

Attachment 2: Knowledge test and scoring scheme

Classification of questions

Bloom level: remembering	1
1. Open questions (0.5 points per partial answer)	1
2. Closed questions (1 point per partial answer)	2
3. Definitions (2 points per answer)	3
Bloom level: understanding	3
4. Explanation (2 points per answer).....	3
5. Transfer questions with list (1 point per partial answer).....	4
6. Case-based transfer questions (1 point per partial answer).....	4

Answers that are partially correct will be awarded 50% of the points available. This does not include answers that are worth 0.5 points.
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Bloom level: remember

1. Open questions (0.5 points per partial answer)

a_bericht *What information is documented in the surgery report?*
List as many examples as possible.

- Incision type
- Condition of the surgical site
- Surgical measures
- Wound closure type
- Information about the surgical team
- Chronological sequence of the surgery
- Particularities to be taken into account postoperatively
- Implant type
- Implant serial number
- Date of implantation

a_check Which aspects are checked in the operating room before each procedure?
List as many examples as possible.

- Is this the right patient?
- Which surgery is to be performed?
- Which side is the surgery to be performed on?
- Are all preliminary findings that are important for the surgery known?
- Is banked blood available if needed?
- Does the patient have any allergies?
- Does the patient have any other special risks such as cardiovascular disease?
- Does the patient require antibiotics?
- Are all the materials needed for the surgery present?

2. Closed questions (1 point per partial answer)

a_zeit What is the minimum amount of time for which hands should be kept moist with disinfectant during hygienic hand disinfection?? How long during surgical hand disinfection?

- Hygienic: 30 seconds
- Surgical: 3-5 minutes (3, 4 or 5 is correct)

a_kleidung Where, or under what circumstances, may green surgical clothing be worn?

- In aseptic ORs
- During patient transports to the intensive care unit
- When working in the trauma room with blue gown

a_anaesthesia Which anesthetic procedures do not fall under the term "general anesthesia"?

- Regional anesthesia
- Spinal anesthesia

a_vollnarkose Which mental functions are always inhibited during general anesthesia?

- Consciousness
- Pain sensation
- Memory

a_atemfunktion What can be used to ensure respiratory function during general anesthesia?

- Mask ventilation/ laryngeal mask
- Endotracheal intubation

a_herzschrittmacher What must be observed when attaching adhesive defibrillation electrodes if the patient is dependent on a pacemaker?

- 8cm distance from the unit
- Current flow should be as perpendicular as possible to the presumed pathway of the pacemaker cable

a_verhaeltnis *What is the ratio between the amount of energy and body weight when defibrillating children?*

- 4 joules per kilogram

a_temperatur *Where can the patient's temperature be measured during surgery?*

- Auditory canal
- Esophagus
- Urinary catheter
- Rectally

a_risiko *Name the risk factors for aspiration.*

- Pregnancy
- Non-NPO status
- Obesity

a_umbettanlage *What are the characteristics of the stationary patient transfer unit?*

- Computer-controlled
- Skin-friendly
- Resistant to disinfectants
- Preheated

3. Definitions (2 points per answer)

a_nosokomial *What does the term "nosocomial" refer to?*

- Germs and infections acquired in the hospital.

a_letalitaet *Define the term lethality in a few words.*

- The ratio of deaths to the number of acutely affected persons.

a_schutzbereich *What characterizes the "sterile area" in the operating room?*

- Microbial contamination is reduced in the protected area by means of ventilation technology.

Bloom level: understand

4. Explanation (2 points per answer)

v_schockraum *Why must a blue gown be worn over green scrubs while working in the trauma room?*

- The blue gown serves as a visual warning signal that newly arrived patients are potentially septic.

v_kinder *Why do children and infants lose body heat significantly faster under general anesthesia than adults?*

- Metabolic situation
- Disproportionately large body surface

5. Transfer questions with list (1 point per partial answer)

v_konsequenzen *List the negative consequences that can potentially result from an incomplete surgery report.*

- Surgeon is unable to defend themselves in the event of a lawsuit
- Surgeon faces legal consequences as they are obligated to maintain documentation.
- Patient cannot be fully informed about the procedure.
- Subsequent physicians are unable to access information.

v_voraussetzungen *List the prerequisites that must be met for properly performed hygienic hand disinfection to be effective.*

- Unpainted fingernails
- Short fingernails
- No infections
- No nail bed injuries
- No jewelry worn on hands

6. Case-based transfer questions (1 point per partial answer)

v_fraktur *How do you transfer a patient with a clavicle fracture in the patient transfer area? Why are the two alternatives not an option?*

- Using the stationary patient transfer unit
- Reasons
 - Premedication could cause orthostatic problems when the patient gets up
 - Sliding over on their own is too painful due to the fracture and could lead to further tissue damage.

v_tumor *Severe bleeding occurs during gastroenterological tumor removal. What does the type of surgery and bleeding indicate with regard to perioperative antimicrobial prophylaxis?*

- Repeated administration of antimicrobial agent
- Administration of an antibiotic that is effective against anaerobes

v_verbrennung *A patient complains of burns to the skin on his back after a surgical procedure. What could have caused these?*

- Patient was wet during use of electrocautery

v_antiseptikum *What should ideally characterize the antiseptic used during a hysterectomy that lasts several hours?*

- Low irritant effect on mucous membranes
- Residual effect