PRESENTATION OF
Supply services,
Service for hygiene of premises and equipment in UMC Ljubljana

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SS – Supply services within UMC

• Approximately 650 employees

• HIERARCHY:
  – Head of supply services
  – Leaders within supply services
  – Team leaders within supply services
SS – Supply services within UMC

• EMPLOYED WITHIN SUPPLY SERVICES:
  – Nurses
  – Sanitary engineers
  – Hospital attendants
  – Servers, housekeepers, couriers, telephone operators, suppliers, informers, etc.
SS – Supply services within UMC

- Administrative and management services
- SHPE – service for hygiene of premises and equipment
- SSHL - supply service for hospital linen
- CCRS – central courier and refreshment (tea) service
- CS – central sterilization
- PES – patient escort service
- GIS – general information services
Cleaning process within UMC

- **SHPE**
  - approximately 60%
- **Internal cleaning**
  - approximately 10%
- **Outsourced cleaning**
  - approximately 30%
SHPE – Service for hygiene of premises and equipment

- Approximately 300 employees
- WORKFORCE:
  - 11 sanitary engineers
  - 2 sanitary technicians
  - 2 administrators
  - 267 housekeepers
SHPE – Presence

- HEAD OF SHPE – Monday to Friday – from 7AM until 3PM (by telephone 24/7)
- SANITARY ENGINEERS:
  - Morning: from 5:45 – 13:45 (2) or 6:30 – 14:30
  - Afternoon: from 12:30 – 20:30 or 12:45 – 20:45 (2)
  - Sat., Sun, holidays: from 8:00 – 19:00
- HOUSEKEEPERS:
  - Morning: 6:00 – 13:00 or 6:30 – 13:30
  - Afternoon: 13:00 – 20:00 or 13:30 – 20:30
  - Night: 20:00 – 6:00 (4 housekeepers)
SHPO – Work field

• Organization of the daily working process
• Internal and external cleaning control
• Control by ATP swabs
• Control by GC (glow check) method
• AD – Aerosol decontamination
• Education of employees
• Bed station - bed and equipment cleaning
• DPC - disinsection, pest control
• It differs according to the complexity of the premises:
  – OPERATIONG ROOMS
  – ROOMS WITH HIGH RISK - rooms where invasive procedures are also performed
  – ROOMS WITH INCREASED RISK
  – OTHER ROOMS (hospital rooms, etc.)
SHPE – Daily OR cleaning
SHPE – Daily cleaning of premises with increased risk – ICU
SHPE – Daily cleaning of premises
SHPE – ATP control

• ATP - adenosine triphosphate
• ATP – is present in all plant, animal and microbial cells
• ATP – is always present in organic residues (body fluids, skin cells, microorganisms ...) - provides an excellent organic pollution marker
• EXECUTION:
  – Luminometer
  – Swabs
  – Pre-set values
  – Results known immediately
  – Immediate action/effect
SHPO – ATP control

- Results:
SHPO – Glow check control

• Unannounced checks in departments
• Predetermined marking points
• Always critical points for transmission of infection
• Perform control on the same day
• Min. result must be 70%, otherwise we reeducate and (without announcement) repeat the procedure
SHPE – AD – Aerosol decontamination

- Used in UMC since August 2013
- 3 machines are in use
SHPE – AD – Aerosol decontamination

- Regular decontamination of: ICU, operating rooms, clinics, hospital rooms
- Additional AD (after disinfection cleaning) of the premises, when the room was occupied with patients with resistant MO or with a long-term hospital infection (over 20 days).
SHPE – AD – Aerosol decontamination

- WORKS ON THE BASIS OF: orthophosphoric acid, hydrogen peroxide, silver cations and deionized water

- LIQUID GETS VAPORIZED INTO FINE MIST OF PARTICLES IN SIZE RANGE: of 8 -12 µm

- DISINFECTING AGENT REACHES HARD TO REACH PLACES
SHPE – AD – Aerosol decontamination
• WE SEPARETE:
  – SPECIAL EDUCATION - before starting work
  – PERIODICALLY RENEWED EDUCATION
  – DAILY, ON THE JOB EDUCATION
• SPECIAL EDUCATION:
  – For all employees before starting work at UMC, including knowledge test
  – It includes:
    • fire safety
    • separation and waste management
    • hospital infections, transmission of infectious diseases and
    • personal safety equipment
• PERIODICALLY RENEWED EDUCATION

- Proper work and handling of work machines and work equipment
- Proper handling of chemicals
- Proper use of personal protective equipment in case of hemorrhagic fever (e.g. EBOLA)
- Proper cleaning of the protective chamber for transporting patients with hemorrhagic fever and other high-risk infections
- Proper washing and disinfection of hands
- Proper use, equipping and removal of personal protective equipment in hospital infections
- Proper use of cleaning and disinfecting agents
- Proper handling and waste disposal
- The correct order and cleaning procedures (GC, ATP)
- Importance of vaccination
- Interclinical seminars - different contents
SHPE – Education

• **DAILY, ON THE JOB EDUCATION**
  
  – Proper work depending on the department
  
  – Work with exceptional epidemiological conditions in the department
  
  – After retest – ATP
  
  – After poor GC (less than 70%)
  
  – After recleaning – poor first-time cleaning
  
  – According to the needs that appear on a daily basis
SHPE – BS – Bed station

- CLEANING OF BEDS AND OTHER PATIENTS MOVABLE EQUIPMENT IS ACHIEVED IN 2 WAYS:
  - by the housekeepers within the departments
  - in the bed station
• Regular removal of movable dirty patient equipment from the department is organized

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<thead>
<tr>
<th>Monday - Friday</th>
<th>Saturday</th>
<th>Sunday and holidays</th>
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<td>Delivery from CD infront of the elevator after 7PM</td>
<td>REMOVAL at 7 AM</td>
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<td>REMOVAL at 6:30</td>
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<tr>
<td>Delivery from CD infront of the elevator before 11AM</td>
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<td>REMOVAL at 2 PM</td>
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*CD-Clinical department
• The dirty items are stored in the unclean part of the bed station
SHPE – BS – Bed station

- We start with wet (disinfectant) cleaning of the bed frame, washing of all the beddings and sterilization of the mattress.

1. trapezoidal, infusion stand
2. bedside at the head
3. side rails from the head to the foot
4. bedside at the foot
5. disassembled bed bottom
6. chassis and wheels
SHPE – BS – Bed station
SHPE – BS – Bed station

• Other equipment:

- Transport carts
- Bedside lockers
- Antidekubitus cushion
- Thermo-dezinfektion of other equipment
SHPE – BS – Bed station

- Storing of cleaned hospital beds in the bed station and delivery of beds to the departments (marked + covered)
Working hours of the bed station:

• Monday – Friday: 7 AM – 3 PM
• Saturday: 7 AM – 3 PM
• Outside normal working hours in case of emergency contact on duty sanitary engineer on extension 86-04 by 8 PM.
• For night time emergency call CKP on ext. 32-32
SHPE - DPC - disinsection, pest control

• UMC is the execution coordinator:
  - contact no.: 31 – 58 or 29 - 76
  - to set up an agreement for execution

• We separate:
  – continuous implementation (monthly) and
  – execution after an order

• The contractor is outsourced – he executes DPC when ordered
Thank you for your time and attention