

Eurobact II Center Report Form

Eurobact 2 center n° _____

Section 1 - ICU Structure

1.1 The ICU is situated in a

- Teaching hospital
 Non-teaching Hospital

1.2 Funding

(please enter what is most prevalent, if less than 10% of private funding please enter public)

- Public
 Private
 Mixed

1.3 Type of ICU

- Mixed (medical-surgical)
 Medical
 Surgical

1.4 Specific recruitment (check all that apply)

- | | |
|-------------------------------------------|----------------------------------------|
| <input type="checkbox"/> General | <input type="checkbox"/> Paediatric |
| <input type="checkbox"/> Cardiac-Surgical | <input type="checkbox"/> Coronary-Care |
| <input type="checkbox"/> Post-Operative | |
| <input type="checkbox"/> Neuro-surgical | |
| <input type="checkbox"/> Trauma | <input type="checkbox"/> Burns |

1.5 Structure of the ICU

- Open-ICU
 Closed ICU

1.6 Number of Ventilator equivalent beds in the ICU _____

(what is the maximum number of ventilated patients your ICU can accommodate at one time)

1.7 Number of non-ventilator capable or High dependency unit (HDU) beds in the ICU _____

(additionally to the ventilator equivalent beds, are there any beds available for lower acuity or a different group of patients)

1.8 How many nurses are available in the ICU for patient care at a given time _____

(if variable please provide the mean)

1.9 How many Doctors are available in the ICU for patient care at a given time _____

(if variable please provide the mean)

Of which ____ senior level, ____ junior or in training

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- 1.10 The ICU has 24-hour medical coverage by (check all that apply)
- Physicians in training
 - Staff physicians
- 1.11 A general surgery team and an operating theatre is usually available for emergency operations:
- 24/7
 - During the day (but not at night)
 - Weekdays but not the weekend
- 1.12 Severity score most commonly used in your ICU (one possible answer)
- None SAPSII SAPSIII APACHE II APACHEIII APACHE IV
- ANZROD OTHER

Section 2 – ID and Antibiotics

- 2.1 Infectious diseases (ID) specialists or clinical microbiologists are consulted (check all that apply):
- Never or sporadically.
 - When required, only during business hours.
 - When required, 24/7.
 - Available as part of the permanent staff of the ICU, or at least one ICU physician is an ID specialist.
 - Scheduled ID rounds or multidisciplinary meetings, at least weekly.
- 2.2 Clinical pharmacists are consulted (check all that apply)
- Never or sporadically.
 - Available only during business hours.
 - Available when requested 24/7.
 - Available as part of the permanent staff of the ICU.
 - Scheduled multidisciplinary staff meetings.
- 2.3 Choice of empirical antibiotic treatment is determined by (check all that apply):
- Local infection treatment guidelines
 - National/international infection treatment guidelines
 - Surveillance cultures
 - Routine consultation of infectious diseases specialists, microbiologists or clinical pharmacists
 - The treating physician.
 - none of the above
- 2.4 Selective oropharyngeal and/or digestive tract decontamination is used:
- Never
 - In All ICU patients
 - In a selected group of patients, please specify _____

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- 2.5 Surveillance cultures and screening for multidrug resistant organism carriage is performed:
- Never
 - Only when clinically indicated
 - For all (most) patients, on admission
 - For all (most) patients, on admission and at least once weekly during the ICU stay
- 2.6 Central Vein Catheter tip culture is performed:
- Never
 - Only when clinically indicated
 - Every-time a catheter is removed
- 2.7 In case of fever or hypothermia, blood cultures are taken
- Following a written protocol and initiated by nurses if the temperature reaches a threshold.
 - Routinely performed by nurses without a specific written protocol.
 - Only if prescribed by specific physician order.
- 2.8 Following a positive blood culture, do you check for microbiological resolution with a follow-up blood culture within the next 4 days? Most commonly:
- A subsequent blood-culture is taken every 1 or 2 days until resolution is confirmed.
 - At least 1 subsequent blood culture is taken within the following 4 days.
 - Only if clinical signs of sepsis or infection persist.
 - Practice is variable owing to attending clinician's preference
 - Unfrequently or never.
- 2.9 With regards to source control, when an infection is suspected, surgical site or procedural site specimens are taken and sent for culture:
- Never
 - Always
 - Most frequently
 - Only when requested by the treating physician
- 2.10 Regarding Therapeutic Drug Monitoring (TDM) for the following antibiotics:
- Aminoglycosides
- TDM is not available
 - TDM is available at least once a week
 - TDM is available everyday
- Results are usually available:
- within a few hours
 - within 24 hours
 - More than 24 hours after
- Vancomycin
- TDM is not available
 - TDM is available at least once a week
 - TDM is available everyday
- Results are available:

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- within a few hours
- within 24 hours
- More than 24 hours after sampling

Beta-Lactams

- TDM is not available
- TDM is available at least once a week
- TDM is available everyday

Results are available:

- within a few hours
- within 24 hours
- More than 24 hours after sampling

2.11 Does your ICU use hydrocortisone for the following indications? (one possible answer)

- Sepsis
- Septic shock
- Septic shock with high vasoactive drugs requirements, please specify _____ (unit selector)

If yes:

what dosing regimen: (one possible answer)

- 50mg intravenously every 6 hours
- 200mg/24 hrs continuous intravenous infusion
- Other, please specify _____

Does your ICU use fludrocortisone in addition to hydrocortisone:

- Yes No

What is the usual duration of treatment (one possible answer)

- 7 days or until ICU discharge
- Until resolution of shock
- Other, please specify _____

Section 3 – Microbiology and Laboratory practices

This section is intended to be completed by the microbiologist

3.1 Location of the microbiology lab where blood cultures are processed

- Inside the hospital or in the same campus
- At another hospital with a partnership or agreement
- Off site at an independent microbiology laboratory

3.2 When blood cultures are taken, is incubation started (check all that apply)

- 24 hours / 7 days a week.
- If taken at night they will be processed in the morning.
- If taken during the weekend they will be processed on the Monday.

3.3 Automated blood culture processing is used

- No
- Yes, Bactec
- Yes, BactAlert
- Yes, Other _____

3.4 Is there monitoring for positive blood cultures:

(is someone able to check and process any positive blood culture at those times)

- 24 hours / 7 days a week
- Every day (including week-end), but not at night
- During business hours of week days only (not weekends nor nights)

3.5 The results of direct microscopic examination (Gram's stain) of a positive blood culture are reported.(multiple possible answers)

- They are not reported
- On paper
- Electronic system (up to the clinician to check).
- Personal contact (e.g. phone call or any other alert) 24/7, as soon as the result is available.
- Personal contact during week days, business hours only (not night or weekends).
- Personal contact during the day, 7 days a week.

3.6 Time to positivity is reported :

- Not reported
- Reported depending on bacterial species (this should open a short list of choices)
- Always reported.

3.7 Do you use molecular test for *S. aureus* identification and methicillin resistance detection when Gram positive cocci are seen at the direct smear examination of a positive blood culture?

- Yes
- No

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3.8 Do you perform an antibiotic susceptibility test:

- Directly from the positive blood culture (unless the direct smear examination shows different bacteria)
- From a sub-culture of the positive blood culture

3.9 Interpretation of antibiotic susceptibility is done following the recommendations of:

- EUCAST
- CLSI
- Other, please specify _____

3.10 Susceptibility testing is routinely performed by:

- disk diffusion
- broth dilution test
- Other, please specify _____

3.11 MIC determination is performed by:

- broth dilution test
- E-test
- Both, depending on the antibiotic
- No MIC is performed

3.12 In case of multidrug resistant bacteria, do you perform (check all that applies):

- Phenotypic tests to confirm the underlying mechanism (e.g. DDST, betalacta-test, CARBA-NP)
ticking this opens sublist of tickboxes with what is above + free textfield please describe
- Molecular tests (e.g. commercial panels, home-brewed PCRs)
ticking this opens free textfield please describe
- Whole genome sequencing
- None of the above

3.13 The results of susceptibility testing and the antibiogram are reported to the treating physician:

- Not reported
- On paper
- Electronic system.
- Personal contact (e.g. phone call) 24/7, as soon as the result is available.
- Personal contact during business hours only (not night or weekends).
- Personal contact during the day, 7 days a week.

3.14 Susceptibility results are reported to the treating physician:

- Selectively (in other words not all agents that are tested are reported)
- All antibiotic agents that are tested are reported

3.15 Does your lab routinely provide susceptibility results as (check all that apply):

- Sensitive /Resistant (without further detail)
- Inhibition zones diameter with interpretation S/I/R
- MIC data

Section 4 – Background resistance levels

4.1 Percentage of *Staphylococcus aureus* isolates resistant to methicillin (MRSA):

In the ICU: less than 10 % 10 to 25 % 25 to 50% more than 50% Unknown

In the hospital: less than 10 % 10 to 25 % 25 to 50% more than 50% Unknown

4.2 Percentage of *Enterococcus* spp. isolates resistant to vancomycin (VRE):

In the ICU: less than 10 % 10 to 25 % 25 to 50% more than 50% Unknown

In the hospital: less than 10 % 10 to 25 % 25 to 50% more than 50% Unknown

4.3 Percentage of *Enterobacteriaceae* isolates producing extended-spectrum β -lactamase (ESBL):

In the ICU: less than 10 % 10 to 25 % 25 to 50% more than 50% Unknown

In the hospital: less than 10 % 10 to 25 % 25 to 50% more than 50% Unknown

4.4 Percentage of *Enterobacteriaceae* isolates producing carbapenemases:

In the ICU: less than 5 % less than 10 % 10 to 25 % 25 to 50%

more than 50% Unknown

In the hospital: less than 5 % less than 10 % 10 to 25 % 25 to 50%

more than 50% Unknown

Definitions (Should go as hover text in the e-crf)

Open/Closed ICU: “Open” means the physician responsible for the patient admits the patient to the ICU and keeps the formal responsibility for the patient and his treatment. The intensivist is a consultant without primary responsibility for the patient. A “closed” format means the patient is admitted to the ICU and the responsibility for the patient and his treatment is transferred to the intensivist.