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Procedures of hygiene services and protection of the hospital environment: [presentation given on May 23, 2012]

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Procedures of Hygiene Services and protection of the hospital environment

Wednesday, May 23, 2012
AUK, Prishtina, Kosovo

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Infection control (IC) and Healthcare Associated Infections (HCAI)

IC medical discipline & HCAI can be devastating even deadly

- **HCAI affects annually:**
  EU > 4 million patients, USA > 1.7 million patients

- **Expenses:**
  Europe = 7 billion € & 16 million extra days of hospital stay
  USA = $ 6.5 billion

Approximately 20 - 30% of HCAI are considered to be preventable by intensive hygiene and control programmes

- **Infection rate:**

![Infection Rate Chart]

- Albania: 19%
- Kosova: 17%
- USA: 7.50%
- EU: 7%

Infection Control in Kosovo’s legislation

- **IC in Kosovo** - through initiatives organized by Canadian Public Health Association on 2000
- **February 2004** – MoH compiled the program for prevention of HCAI
- **September 2005** – IC as course in teaching process at Medical Faculty
- **December 2005** - outbreak of the HCAI at CICU at UCCK - underestimate from the GoK
- **May 2006** - MoH established the Kosovar Council for Prevention and Control (KCPC) of HCAI
- **On 2007** - KCPC in UCCK was gathered for the last time
- **On 7th April 2011** - Strategy and the Action Plan for Antimicrobial Resistance
- **On 3rd of November 2011** - Administrative Instruction No.05/2011 for Prevention and Control of Hospital Infection

![Organization chart](image-url)
Clinical data with Acinetobacter baumanii isolated in CICU in UCCK
March 16th - July 17th 2006 (www.bjid.com.br - by Dr. Lul Raka)

<table>
<thead>
<tr>
<th>No. of patients</th>
<th>Gender / age</th>
<th>Day of isolation</th>
<th>Length of stay / day</th>
<th>Diagnosis</th>
<th>Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>24 males</td>
<td>3 - 26</td>
<td>4 - 59</td>
<td>Tumor Cerebral Cerebral Infarct Diabetes Politrauma Cardiac arrest Myocardia Peritonitis</td>
<td>Died 16</td>
</tr>
<tr>
<td></td>
<td>6 females</td>
<td></td>
<td></td>
<td></td>
<td>Recovered 8</td>
</tr>
<tr>
<td></td>
<td>Age 2-82</td>
<td></td>
<td></td>
<td></td>
<td>Transferred 6</td>
</tr>
</tbody>
</table>
Central Intensive Unit in University Clinical Center
1. RECOGNIZE

2. EXPLAIN

3. ACT

- Dr. Pittet D. Infection control and quality health care in the new millennium. AJIC 2005;33(5):234--244.
Government's funds for healthcare

The allocation of the Kosovo Budget for MoH~ 7% - 9%.

Hospital services to UCCK 51.11%.
Health expenditures per capita (€) and as percentage of GDP Region and Europe (www.who.int/2006)
Budget allocation from MoH to UCCK

Allocation of the MoH budget to UCCK~25%

Allocation of the UCCK budget to EVS~4.01%

Allocation of the UCCK budget to CI~20%

Facility renovation 40%
Medical equipment 60%

Source: Capital Investment Unit/MoH
Capital investments in University Clinical Center
Are these proper renovations???
Capital investments in University Clinical Center
60% of budget goes for these medical equipment!!!!!!!
Key issues that impact improvement of EVS

- EVS is a functional unit of a HF, responsible for maintenance of environment and housekeeping

Strategy plan for functioning of UCCK

Financial resources
Primary & other factors that affect EVS in UCCK

Primary factors
- Lack of strategy
- Lack of funds
- Lack of professional staff
- Design of current HF
- Poor management
- Lack of EVS procedures

Other factors
- Lack of support from MoH
- Lack of cooperation
- Lack of continuous trainings
- Poor facility infrastructure
- No organizational hierarchy
- Influx of patients and visitors
“If you think that health is expensive, than try disease!”

Mary Lasker
“Lasker Foundation”
Research methodology

• Standard questionnaire, and
• Face to face interview with:
  * 100 Healthcare workers
  * 100 patients&visitors
EVS are substandard...
Environmental Services in University Clinical Center

The current situation across UCCK in Prishtina

Pictures taken by myself
Unspecialized companies should not be engaged!!!
“Professional” EVS companies in University Clinical Center

The current situation across UCCK in Prishtina

Pictures taken by myself
Survey results - patients

EVS performance

EVS based on clinics

Gynecology  Intensive Care  Pediatric  Chest  Eye  Surgery  Neurology  Oncology  Orthopedic  Infectology
Survey results - patients

Unprofessional housekeeper: 82% agree, 18% neutral.

Enforce penalties to EVS: 88% agree, 7% neutral, 5% disagree.

No quality of disinfections: 80% agree, 18% neutral, 2% disagree.

EVS - remain the same: 84% agree, 16% disagree.

Do not recommend UCCK: 81% agree, 10% neutral, 9% disagree.
Survey results - HCWs

EVS-constant training
- Agree: 52%
- Strongly agree: 46%
- Disagree: 2%

Infection control unit-inefficient
- Agree: 82%
- Neutral: 17%
- Disagree: 1%

UCCK design-substandard
- Agree: 67%
- Neutral: 30%
- Disagree: 3%

UCCK establish EVS unit
- Agree: 92%
- Neutral: 8%

HCWs provide suggestion for EVS
- Agree: 95%
- Neutral: 5%

GoK-increase funds
- Agree: 94%
- Neutral: 6%
- Disagree: 0%
Cleaning procedures in hospital facilities

Develop effective procedures for EVS:
- 7 Steps of cleaning
- Final Inspection

1. Pull trash and linen
2. High dust process
3. Damp wipe contact surfaces
4. Clean thoroughly the toilet
5. Dust mop
6. Dump mop all areas
7. Final inspection
Capstone Project’s 4 MAIN recommendations are:

• Assuring financial resources for EVS
• Drafting a strategy for UCCK
• Engaging professionals
• Increase capacity buildings

Other recommendations:

• Establish EVS unit
• Control of disinfectants
• Empower the Infection Control Unit
• Training
• Prevent influx
• Capital Investments
Budget for EVS in University Clinical Center

The Ministry of Health should increase the budget for Environmental Services by €953,646 to €1,360,150/year.

Increasing will ensure sustainable performance and proper services for years to come.

Salaries – include engagement of 329 employees which value come up to 1,061,400€/year

Equipment – includes motorized with 58,300€ and manual ones 64,650€

Disinfectants means – its annual value is 175,800€
Strategy for University Clinical Center

- **The Strategy** - should be created during 2012

- Include sub-strategies for infrastructure, staff engagement, trainings, medical equipment, and medical disposal supply

- Will lay out the five years long term plan beginning from 2013-2018 in accordance with European standards.
Recommendations

**Building capacity**
- Improvement of the current design and create areas as: waiting areas, toilets, utility
- Engage professional designers and use similar practices from the region

**Professional companies for EVS**
- Engage trained staff to conduct environmental services
- Encourage competition among companies

**Establish an EVS unit**
- Creating a special unit organized by hierarchy
- Monitoring of daily engagement by managers of EVS

**Preliminary inspection of disinfectants**
- Using proper disinfectants means as antibacterial
- Inspection of disinfectants in National Institute of Public Health
Recommendations

**Empower Infection Control Unit**
- ICU – enforce penalties to HCWs and EVS officials
- Act as a control body to monitor and prevent outbreak of infection

**Trainings**
- Provide continuous trainings of EVS
- Provide trainings of infection control prevention

**Full use of hospital capacities**
- Increase current use of 70% of bed to 100%
- Invest in technical supply as heating, ventilation, water-supply

**Prevent the influx of visitors**
- Prevention of cross contamination
- Respect the schedule
A great model to follow
The Regional Hospital in Prizren
Not a utopia but reality –
Deutsches Herzzentrum in Berlin
UCCK will have a long way to go to achieve this George Washington University Hospital
“Children are our most valuable resource” (Herbert Hoover, 31st US president) – Children National Medical Center
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