6 Section F – How was the survey performed in your facility?



1. Who collected the HALT-3 data (incl. institutional and resident questionnaires)?

- A physician
- 🗆 A nurse
- Another person

2. If no physician was involved in the HALT-3 data collection (institutional and resident questionnaires), did a physician validate the data?

🗆 Yes 🗆 No

Section F – How was the survey performed in your facility?		
This section can only be completed <u>after</u> all of the HALT data has been collected in your LTCF.		
Questionnaire Item	Explanation	
Who collected the HALT data?	Tick the most appropriate box to describe the title of the	
	staff member who collected the data for the HALT survey	
	(the institutional and resident questionnaires)	
If no physician was involved in the HALT data collection,	Tick the appropriate box 'yes' or 'no' to indicate whether or	
did a physician validate the data?	not a physician/doctor reviewed the information recorded	
	on the questionnaires	

2.2 Ward list (Appendix C)

- Ensure that you have sufficient copies of the four-page ward list printed out and stapled together before you begin data collection. If an individual unit/ward has more than 28 beds, copy an additional ward list page 2 or 3 and staple it to the existing four-page ward list
- One ward list to be completed per ward/unit within your LTCF. The ward list is an important document, for local use only. Completed ward lists will help you to gather the information required for completion of the institutional questionnaire 'Section B Denominator Data' and enables you to assign each resident their anonymous resident study number. Because the ward list contains resident names, it <u>must not</u> leave the LTCF. All data to be returned to HPSC from each participating LTCF is anonymous and no resident-identifying information can be returned. The completed ward lists for your LTCF should be retained locally by the HALT local contact person until the national HALT report has been published by HPSC
- Prior to the HALT survey date, a list should be drawn up of every ward/unit in your LTCF. Every ward/unit should be assigned a letter code (e.g., St Patrick's = 'A', St Joseph's = 'C') and the unit keeps the same letter code for the duration of the HALT survey. If your LTCF participated in previous HALT surveys, keep the same letter code for each unit across each HALT survey

Page 1 of the ward list provides the instructions for completion:

HAL	T-3: WARD LIST
PPS DENOMINATOR DA	ATA BY WARD (for internal use only)
Date of the PPS survey in your facility/	Facility study number:
Name of the ward:	
How many beds in this ward? (includes both occupied and non-occu	UPIED BEDS):beds
The ward list is a form developed to aid surveyors' collection of denominator of The surveillance protocol specifies that surveyors should collect information fr ward at 8am and not discharged at the time of the survey. This ward list colle can sum the denominators from each ward and transfer these totals to the inso one ward list.	data for the Institutional Questionnaire. Its use is not mandatory, i.e. it is optional. rom each resident eligible resident, i.e. those living full-time in the facility, present in the acts data from each resident. Once these data have been collected for all wards, surveyors stitutional questionnaire. Facilities that do not have different wards only need to complete
 Instructions: All residents present on the day of the survey should be listed in column Add a code in column 3 that is unique for every resident in the facility, that same resident. If the resident meets the eligibility criteria (i.e. living full-time in the far 15 by writing an 'X' if the risk factor or care load indicator is present or Sum the Xs in each column. Write the totals of each column in the summary table at the end of the Sum the totals of the summary tables in the different ward lists and resident. 	nns 1 and 2. . Numbers and/or letters can be used. This study number should be entered on all forms for cility, present at 8am and not discharged at the time of the survey), complete columns 4 to n the day of the survey. e ward list. sport the totals In part B of the institutional questionnaire.
Ward	d List – Pages 2 - 3
uestionnaire Item	Explanation
olumn 1: Room & bed number	List all the resident bedrooms and bed spaces on the ward that are open and available for occupancy as you would normally identify them in your LTCF. For example: Room 1 = single occupancy resident bedroom Room 2a, 2b, 2c etc. = multiple occupancy patient bedroom Do not include rooms or beds that are closed and no available for occupancy
olumn 2: Resident name	List all the residents of your LTCF by name, correspondin with their current allocated room and bed number i column 1
olumn 3: Study number of the resident	The anonymous resident study number is made up of two parts: The locally-assigned letter code for the ward/uni and the consecutive number of the resident on the ward list (starting with 01, 0209, 10etc).

For example, J. Juliet is a patient in St Patrick's ward. For the HALT survey the local HALT contact person has assigned St. Patrick's ward with the letter code 'A'. Upon completion of the ward list for ward 'A', J Juliet is the fifth consecutive patient on the ward. Therefore, J Juliet's anonymous resident study number is A05.

Column 3: Resident is present at 8AM and is not discharged by the time of the point prevalence survey (PPS) Mark X in the box if this statement is true for the resident in question

If the resident listed on the ward list meets the criteria for an eligible resident: proceed to review and mark X in the box for the true statements in columns 5, 6 and 9 to 15 of the ward list for that resident

Before you can complete columns 7, 8a and 8b in the ward list, you should first review the medication record, medical, nursing and observation records and discuss with the nurse caring for every eligible resident, to identify those who are prescribed systemic antimicrobials and/or have symptoms and/or signs of infection and/or meet the criteria for a HCAI. You should first complete the resident questionnaires for that unit/ward and then go back to the ward list to enter data into columns 7, 8a and 8b. This may be followed by completion of the ward list

1. living full-time in the LTCF

AND

2. present at 08:00AM on the morning of the HALT survey date for that ward/unit and not discharged by

the time of the survey

Column 3: Age over 35 years Mark X in the box if this statement is true for the resident in question Column 6: Male resident Mark X in the box if this statement is true for the resident in question Column 7: Antimicrobial agent Mark X in the box if this statement is true for the resident in question
Column 6: Male resident Mark X in the box if this statement is true for the resident in question Column 7: Antimicrobial agent Mark X in the box if this statement is true for the resident in question
Column 6: Male resident Mark X in the box if this statement is true for the resident in question Column 7: Antimicrobial agent Mark X in the box if this statement is true for the resident in question
in question Column 7: Antimicrobial agent Mark X in the box if this statement is true for the resident in question
Column 7: Antimicrobial agent Mark X in the box if this statement is true for the resident in question
in question
in question
Can only be completed once the resident's medication
record has been checked for systemic antimicrobial Refer back to Section 1.5.2 for further description of the
prescription systemic routes of administration and antimicrobial types
being collected in HALT
Make sure that residents prescribed only topical agents
antivirals and antisentics are not recorded in this column
Column 8a: Signs/symptoms of an infection Mark X in the box if this statement is true for the resident
in question
Can only be completed once the resident's medical
cuir only be completed once the resident's medicul,
nuising and observation records nave been checked jor
Column Obv Infontion motoking a seed definition
Column 8b: Infection matching a case definition Iviark X in the box if this statement is true for the resident
in question
Can only be completed once the completed resident
questionnaire has been checked for infection data entered
in Part B – Healthcare Associated Infections
Column 9: Urinary catheterMark X in the box if this statement is true for the resident
in question
A urinary catheter is any tube system placed in the body to
drain and collect urine from the bladder (e.g., indwelling
urethral catheter, suprapubic catheter)
Condom catheters are not included because they are not in
the body. Intermittent catheterisation is not included
Column 10: Vascular catheter Mark X in the box if this statement is true for the resident
in question
A vascular catheter is a tube system placed in the body to
access the vascular system, such as a peripheral venous
cannula (PVC), peripherally inserted central catheter (PICC).
midline or central vascular catheter (e.g. Hickman
permeath for dialysis nortaeath or temporary CVC)

in question All grades of pressure sores should be included, even the lowest grade, characterised by discoluration of intact skin not affected by light finger pressure: non-blanching erythema Column 11b: Other wound Mark X in the box if this statement is true for the resident in question This category includes all wound types other than pressure sores. The following residents are classified as having an 'other wound': leg ulcers, surgical wounds, traumatic wounds, insertion sites for perculaneous endoscopic gastrostomy (PEG) tubes, supraputic catheters, pertoneal catheters, tracheostomy tubes, colostomy, ileostomy and urostomy sites Column 12: Disorientation in time and/or space Mark X in the box if this statement is true for the resident in question Column 13: Wheelchair bound or bedridden Mark X in the box if this statement is true for the resident in question Column 14: Surgery in the previous 30 days Mark X in the box if this statement is true for the resident in question FOR THIS STATEMENT TO BE TRUE, YOU NEED TO KNOW THE DATE OF SURGERY: Surgery is a procedure that takes place in an operating theatre or an interventional procedure room (radiology, cardiology, endoscopy stud), where a surgeon makes at loadung laparoscopic surgery, and closes the incision before the patient leaves the operating theatre Percutaneous procedures, such as insertion of PEG tubes or coronary anglography and endoscopic procedures such as OGD, colonoscopi, ERCP are NOT counted as surgical procedures Column 15: Urinary and/or faecal incontinence Mark X in the bow if this statement is true for the resident in quest	Column 11a: Pressure sore	Mark X in the box if this statement is true for the resident
All grades of pressure sores should be included, even the lowest grade, characterised by discolouration of intact skin not affected by light finger pressure: non-blanching erythema Column 11b: Other wound Mark X in the box if this statement is true for the resident in question This category includes all wound types other than pressure sores. The following residents are classified as having an other wound': leg ulcers, surgical wounds, traumatic wounds, insertion sites for percuraeous endocopic gastrostomy (PEG) tubes, surparbuic catheters, peritoneal catheters, tracheostomy tubes, colostomy, ileostomy and urostomy sites Column 12: Disorientation in time and/or space Mark X in the box if this statement is true for the resident in question Column 13: Wheelchair bound or bedridden Mark X in the box if this statement is true for the resident in question Column 14: Surgery in the previous 30 days Mark X in the box if this statement is true for the resident in question Column 14: Surgery in the previous 30 days Mark X in the box if this statement is true for the resident in question Column 15: UTINEY MINUS DATE OF SURGERY IS 530 DAYS Surgery is a procedure that takes place in an operating theatre or an interventional procedure room (radiology, cardiology, endoscopy suite), where a surgeon makes at least one incision through skin or muccus membranes, including laparoscopic surgery, and closes the incision before the patient leaves the operating theatre Percutaneous procedures, such as insertion of PEG tubes or cornary anglography and endoscopic procedures such as OGO, colonoscopy, ERCP are NOT counted as surgical procedures such as		in question
All grades of pressure sores should be included, even the lowest grade, characterised by discolouration of intact skin not affetted by light finger pressure: non-blanching erythema Column 11b: Other wound Mark X in the box if this statement is true for the resident in question This category includes all wound types other than pressure sores. The following residents are classified as having an 'other wound': leg ulcers, surgical wounds, traumatic wounds, insertion sites for percutaneous endoscopic gastrostomy (PEG) tubes, suprapubic catheters, peritoneal catheters, tracheostomy tubes, colostomy, ileostomy and urostomy sites Column 12: Disorientation in time and/or space Mark X in the box if this statement is true for the resident in question This includes residents who suffer from periods of confusion, especially for time, place or recognition of places or people they know Mark X in the box if this statement is true for the resident in question Column 13: Wheelchair bound or bedridden Mark X in the box if this statement is true for the resident in question Column 14: Surgery in the previous 30 days Mark X in the box if this statement is true for the resident in question Column 14: SURVEY MINUS DATE OF SURGERY IS S30 DAYS Surgery is a procedure that takes place in an operating theatre or an interventional procedure room (radiology, cardiology, endoscopy suite), where a surgeon makes at least one incision through skin or mucous membranes, including laparoscopic surgery, and closes the incision before the patient leaves the operating theatre Percutaneous procedures, such as insertion of PEG tubes or coronary anglography and endos		
Column 11b: Other wound Mark X in the box if this statement is true for the resident in question This category includes all wound types other than pressure sores. The following residents are classified as having an 'other wound' leg lucers, surgical wounds, traumatic wounds, insertion sites for percutaneous endoscopic gastrostomy (PEG) tubes, suprapubic catheters, peritoneal catheters, tracheostomy tubes, colostomy, licostomy and urostomy sites Column 12: Disorientation in time and/or space Mark X in the box if this statement is true for the resident in question This includes residents who suffer from periods of confusion, especially for time, place or recognition of places or people they know Mark X in the box if this statement is true for the resident in question Column 13: Wheelchair bound or bedridden Mark X in the box if this statement is true for the resident in question Column 14: Surgery in the previous 30 days Mark X in the box if this statement is true for the resident in question FOR THIS STATEMENT TO BE TRUE, YOU NEED TO KNOW Surgery is a procedure that takes place in an operating theatre or an interventional procedure room (radiology, cardiology, endoscopy suite), where a surgeon makes at least one inclision through skin or mucous membranes, including laparoscopic surgery, and closes the inclusion before the patient leaves the operating theatre Percutaneous procedures, such as insertion of PEG tubes or cornary anglography and endoscopic procedures such as OGO, colonoscopy, ERCP are NOT counted as surgical procedures Column 15: Urinary and/or faecal incontinence Mark X in the bowil or bladder, resui		All grades of pressure sores should be included, even the
not affected by light finger pressure: non-blanching erythema Column 11b: Other wound Mark X in the box if this statement is true for the resident in question This category includes all wound types other than pressure sores. The following residents are classified as having an other wound': leg ulcers, surgical wounds, traumatic wounds, insertion sites for percutaneous endoscopic gastrostomy (PEG) tubes, suprapubic catheters, peritoneal catheters, tracheostomy tubes, colostomy, ileostomy and urostomy sites Column 12: Disorientation in time and/or space Mark X in the box if this statement is true for the resident in question This includes residents who suffer from periods of confusion, especially for time, place or recognition of places or people they know Mark X in the box if this statement is true for the resident in question Column 13: Wheelchair bound or bedridden Mark X in the box if this statement is true for the resident in question FOR THIS STATEMENT TO BE TRUE, YOU NEED TO KNOW Surgery is a procedure that takes place in an operating theatre or an interventional procedure room (radiology, andicoscopy suite), where a surgeon makes at least one incision through skin or muccus membranes, including laparoscopic surgery, and closes the incision before the patient leaves the operating theatre Percutaneous procedures, such as insertion of PEG tubes or croonary anglography and endoscopic procedures such as oGD, colonoscopy, ERCP are NOT counted as surgical procedures Column 15: Urinary and/or faecal incontinence Mark X in the box if this statement is true for the resident in question Incontinen		lowest grade, characterised by discolouration of intact skin
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Percutaneous procedures, such as insertion of PEG tubes or coronary angiography and endoscopic procedures such as OGD, colonoscopy, ERCP are NOT counted as surgical proceduresColumn 15: Urinary and/or faecal incontinenceMark X in the box if this statement is true for the resident in questionIncontinence is defined as a lack of control of the sphincter muscle of the bowel or bladder, resulting in uncontrolled loss of faeces or urine, necessitating the use of diapers/nappies in the 24 hours prior to the HALT survey date		before the patient leaves the operating theatre
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Column 15: Urinary and/or faecal incontinenceMark X in the box if this statement is true for the resident in questionIncontinence is defined as a lack of control of the sphincter muscle of the bowel or bladder, resulting in uncontrolled loss of faeces or urine, necessitating the use of diapers/nappies in the 24 hours prior to the HALT survey date		Percutaneous procedures, such as insertion of PEG tubes or
Column 15: Urinary and/or faecal incontinence Mark X in the box if this statement is true for the resident in question Incontinence is defined as a lack of control of the sphincter muscle of the bowel or bladder, resulting in uncontrolled loss of faeces or urine, necessitating the use of diapers/nappies in the 24 hours prior to the HALT survey date		coronary angiography and endoscopic procedures such as
Column 15: Urinary and/or faecal incontinence Mark X in the box if this statement is true for the resident in question Incontinence is defined as a lack of control of the sphincter muscle of the bowel or bladder, resulting in uncontrolled loss of faeces or urine, necessitating the use of diapers/nappies in the 24 hours prior to the HALT survey date		OGD, colonoscopy, ERCP are NOI counted as surgical
Incontinence is defined as a lack of control of the sphincter muscle of the bowel or bladder, resulting in uncontrolled loss of faeces or urine, necessitating the use of diapers/nappies in the 24 hours prior to the HALT survey date	Column 15: Urinary and/or faecal incontinence	Mark X in the box if this statement is true for the resident
Incontinence is defined as a lack of control of the sphincter muscle of the bowel or bladder, resulting in uncontrolled loss of faeces or urine, necessitating the use of diapers/nappies in the 24 hours prior to the HALT survey date	column 15. of har y and y of factor incontinence	in question
Incontinence is defined as a lack of control of the sphincter muscle of the bowel or bladder, resulting in uncontrolled loss of faeces or urine, necessitating the use of diapers/nappies in the 24 hours prior to the HALT survey date		····
muscle of the bowel or bladder, resulting in uncontrolled loss of faeces or urine, necessitating the use of diapers/nappies in the 24 hours prior to the HALT survey date		Incontinence is defined as a lack of control of the sphincter
loss of faeces or urine, necessitating the use of diapers/nappies in the 24 hours prior to the HALT survey date		muscle of the bowel or bladder, resulting in uncontrolled
diapers/nappies in the 24 hours prior to the HALT survey date		loss of faeces or urine, necessitating the use of
date		diapers/nappies in the 24 hours prior to the HALT survey
		date
counted as being incontinent		counted as being incontinent

Once the ward list has been completed for the ward in question, add up the total counts recorded in columns 1, 2 & 4 to 15 and enter the totals for each column in the ward list summary table, which is on the final page (page 4) of the ward list. You should only complete the totals for columns 7, 8a and 8b once you have completed all of the resident questionnaires for that ward/unit.

Column 8a is not included in the summary table. Residents with signs and symptoms that meet all the required criteria confirming an infection definition will be counted in the HALT software

SUMMARY TABLE: TOTAL NUMBERS FOR THIS WARD

Use this table to add the number of 'X' from each column from each ward list from the facility. Transfer the total number into Part B of the institutional questionnaire, i.e. 'Denominator Data'

On the day of the PPS, TOTAL number of:	Column	TOTAL NUMBERS
Total number of beds on this ward (total bed capacity)	1	
Occupied beds in the ward	2	
Eligible residents, present at 8 AM and not discharged at time of PPS	4	
Age over 85 years	5	
Male residents	6	
Residents receiving at least one antimicrobial agent	7	
Residents with at least one infection	8b	
Residents with any urinary catheter	9	
Residents with any vascular catheter	10	
Residents with pressure sores	11a	
Residents with other wounds	11b	
Residents disorientated in time and/or space	12	
Residents using wheelchair or being bedridden	13	
Residents with surgery in the previous 30 days	14	
Residents with urinary and/or faecal incontinence	15	

Keep this ward list safely in your LTCF until the publication of the national HALT report

HALT-3: WARD LIST 2016-2017

Once all HALT survey data has been collected in your LTCF, gather each of the completed ward lists and add up the data recorded on the summary table of each completed ward. This data is then used to complete the institutional questionnaire 'Section B – Denominator data'. The ward lists do not leave your LTCF, they are not returned to HPSC and they should be retained locally by the local HALT contact person until after the publication of the final national HALT report by HPSC

4

2.3 Resident questionnaire (Appendix D)

- Ensure that you have sufficient paper copies of the resident questionnaires printed out and stapled together, before you begin data collection
- Not all eligible residents need a resident questionnaire completed. A resident questionnaire has to be completed for each eligible resident who meets the following criteria on the HALT survey date:

Is currently prescribed a systemic antimicrobial(s) (either for infection treatment or prophylaxis) **AND/OR**

Is having signs or symptoms of an active healthcare-associated infection

- For the eligible resident who requires a resident questionnaire to be completed, instead of recording the resident's name, always use the resident's corresponding anonymous 'Resident Study Number', as recorded on the ward list. The resident study number should be clearly recorded on the top-right-hand corner of each page of the resident questionnaire
- The resident's name should not be written on the resident questionnaire. The completed paper version
 of the resident questionnaire is used for local data entry into the HALT software, following completion
 of the HALT survey in your LTCF
- The paper copy of the resident questionnaire is not returned to HPSC and should be retained locally along with the completed ward lists, until the final national HALT survey report has been published
- The resident questionnaire is sub-divided into the following sections:
 - Resident data (page 1)
 - Part A: Antimicrobial use data (page 2)
 - Part B: Healthcare-associated infection data (page 2)
 - Each of the case definitions for the infection types included in HALT is available on pages 3 8 of the resident questionnaire, allowing the data collector to tick boxes where symptoms and/or signs are present and follow each algorithm from start to finish to determine whether or not the resident meets criteria for 'INFECTION CONFIRMATION'

2.3.1 Resident data

Healthcare-associated infections and antimicrobial use in European long-term care facilities (HALT-3) RESIDENT QUESTIONNAIRE				
	R	RESIDENT DA	TA	
GENDER		Male		Female
BIRTH YEAR			_ (Y	YYY)
LENGTH OF STAY IN THE FACILITY		Less than one	year	One year or longer
ADMISSION TO A HOSPITAL IN THE LAST 3 MONTHS		Yes		No
SURGERY IN THE PREVIOUS 30 DAYS		Yes		No
URINARY CATHETER		Yes		Νο
VASCULAR CATHETER		Yes		No
INCONTINENCE (URINARY AND/OR FAECAL)		Yes		Νο
- PRESSURE SORE		Yes		No
- OTHER WOUNDS		Yes		No
DISORIENTATION		Yes		No

Resident questionnaire – Resident data

- 1. Make sure that the resident study number is clearly marked on top-right hand corner of each page
- 2. When completing this section, cross-check the data circled above matches that recorded for the resident in question on the corresponding ward list

Questionnaire Item	Explanation
Gender	Tick the box 'male' or 'female'
Birth year	Write the resident's year of birth here
Length of stay in the facility	Tick the appropriate box which indicates the duration of the resident's admission to your LTCF: 'less than one year' or 'one year or longer'

Admission to a hospital in the last 3 months	Tick the appropriate box 'yes' or 'no'
	Only acute hospital admissions of at least 24 hours duration (i.e., overnight stay) should be considered when choosing 'yes' option
	Residents receiving regular chronic ambulatory care (e.g. outpatient haemodialysis, or oncology day ward chemotherapy) are not counted as having been admitted to hospital in the last 3 months, unless they have had an inpatient admission of at least 24 hours duration
Surgery in the previous 30 days	Tick the appropriate box 'yes' or 'no'
DATE OF HALT SURVEY MINUS DATE OF SURGERY IS ≤30 DAYS	Surgery is a procedure that takes place in an operating theatre or an interventional procedure room (radiology, cardiology, endoscopy suite), where a surgeon makes at least one incision through skin or mucous membranes, including laparoscopic surgery, and closes the incision
	before the patient leaves the operating theatre
	Percutaneous procedures, such as insertion of PEG tubes or coronary angiography and endoscopic procedures such as OGD, colonoscopy, ERCP are NOT counted as surgical procedures
Urinary catheter	Tick the appropriate box 'yes' or 'no'
	A urinary catheter is any tube system placed in the body to drain and collect urine from the bladder (e.g., indwelling urethral catheter, suprapubic catheter)
	Condom catheters are not included because they are not in the body
Vascular catheter	Tick the appropriate box 'yes' or 'no'
	A vascular catheter is a tube system placed in the body to access the vascular system, such as a peripheral venous cannula (PVC), peripherally inserted central catheter (PICC), midline or central vascular catheter (e.g. Hickman, permcath for dialysis, portacath or temporary CVC)
Incontinence (urinary and/or faecal)	Tick the appropriate box 'yes' or 'no'
	Incontinence is defined as a lack of control of the sphincter muscle of the bowel or bladder, resulting in uncontrolled loss of faeces or urine, necessitating the use of diapers/nappies in the 24 hours prior to the HALT survey date
	Note that residents with a urinary catheter in situ are NOT counted as being incontinent

Wounds:	
Pressure sore	Tick the appropriate box 'yes' or 'no'
	All grades of pressure sores should be included, even the lowest grade, characterised by discolouration of intact skin not affected by light finger pressure: non-blanching erythema
Other wounds	Tick the appropriate box 'yes' or 'no'
	This category includes all wound types other than pressure sores. The following residents are classified as having an 'other wound': leg ulcers, surgical wounds, traumatic wounds, insertion sites for percutaneous endoscopic gastrostomy (PEG) tubes, suprapubic catheters, peritoneal catheters, tracheostomy tubes, colostomy, ileostomy and urostomy sites
Disorientation (in time and/or space)	Tick the appropriate box 'yes' or 'no'
	This includes residents who suffer from periods of confusion, especially for time, place or recognition of people or places they know
Mobility	 Tick the most appropriate box to describe the resident's level of mobility on the HALT survey date: Ambulant – The resident can walk by himself/herself, with or without the aid of a stick/crutches/walking frame Wheelchair bound Bedridden

- Tick the appropriate box in the next section on page 1 of the resident questionnaire:
 - For a resident who is only prescribed systemic antimicrobials, either for treatment or prophylaxis; proceed to complete Part A 'Antimicrobial Use' of the resident questionnaire (Page 2)
 - For a resident who is not prescribed any systemic antimicrobials, but has symptoms or signs suggestive of a healthcare associated infection on the HALT survey date, proceed to complete Part B 'Healthcare Associated Infections' of the resident questionnaire (Page 2), in conjunction with reviewing each case definition on pages 3 8
 - For a resident who is prescribed systemic antimicrobials (either for treatment or prophylaxis)
 AND who either has symptoms or signs of healthcare associated infection today OR who has recently had symptoms and signs of infection and continues to receive antimicrobial therapy for that infection; proceed to complete both parts A & B of the resident questionnaire (i.e. all of the resident questionnaire is completed for this resident)



2.3.2 Antimicrobial use data

Systemic antimicrobial means that the drug is given to the patient via the following routes of administration:

- 1. Oral (PO)/tablet, enteral, per rectum (PR) route
- 2. Intramuscular (IM) route
- 3. Intravenous (IV) route
- 4. Inhaled or nebulised (nebs) or aerosolised route

Antimicrobials given to the patient via the topical route are NOT classified as systemic antimicrobials (e.g.,

creams, lotions, ointments) and are not recorded on the resident questionnaire.

The following types of systemic antimicrobials should be recorded on the resident questionnaire:

- Antibacterials (i.e. drugs used to treat bacterial infections)
- Antifungals (i.e. drugs used to treat fungal infections)
- Antimycobacterials (i.e. drugs used to treat tuberculosis/TB e.g., rifampicin, isoniazid, pyrazinamide, ethambutol)

The HALT survey is not collecting information on the following drugs:

- Antivirals (i.e., drugs used to treat viral infections, such as oseltamivir/Tamiflu, aciclovir)
- Antiseptics

If a resident is prescribed a topical antimicrobial, an antiviral or an antiseptic agent, it is **NOT** recorded on the resident questionnaire. That resident does not require a resident questionnaire to be completed, **UNLESS** the resident is also prescribed another systemic antimicrobial and/or is having signs or symptoms of an active healthcare-associated infection.

2.3.2.1 Where do I find antimicrobial treatment data?

- The drug list in the LTCF ward or the resident's medication prescription sheet (kardex):
 - If the ward maintains an up-to-date list/sheet of medication currently prescribed and administered to residents, this could be a useful source of information
- The resident's medical and/or nursing records:
 - If no drug list/kardex is available and treatment is only noted in the medical or nursing record of the residents, all records from all residents should be verified on the day of the survey
- The pharmacy: If all the medications for the LTCF are delivered by one pharmacy, the pharmacist should be able to indicate from their local patient medication records, the date of dispensing of antimicrobials for the resident in question. This may be particularly helpful in scenarios where a resident has been prescribed a particular antimicrobial and it is unclear when the agent was first prescribed (e.g., long-term prophylaxis)
- Residents taking their own medication; Some residents may take their medication (including antimicrobials) themselves. If this is the case in your LTCF for independent residents, the nurse-in-charge should be able to verify this
- No residents on antimicrobials: If <u>none</u> of the LTCF residents are prescribed systemic antimicrobials on the HALT survey date, it is very important to declare this on the institutional questionnaire by recording zero (0) for the statement 'residents receiving at least one antimicrobial agent' in Section B Denominator data.

RESIDENT STUDY NUMBER

PART A: ANTIMICROBIAL USE				
	ANTIMICROBIAL 1	ANTIMICROBIAL 2	ANTIMICROBIAL 3	ANTIMICROBIAL 4
ANTIMICROBIAL NAME				
ADMINISTRATION ROUTE	🗆 Oral] Oral	🗆 Oral	🗆 Oral
	Parenteral	Parenteral	Derenteral	Derenteral
PARENTERAL = IM, IV OR SC	🗆 Other	Other	🗆 Other	Other
END DATE / REVIEW DATE OF	🗆 No 🛛 Yes	🛛 No 🗆 Yes	🗆 No 🛛 Yes	🛛 No 🗌 Yes
TYPE OF TREATMENT	Description Prophylactic	Description Prophylactic	Department Prophylactic	Description Prophylactic
	Therapeutic	Therapeutic	Therapeutic	Therapeutic
ANTIMICROBIAL GIVEN FOR	Urinary tract	Urinary tract	Urinary tract	Urinary tract
	Genital tract	Genital tract	Genital tract	Genital tract
	Skin or wound	Skin or wound	Skin or wound	Skin or wound
	Respiratory tract	Respiratory tract	Respiratory tract	Respiratory tract
	Gastrointestinal	Gastrointestinal	Gastrointestinal	Gastrointestinal
	🗆 Еуе	Eye	🗆 Eye	🗆 Eye
	🗆 Ear, nose, mouth	Ear, nose, mouth	🗆 Ear, nose, mouth	🗆 Ear, nose, mouth
	Surgical site	Surgical site	Surgical site	Surgical site
	Tuberculosis	Tuberculosis	Tuberculosis	Tuberculosis
	Systemic infection	Systemic infection	Systemic infection	Systemic infection
	Unexplained fever	Unexplained fever	Unexplained fever	Unexplained fever
	Other (specify)	Other (specify)	Other (specify)	Other (specify)
WHERE PRESCRIBED?	🗌 In this facility	In this facility	□ In this facility	☐ In this facility
	□ In the hospital	In the hospital	In the hosnital	□ In the hosnital
	Elsewhere	Elsewhere	Elsewhere	Elsewhere

Resident Questionnaire – Antimicrobial treatment data

- 1. Make sure that the resident study number is clearly marked on top-right hand corner of each page
- 2. There is space to record data on up to four separate prescribed systemic antimicrobials
- 3. Write the antimicrobial name clearly, using capital letters and use the generic name of the antimicrobial wherever possible

Questionnaire Item	Explanation
Antimicrobial name	Write the name of the prescribed systemic antimicrobial
	clearly in capital letters
See Appendix E for the antimicrobials used in Ireland,	
listed alphabetically and by administration route	
Administration route	Tick the box which accurately describes the administration
	route of the prescribed antimicrobial:
	 Oral = enteral/tablet/via PEG tube/jejunostomy or NG tube Select this ention for roctal (DB)
	administration which is also enteral route
	 Parenteral = intravenous (IV), intramuscular (IM)
	or subcutaneous (SC)
	Other = inhaled or nebulised
	Antimicrobials given to the patient via the topical route are
	NOT classified as systemic antimicrobials (e.g., creams,
	lotions, ointments) and are not recorded on the resident
End date/review date of treatment known?	Tick the appropriate box 'yes' or 'po'
	The the appropriate box yes of no
	Tick 'yes' only where it is clearly stated in the resident's
	notes or prescription chart that there is an 'end/stop date'
	or 'review date' for the prescribed antimicrobial
Type of treatment	Tick the appropriate box 'prophylactic' or 'therapeutic'
	Deschulantia avecasibing on antimizerabial with the size of
	prophylactic = prescriping an antimicropial with the aim of preventing an infection – The resident had no signs or
	symptoms of an infection on the date the antimicrobial was
	started
	Therapeutic = prescribing an antimicrobial to treat an
	infection – The resident had signs or symptoms of an
	infection on the date the antimicrobial was started
	If it is unclear whether the resident is prescribed
	the antimicrobial for treatment or prophylaxis, go
	back to the date that the antimicrobial was
	prescribed and check to see whether the resident
	had evidence of signs or symptoms of infection
	documented on that date?
	 Check in the resident's medical and nursing notes Check with the generalization releasing to the second secon
	 Cneck with the coordinating physician or general practitionar if the information is still unclear
	 If the antimicrohial was started in the hospital, the
	patient's discharge letter should be checked for
	further information
Antimicrobial given for	From the 11 options provided, tick the box that best describes the part of the body/site for which the antimicrobial was prescribed, either to treat suspected infection (therapy) or to prevent infection from occurring (prophylaxis). If none of the 11 options matches the infection site, specify by writing the site under the final 12 th option 'other'
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Where prescribed?	Tick the appropriate box to describe the place that the antimicrobial was prescribed: In your LTCF In the hospital Elsewhere

2.3.3 Infection data

2.3.3.1 How do I complete Part B of the questionnaire: Healthcare-Associated Infections?

 Part B of the questionnaire is only completed when a resident has an active healthcare-associated infection (HCAI). An infection is active when signs and/or symptoms of the infection are present on the survey date OR signs and/or symptoms were present in the past and the resident is still receiving treatment for that infection on the survey date

2.3.3.2 What is a healthcare-associated infection?

- Any infection that has onset of symptoms and/or signs day three onwards after admission a healthcare facility
- Any infection that was already present/still being treated with systemic antimicrobials on the day of admission to the facility (day 1) or that started on day 2 AND the resident was directly transferred from another healthcare facility or hospital [IMPORTED]
- Any category of surgical site infection (SSI) with a date of onset of signs or symptoms within 30 days of the date of the surgery **OR** any deep incisional or organ/space SSI with a date of onset of signs or symptoms within 90 days of the date of an implant surgery (you need to know the date of the surgery and whether or not an implant was inserted, e.g., prosthetic hip, artificial heart valve, pacemaker etc. to decide this) [IMPORTED]
- Microbiology laboratory test result positive for *Clostridium difficile*, where the diarrhoea onset date occurs within 28 days of the discharge date from another healthcare facility or hospital (you need to know the date of the positive laboratory test and date of discharge/transfer from the other healthcare facility to your facility to decide this) [IMPORTED]

2.3.3.3 How will I know if the resident has a healthcare-associated infection?

- For the first time, the 2016 HALT survey is collecting information about ALL types of HCAI:
- 1. Infection acquired in the long-term care facility (this has been collected in every HALT survey) An infection which begins day three onwards following admission to the LTCF
- 2. Infection acquired in the hospital and for which antimicrobial treatment was started in the hospital, but the resident was discharged to the long-term care facility before the treatment course finished (this is new information to collect for HALT 2016)
- 3. For the resident who was recently admitted to the hospital and discharged back to the long-term care facility, certain infections may still be associated with the hospital (surgical site infection or C. difficile infection) but may not become evident until after the resident has returned to their LTCF (this is new information to collect for HALT 2016)
- If the resident is prescribed a systemic antimicrobial, you will already have completed Part A of the resident questionnaire. Check what you selected for the section 'Type of treatment'. If you have ticked the option 'Therapeutic', this means that your resident is prescribed an antimicrobial for treatment of infection: You will now need to further evaluate the resident and decide whether the infection could be a healthcare-associated infection (i.e., acquired in your facility or acquired in another facility, whereby the resident arrived into your facility already on the antimicrobial treatment which was started in the hospital or other long-term care facility)
- If the resident was recently admitted to your facility directly from the community, or recently returned to your facility from a holiday and was already prescribed an antimicrobial for treatment by his/her GP and that treatment continues in your facility on the survey date, this is probably for a communityacquired infection and the resident won't be categorised as a HCAI. The HALT survey is not capturing information on community-acquired infections
- If you think the resident has a healthcare-associated infection which was acquired in the hospital OR the resident has developed signs and/or symptoms of a surgical site infection within a certain timeframe after date of surgery in the hospital OR has had onset of diarrhoea and microbiology laboratory test positive for *Clostridium difficile* infection within 28 days of the date of discharge from the hospital, you should contact the HALT team to discuss the scenario and advice will be provided on how to proceed; HALT@hpsc.ie
- If the resident is not prescribed any systemic antimicrobial OR is only prescribed a systemic antimicrobial for 'Prophylactic' type of treatment, you will still need to check with the resident's nurse and review the resident's medical, nursing and observation records to decide whether the resident

currently has any signs or symptoms of infection. This is important, because not every resident with a HCAI will already be on an antimicrobial treatment (e.g., the signs and symptoms may just have started today and there's not yet been time for the doctor to review the resident and start antimicrobial treatment **OR** the resident has a viral infection (e.g., common cold, influenza or viral gastroenteritis) for which antimicrobials would not be indicated

- If you think the resident might have a HCAI, look at the information recorded about the signs and symptoms on the survey date and also go back to review the recorded information about signs and symptoms on the date that the antimicrobial therapy was started. Tick the matching boxes in the case definition algorithms on page 3 8 of the resident questionnaire, starting with the infection type that best fits with your resident's signs and symptoms
- Record all signs and symptoms and follow the relevant algorithm(s) to the end. This may involve checking the results of relevant investigations (e.g., chest x-ray report for a resident with suspected lower respiratory tract infection or urine culture report for resident with suspected UTI)
- If all the criteria for a HCAI are met, proceed to the shaded box 'INFECTION CONFIRMATION' and tick the first box 'Infection criteria fully met: INFECTION CONFIRMED' for that resident. Note that the UTI case definition has two options INFECTION CONFIRMED (UTI-C) or INFECTION PROBABLE (UTI-P). Next, you will transcribe the relevant infection code back into Part B on page 2 of the resident questionnaire
- In the scenario whereby the resident was discharged from the hospital to the LTCF, finishing off a course of systemic antimicrobial treatment for a hospital-acquired infection, you may not have access to all of the symptoms and signs information which were evident and documented in the hospital chart on the date that the antimicrobial was started. You should review the resident's hospital discharge letter and decide what infection type/body site is being treated. In this scenario, you may proceed to the shaded box 'INFECTION CONFIRMATION' and tick the second box 'Infection treated on PPS day, but no documentation of signs/symptoms: INFECTION IMPORTED' for that resident. Next, you will transcribe the relevant infection code (ends with –I) back into Part B on page 2 of the resident questionnaire. Remember, you are only permitted to select the INFECTION IMPORTED option for an infection which was acquired in another facility or hospital & where you have no information on symptoms/signs
- If the resident has signs and symptoms on the survey date or had signs and symptoms on the date that antimicrobial therapy was started, you will tick off the relevant boxes in the case definition algorithms on pages 3 8 of the resident questionnaire. If the resident does not meet all of the required criteria for that HCAI, you cannot proceed to complete the shaded box INFECTION CONFIRMATION and you will not record that resident as having that HCAI, because although they have some signs and

symptoms they do not meet the criteria for INFECTION CONFIRMATION. If you decide that no infection criteria have been met by the resident, write **'HCAI not present'** clearly on the top of page one of the resident questionnaire. Later on, when you enter the data on resident questionnaires into the HALT software, it will be obvious that although the resident had signs and symptoms recorded, ultimately a HCAI was not present.

	Infection Group	Infection Name			
1	Urinary tract infections	1. UTI in a resident without a urinary catheter			
	(UTI)	2. UTI in a resident with a urinary catheter			
2	Respiratory tract	1. Common cold (pharyngitis)			
	infections (RTI)	2. Flu (influenza)			
		3. Lower respiratory tract infection in a resident with a positive chest x-ray,			
		reporting the presence of a new infiltrate (pneumonia)			
		4. Lower respiratory tract infection in a resident who has either not had a chest x-			
		ray OR the chest x-ray result does not confirm presence of a new infiltrate			
3	Skin infections	1. Cellulitis/soft tissue/wound infections			
		2. Scabies			
		3. Herpes simplex (cold sore) or herpes zoster (shingles/chickenpox/varicella)			
		infection			
		4. Fungal skin infection (e.g., ringworm, tinea)			
4	Surgical site infections	1. Superficial incisional SSI			
	(SSI)	2. Deep incisional SSI			
		3. Organ/space SSI			
5	Eye, ear, nose and	1. Conjunctivitis			
	mouth infections	2. Ear infection			
		3. Sinusitis			
		4. Oral candidiasis (thrush)			
6	Gastrointestinal	1. Gastroenteritis			
	infections	2. Clostridium difficile infection (CDI)			
7	Bloodstream infections	Resident with a positive blood culture result			
8	Unexplained fever	Resident meets the definition for fever and the fever is documented on ≥ 2 occasions at			
		least 12 hours apart in any three-day period and there is no known cause for the			
		resident's fever (either infectious or non-infectious)			
9	Other infection(s)	Handwritten description of the resident's infection site, where none of the other infection			
		options on the form apply to that resident			

2.3.3.4 What is an active HCAI?

- A HCAI is active when signs and symptoms of infection are present on the survey date OR signs and symptoms of infection were present in the past and the resident continues to receive systemic antimicrobial therapy for that infection
- If the resident is prescribed a systemic antimicrobial(s) and it is not clear whether the reason for the prescription is therapeutic (treatment of infection) or prophylactic (prevention of infection), go back to the date that the antimicrobial was first prescribed and check for documentation of symptoms or signs of infection on that date. For antimicrobials prescribed more than 14 days ago, go back a maximum of 14 days to look for documentation of signs or symptoms of infection. If there are signs and symptoms documented, proceed to tick them off on the relevant infection case definition algorithms on pages 3 – 8 of the resident questionnaire

2.3.3.5 How do I decide if a resident's chronic signs and symptoms are due to infection and not because of another reason (i.e. non-infectious cause)?

Many residents may have chronic signs or symptoms (productive cough, shortness of breath, urinary urgency etc.), which may be as a result of an underlying disease (emphysema, bronchitis, uterine prolapse etc.). For chronic signs and symptoms to be potentially related to an active HCAI, there must be **some evidence that those chronic signs and symptoms have become acutely worse** for that resident (i.e., patient with chronic productive cough, has an acute increase in cough and sputum/phlegm production).

Make sure to check for evidence of all signs and symptoms and to document them where they occur. By following the algorithms for each infection type, you will then be able to decide if the resident meets the definition for that particular infection.

- Fever: 1) single > 37.8°C oral/tympanic membrane or 2) repeated > 37.2°C oral or > 37.5°C rectal or 3) > 1.1°C over baseline from any site (oral, tympanic, axillary)
- ** Leucocytosis: 1) Neutrophilia > 14,000 leucocytes/mm³ or 2) left shift (>6% bands or ≥ 1500 bands/mm³)
- § Acute change in mental status from baseline: Acute onset + fluctuating course + inattention AND either disorganized thinking or altered level of consciousness
- §§ Acute functional decline: New 3 point increase in total ADL score (Range 0-28) from baseline based on 7 ADL items (bed mobility, transfer, locomotion, dressing, toilet use, personal hygiene, eating) each scored from 0 (independent) 4 (total dependence) OR increased dependency defined by scales other than ADL

2.3.3.6 What is the definition of fever for the HALT survey?

In the HALT survey, fever is defined as <u>any one</u> of the following:

- Single/One oral/tympanic membrane temperature reading which is >37.8°C
- Repeated oral temperature readings which are >37.2^oC
- Repeated rectal temperature readings which are >37.5^oC
- An increase in temperature reading from any site (tympanic/oral/rectal/axillary), which is >1.1°C above the baseline reading for that site

If the resident meets <u>one</u> of the criteria above for fever, then that sign can be ticked on the resident questionnaire.

2.3.3.7 What is the definition of leucocytosis for the HALT survey?

In the HALT survey, leucocytosis means an elevated white blood cell count (WCC). For this to be counted as a sign, <u>the resident must have had a full blood count (FBC) taken</u> around the time that other signs and symptoms developed. Do not count results of WCC that were taken prior to onset of signs and symptoms.

- If the resident's WCC >14, this is leucocytosis and that sign can be ticked on the resident questionnaire
- If the haematology laboratory report mentions a 'left shift' (>6% bands or ≥1500 bands/mm³, the resident has leucocytosis
- Please note that the presence of leucocytes/white cells on urine dipstick analysis or urine culture report from the microbiology laboratory is not the same as leucocytosis, which refers to white cells in blood

2.3.3.8 What is the definition of an acute change in mental status from baseline for the HALT survey?

In the HALT survey, a resident has an acute change in mental status from baseline when **ALL** of the following criteria have been met:

- 1. Acute onset
- 2. Fluctuating course
- 3. Inattention
- 4. Altered level of consciousness **OR** disorganised thinking

2.3.3.9 What is the definition of an acute functional decline for the HALT survey?

In the HALT survey, an acute functional decline is present if the resident has a **new** three point increase in the activities of daily living (ADL) score from the baseline score for that resident. Alternatively, an acute functional decline can be present if there is increased dependency, as defined by whatever scale/scoring system is traditionally used in the LTCF (e.g., Barthel score).

2.3.3.10 Urinary tract infections (UTI)

URINARY TRACT INFECTIONS



Signs and symptoms of an infection – Urinary tract infections

- A urinary tract infection can be an infection of the kidney, bladder, prostate or urethra
- The starting point is whether or not the resident has a urinary catheter, which is defined as any tube system placed in the body to drain and collect urine from the bladder (e.g., indwelling urethral catheter, suprapubic catheter) Tick the appropriate box and proceed along the relevant algorithm
 The costovertebral angle is also known as renal angle and relates to the back between the 12th
- lowermost rib where it joins up with the spine
- The suprapubic area is found just above the pubic bone or pubis
- Once the signs and symptoms have been recorded, check for results of urine culture

2.3.3.11 Common cold or pharyngitis

COMMON COLD or PHARYNGITIS										
AT	AT LEAST TWO OF THE FOLLOWING CRITERIA									
	 Runny nose or sneezing Stuffy nose (i.e. congestion) Sore throat or hoarseness or difficulty in swallowing Dry courts 									
	Swollen or tender glands in the neck (cervical lymphadenopathy)									
INF	ECTION CONFIRMATION									
	Infection criteria fully met: INFECTION CONFIRMED (= COLD-C)									
□ Infection treated on PPS day but no documentation of signs/symptoms: INFECTION IMPORTED (hospital or other LTCF only) (= COLD-I)										

Signs and symptoms of an infection – Common cold or pharyngitis

- Ensure the resident has at least two of the listed criteria for confirmation of the infection
- Lymphadenopathy refers to swollen or enlarged lymph glands

2.3.3.12 Flu or influenza virus infection



Signs and symptoms of an infection – Flu or influenza virus infection

 The resident must meet the criteria for having a fever PLUS the resident must have at least three of the listed criteria for confirmation of the infection





Signs and symptoms of an infection – Lower respiratory tract infections

- The starting point is whether or not the resident has had a chest x-ray and what was stated in the chest x-ray report:
- If the resident has had a chest x-ray, with findings reported as consistent with pneumonia or as having a new infiltrate proceed along Algorithm A. To confirm pneumonia, the resident must also have at least one sign or symptom linking the infection to the respiratory tract PLUS one or more constitutional signs/symptoms (refer to top of page 3 of resident questionnaire for definitions)
- If the resident has not had a chest x-ray or the chest x-ray was reported as clear or having no infiltrates consistent with pneumonia – proceed along Algorithm B. To confirm that the resident has an 'other lower respiratory tract infection', the resident must have at least two signs or symptoms linking the infection to the respiratory tract PLUS one or more constitutional signs/symptoms
- Do not confuse the production of sputum or phlegm, which is coughed up from the lower respiratory tract with the production of saliva or spit, which is produced by the upper gastrointestinal tract
- Pleuritic chest pain refers to pain which tends to occur when the patient inhales or breathes air inwards
- If the resident has chronic lung disease (e.g., COPD or bronchiectesis) or chronic heart failure, those conditions may be a reason for an abnormal chest x-ray report. If in doubt, seek further clarification from the resident's doctor

2.3.3.14 Cellulitis/soft tissue/wound infections



NOTE:

If the infection matches one of the Surgical Site Infection (SSI) definitions, please give priority to the SSI. Do not apply another case definition for the same infection.

Signs and symptoms of an infection – Cellulitis/soft tissue/wound infections

- Patients with infection of traumatic wounds, device exit sites or chronic ulcers should be categorised using the cellulitis/soft tissue/wound infection category
- In HALT 2016, a new category of infection surgical site infection is included. Any infection of a surgical wound that meets the surgical site infection definition should take priority over the cellulitis/soft tissue/wound infection category
- Where a resident meets two separate HCAI case definitions related to a surgical wound, the
 potentially more severe infection type should be selected (SSI instead of cellulitis/soft tissue/wound).
 Don't categorise the same patient as meeting two different case definitions for the same infection
- To meet this infection definition, a resident must have either pus at the site **OR** at least four new signs/symptoms at the site

2.3.3.15 Scabies



Signs and symptoms of an infection – Scabies

- A resident must have maculopapular rash, which is a rash characterised by spots and bumps and the rash may or may not be itchy **PLUS** at least one of the three listed criteria for confirmation of the infection
- Epidemiological linkage means that this resident with suspected scabies was in contact with another resident who was confirmed by the microbiology laboratory to have a scabies infection

2.3.3.16 Herpes simplex (cold sore) or herpes zoster (shingles or chickenpox or

varicella) infection



Signs and symptoms of an infection – Herpes simplex (cold sore) or herpes zoster (shingles or chickenpox) infection

 A resident must have a characteristic vesicular/blistering rash AND the doctor makes a clinical diagnosis

2.3.3.17 Fungal skin infection



Signs and symptoms of an infection – Fungal skin infection

- A resident must have a characteristic rash consistent with a fungal skin infection AND EITHER the doctor makes a clinical diagnosis of ringworm or tinea OR the laboratory reports that fungi/dermatophytes (e.g., Trichophyton species, Microsporum species, Epidermophyton species) have been isolated from skin scrapings or skin biopsy
- If the patient has oral candidiasis/oral thrush, the case definition algorithm is on page 7 of the resident questionnaire

2.3.3.18 Surgical site infections

SURGICAL SITE INFECTIONS



Signs and symptoms of an infection – Surgical site infection (SSI)

- Surgical site infections (SSI) usually occur at the site of a surgical wound/incision that was created during
 an operation. They may be further classified by the depth or extent of the infection: A superficial infection
 involves uppermost layers of the wound/incision (skin and subcutaneous tissue), whereas a deep infection
 involves soft tissue below the skin and subcutaneous tissue. An organ/space SSI is related to the surgical
 procedure, but occurs internally, so it might not be visible at the superficial or deep layers of the incision
- Residents who have the more extensive SSI types (deep incisional and organ/space) will normally require readmission to hospital for management of those infections, because intravenous antimicrobials, wound debridement, drainage of abscess or further surgery could be required
- Residents with superficial SSI usually respond to antimicrobial treatment alone. Therefore, they may be managed by their GP, LTCF doctor or by the hospital team who reviews the resident back in the outpatient department
- If you think the resident might have a SSI, in order to categorise the infection correctly, you will need to know the following information:
 - $\circ \quad \text{The date of the surgery} \\$
 - \circ $\;$ The date the signs and/or symptoms of surgical site infection started $\;$
 - Whether the surgical procedure involved the insertion of an implant (e.g., artificial/prosthetic joint replacement, prosthetic tissue/metal heart valve, permanent pacemaker insertion, implantable cardiac defibrillator insertion, hernia repair with mesh insertion, ventriculoperitoneal (VP) shunt insertion etc.)
 - If no implant was inserted during the surgical procedure, the resident can only meet a SSI case definition if the symptoms and/signs of SSI begin within 30 days of the date of the surgery. If the symptoms and/or signs begin >30 days after the date of the surgical procedure, go to the cellulitis/soft tissue/wound infection algorithm on page 5 of the resident questionnaire and see if the resident's symptoms and/or signs meet the criteria for that case definition
 - If an implant was inserted during the surgical procedure, the resident may meet a SSI case definition for any SSI category up to 30 days after the date of surgery and for deep incisional and organ/space SSI up to 90 days after the date of surgery. If the resident has had implant surgery and develops symptoms and/or signs of a superficial SSI that begin >30 days after the date of the surgical procedure, go to the cellulitis/soft tissue/wound infection algorithm on page 5 of the resident questionnaire and see if the resident's symptoms and/or signs meet the case definition
 - Please note, if the resident fulfils all the necessary criteria for a SSI, that will take priority over the cellulitis/soft tissue/wound infection case definition
- If you think a resident has a SSI, please contact the HALT national coordinating team via e-mail <u>HALT@hpsc.ie</u> for help to work your way through the algorithm

2.3.3.19 Conjunctivitis



Signs and symptoms of an infection – Conjunctivitis

- A resident must not have evidence or diagnosis of allergy or trauma to the affected eye
- A resident must meet one of the three listed criteria to meet the diagnosis
- Conjunctival erythema refers to redness of the mucous membrane that lines the eyelid

2.3.3.20 Ear infection



Signs and symptoms of an infection – Ear infection

A resident must meet one of the two listed criteria to be diagnosed with an ear infection

2.3.3.21 Sinusitis



Signs and symptoms of an infection – Sinusitis

 If a doctor has diagnosed the resident with sinusitis, that is sufficient to confirm the diagnosis and no other signs or symptoms are recorded

2.3.3.22 Oral candidiasis or thrush



Signs and symptoms of an infection – Oral candidiasis or thrush
 A resident must meet both of the listed criteria to be diagnosed with oral candidiasis/thrush

2.3.3.23 Gastroenteritis



Signs and symptoms of an infection – Gastroenteritis

- A resident must meet the signs or symptoms in one of the three listed groups of criteria
- Check whether the resident had a faeces/stool specimen sent to the laboratory at the time of symptom onset and if yes, check what the result was – If the faeces specimen was positive for *Clostridium difficile* – the patient is classified as having *Clostridium difficile* infection, so choose that instead

2.3.3.24 Clostridium difficile infection (CDI)



Signs and symptoms of an infection – Clostridium difficile infection (CDI)

- A resident must meet both of the criteria as listed above to be diagnosed with CDI
- Toxic megacolon may be an indicator of severe CDI and represents dilation of the colon which is usually diagnosed on a plain film abdominal x-ray
- If a resident does not have a positive faeces result for *Clostridium difficile*, the only other way this
 infection can be confirmed is if the resident had a colonoscopy or a surgical procedure which
 confirmed that characteristic pseudomembranous colitis was present

2.3.3.25 Bloodstream infection

BLOODSTREAM INFECTIONS



Signs and symptoms of an infection – Bloodstream infection

- To meet this definition, the resident MUST have had blood cultures taken and positive blood cultures reported by the microbiology laboratory
- If the resident has two different blood culture sets positive with the same microorganism named on the report of both sets, this is a bloodstream infection and there is no need to record any symptoms or signs for confirmation
- If the resident has just one single blood culture set positive and the result is deemed to be clinically significant, the resident must have at least one of the three listed signs
- If you need further assistance with interpreting the results of positive blood cultures, please contact the HALT national coordinating team: <u>HALT@hpsc.ie</u>

2.3.3.26 Unexplained fever

UNEXPLAINED FEVER



2.3.3.27 Other infection(s)

OTHER INFECTION(S)

Please specify (= OTHER)

Signs and symptoms of an infection – Other infection(s)

- This should only be completed in the event that the doctor has diagnosed the resident with an infection which is not listed in any of the infection categories on pages 3 8 of the resident questionnaire
- Write clearly in black ink the name of the infection type & use the code 'OTHER' in Part B: Healthcareassociated infections on page 2 of the resident questionnaire and specify the site writing in free text underneath

PART B: HEALTHCARE-ASSOCIATED INFECTIONS							
		INFECTION 1	INFECTION 2	INFECTION 3	INFECTION 4		
INFECTION CODE							
IF 'OTHER', PLEAS	E SPECIFY						
PRESENT AT (RE-)ADM	ISSION	🗆 No 🛛 Yes	🗆 No 🗆 Yes	🗆 No 🗆 Yes	🗆 No 🗆 Yes		
DATE OF ONSET (DD/N	IM/YY)	\Box	டப/பப/பப	····/····/····	····/····/····		
ORIGIN OF INFECTION		Current LTCF	Current LTCF	Current LTCF	Current LTCF		
		Other LTCF	Other LTCF	Other LTCF	Other LTCF		
		Hospital	Hospital	Hospital	Hospital		
		Unknown	Unknown	Unknown	Unknown		
A. NAME OF ISOLATED	1. A						
MICROORGANISM (PLEASE USE CODE LIST)	в						
B. TESTED							
ANTIMICROBIAL(S)	2. A						
ONLY FOR STAAUR,	в						
ENC ^{***} , ACIBAU, PSEAER OR							
ENTEROBACTERIACEAE	3. A						
ESCCOL, KLE***,	в						
SER***)							

2.3.4 Healthcare-associated infection data

[•]Tested antibiotic(s): STAAUR: oxacillin (OXA) or glycopeptides (GLY); ENC***: GLY only; Enterobacteriaceae: 3rd-gen cephalosporins (C3G) or carbapenems (CAR); PSEAER and ACIBAU: CAR only. ² Resistance: S=sensitive, I=intermediate, R=resistant, U=unknown

HALT-3 Resident questionnaire 2016 - 2017

2

Resident Questionnaire – Healthcare-associated infections data

- Make sure that the resident study number is clearly marked on top-right hand corner of each page
- There is space to record data on up to <u>four separate HCAI types in Part B (page 2)</u>
- Write clearly, using capital letters

Questionnaire Item	Explanation
Infection code	Go to the relevant HCAI case definition for which the
	resident met all of the required criteria and check the
	code for that infection which you will find in the
	shaded box
	Transcribe the code in the shaded box in to this
	section 'Infection Code'
	You should only select a code that ends with (-I) which
	represents IMPORTED infection when the infection
	was acquired in the hospital or in another LTCF
If 'OTHER', please specify	Having carefully worked through all of the case
	definition algorithms on pages 3 – 8 of the resident
	questionnaire and you have not been able to find a
	case definition to match the HCAI with which the
	resident is diagnosed, you should have written
	'OTHER' in the Infection Code section and next, you
	should write the site of the infection in this section

Present at (re)admission	 Tick the appropriate box 'no' or 'yes' Select 'yes' if the resident's symptoms and/or signs of the HCAI were already evident on the date the resident was admitted to or transferred back (readmitted) to your facility Select 'yes' if the resident was already on antimicrobial treatment, prescribed in the hospital or other facility to treat the HCAI and that treatment continued on the date the resident was admitted) to your facility Select 'no' if the symptoms and/or signs began after the resident was admitted to or transferred back (readmitted) to your facility Select 'no' if the antimicrobial treatment for the HCAI commenced after the resident was admitted to your
Date of onset	facility If you answered 'yes; for the last question 'Present at
Ovigin of the infection	(re)admission', you can leave this answer blank If you answered 'no' for the last question 'Present at (re)admission?', write the date that the resident's symptoms and/or signs of this HCAI started – You need to review the resident's medical, nursing and observation records to decide the date of onset. If you still can't determine the date of onset from review of records, you could use the date that the antimicrobial treatment was started for the HCAI as the date of onset OR if the resident is not prescribed an antimicrobial (e.g., the HCAI is due to a virus where antimicrobials are not indicated), you could use the date that a relevant specimen was sent to the microbiology laboratory If you still can't determine the exact date from review of the records, the resident is not on an antimicrobial and did not have a specimen sent to the laboratory, you should estimate the date of onset for the HCAI
Origin of the infection	Select the option that best fits the place where the resident acquired this HCAI: Current LTCF = your facility : This will be the right option for the vast majority of residents Other LTCF = You can only use this option when the resident was transferred to your facility from a
	different LTCF and had symptoms and/or signs of a HCAI on the date of admission (day 1) or developed them on day 2 OR where the resident arrived into your facility already on antimicrobial treatment for a HCAI acquired in another LCTF. Remember if the HCAI you have chosen is laboratory-confirmed <i>Clostridium</i> <i>difficile</i> infection, you should discuss the case with the HALT national coordinating team: e-mail <u>HALT@hpsc.ie</u>
	Hospital = You can only use this option when the resident was admitted or transferred back to your

	facility from the hospital and had symptoms and/or signs of a HCAI on the date of admission (day 1) or developed them on day 2 OR where the resident arrived into your facility already on antimicrobial treatment for a HCAI acquired the hospital. Remember if the HCAI you have chosen is laboratory- confirmed <i>Clostridium difficile</i> infection or a surgical site infection, you should discuss the case with the HALT national coordinating team: e-mail <u>HALT@hpsc.ie</u>
	Unknown = You should only select this option once you have discussed the case with the HALT national coordinating team and it has been determined that it is not possible to determine where the resident acquired their HCAI
Name of isolated microorganism	Go to section 2.4.1 Algorithm 1 and follow the instructions:
	 If no microbiology specimen was taken from the resident – write NOEXA = examination not done
	 If a microbiology specimen was taken from the resident, but the report has not yet come back from the microbiology laboratory – write NA = results not available
	 If a microbiology specimen was taken from the resident, but the microbiology laboratory report cannot be found or is missing – write NA = results not available
	 If a microbiology specimen was taken from the resident and the microbiology report has been received, look at the result on the report:
	If no microorganisms were isolated from the specimen (e.g., reported as 'no growth' or 'pathogens not isolated' or 'sterile culture' etc.) - write STERI = sterile examination
	If microorganisms were isolated from the specimen but they have not been fully identified to species level (e.g., reported as 'mixed growth') – write NONID = microorganism not identified
See Appendix F for the microorganism code list, listed alphabetically	If microorganisms were isolated from the specimen and fully identified to species level – go to section 2.4.2 Algorithm 2 and Appendix F and look for the name of the microorganism, as written on the microbiology report in the code list:
	 When you find the microorganism – take note of the corresponding code for that microorganism. The code is written on the

	left hand side of the code list – write the
	\circ If there is more than one microorganism
	named on the microbiology report:
	 Write the code for the first microorganism on
	the line 1A
	Write the code for the second microorganism
	on the line 2A
	Write the code for the third microorganism
	on the line 3A
Tested antimicrobial(s) and resistance	This question is ONLY answered if the following TWO
	criteria are true:
See Appendix F for the microorganism code list,	 The resident has had a positive microbiology
listed alphabetically	culture result with named microorganisms on
	the laboratory report
	AND
	 When you look up the name of the
	microorganism in Appendix F, the row for
	that microorganism is HIGHLIGHTED IN RED
	If the microorganism named on the microbiology
	report is highlighted on red in Appendix E you need
	to follow the instructions on Algorithm 2 and go to the
	relevant subsequent algorithm for further instructions
	If the microorganism is not highlighted in red in
	Appendix F, leave section B blank
	Contact the HALT national coordinating team if you
	require any assistance with coding microorganisms
	and interpreting microbiology laboratory reports:
	HALT@hpsc.ie

2.3.4.1 Algorithm 1: Completion of isolated microorganisms section





2.3.4.2: Algorithm 2: When microbiology report names microorganisms

Algorithm 2: When microbiology laboratory report names microorganisms



2.3.4.3 Algorithm 3: Microorganism on report is S. aureus

Algorithm 3a: Staphylococcus aureus



These three names are interchangeable: Oxacillin = Flucloxacillin = Meticillin

A. NAME OF	1.A ISTAAUR		STAAUR	STAAN	
MICROORGANISM		DIXA	DIXIA B	DIX A M	

Algorithm 3b: Staphylococcus aureus



These three names are interchangeable: Glycopeptide = Vancomycin = Teicoplanin

A. NAME OF	1. A	STAAUR	STAAUR	STAAN
MICROORGANISM		DXA S	DIXIA B	DIX A M
(PLEASE USE CODE LIST) B. TESTED	в	GLIGI M	GILIGI in	Guery W

2.3.4.4 Algorithm 4: Microorganism on report is Enterococcus

Algorithm 4: Enterococci



These three names are interchangeable: Glycopeptide = Vancomycin = Teicoplanin

A. NAME OF ISOLATED	1. A	ENCFAE	ENGFAE	ENCFAE	ENLFAE
MICROORGANISM (PLEASE USE CODE LIST)	в	GLY S	Girig B	GLY I	Giliyi W
A. NAME OF	1. A	ENCFAIL	ENICIFIAIT	ENCFIBIT	ENCFAIT
MICROORGANISM	в	GLUY SI	BILLY B	gilig I	Guy a

2.3.4.5 Algorithm 5: Microorganism on report has a star beside it in Appendix F



		a me and a construction of the second s			A CONTRACTOR OF THE PARTY	1			
A. NAME OF	1. A	ESCO14	ESCCOL	ESIGOL	$e_1c_1c_1c_1o_1c_1$	A. NAME OF	1. A	KILEPNE	KLEPNE
MICROORGANISM	100	1539 S	CIZIGI R	CI319 II	പ്രാംപ്ര പ്ര	MICROORGANISM		<u>C30</u> S	CIZG R

Algorithm 5b: Enterobacteriaceae 📌



i and a second se				A company of the local division of the second second		Concession of the local division of the loca	Contraction of the local division of the loc						and the second se				
A. NAME OF	1. A	ESGOL		ESCOUL		ESCOL ESCO		1014	651001		A. NAME OF	1.A KILIEIPINE		KILEPINE			
MICROORGANISM (PLEASE USE CODE LIST)	в	CBB I	S	CAR	R	CAR	L	LUBIEN ICIAIRI	<u>ill</u>	MICROORGANISM (PLEASE USE CODE LIST)	в	CAR	S S	CAR	R		
B TESTED		Laire a		LT B IST	6		-	in the second		B. TESTED			-				

Algorithm 6: Pseudomonas aeruginosa



A. NAME OF	1. A	PISEARER	PISEABER	PISIERIGR	PISEAER		
MICROORGANISM		CAR SI	LAR R	LAR I	CIAR M		

Algorithm 7: Acinetobacter baumanii



1			A CONTRACTOR OF A CONTRACTOR O		The second		
A. NAME OF ISOLATED	1. A	AKITIBIAM	ALLIZIBAN	ALLIBAM	AUGULIZIAN		
MICROORGANISM (PLEASE USE CODE UST)	в	CAR IS	CAR R	LAR I	LIAR U		

2.4 I have completed the data collection on the ward/unit – What's next?

- 1. Check each of the completed resident questionnaires and make sure that they are properly labelled, with each resident's study number and that all of the sections have been correctly completed
- 2. For residents with symptoms or signs recorded, check whether the infection confirmation box has been ticked
- 3. If a resident had symptoms or signs recorded, but did not ultimately meet the criteria for infection confirmation, write **'HCAI not present'** clearly on the top of page 1 of the resident questionnaire. This will make life easier later on, when you go to enter the data on resident questionnaires into the HALT software, because it will be obvious that although the resident had signs and symptoms recorded, ultimately the criteria for the HCAI in question were not all fulfilled
- 4. Keep the completed ward list and resident questionnaires from the same ward/unit together in a folder until you are ready to begin the data entry using the HALT software

2.5 I have completed all of the data collection for my LTCF – What's next?

- 1. Gather up all the folders containing the completed ward lists and resident questionnaires for your LTCF
- 2. Add up the information recorded in the summary tables on each completed ward list to complete Section B Denominator Data on the Institutional Questionnaire
- 3. Complete Institutional Questionnaire Section F 'How was the survey performed in your facility'
- 4. Go to the **HALT Data Entry Manual** for further instructions on how to enter your data into the software and how to submit your completed data to HPSC

3.0 APPENDICES

Appendix A: HALT 2016 (Ireland) steering group membership

- Dr Karen Burns, Consultant Microbiologist, HSE-HPSC & Beaumont Hospital (Chair)
- Ms Helen Murphy, Infection Prevention & Control Nurse Manager, HSE-HPSC
- Ms Margaret Nadin, Project Manager, HSE NMPDU, Dublin-North East
- Ms Mary McKenna, Lead Infection Prevention & Control ADON, HSE HCAI & AMR Clinical Programme, Quality Improvement Division
- Ms Grainne Parker, Communicable Disease Control Nurse, Public Health Department, HSE South (South East)
- Ms Mags Moran, Community Infection Control Nurse Manager, Donegal Community Services, HSE West
- Dr Nuala O'Connor, General Practitioner & ICGP Lead HSE HCAI & AMR Clinical Programme, Quality Improvement Division
- Dr Diarmuid O'Shea, Consultant Geriatrician, St Vincent's University Hospital & HSE Clinical Programme for Older People, Clinical Lead
- Dr Mimi Fan, Consultant Geriatrician, Mater Hospital, Irish Society for Physicians in Geriatric Medicine
- Ms Fiona McMahon, Project Manager, HSE NMPDU Mid-West/ONMSD
- Mr Gerry Clerkin, Head of Quality & Safety, HSE Social Care Division
- Ms Linda Moore, Quality, Standards & Compliance Officer, HSE National Mental Health Division
- Ms Lisa Malone, Practice Development Facilitator, Nursing Homes Ireland
- Dr Fidelma Fitzpatrick, Consultant Microbiologist, Beaumont Hospital & Senior Lecturer in Microbiology, RCSI
- Dr Fiona Roche, Trinity College Dublin, Bioinformatics Support Research Fellow
- Dr Ian Callanan, Group Clinical Audit Facilitator, St Vincent's Healthcare Group
- Dr Akke Vellinga, Senior Lecturer & Epidemiologist, School of Medicine, NUI Galway
- Ms Sheila Donlon, ADON Infection Prevention & Control Department, Beaumont Hospital
- Mr Sean Egan, Regulatory Lead for Antimicrobial Stewardship, Health Information & Quality Authority
- Ms Meera Tandan, PhD student, NUI Galway
- Ms Rita Torrans, Community Pharmacist, Abbey Healthcare, Irish Pharmaceutical Union
- Ms Josephine Galway, Director of Nursing, St Columba's Hospital & Castlecomer District Hospital, Irish Association of Directors of Nursing & Midwifery

The HALT 2016 Steering Group has been convened under the auspices of the Royal College of Physicians of Ireland & Health Service Executive Clinical Advisory Group on Healthcare-Associated Infections & Antimicrobial Resistance

Appendix B: Institutional questionnaire

Healthcare-associated infections a	and antimicrobial use		RESIDENTS USING A WHEELCHAIR OR BEDRIDDEN	
ecoc in European long-term care fo	acilities (HALT-3)		RESIDENTS WITH SURGERY IN THE PREVIOUS 3D DAYS	
INSTITUTIONAL QUEST	IONNAIRE		RESIDENTS WITH URINARY AND/OR FAECAL INCONTINENCE	
Armark: It is essential that each facility enrolled in HALT-3 compl	letes this questionnaire	as it collects vital data. We	C - MEDICAL CARE AND COORDINA	TION
answer some of the questions or locate the relevant information,	they should request a	sistance from persons who		
are able to answer those questions. This is especially relevant for o	puestions relating to an	timicrobial policy.	1. Is medical resident care, including antimicrobial prescribing, in the fi	scility provided by the:
A – GENERAL INFORM			Personal general practitioners (OP) or group practice(s) only	
			Medical staff, employed by the facility only	
DATE OF THE SURVEY IN YOUR FACILITY		01	Both personal GPs/group practice(s) and medical doctor(s) en	nployed by the facility
FACILITY STUDY NUMBER (allotted by your national HALT-3 coordin	ator)		2. Are medical activities in the facility coordinated by a coordinating m	edical physician (CP)?
OWNERSHIP OF THE FACILITY Deble	For profit	Not for profit	No, there is no internal or external coordination of the medica	a activity
QUALIFIED NURSING CARE AVAILABLE 24/24h IN THE FACILITY	D New	No No	Yes, there is a physician from inside the facility (internal) who No. Yes, there is a physician from ordered the facility (internal)	coordinates the medical activities
IN THE FACILITY:			Ver, there is both a physician from outside the facility (external) we	its (internal and external) who
Total number of FTE REGISTERED NURSES		registered surges	coordinates the medical activities	ay tour one and enterouty who
Total number of FTE NURSING ASSISTANTS		nursing assistants	3. Can any of the following persons consult the medical/clinical record	of all residents in the facility?
Total number of RESIDENT ROOMS		2714	The physician(s) in charge of medical coordination in the facility?	
Total number of SIMPLE OCCUPANCY RESIDENT ROOMS		ale occupancy cooms	The nursing staff	Ver No
Total number of annual occurrence response into				
INDIVIDUAL TOILET AND WASHING FACILITIES	toil	et and washing facilities	D - INFECTION CONTROL PRACTIC	Œ
B - DENOMINATOR	DATA	et and washing facilities	D - INFECTION CONTROL PRACTIO	eE able to the staff of the facility?
B – DENOMINATOR	toll DATA ach word (word list) for	et and washing facilities the total population	D - INFECTION CONTROL PRACTIO Are there persons with training in infection control/prevention avail Yes No	able to the staff of the facility?
B – DENOMINATOR This table when completed will summarize the data collected in e	DATA ach word (word list) for QF:	et and washing facilities	D - INFECTION CONTROL PRACTIO Are there persons with training in infection control/prevention avail Yes	able to the staff of the facility?
INDIVIDUAL TOILET AND WASHING FACILITIES B - DENOMINATOR This table when completed will summarize the data collected in e IN YOUR FACILITY, ON THE DAY OF THE SURVEY, <u>TOTAL NUMBER</u>	toll DATA och word (ward list) for OE:	et and washing facilities	D - INFECTION CONTROL PRACTIO A rest there persons with training in infection control/prevention avail Yes	able to the staff of the facility? Is this person: and a doctor
INDIVIDUAL TOILET AND WASHING FACILITIES B - DENOMINATOR This table when completed will summorize the data collected in e IN YOUR FACILITY, ON THE DAY OF THE SURVEY, <u>TOTAL NUMBER</u> BEDS IN THE FACILITY (both occupied and non-accupied beds) OCCUPIED NEDF	tell DATA och ward (ward list) for OE:	et and washing facilities	D - INFECTION CONTROL PRACTIO A rest there persons with training in infection control/prevention available, Yes No If a person with training in infection control/prevention is available, A nurse A doctor There is both a nurse o Is this/are these person(s):	able to the staff of the facility? Is this person: and a doctor
B – DENOMINATOR B – DENOMINATOR This table when completed will summorize the data collected in e IN YOUR FACILITY, ON THE DAY OF THE SURVEY, <u>TOTAL NUMBER</u> BEDS IN THE FACILITY (both occupied and non-accupied beds) OCCUPIED BEDS	tell DATA och word (ward list) for OE:	et and washing facilities the total population	INFECTION CONTROL PRACTION A rest there persons with training in infection control/prevention available, Yes No A nurse A doctor There is both a nurse o Is this/are these person(s): Working in the facility (internal)	cc able to the staff of the facility? Is this person: <i>and a doctor</i>
B - DENOMINATOR B - DENOMINATOR This table when completed will summorize the data collected in e N YOUR FACILITY, ON THE DAY OF THE SURVEY, <u>TOTAL NUMBER</u> BEDS IN THE FACILITY (both occupied and non-occupied beds) OCCUPIED BEDS ELIGIBLE RESIDENTS:	tell DATA ach word (word list) for OF:	et and washing facilities	INFECTION CONTROL PRACTION A rest there persons with training in infection control/prevention available, Yes No A nurse A doctor There is both a nurse o Is this/are these person(s): Working in the facility (internal) Not working in the facility (external)	cc able to the staff of the facility? Is this person: <i>and a doctor</i>
B - DENOMINATOR B - DENOMINATOR This table when completed will summorize the data collected in e IN YOUR FACILITY, ON THE DAY OF THE SURVEY, <u>TOTAL NUMBER</u> BEDS IN THE FACILITY (both occupied and non-accupied beds) OCCUPIED BEDS ELIGIBLE RESIDENTS: PRESENT AT IS AM AND NOT DISCHARGED AT THE TIME OF T	DATA ach word (word list) for OF: THE SURVEY	the total population	INFECTION CONTROL PRACTION Are there persons with training in infection control/prevention available, Yes No Are a person with training in infection control/prevention is available, A nurse A doctor There is both a nurse o Is this/are these person(s): Working in the facility (internal) Not working in the facility (external) There is both an internal and an external person	cc able to the staff of the facility? Is this person: <i>und a doctor</i>
B - DENOMINATOR B - DENOMINATOR This table when completed will summorize the data collected in ei N YOUR FACILITY, ON THE DAY OF THE SURVEY, <u>TOTAL NUMBER</u> BEDS IN THE FACILITY (both occupied and non-occupied beds) OCCUPIED BEDS ELIGIBLE RESIDENTS: PRESENT AT II AM AND NOT DISCHARGED AT THE TIME OF T AGE OVER IIS YEARS	DATA ach word (word list) for OF: THE SURVEY	the total population	In the persons with training in infection control/prevention available, Yes INO If a person with training in infection control/prevention is available, A nurse IA doctor Intere is both a nurse of Is this/are these person(s): Working in the facility (internal) Not working in the facility (internal) There is both an internal and an external person	cc able to the staff of the facility? Is this person: <i>und a dioctor</i>
B - DENOMINATOR B - DENOMINATOR This table when completed will summarize the data collected in ei N YOUR FACILITY, ON THE DAY OF THE SURVEY, <u>TOTAL NUMBER</u> BEDS IN THE FACILITY (both occupied and non-occupied beds) OCCUPIED BEDS ELIOIBLE RESIDENTS: PRESENT AT II AM AND NOT DISCHARGED AT THE TIME OF T AGE OVER IIS YEARS MALE RESIDENTS	DATA ach word (word list) for OE: THE SURVEY	the total population	In the facility, in/are there: (Please complete this question even if there is no person with training	able to the staff of the facility? Is this person: and a doctor
INDIVIDUAL TOILET AND WASHING FACILITIES B - DENOMINATOR This table when completed will summarize the data collected in en N YOUR FACILITY, ON THE DAY OF THE SURVEY, <u>TOTAL NUMBER</u> BEDS IN THE FACILITY (both occupied and non-occupied beds) OCCUPIED BEDS ELIDIBLE RESIDENTS: PRESENT AT IF AM AND NOT DISCHARGED AT THE TIME OF T AGE OVER IIS YEARS MALE RESIDENTS RESIDENTS RESIDENTS RESIDENTS	DATA ach word (word list) for OE: THE SURVEY	tet and washing facilities	In the persons with training in infection control/prevention avail Yes No No If a person with training in infection control/prevention is available, A nurse A doctor There is both a nurse of Is this/are these person(s): Working in the facility (internal) Not working in the facility (internal) There is both an internal and an external person S. In the facility, is/are there: (Please complete this question even if there is no person with training available in the facility)	able to the staff of the facility? Is this person: and a doctor
B - DENOMINATOR B - DENOMINATOR This table when completed will summarize the data collected in ei N YOUR FACILITY, ON THE DAY OF THE SURVEY, <u>TOTAL NUMBER</u> BEDS IN THE FACILITY (both occupied and non-occupied beds) OCCUPIED BEDS ELIDIBLE RESIDENTS: PRESENT AT IF AM AND NOT DISCHARGED AT THE TIME OF T AGE OVER IIS YEARS MALE RESIDENTS RESIDENTS RESIDENTS RECEIVING AT LEAST ONE ANTIMICROBIAL AGEN RESIDENTS WITH AT LEAST ONE INFECTION	DATA ach word (word list) for OE: THE SURVEY	tet and washing facilities	D - INFECTION CONTROL PRACTION Are there persons with training in infection control/prevention avail Yes No If a person with training in infection control/prevention is available, A nurse A doctor There is both a nurse o Is this/are these person(s): Working in the facility (internal) Not working in the facility (internal) There is both an internal and an external person S. In the facility, is/are there: (Please complete this question even if there is no person with train available in the facility/ Infection prevention and control training of the nursing and person	cc able to the staff of the facility? Is this person: and a doctor ining in infection control/prevention aramedical staff
B - DENOMINATOR B - DENOMINATOR This table when completed will summarize the data collected in ei N YOUR FACILITY, ON THE DAY OF THE SURVEY, <u>TOTAL NUMBER</u> BEDS IN THE FACILITY (both occupied and non-occupied beds) OCCUPIED BEDS ELIGIBLE RESIDENTS: PRESENT AT II AM AND NOT DISCHARGED AT THE TIME OF T AGE OVER IIS YEARS MALE RESIDENTS RESIDENTS RECEIVING AT LEAST ONE ANTIMICROBIAL AGEN RESIDENTS WITH AT LEAST ONE INFECTION RESIDENTS WITH ANY URINARY CATHETER	Total	et and washing facilities the total population	D - INFECTION CONTROL PRACTION Are there persons with training in infection control/prevention avail Yes No If a person with training in infection control/prevention is available, A nurse A doctor There is both a nurse o Is this/are these person(s): Working in the facility (internal) Not working in the facility (internal) There is both an internal and an external person S. In the facility, is/are there: (Pierase complete this question even if there is no person with train available in the facility/ Infection prevention and control training of the nursing and p Appropriate training of general practitioners and medical stage	cc able to the staff of the facility? Is this person: and a doctor ining in infection control/prevention aramedical staff 7 in infection prevention and control
B - DENOMINATOR B - DENOMINATOR This table when completed will summarize the data collected in ei IN YOUR FACILITY, ON THE DAY OF THE SURVEY, <u>TOTAL NUMBER</u> BEDS IN THE FACILITY (both occupied and non-occupied bedh) OCCUPIED BEDS ELIGIBLE RESIDENTS: PRESENT AT 8 AM AND NOT DISCHARGED AT THE TIME OF T AGE OVER 85 YEARS MALE RESIDENTS RESIDENTS RESIDENTS RESIDENTS WITH AT LEAST ONE ANTIMICROBIAL AGEN RESIDENTS WITH AT LEAST ONE INFECTION RESIDENTS WITH ANY URINARY CATHETER RESIDENTS WITH ANY VASCULAR CATHETER	Tell	et and washing facilities	D - INFECTION CONTROL PRACTION Are there persons with training in infection control/prevention avail Yes No If a person with training in infection control/prevention is available, A nurse A doctor There is both a nurse of Working in the facility (internal) Not working in the facility (internal) Not working in the facility (external) There is both an internal and an external person Is the facility, is/are there: (Pierase complete this question even if there is no person with train available in the facility) Infection prevention and control training of the nursing and p Appropriate training of general practitioners and medical stage Development of care protocols	cc able to the staff of the facility? Is this person: and a doctor ining in infection control/prevention aramedical staff 7 in infection prevention and control
INDIVIDUAL TOILET AND WASHING FACILITIES B - DENOMINATOR This table when completed will summarize the data collected in ei IN YOUR FACILITY, ON THE DAY OF THE SURVEY, <u>TOTAL NUMBER</u> BEDS IN THE FACILITY (both occupied and non-occupied bedh) OCCUPIED BEDS ELIGIBLE RESIDENTS: PRESENT AT 8 AM AND NOT DISCHARGED AT THE TIME OF T AGE OVER BS YEARS MALE RESIDENTS RESIDENTS WITH AT LEAST ONE INFECTION RESIDENTS WITH ANY URINARY CATHETER RESIDENTS WITH ANY VASCULAR CATHETER RESIDENTS WITH ANY PRESSURE SORES	Tell	et and washing facilities	D - INFECTION CONTROL PRACTION Are there persons with training in infection control/prevention avail Yes No A nurse No A nurse A doctor There is both a nurse o Is this/are these person(s): Working in the facility (internal) Not working in the facility (internal) Not working in the facility (external) There is both an internal and an external person In the facility, is/are there: (Piease complete this question even (f there is no person with trainvaliable in the facility) Infection prevention and control training of the nursing and p Appropriate training of general practitioners and medical stag Development of care protocols	cc able to the staff of the facility? Is this person: and a doctor ining in infection control/prevention aramedical staff f in infection prevention and control nt microorganisms
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B - DENOMINATOR B - DENOMINATOR This table when completed will summarize the data collected in ei This table when completed will summarize the data collected in ei IN YOUR FACILITY, ON THE DAY OF THE SURVEY, <u>TOTAL NUMBER</u> BEDS IN THE FACILITY (both occupied and non-occupied bedh) OCCUPIED BEDS ELIGIBLE RESIDENTS: PRESENT AT 8 AM AND NOT DISCHARGED AT THE TIME OF T AGE OVER BS YEARS MALE RESIDENTS RESIDENTS RECEIVING AT LEAST ONE ANTIMICROBIAL AGEN RESIDENTS WITH AT LEAST ONE INFECTION RESIDENTS WITH ANY URINARY CATHETER RESIDENTS WITH ANY VASCULAR CATHETER RESIDENTS WITH ANY VASCULAR CATHETER RESIDENTS WITH OTHER WOUNDS	Tell	et and washing facilities	D - INFECTION CONTROL PRACTION Are there persons with training in infection control/prevention avail Yes No Here is person with training in infection control/prevention is available, A nurse A doctor There is both a nurse o Is this/are these person(s): Working in the facility (internal) Not working in the facility (internal) Not working in the facility (external) There is both an internal and an external person In the facility, is/are there: (Please complete this question even (f there is no person with trainvaliable in the facility) Infection prevention and control training of the nursing and p Appropriate training of general practitioners and medical state Development of care protocols Registration of residents colonized/infected with multi-resista Designation of a person responsible for reporting and manage Feedback on surveillance results to the nursing/medical state	cc able to the staff of the facility? Is this person: and a doctor ining in infection control/prevention aramedical staff if in infection prevention and control ant microorganisms ament of outbreaks of the facility

RESIDENTS DISORIENTED IN TIME AND/OR SPACE

Supervision of disinfection and sterilization of medical and care material

Decisions on isolation & additional precautions for residents colonized with resistant microorganisms

Offer of annual immunisation for flu to all residents

Organization, control, feedback on hand hygiene in the facility on a regular basis

Organization, control, feedback of a process surveillance/audit of infection policies and procedures (on regular basis)

None of the above

4. In the facility, is there an infection control committee (internal or external)?

5. How many infection control committee meetings were organized in the previous year?

Total number of meetings last year? _____ meetings previous year

 Can the facility ask for help and expertise from an external infection control (IC) team on a formal basis (e.g. IC team from a local hospital)?

Yes No

7. In the facility, is a written protocol available for:

 the management of MRSA and/or other multidrug resis microorganisms 	itant 🗆	Yes	No
- hand hygiene		Yes	No
- the management of urinary catheters		Yes	No
- the management of venous catheters/lines		Yes	No
- the management of enteral feeding		Yes	No

B. Is a surveillance programme of healthcare-associated infections in place in the facility? (annual summary report of number of urinary tract infections, respiratory tract infections, etc...)

Yes No

9. In the facility, which of following products are available for hand hygiene?

- Alcohol rub solution	Yes	No
- Wipes (alcoholic)	Yes	No
- Liquid soap (antiseptic/ other)	Yes	No
- Bar soap in clinical areas	Yes	No

10. Which hand hygiene method is most frequently used in your facility when hands are not soiled (only one answer is possible)?

12. Last year, was a hand hygiene training session organized for care professionals of the facility?

Hand disinfection with an alcohol solution
Hand washing with water and a non-antiseptic scop

Hand washing with water and an antiseptic soap

11. How many litres of hand alcohol were used last year? Total annual consumption in litres

Litres last year

🗆 Yes 🗆 No

13. How many hand hygiene opportunities were there observed in your facility last year?

Number of observed opportunities

Opportunities last year

- ANTIMICROBIAL POLICY

1. Does the facility use a 'restrictive list' of antimicrobials to be prescribed? (prescription requiring permission of a designated person or not to be used)

Yes
No

2. If a restrictive list exists, what kinds of antibiotics are restricted?

Carbopenems

Srd generation cepholosporins

Fluoroquinolones
Vancomycin

Mupirocin

dlycopeptides

Broad-spectrum antibiotics

Intravenously administered antibiotics

3. Which of following elements are present in the facility?

- An antimicrobial committee
- Annual regular training on appropriate antimicrobial prescribing
- Written guidelines for appropriate antimicrobial use (good practice) in the facility
- Data available on annual antimicrobial consumption by antimicrobial class

A system to remind healthcare workers of the importance of microbiological samples to inform the
best antimicrobial choice

Local (Le. for that region/locality or national if small country) antimicrobial resistance profile summaries available in the LTCF or in the GP surgeries who prescribe

A system that requires permission from a designated person(s) for prescribing of restricted antimicrobial, not included in local formulary

Advice from a pharmacist for antimicrobials not included in the formulary

A therapeutic formulary, comprising a list of antibiotics

Feedback to the GPs on antimicrobial consumption in the facility

None of the above

4. If written therapeutic guidelines are present in the facility, are they on:

Respiratory tract infections?	Yes	No
Urinary tract infections?	Yes	No
Wound and soft tissue infections?	Yes	No

5. Do you perform a urine dipstick test for detection of urinary tract infections in the facility?

Routinely
 Sometimes
 Never

3

72

4
6. Is a programme for surveillance of antimicrobial consumption and feedback in place in the facility?

🗆 Yes 🗆 No

 Is a programme for surveillance of resistant microorganisms in place in the facility? (annual summary report for MNSA, Clostridium difficile, etc)

Ves No

B. How are antimicrobials supplied to your facility? (only one answer possible)

Provided by more than one pharmacy

- Provided by one pharmacy only
- This facility does not acquire antimicrobials directly from pharmacies; antimicrobials are acquired by residents directly (e.g. supplied by the family)
- 9. How many microbiological laboratories do you work with? (only one answer possible)
 - More than one microbiological laboratory
 - One single microbiological laboratory
 - This facility does not send microbiological samples to any laboratories; each visiting general practitioner can work with his microbiological laboratory of choice.

F - HOW WAS THE SURVEY PERFORMED IN YOUR FACILITY?

- 1. Who collected the HALT-3 data (incl. institutional and resident questionnaires)?
 - A physician
 - A nurse
 - Another person

2. If no physician was involved in the HALT-3 data collection (institutional and resident questionnaires), did a physician validate the data?

Yes No

The HALT-3 team thanks you for your participation!

HALT-3 Institutional Questionnaire 2016 - 2017

Appendix C: Ward list

PPS of HAI & ANTIMICROBIAL USE in LTCFs (HALT-3)								
HALT-3: WARD LIST PPS DENOMINATOR DATA BY WARD (for internal use only)								
DATE OF THE PPS SURVEY IN YOUR FACILITY	//	FACILITY STUDY NUMBER:						
Name of the ward:								
How many beds in this ward? (includes both occupied and non-occupied beds):								
The ward list is a form developed to aid surveyors' colle The surveillance protocol specifies that surveyors should ward at 8am and not discharged at the time of the surv can sum the denominators from each ward and transfer one ward list.	ction of denominator data for I collect information from eac ey. This ward list collects dat these totals to the institution	the Institutional Questionnaire. Its use is not mandatory, i.e. it is optional. It resident eligible resident, i.e. those living full-time in the facility, present in the a from each resident. Once these data have been collected for all wards, surveyors all questionnaire. Facilities that do not have different wards only need to complete						
 Instructions: All residents present on the day of the survey should be listed in columns 1 and 2. Add a code in column 3 that is unique for every resident in the facility. Numbers and/or letters can be used. This study number should be entered on all forms for that same resident. If the resident meets the eligibility criteria (i.e. living full-time in the facility, present at 8am and not discharged at the time of the survey), complete columns 4 to 15 by writing an 'X' if the risk factor or care load indicator is present on the day of the survey. Sum the Xs in each column. Write the totals of each column in the summary table at the end of the ward list. Sum the totals of the summary tables in the different ward lists and report the totals in part B of the institutional questionnaire. If a resident on the ward list has an X in columns 7 and/or 8 (i.e. they were receiving at least one antimicrobial agent and/or had at least one infection on the day of the survey, complete a resident form for this resident. 								



PPS of HAI & ANTIMICROBIAL USE in LTCFs (HALT-3)

COMPLE	TE THIS PART OF THE LIST FOR A THE WARD	LL RESIDI	ENTS IN	COMPLETE THIS PART <u>FOR ALL ELIGIBLE RESIDENTS (residents from column 3)</u> Write a X in the column if the condition is TRUE ON THE DAY OF THE SURVEY												
Room & bed number	Resident name	Study number of the resident	Present at 8 AM and not discharged at time of PPS	Age over 85 years	Male resident	Antimicrobial agent	Signs/symptoms of an infection	Infection matching a case definition	Urinary catheter	Vascular catheter	Pressure sore	Other wound	Disorientation In time and/or space	Wheekchair bound or bedridden	Surgery in the previous 30 days	Urinary and/or faecal incontinence
1	2	3	4	5	6	7	8a	8b	9	10	11 a	11b	12	13	14	15
																1

COMPLETE FOLLOWING LIST FOR ALL RESIDENTS PRESENT ON THE DAY OF THE PPS

HALT-3: WARD LIST 2016-2017



COMPLETE FOLLOWING LIST FOR ALL RESIDENTS PRESENT ON THE DAY OF THE PPS																
COMPLE	COMPLETE THIS PART OF THE LIST FOR ALL RESIDENTS IN THE WARD					omplet a X in	the colu	ART <u>FOF</u> Imn if th	e condit	GIBLE RE		THE D	AY OF	THE SU	3) RVEY	
Room & bed number	Resident name	Study number of the resident	Present at 8 AM and not discharged at time of PPS	Age over 85 years	Male resident	Antimicrobial agent	Signs/symptoms of an infection	Infection matching a case definition	Urinary catheter	Vascular catheter	Pressure sore	Other wound	Disorientation in time and/or space	Wheekchair bound or bedridden	Surgery in the previous 30 days	Urinary and/or faecal incontinence
1	2	3	4	5	6	7	8a	8b	9	10	11 a	11b	12	13	14	15
																L
																
																
																1

HALT-3: WARD LIST 2016-2017



SUMMARY TABLE: TOTAL NUMBERS FOR THIS WARD

Use this table to add the number of 'X' from each column from each ward list from the facility. Transfer the total number into Part B of the institutional questionnaire, i.e. 'Denominator Data'

On the day of the PPS, TOTAL number of:	Column	TOTAL NUMBERS
Total number of beds on this ward (total bed capacity)	1	
Occupied beds in the ward	2	
Eligible residents, present at 8 AM and not discharged at time of PPS	4	
Age over 85 years	5	
Male residents	6	
Residents receiving at least one antimicrobial agent	7	
Residents with at least one infection	8b	
Residents with any urinary catheter	9	
Residents with any vascular catheter	10	
Residents with pressure sores	11a	
Residents with other wounds	11b	
Residents disorientated in time and/or space	12	
Residents using wheelchair or being bedridden	13	
Residents with surgery in the previous 30 days	14	
Residents with urinary and/or faecal incontinence	15	

Keep this ward list safely in your LTCF until the publication of the national HALT report

HALT-3: WARD LIST 2016-2017

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Appendix D: Resident questionnaire & HCAI case definitions

								PART	A: ANTIMICROBIA	L USE	
			RE	SIDENT STUDY N				ANTIMICROBIAL 1	ANTIMICROBIAL 2	ANTIMICROBIAL 3	ANTIMICROBIAL 4
						ANTIMICROBIAL NAME					
Healthcar	10-3550	cisted infectio		antimicrobial	1150	ADMINISTRATION ROU	TE	Oral	Oral	Oral	Oral
in European long term care facilities (HALT.3)						Parenteral	Parenteral	Parenteral	Parenteral		
ecoc	ropean	inong term ea	i aci	intes (inver-s)		PARENTERAL = IM, IV OR	SC	Other	Other	Other	Other
The second	RE	SIDENT QUEST	TIONN	AIRE		END DATE / REVIEW DA TREATMENT KNOWN?	ITE OF	🗆 No 🗆 Yes	□ No □ Yes	□ NO □ Yes	I NO I Yes
						TYPE OF TREATMENT		Prophylactic	Prophylactic	Prophylactic	Prophylactic
	R	ESIDENT DA	ГА			ANTIMIC POPULAL CIVEN	EOR	Therapeutic Uningoutract	Therapeutic Usingput tract	Therapeutic Usingsystract	Therapeutic Usingput react
						ANTIMICROBIAL GIVEN	run	Genital tract	Genital tract	Genital tract	Genital tract
C			-			1		Skin or wound	Skin or wound	Skin or wound	Skin or wound
GENDER		Male		Female				Respiratory tract	Respiratory tract	Respiratory tract	Respiratory tract
BIRTH YEAR	1	1 1 1						Gastrointestinal	Gastrointestinal	Gastrointestinal	Gastrointestinal
			- (Y	YYY)				Ear, nose, mouth	Er, nose, mouth	Ear, nose, mouth	Ear, nose, mouth
LENGTH OF STAY IN THE FACILITY		Less than one	year	One y	year or longer			Surgical site	Surgical site	Surgical site	Surgical site
ADMISSION TO A HOSPITAL								Tuberculosis Surtamia infantian	Tuberculosis Contamining information	Tuberculosis Sustancia in faction	Tuberculosis Sector information
IN THE LAST 3 MONTHS		Yes		No				Unexplained fever	Unexplained fever	Unexplained fever	Unexplained fever
S								Other (specify)	Other (specify)	Other (specify)	Other (specify)
SURGERY IN THE PREVIOUS 30 DAYS		Yes		No							
						WHERE PRESCRIBED?		In this facility	In this facility	In this facility	In this facility
PRESENCE OF:								Elsewhere	Elsewhere	Elsewhere	Elsewhere
URINARY CATHETER		Yes		No						·	
Varciu an caturtra		V		N				PART B: HEALTH	CARE-ASSOCIATEI	DINFECTIONS	
VASCODAR CATHETER		res		NO				INFECTION 1	INFECTION 2	INFECTION 3	INFECTION 4
INCONTINENCE		Yes		No		INFECTION CODE					
(URINARY AND/OR FAECAL)						IF 'OTHER', PLEAS	E SPECIFY				
- DRESSURE SORE	-	Mar.									
Theadone Some		YPC		No		PRESENT AT (RE-)ADM	ISSION	🗆 No 🗆 Yes	🗆 No 🗆 Yes	🗆 No 🗆 Yes	🗆 No 🗆 Yes
 OTHER WOUNDS 		Yes		No No		PRESENT AT (RE-)ADM	ISSION IM/YY)	No Yes	No Yes	No Yes	No Yes
OTHER WOUNDS DISORIENTATION		Yes		No No		PRESENT AT (RE-)ADM DATE OF ONSET (DD/N ORIGIN OF INFECTION	ission Im/yy)	No Yes	No Yes Current LTCF	No Yes Current LTCF	No Yes
OTHER WOUNDS DISORIENTATION (IN TIME AND/OR SPACE)		Yes Yes		No No No		PRESENT AT (RE-)ADM DATE OF ONSET (DD/N ORIGIN OF INFECTION	ission IM/yy)	No Yes Current LTCF Other LTCF	No Yes Current LTCF Other LTCF	No Yes Current LTCF Other LTCF	No Yes Current LTCF Other LTCF
OTHER WOUNDS DISORIENTATION (IN TIME AND/OR SPACE)		Yes Yes		No No No		PRESENT AT (RE-)ADM DATE OF ONSET (DD/N ORIGIN OF INFECTION	ission IM/yy)	No Yes Current LTCF Other LTCF Hospital Unserver	No Yes Current LTCF Other LTCF Hospital Unsequence	No Yes	No Yes
- OTHER WOUNDS DISORIENTATION (IN TIME AND/OR SPACE) MOBILITY		res Yes Yes Ambulant		No No No Wheelchair	Bedridden	PRESENT AT (RE-)ADM DATE OF ONSET (DD/N ORIGIN OF INFECTION	ISSION IM/YY)	No Yes	No Yes Current LTCF Other LTCF Hospital Unknown	No Yes	No Yes Current LTCF Other LTCF Hospital Unknown
- OTHER WOUNDS DISORIENTATION (IN TIME AND/OR SPACE) MOBILITY		Yes Yes Ambulant		No No Wheelchair	Bedridden	PRESENT AT (RE-)ADM DATE OF ONSET (DD/N ORIGIN OF INFECTION A. NAME OF ISOLATED	1. A	No Yes Current LTCF Other LTCF Hospital Unknown	No Yes Current LTCF Other LTCF Hospital Unknown	No Yes Current LTCF Other LTCF Hospital Unknown	No Yes Current LTCF Other LTCF Hospital Unknown
OTHER WOUNDS DISORIENTATION (IN TIME AND/OR SPACE) MOBILITY		Yes Yes Ambulant		No No Wheelchair	Bedridden	PRESENT AT (RE-)ADM DATE OF ONSET (DD/M ORIGIN OF INFECTION A. NAME OF ISOLATED MICROORGANISM	1. A	No Yes Current LTCF Other LTCF Hospital Unknown	No Yes	No Yes Current LTCF Other LTCF Hospital Unknown	No Yes Current LTCF Other LTCF Hospital Unknown
OTHER WOUNDS DISORIENTATION (IN TIME AND/OR SPACE) MOBILITY On the day of the survey, the residen RECEIVES AN ANTIMICROBIAL AGENT		Yes Yes Ambulant		No No Wheelchair	Bedridden TE PART A	PRESENT AT (RE-)ADM DATE OF ONSET (DO/M ORIGIN OF INFECTION A. NAME OF ISOLATED MICROORGANISM (REASE USE COOR UST) B. TESTED	1. A B	No Yes Current LTCF Other LTCF Hospital Unknown	No Yes	No Yes Current LTCF Other LTCF Hospital Unknown	No Yes Current LTCF Other LTCF Hospital Unknown
OTHER WOUNDS DISORIENTATION (IN TIME AND/OR SPACE) MOBILITY On the day of the survey, the residen RECEIVES AN ANTIMICROBIAL AGENT This includes: (i) Residents receiving	t: prophyll	Yes Yes Ambulant		No No Wheelchair → Comple	Bedridden TE PART A	PRESENT AT (RE-)ADM DATE OF ONSET (DD/M ORIGIN OF INFECTION A. NAME OF ISOLATED MICROORGANISM (REASE USE COOR UST) B. TESTED ANTIMICROBIAL(S)	ISSION IM/YY) 1. A B 2. A	No Yes Current LTCF Other LTCF Hospital Unknown	No Yes Current LTCF Other LTCF Hospital Unknown	No Yes Current LTCF Other LTCF Hospital Unknown	No Yes // / Current LTCF Other LTCF Hospital
OTHER WOUNDS DISORIENTATION (IN TIME AND/OR SPACE) MOBILITY On the day of the survey, the residen RECEIVES AN ANTIMICROBIAL AGENT This includes: (i) Residents receiving OR (ii) Residents receiving	t: prophyll therape	Yes Yes Ambulant actic antimicrobia utic antimicrobia	nis Is	No No Wheelchair →CompLe	Bedridden TE PART A	PRESENT AT (RE-)ADM DATE OF ONSET (DD/M ORIGIN OF INFECTION A. NAME OF ISOLATED MICROORGANISM (PLEASE USE CODE UST) B. TESTED ANTIMICROBIAL(S) AND RESISTANCE	1. A B 2. A	No Yes Current LTCF Other LTCF Hospital Unknown L L L L L L	No Yes	No Yes Current LTCF Other LTCF Hospital Unknown	No Yes //
OTHER WOUNDS DISORIENTATION (IN TIME AND/OR SPACE) MOBILITY On the day of the survey, the residen Receives AN ANTIMICROBIAL AGENT This includes: (i) Residents receiving OR (ii) Residents receiving PRESENTS CONFIRMED OR PROBABLE INF	ι ι ι τ: γ prophyli γ therape εςτιον(s	Yes Yes Ambulant actic antimicrobia utic antimicrobia	als is	No No Wheelchair →CompLE	Bedridden TE PART A TE PART B	PRESENT AT (RE-)ADM DATE OF ONSET (DD/M ORIGIN OF INFECTION A. NAME OF ISOLATED MICROORGANISM (FLASE USE CODE UIST) B. TESTED ANTIMICROBIAL(S) AND RESISTANCE ONLY FOR STAALIN, ENC ¹¹⁰ , ACIBAU,	1. A B 2. A B	No Yes Unit / Line / Line Other LTCF Other LTCF Hospital Unknown Line Line	No Yes	No Yes Current LTCF Other LTCF Hospital Unknown	No Yes // / Current LTCF Other LTCF Hospital
OTHER WOUNDS DISORIENTATION (IN TIME AND/OR SPACE) MOBILITY On the day of the survey, the residen RECEIVES AN ANTIMICROBIAL AGENT This includes: (i) Residents receiving OR (ii) Residents receiving PRESENTS CONFIRMED OR PROBABLE INF Residents with infection(s) AND residents	t: prophyla terrion(s ient not i	Yes Yes Ambulant actic antimicrobia utic antimicrobia yeceiving antimici	als ls robials	No No Wheelchair →CompLe	Bedridden TE PART A TE PART B	PRESENT AT (RE-)ADM DATE OF ONSET (DD/M ORIGIN OF INFECTION A. NAME OF ISOLATED MICROORGANISM (FLEASE USE CODE UIST) B. TESTED ANTIMICROBIAL(S) AND RESISTANCE ONEY FOR STAALM, ENC ^{***} , ACIBAU, PSEARE OR	ISSION M/YY) 1. A B 2. A B	No Yes Unit / Line / Line Current LTCF Other LTCF Hospital Unknown Line Line Line Line	No Yes	No Yes	No Yes
OTHER WOUNDS DISORIENTATION (IN TIME AND/OR SPACE) MOBILITY On the day of the survey, the residen RECEIVES AN ANTIMICROBIAL AGENT This includes: (i) Residents receiving OR (ii) Residents receiving PRESENTS CONFIRMED OR PROBABLE INF Residents with infection(s) AND resid BOTH: ANTIMICROBIAL USE AND INFECT	t: prophyli tterape ctrion(s ient not i ion(s)	Yes Yes Ambulant actic antimicrobia utic antimicrobia yeceiving antimicr	als ls	No No Wheelchair →CompLe →CompLe	Bedridden TE PART A TE PART B TE PART A & B	PRESENT AT (RE-)ADM DATE OF ONSET (DD/M ORIGIN OF INFECTION A. NAME OF ISOLATED MICROORGANISM (FLASE USE CODE UIST) B. TESTED ANTIMICROBIAL(S) AND RESISTANCE ONEY FOR STAALM, ENC ^{***} , ACIBAU, PSEARE OR ENTEROPACTERIACEAE (GT ^{***} , ENS ^{***} .	1. A B 2. A B 3. A	No Yes	No Yes	No Yes	No Yes
OTHER WOUNDS DISORIENTATION (IN TIME AND/OR SPACE) MOBILITY On the day of the survey, the residen RECEIVES AN ANTIMICROBIAL AGENT This includes: (i) Residents receiving OR (ii) Residents receiving Residents with infection(s) AND reside BOTH: ANTIMICROBIAL USE AND INFECT. This includes: (i) Residents with infe	t: prophyll tterape ctrion(s lent not i ion(s)	Yes Yes Ambulant actic antimicrobia utic antimicrobia) receiving antimica ND receiving ant	als ls imicrobi	No No Wheelchair → Comple → Comple → Comple	Bedridden TE PART A TE PART B TE PART A & B er or not linked to same	PRESENT AT (RE-)ADM DATE OF ONSET (DD/M ORIGIN OF INFECTION A. NAME OF ISOLATED MICROORGANISM (PLEASE USE CODE UST) B. TESTED ANTIMICROBIAL(S) AND RESISTANCE ONEY FOR STAALM, ENC ^{***} , ACIBAU, PSEARE OR ENTERODACTERIACAE (GT ^{***} , RE ^{***} , ESCOU, RE ^{***} ,	1. A B 2. A B 3. A	No Yes	No Yes	No Yes	No Yes
OTHER WOUNDS DISORIENTATION (IN TIME AND/OR SPACE) MOBILITY On the day of the survey, the residen RECEIVES AN ANTIMICROBIAL AGENT This includes: (i) Residents receiving OR (ii) Residents receiving RESIDENTS CONFIRMED OR PROBABLE INF Residents with infection(s) AND reside BOTH: ANTIMICROBIAL USE AND INFECT. This includes: (i) Residents with infection site)	t: prophyl trape ctrion(s) ient not i ion(s)	res Yes Yes Ambulant actic antimicrobia utic antimicrobia preceiving antimica ND receiving ant	als ls imicrobi	No No Wheelchair →Comple →Comple ials today (whethe	Bedridden TE PART A TE PART B TE PART A & B Er or not linked to same	PRESENT AT (RE-)ADM DATE OF ONSET (DD/M ORIGIN OF INFECTION A. NAME OF ISOLATED MICROORGANISM (PLEASE USE CODE UST) B. TESTED ANTIMICROBIAL(S) AND RESISTANCE ORAY FOR STAALM, ENCET**, ACIBAU, PSEARE OR ENTEROBACTERIACEAE (GT**, CRB**, ESCOL, KLE**, MOGSEP, RET**,	1. A B 2. A B 3. A B	No Yes Unit / Line / Line Other ITCF Other ITCF Unknown Unknown Line Line Line Line	No Yes	No Yes	No Yes // /
OTHER WOUNDS DISORIENTATION (IN TIME AND/OR SPACE) MOBILITY On the day of the survey, the residen RECEIVES AN ANTIMICROBIAL AGENT This includes: (i) Residents receiving OR (ii) Residents receiving RESIDENTS CONFIRMED OR PROBABLE INF Residents with infection(s) AND reside BOTH: ANTIMICROBIAL USE AND INFECT. This includes: (i) Residents with infection site) OR (ii) Residents whose si antimicrobials for the	t: prophyl trape tcrion(s) fent not i ion(s) ction(s) A igns/symn) bat infect	res Yes Yes Ambulant actic antimicrobia utic antimicrobia receiving antimici ND receiving ant stoms of an infec- tion	als Is imicrobi	No No Wheelchair →Comple →Comple →Comple ials today (whethe	Bedridden TE PART A TE PART A TE PART A B TE PART A	PRESENT AT (RE-)ADM DATE OF ONSET (DD/M ORIGIN OF INFECTION A. NAME OF ISOLATED MICROORGANISM (PLASE USE CODE UST) B. TESTED ANTIMICROBIAL(S) AND RESISTANCE ONEY FOR STAAUA, ENCT", ACIBAU, PSEARE OR ENTEROBACTERIACEAE (GT", CHB"", ESCOU, KLE"", MOGSEP, RET", SER") Trested antibiotic(S): ST	1. A B 2. A B 3. A B AAUR: oxec	No Yes	No Yes Current LTCF Other LTCF Other LTCF Unknown Unknown Unknown Unknown	No Yes Current LTCF Other LTCF Hospital Unknown	No Yes Current LTCF Other LTCF Unknown Unknow



FLU diagnosis can be made also outside the Flu season

BOTH OF THE FOLLOWING CRITERIA MUST BE MET:

Fever (for definition see top of page 3)

New headache or eye pain

At least three of the following:

Myalitias or body aches

Malaise or loss of appetite

New or increased dry cough

AND

Sore throat

Chills



Healthcare-associated infections and antimicrobial use in European long-term care facilities (HALT-3)

CASE DEFINITIONS OF INFECTIONS

IMPORTANT REMARK:

All active infections present on the day of the survey should be reported. An infection is active when signs/symptoms of the infection are present on the survey date OR signs/symptoms were present in the past and the resident is (still) receiving treatment for that infection on the survey date. The presence of symptoms and signs in the two weeks (14 days) preceding the PPS day should be verified in order to determine whether the treated infection matches one of the case definitions.

infections can only be reported as 'imported' for residents recently transferred from another healthcare facility (i.e. hospital or other LTCE). and still treated for an infection on the PPS day in the absence of documentation on (all) signs/symptoms that were present in the past.

Fever: 1) single > 37.8°C oral/tympanic membrane or 2) repeated > 37.2°C oral or > 37.5°C rectal or 3) > 1.1°C over baseline from any site (oral, tympanic, axillary)

- •• Leucocytosis: 1) Neutrophilia > 14,000 leucocytes/mm³ or 2) left shift (>6% bands or ≥ 1500 bands/mm³)
- Acute change in mental status from baseline: Acute onset + fluctuating course + inattention AND either disorganized thinking or altered level of consciousness
- 55 Acute functional decline: New 3 point increase in total ADL score (Range 0-28) from baseline based on 7 ADL items (bed mobility, increased dependency defined by scales other than ADL



RESPIRATORY TRACT INFECTIONS

COMMON COLD or PHARYNGITIS

Bunny nose or sneezing.

lymphadenopathy)

Dry cough

Stuffy nose (i.e. congestion)

AT LEAST TWO OF THE FOLLOWING CRITERIA:

Sore throat or hoarseness or difficulty in swallowing

Swollen or tender glands in the neck (cervical





GASTROINTESTINAL INFECTIONS

Appendix E: Antimicrobials used in Ireland

Listed alphabetically and in order of administration route

Trade name	Route	Active ingredient
AMOCLAV	Oral	Amoxicillin and enzyme inhibitor
AMOXICILLIN	Oral	Amoxicillin
AMOXICILLIN/CLAVULANIC	Oral	Amoxicillin and enzyme inhibitor
AMOXIL	Oral	Amoxicillin
AMOXYCILLIN	Oral	Amoxicillin
AMPICILLAN	Oral	Ampicillin
AMPICILLIN	Oral	Ampicillin
ANCOTIL	Oral	Flucytosine
AUGMENTIN	Oral	Amoxicillin and enzyme inhibitor
AVELOX	Oral	Moxifloxacin
AZITHROMYCIN	Oral	Azithromycin
AZROMAX	Oral	Azithromycin
BIOFLOXCIN	Oral	Ciprofloxacin
BIRAVID	Oral	Ofloxacin
BY MYCIN	Oral	Doxycycline
BYFLUC	Oral	Fluconazole
CALVEPEN	Oral	Phenoxymethylpenicillin
CALVEPEN LEO	Oral	Phenoxymethylpenicillin
CEFACLOR	Oral	Cefaclor
CEFAGER	Oral	Cefaclor
CEFALEXIN	Oral	Cefalexin
CEFALEXIN	Oral	Cefaclor
CEFIXIME	Oral	Cefixime
CEFODOX	Oral	Cefpodoxime
CEFPODOXIME	Oral	Cefpodoxime
CEFRADINE	Oral	Cefradine
CEFTAL	Oral	Cefuroxime
CEFUROXIME	Oral	Cefuroxime
CEPHALEXIN	Oral	Cefalexin
CEPOREX	Oral	Cefalexin
CHLORAMPHENICOL	Oral	Chloramphenicol
CIFLOXAGER	Oral	Ciprofloxacin
CIFOX	Oral	Ciprofloxacin
CIPROFLOXACIN	Oral	Ciprofloxacin
CIPROXIN	Oral	Ciprofloxacin
CLARITHROMYCIN	Oral	Clarithromycin
CLAROSIP	Oral	Clarithromycin
CLARYL	Oral	Clarithromycin
	Oral	Amoxicillin and enzyme inhibitor
CLEOCIN	Oral	Clindamycin
CLINDAMYCIN	Oral	Clindamycin
CLINIMYCIN	Oral	Oxytetracycline

Trade name	Route	Active ingredient
CLONAMOX	Oral	Amoxicillin
CLONAMP	Oral	Ampicillin
CLONAMP	Oral	Amoxicillin
CLONOCI	Oral	Clarithromycin
CLONOCID	Oral	Clarithromycin
CLOROM	Oral	Clarithromycin
CO-AMOXICLAV	Oral	Amoxicillin and enzyme inhibitor
COTRIMEL	Oral	Sulfamethoxazole and
		trimethoprim
CO-TRIMOXAZOLE	Oral	Sulfamethoxazole and
CYCLOSEDINE	Oral	trimethoprim
	Oral	Clindamusin
	Oral	Dansono
DEMECLOCYCLINE	Oral	Domoclocyclino
DIELAZOLE	Oral	Elucopazolo
	Oral	Fluconazolo
	Oral	Cefaclor
DOXYCYCLINE	Oral	Dowcycline
ERVCEN	Oral	Envthromycin
ERICEN	Oral	Erythromycin
	Oral	Erythromycin
FRYTHROCIN	Oral	Erythromycin
FRYTHROMYCIN	Oral	Erythromycin
FRYTHROMYCIN	Oral	Frythromycin
	Oral	Erythromycin
FRYTHROPED	Oral	Frythromycin
FRYTHROPED	Oral	Frythromycin
ETHAMBUTOL	Oral	Fthambutol
FASIGYN	Oral	Tinidazole
FLAGYL	Oral	Metronidazole
FLOXAPEN	Oral	Flucloxacillin
FLUCANDID	Oral	Fluconazole
FLUCILLIN	Oral	Flucloxacillin
FLUCLON	Oral	Flucloxacillin
FLUCLOXACILLIN	Oral	Flucloxacillin
FLUCOL	Oral	Fluconazole
FLUCONAZOLE	Oral	Fluconazole
FLUCYTOSINE	Oral	Flucytosine
FUCIDIN	Oral	Fusidic acid
FULCIN	Oral	Griseofulvin
FUNGAFINE	Oral	Terbinafine
FUNGILIN	Oral	Amphotericin B
FURADANTIN	Oral	Nitrofurantoin
FUSIDIC ACID	Oral	Fusidic acid

Trade name	Route	Active ingredient
GALENAMOX	Oral	Amoxicillin
GERAMOX	Oral	Amoxicillin
GERIFLOX	Oral	Flucloxacillin
GERMENTIN	Oral	Amoxicillin and enzyme inhibitor
GRIFULVIN	Oral	Griseofulvin
GRISEOFULVIN	Oral	Griseofulvin
GRISOVIN	Oral	Griseofulvin
HIPREX	Oral	Methenamine
IPRAL	Oral	Trimethoprim
ISONIAZ	Oral	Isoniazid
ISONIAZID	Oral	Isoniazid
ISOZID	Oral	Isoniazid
ITRACONAZOLE	Oral	Itraconazole
KEFEXIN	Oral	Cefalexin
KEFLEX	Oral	Cefalexin
KEFTID	Oral	Cefaclor
КЕТЕК	Oral	Telithromycin
KETOCONAZOLE	Oral	Ketoconazole
KLACID	Oral	Clarithromycin
KLARIGER	Oral	Clarithromycin
KOPEN	Oral	Phenoxymethylpenicillin
LAMISIL	Oral	Terbinafine
LEDERMYCIN	Oral	Demeclocycline
LEVOFLOXACIN	Oral	Levofloxacin
LINEZOLID	Oral	Linezolid
LYMECYCLINEAS	Oral	Lymecycline
MACROBID	Oral	Nitrofurantoin
MACRODANTIN	Oral	Nitrofurantoin
METHENAMINE HIPPURATE	Oral	Methenamine
METRONIDAZOLE	Oral	Metronidazole
METRONIDE	Oral	Metronidazole
MICTRAL	Oral	Nalidixic acid
MINOCIN	Oral	Minocycline
MINOCYCLINE	Oral	Minocycline
MINOCYLINE	Oral	Minocycline
MINOX	Oral	Minocycline
MONOTRIM	Oral	Trimethoprim
MOXIFLOXACIN	Oral	Moxifloxacin
MYAMBUTOL	Oral	Ethambutol
MYCIFRADIN	Oral	Neomycin
MYCOBUTIN	Oral	Rifabutin
MYCOSTATIN	Oral	Nystatin
NALIDIXIC ACID	Oral	Nalidixic acid
NEGRAM	Oral	Nalidixic acid
NEOMYCIN	Oral	Neomycin

Trade name	Route	Active ingredient
NITROFURANTOIN	Oral	Nitrofurantoin
NIVEMYCIN	Oral	Neomycin
NORFLOXACIN	Oral	Norfloxacin
NOVAPEN	Oral	Ampicillin
NYSTAN	Oral	Nystatin
OFLOXACIN	Oral	Ofloxacin
ORAMOX	Oral	Amoxicillin
OXYTETRACYCLINE	Oral	Oxytetracycline
PENBRITIN	Oral	Ampicillin
PENICILLIN V	Oral	Ampicillin
PENICILLIN V	Oral	Phenoxymethylpenicillin
PERIOSTAT	Oral	Doxycycline
РЕТЕНА	Oral	Protionamide
PHENOXYMETHYLPENICILLIN	Oral	Phenoxymethylpenicillin
PINACLAV	Oral	Amoxicillin and enzyme inhibitor
PINACLOR	Oral	Cefaclor
PINAMOX	Oral	Amoxicillin
PIRILENE	Oral	Pyrazinamide
POSACONAZOLE	Oral	Posaconazole
PRIMACINE	Oral	Erythromycin
PRISTINAMYCIN	Oral	Pristinamycin
PROFLOXIN	Oral	Ciprofloxacin
PROTIONAMIDE	Oral	Protionamide
PYRAFAT	Oral	Pyrazinamide
PYRAZINAMID	Oral	Pyrazinamide
PYRAZINAMIDE	Oral	Pyrazinamide
RIFABUTIN	Oral	Rifabutin
RIFADIN	Oral	Rifampicin
RIFAMPICIN	Oral	Rifampicin
RIFAMPICIN/ISONIAZID	Oral	Rifampicin
RIFATER	Oral	Rifampicin
RIFINAH	Oral	Rifampicin
RIMACTANE	Oral	Rifampicin
RIMACTAZID	Oral	Rifampicin
SEPTRIN	Oral	Sulfamethoxazole and
		trimethoprim
SODIUM FUSIDATE	Oral	Fusidic acid
SPORANOX	Oral	
SULFADIAZINE	Oral	Sulfadiazine
SULPHADIAZINE	Oral	Sulfadiazine
SUPKAX	Ural	Cetixime
	Oral	UTIOXACIN
	Oral	
	Ural	Terbinafine
TERRAMYCIN	Oral	Oxytetracycline

Trade name	Route	Active ingredient
TETRACYCLINE	Oral	Tetracycline
TETRALYSAL	Oral	Lymecycline
TRIMETHOPRIM	Oral	Trimethoprim
TRUOXIN	Oral	Ciprofloxacin
ULTRACEF	Oral	Cefadroxil
URIBEN	Oral	Nalidixic acid
VANCOCIN	Oral	Vancomycin
VANCOMYCIN	Oral	Vancomycin
VELOSEF	Oral	Cefradine
VFEND	Oral	Voriconazole
VIBRAMYCIN	Oral	Doxycycline
VORICONAZOLE	Oral	Voriconazole
ZINAMIDE	Oral	Pyrazinamide
ZINNAT	Oral	Cefuroxime
ZITHROMAX	Oral	Azithromycin
ΖΥνοχ	Oral	Linezolid
FLAGYL	Rectal	Metronidazole
METRONIDAZOLE	Rectal	Metronidazole
ТОВІ	Inhaled	Tobramycin
TOBRAMYCIN	Inhaled	Tobramycin
BACTROBAN	Nasal	Mupirocin
AMBISOME	Parenteral	Amphotericin B
ABELCET	Parenteral	Amphotericin B
AMBISOME	Parenteral	Amphotericin B
AMIKACIN	Parenteral	Amikacin
AMIKIN	Parenteral	Amikacin
AMOXICILLIN	Parenteral	Amoxicillin
AMOXICILLIN/CLAVULANIC	Parenteral	Amoxicillin and enzyme inhibitor
AMOXIL	Parenteral	Amoxicillin
AMPHOTERICIN	Parenteral	Amphotericin B
AMPHOTERICIN B	Parenteral	Amphotericin B
AMPICILLIN	Parenteral	Ampicillin
AMPICLOX	Parenteral	Combinations of penicillins
ANCOTIL	Parenteral	Flucytosine
AUGMENTIN	Parenteral	Amoxicillin and enzyme inhibitor
AVELOX	Parenteral	Moxifloxacin
AZACTAM	Parenteral	Aztreonam
BENZATHINE PENICILLIN	Parenteral	Benzylpenicillin
BENZYLPENICILLIN	Parenteral	Benzylpenicillin
CANCIDAS	Parenteral	Caspofungin

Trade name	Route	Active ingredient
CASPOFUNGIN	Parenteral	Caspofungin
CEFAZOLIN	Parenteral	Cefazolin
CEFOTAXIME	Parenteral	Cefotaxime
CEFRADINE	Parenteral	Cefradine
CEFTAZIDIME	Parenteral	Ceftazidime
CEFTRIAXONE	Parenteral	Ceftriaxone
CEFUROXIME	Parenteral	Cefuroxime
CHLORAMPHENICOL	Parenteral	Chloramphenicol
CHLOROMYCETIN	Parenteral	Chloramphenicol
CIDOMYCIN	Parenteral	Gentamicin
CIPROFLOXACIN	Parenteral	Ciprofloxacin
CIPROXIN	Parenteral	Ciprofloxacin
CIRROFLOVACIN	Parenteral	Ciprofloxacin
CLAFORAN	Parenteral	Cefotaxime
CLARITHROMYCIN	Parenteral	Clarithromycin
CLINDAMYCIN	Parenteral	Clindamycin
CO-AMOXICLAV	Parenteral	Amoxicillin and enzyme inhibitor
COLISTIMETHATE	Parenteral	Colistin
COLISTIN	Parenteral	Colistin
COLOMYCIN	Parenteral	Colistin
CO-TRIMOXAZOLE	Parenteral	Sulfamethoxazole and
		trimethoprim
CRYSTAPEN	Parenteral	Benzylpenicillin
CUBICIN	Parenteral	Daptomycin
DALACIN C	Parenteral	Clindamycin
DEPOCILLIN AQUEOUS	Parenteral	Benzylpenicillin
DIFLUCAN	Parenteral	Fluconazole
DOXYCYCLIN	Parenteral	Doxycycline
DOXYCYCLINE	Parenteral	Doxycycline
ERTAPENEM	Parenteral	Ertapenem
ERYTHROCIN	Parenteral	Erythromycin
ERYTHROMYCIN	Parenteral	Erythromycin
EXTENCILLIN	Parenteral	Benzylpenicillin
EXTENCILLINE	Parenteral	Benzathine benzylpenicillin
FARMAPROINA	Parenteral	Procaine benzylpenicillin
FLAGYL	Parenteral	Metronidazole
FLOXAPEN	Parenteral	Flucloxacillin
FLUCLOXACILLIN	Parenteral	Flucloxacillin
FLUCOL	Parenteral	Fluconazole
FLUCONAZOLE	Parenteral	Fluconazole
FLUCYTOSINE	Parenteral	Flucytosine
FORTUM	Parenteral	Ceftazidime
FOSFOMYCIN	Parenteral	Fosfomycin
FUCIDIN	Parenteral	Fusidic acid
FUNGIZONE	Parenteral	Amphotericin B

Trade name	Route	Active ingredient
GENTAMICIN	Parenteral	Gentamicin
GENTICIN	Parenteral	Gentamicin
IBIMICYN	Parenteral	Ampicillin
INFECTOFOS	Parenteral	Fosfomycin
IVANZ	Parenteral	Ertapenem
KEFADOL	Parenteral	Cefamandole
KEFZOL	Parenteral	Cefazolin
KEMICETINE	Parenteral	Chloramphenicol
KEMICITINE	Parenteral	Chloramphenicol
KLACID	Parenteral	Clarithromycin
LEVOFLOXACIN	Parenteral	Levofloxacin
LINEZOLID	Parenteral	Linezolid
MERONEM	Parenteral	Meropenem
MEROPENEM	Parenteral	Meropenem
METROLYL	Parenteral	Metronidazole
METRONIDAZOLE	Parenteral	Metronidazole
METROVEX	Parenteral	Metronidazole
MOXIFLOXACIN	Parenteral	Moxifloxacin
NEBCIN	Parenteral	Tobramycin
NEGABAN	Parenteral	Temocillin
NETILMICIN	Parenteral	Netilmicin
OFLOXACIN	Parenteral	Ofloxacin
PEMBRITIN	Parenteral	Ampicillin
PENBRITIN	Parenteral	Ampicillin
PENICILLIN G	Parenteral	Benzylpenicillin
PENICILLIN G	Parenteral	Procaine benzylpenicillin
PENIDURAL	Parenteral	Benzathine benzylpenicillin
PIPERACILLIN	Parenteral	Piperacillin and enzyme inhibitor
PIPERACILLIN/TAZOBACTAM	Parenteral	Piperacillin and enzyme inhibitor
PRIMAXIN	Parenteral	Imipenem and enzyme inhibitor
RIFADIN	Parenteral	Rifampicin
RIFAMPICIN	Parenteral	Rifampicin
ROCEPHIN	Parenteral	Ceftriaxone
SECUROPEN	Parenteral	Azlocillin
SEPTRIN	Parenteral	Sulfamethoxazole and
	Deventerel	trimethoprim
	Parenteral	
SPORANOX	Parenteral	Itraconazole
	Parenteral	Streptomycin
	Parenteral	Doxycycline
	Parenteral	Quinupristin/daitopristin
	Parenteral	
	Parenteral	
	Parenteral	
TAZUCIN	Parenteral	Piperacillin and enzyme inhibitor

Trade name	Route	Active ingredient
TEICOPLANIN	Parenteral	Teicoplanin
TEMOCILLIN	Parenteral	Temocillin
TIGECYCLINE	Parenteral	Tigecycline
TIMENTIN	Parenteral	Ticarcillin and enzyme inhibitor
TOBRAMYCIN	Parenteral	Tobramycin
TROBICIN	Parenteral	Spectinomycin
TYGACIL	Parenteral	Tigecycline
VANACOMYCIN	Parenteral	Vancomycin
VANCOCIN	Parenteral	Vancomycin
VANCOMYCIN	Parenteral	Vancomycin
VELOSEF	Parenteral	Cefradine
VFEND	Parenteral	Voriconazole
VORICONAZOLE	Parenteral	Voriconazole
ZINACEF	Parenteral	Cefuroxime
ΖΥΥΟΧ	Parenteral	Linezolid

CODE	NAME OF THE MICROORGANISM	
	- A -	
ACHSPP	ACHROMOBACTER SPECIES	
ACIBAU	ACINETOBACTER BAUMANNII	
ACICAL	ACINETOBACTER CALCOACETICUS	
ACIHAE	ACINETOBACTER HAEMOLYTICUS	
ACILWO	ACINETOBACTER LWOFFI	
ACINSP	ACINETOBACTER SPECIES, not specified	
ACIOTH	ACINETOBACTER SPECIES, other	
ACTSPP	ACTINOMYCES SPECIES	
AEMSPP	AEROMONAS SPECIES	
AGRSPP	AGROBACTERIUM SPECIES	
ALCSPP	ALCALIGENES SPECIES	
ANANSP	ANAEROBES, not specified	
ANAOTH	ANAEROBES, other	
ASPFUM	ASPERGILLUS FUMIGATUS	
ASPNIG	ASPERGILLUS NIGER	
ASPNSP	ASPERGILLUS SPECIES, not specified	
ASPOTH	ASPERGILLUS SPECIES, other	
	- B -	
GNBNSP	BACILLI, GRAM NEGATIVE, not specified	
GNBOTH	BACILLI, GRAM NEGATIVE, NON ENTEROBACTERIACIAEA, other	
GPBNSP	BACILLI, GRAM POSITIVE, not specified	
GPBOTH	BACILLI, GRAM POSITIVE, other	
BACSPP	BACILLUS SPECIES	
BCTOTH	BACTERIA, other	
BATFRA	BACTEROIDES FRAGILIS	
BATOTH	BACTEROIDES, other	
BURCEP	BURKHOLDERIA CEPACIA	
	- C-	
CAMSPP	CAMPYLOBACTER SPECIES	
CANALB	CANDIDA ALBICANS	
CANGLA	CANDIDA GLABRATA	
CANKRU	CANDIDA KRUSEI	
CANPAR	CANDIDA PARAPSILOSIS	
CANNSP	CANDIDA SPECIES, not specified	
CANOTH	CANDIDA SPECIES, other	
CANTRO	CANDIDA TROPICALIS	
CHLSPP	CHLAMYDIA SPECIES	
CITFRE		
CITDIV	CITROBACTER KOSEKI (EX. DIVERSOS)	
CITNSP	CITROBACTER SPECIES, not specified	
CITOTH	CITROBACTER SPECIES, other	
CLODIF		
CLOOTH	CLOST RIDIUM, other	
GNCNSP	COCCI, GRAM NEGATIVE, not specified	
GNCOTH	COCCI, GRAM NEGATIVE, other	
GPCNSP	COCCI, GRAM POSITIVE, not specified	
GPCOTH	CORVERANT POSITIVE, OTHER	
CORSPP	CORYNEBACTERIUM SPECIES	

Appendix F: Microorganism code list

		-E-
	ENBAER	ENTEROBACTER AEROGENES
•	ENBAGG	ENTEROBACTER AGGLOMERANS
	ENBCLO	ENTEROBACTER CLOACAE
	ENBGER	ENTEROBACTER GERGOVIAE
	ENBSAK	ENTEROBACTER SAKAZAKII
	ENBNSP	ENTEROBACTER SPECIES, not specified
	ENBOTH	ENTEROBACTER SPECIES, other
	ETBNSP	ENTEROBACTERIACEAE, not specified
	ETBOTH	ENTEROBACTERIACEAE, other
	ENCFAE	ENTEROCOCCUS FAECALIS
	ENCFAI	ENTEROCOCCUS FAECIUM
•	ENCNSP	ENTEROCOCCUS SPECIES, not specified
	ENCOTH	ENTEROCOCCUS SPECIES, other
	ESCCOL	
		-F-
	FILOTH	FILAMENTS, other
	FLASPP	FLAVOBACTERIUM SPECIES
	FUNOTH	FUNGI, other
	CARCOR	- 0 -
	GAKSPP	GARDNERELLA SPECIES
	HACINE	- H -
	HAEINF	
	HAENSD	HAEMOPHILUS SPECIES, not specified
	HAFOTH	HAEMOPHILUS SPECIES, not specificat
	HAFSPP	HAENIA SPECIES
	HELPYL	HELICOBACTER PYLORI
		- K -
	KLEOXY	KLEBSIELLA OXYTOCA
	KLEPNE	KLEBSIELLA PNEUMONIAE
	KLENSP	KLEBSIELLA SPECIES, not specified
	KLEOTH	KLEBSIELLA SPECIES, other
		-L-
	LACSPP	LACTOBACILLUS SPECIES
	LEGSPP	LEGIONELLA SPECIES
	LISMON	LISTERIA MONOCYTOGENES
		- M -
	MORCAT	MORAXELLA CATHARRALIS
	MORNSP	MORAXELLA SPECIES, not specified
	MOROTH	MORAXELLA SPECIES, other
	MOGSPP	MORGANELLA SPECIES
	MYCATY	MYCOBACTERIUM, atypical
	MYDEDD	MYCOBIACIERIUM TUBERCULUSIS CUMPLEX
	MIPSPP	
	NEIMEN	NEISSERIA MENINGITIDIS
	NEINSD	NEISSERIA SDECIES, not specified
	NEIOTH	NEISSERIA SPECIES, other
	NOCSPP	NOCARDIA SPECIES

	- P -
PAROTH	PARASITES, other
PASSPP	PASTEURELLA SPECIES
PRESPP	PREVOTELLA SPECIES
PROSPP	PROPIONIBACTERIUM SPECIES
PRTMIR	PROTEUS MIRABILIS
PRTNSP	PROTEUS SPECIES, not specified
PRTOTH	PROTEUS SPECIES, other
PRTVUL	PROTEUS VULGARIS
PRVSPP	PROVIDENCIA SPECIES
PSENSP	PSEUDOMONADACEAE FAMILY, not specified
PSEOTH	PSEUDOMONADACEAE FAMILY, other
PSEAER	PSEUDOMONAS AERUGINOSA
	- 5 -
SALENT	SALMONELLA ENTERTIDIS
SALNSP	SALMONELLA SPECIES, not specified
SALUTH	SALMONELLA SPECIES, other
SALTYN	SALMONELLA TYPHIMURIUM
SERVIC	
SERLIQ	
SERIVIAR	SERRATIA MARCESCENS
SERINSP	SERRATIA SPECIES, not specified
SHISDD	
STAAUR	STAPHYLOCOCCUS AUREUS
STAEPI	STAPHYLOCOCCUS EPIDERMIDIS
STAHAE	STAPHYLOCOCCUS HAEMOLYTICUS
STACNS	STAPHYLOCOCCI, COAGULASE-NEGATIVE, not specified
STAOTH	STAPHYLOCOCCI, COAGULASE-NEGATIVE (CNS), other
STANSP	STAPHYLOCOCCUS SPECIES, not specified
STEMAL	STENOTROPHOMONAS MALTOPHILIA
STRHCG	STREPTOCOCCAE, HAEMOLYTIC (C, G), other
STRAGA	STREPTOCOCCUS AGALACTIAE (B)
STRPNE	STREPTOCOCCUS PNEUMONIAE
STRPYO	STREPTOCOCCUS PYOGENES (A)
STRNSP	STREPTOCOCCUS SPECIES, not specified
STROTH	STREPTOCOCCUS SPECIES, other
	- V -
VIRADV	ADENOVIRUS
VIRCMV	CYTOMEGALOVIRUS (CMV)
VIRENT	ENTEROVIRUS (POLIO, COASACNE, ECHO) HEPATITIS A VIRUS
VIRHBV	HEPATITIS B VIRUS
VIRHCV	HEPATITIS C VIRUS
VIRHIV	HUMAN IMMUNODEFICIENCY VIRUS (HIV)
VIRHSV	HERPES SIMPLEX VIRUS
VIRINA	INFLUENZA A VIKUS
VIRINC	INFLUENZA C VIRUS
VIRNOR	NOROVIRUS
VIRPIV	PARAINFLUENZAVIRUS
VIRRHI	RHINOVIRUS
VIRROT	ROTAVIRUS
VIRKSV	SARS-CORONAVIRUS
VIRVZV	VARICELLA-ZOSTER VIRUS
VIRNSP	VIRUS, not specified
VIROTH	VIRUS, other
	- Y -
YEAOTH	YEASTS, other VERSINIA SDECIES
- Charr	renamin ar celea