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

Nora Binishi-Dushi

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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

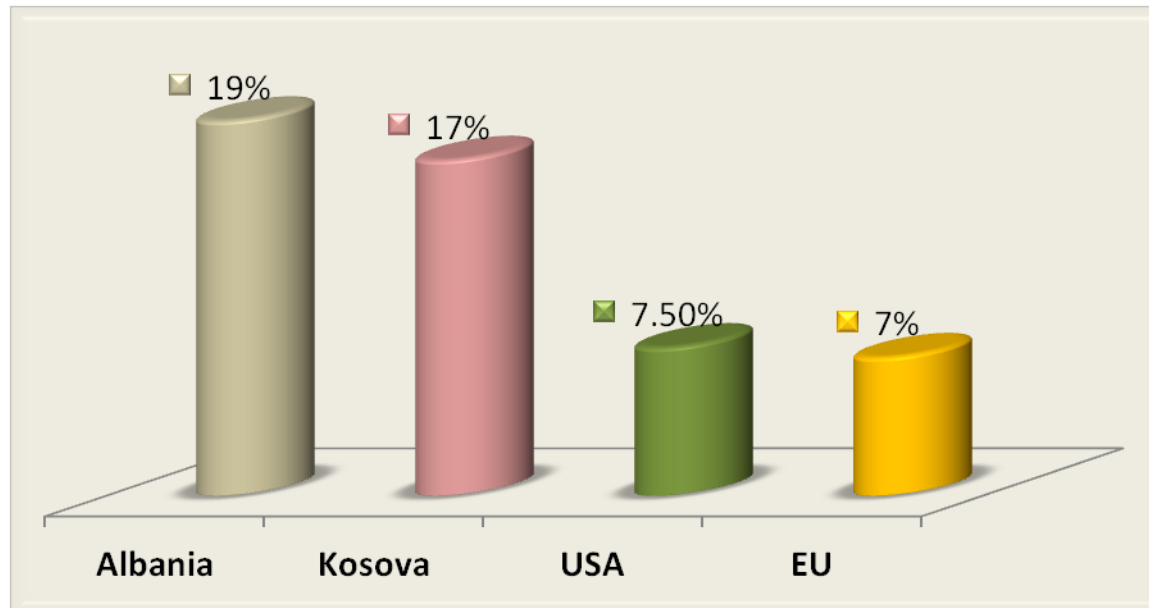
➤ **Expenses:**

Europe = 7 billion € & 16 million extra days of hospital stay

USA = \$ 6.5 billion

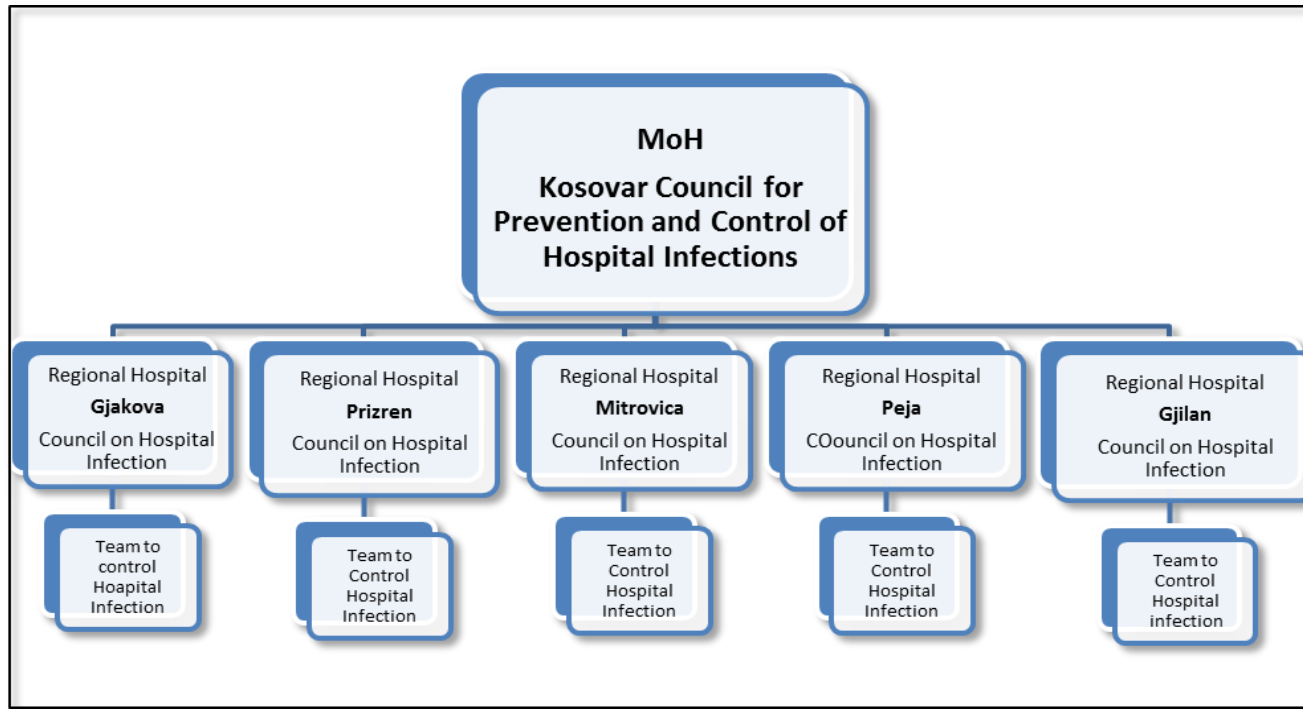
Approximately 20 - 30% of HCAI are considered to be preventable by intensive hygiene and control programmes

➤ **Infection rate:**



Infection 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

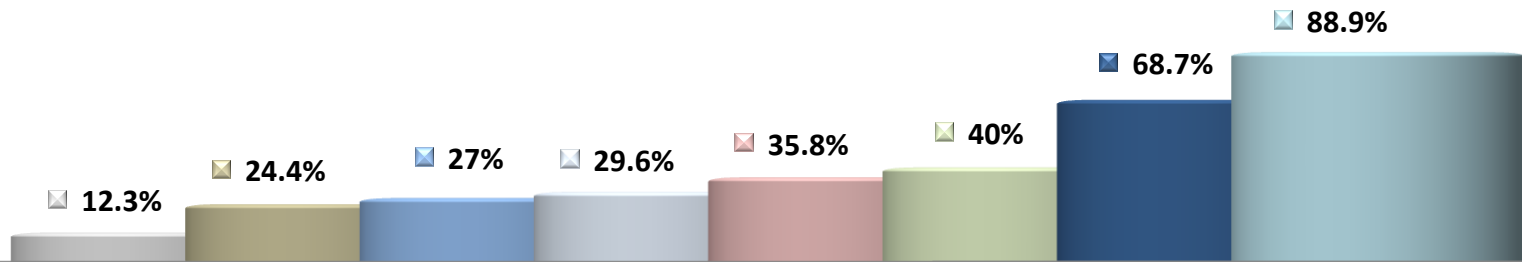


Organization chart
by AI No.05/2011

HCAI rates from emerging countries in CICU and Kosovo

Source: Dr. Lul Raka, Dr. D. Zoutman www.elsevierhealth.com/journals

- India (2005)
- Mexico (2006)
- Argentina (2003)
- Brazil (2006)
- Saudi Arabia (2002)
- Tanzania (2003)
- Kosova (2006)
- Turkey (2005)



Clinical data with *Acinetobacter baumannii* isolated in CICU in UCCK
 March 16th - July 17th 2006 (www.bjid.com.br - by Dr. Lul Raka)

| No. of patients | Gender / age | Day of isolation | Length of stay / day | Diagnosis | Outcome |
|-----------------|--------------|------------------|----------------------|--|---|
| 30 | 24 males | 3 - 26 | 4 - 59 | Tumor Cerebral Cerebral Infarct Diabetes Politrauma Cardiac arrest Myocardia Peritonitis | Died 16 Recovered 8 Transferred 6 |
| | 6 females | | | | |
| | Age 2-82 | | | | |

Central Intensive Unit in University Clinical Center





1. RECOGNIZE



2. EXPLAIN

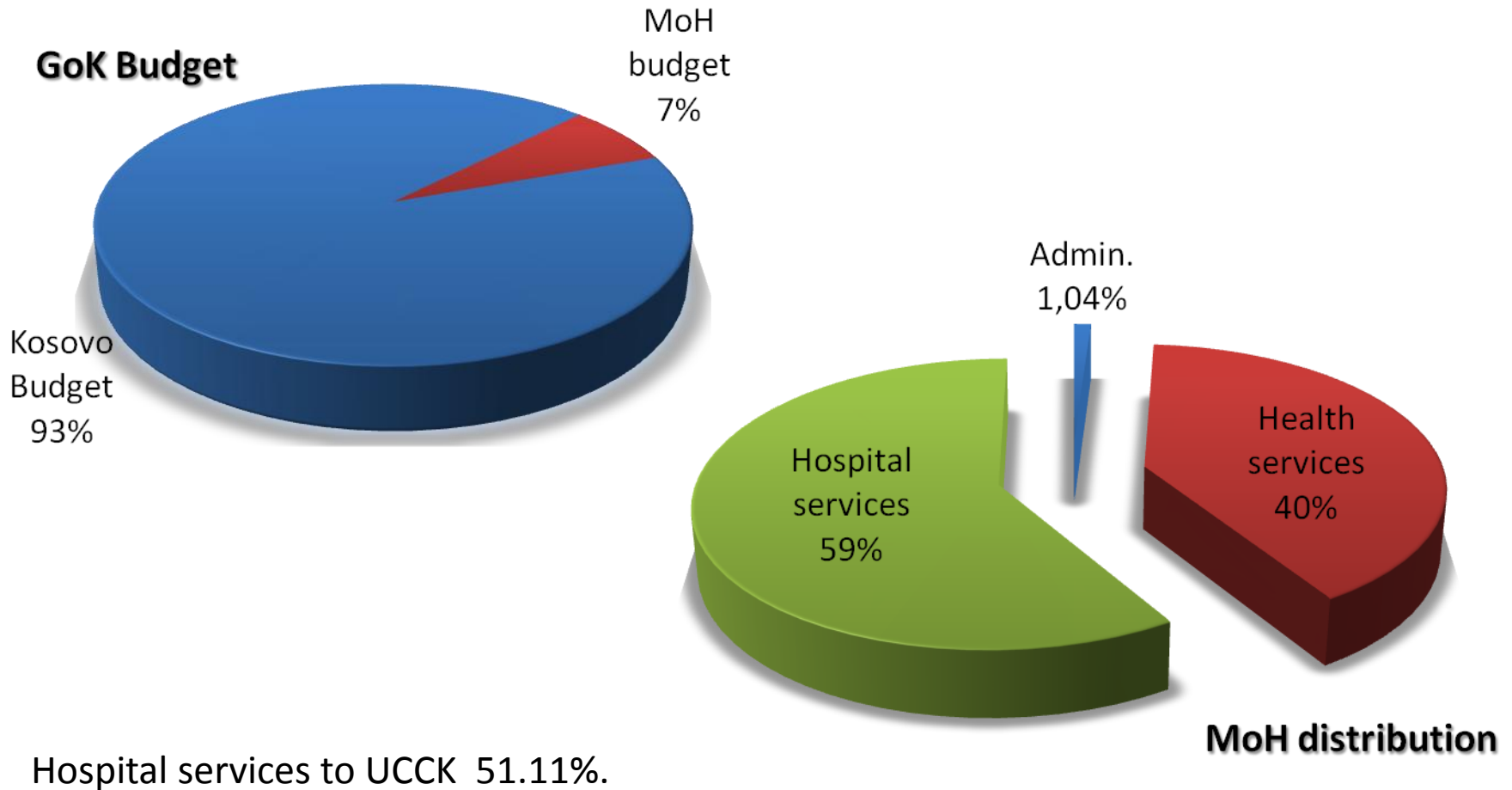


3. ACT

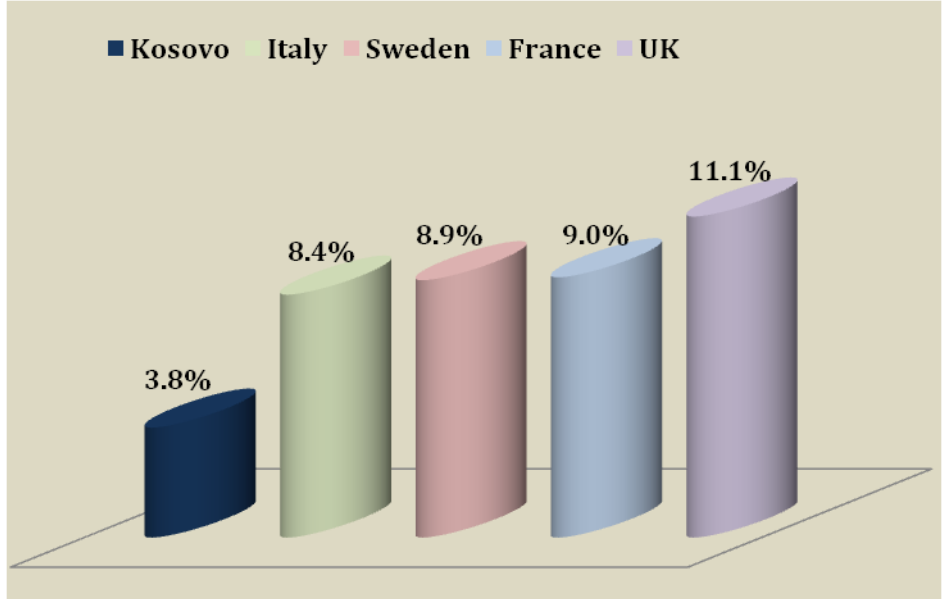
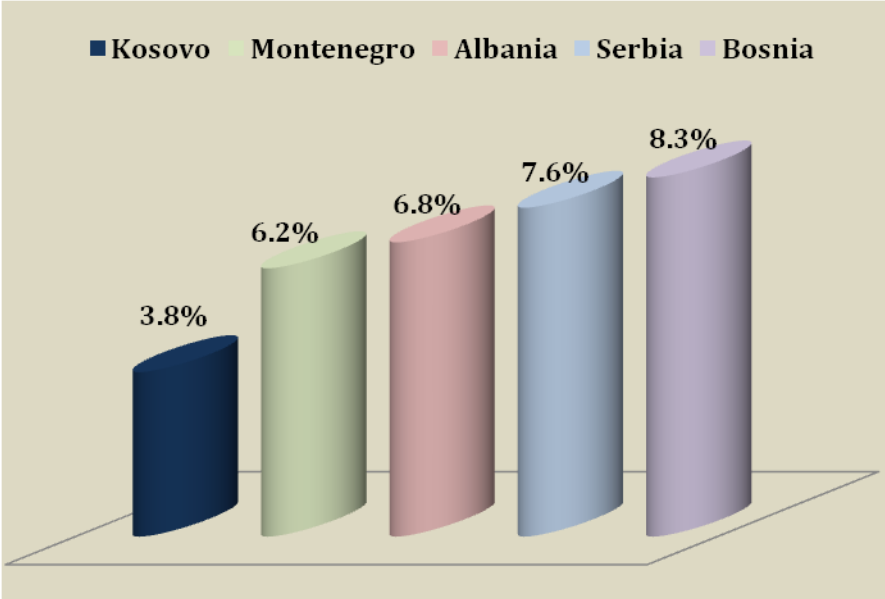
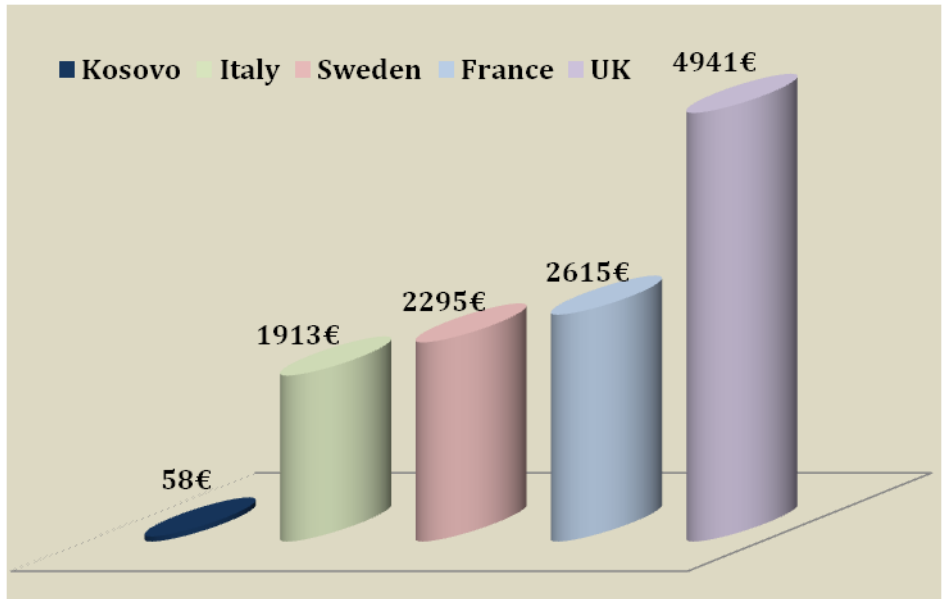
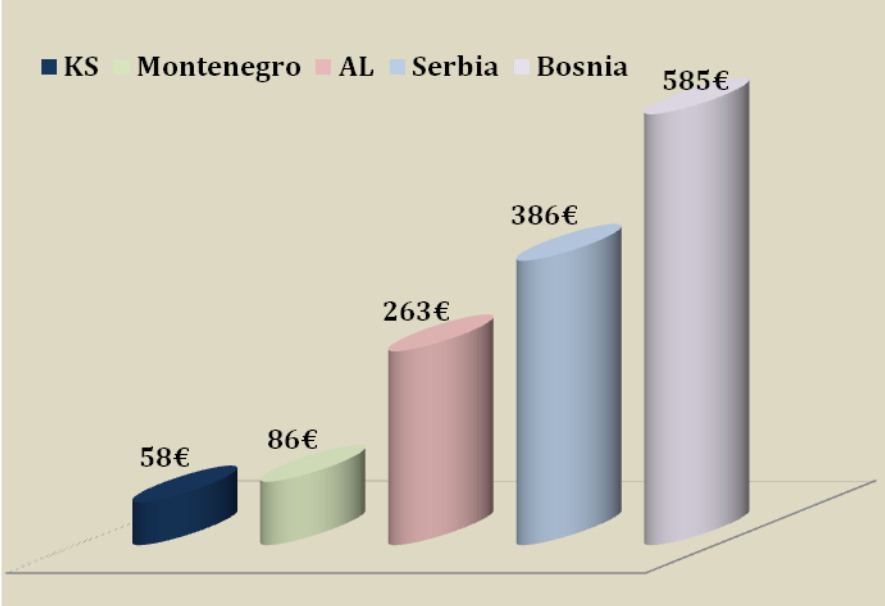
- Dr. Pittet D. Infection control and quality health care in the new millennium. AJIC 2005;33(5):234-244.

Government's funds for healthcare

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

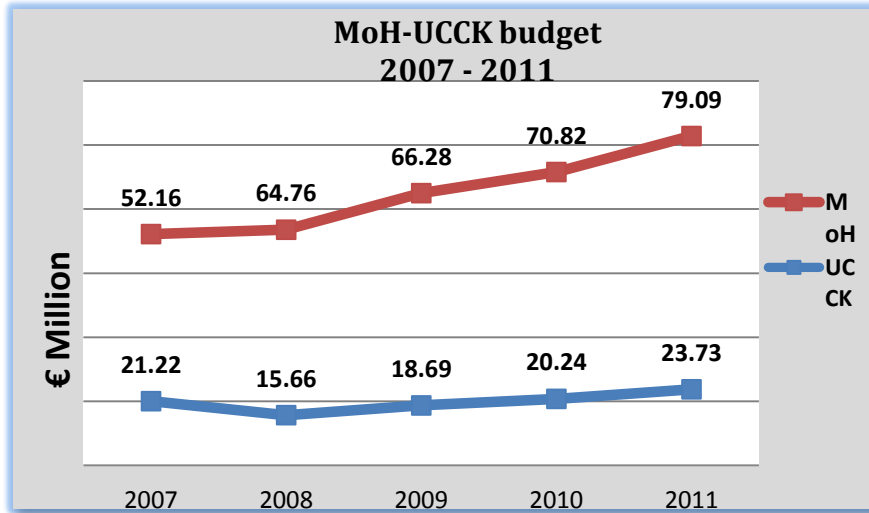


Health expenditures per capita (€) and as percentage of GDP Region and Europe (www.who.int/2006)

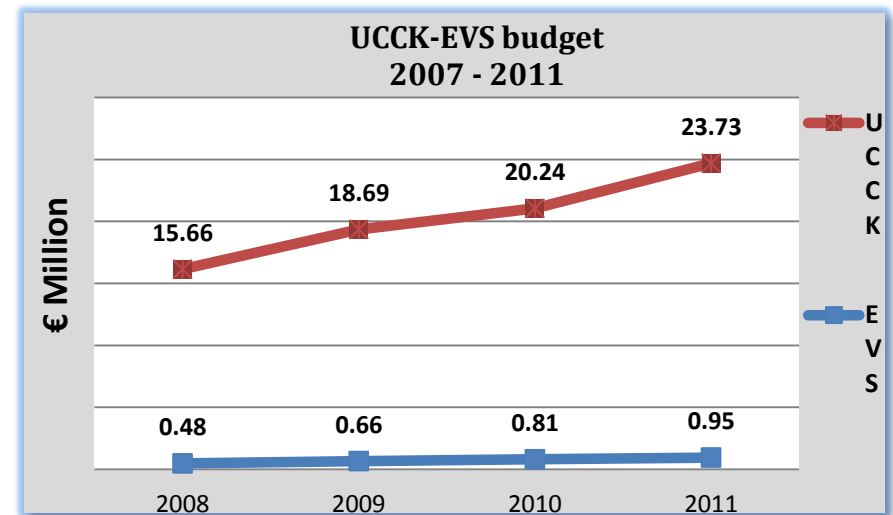


Budget allocation from MoH to UCCK

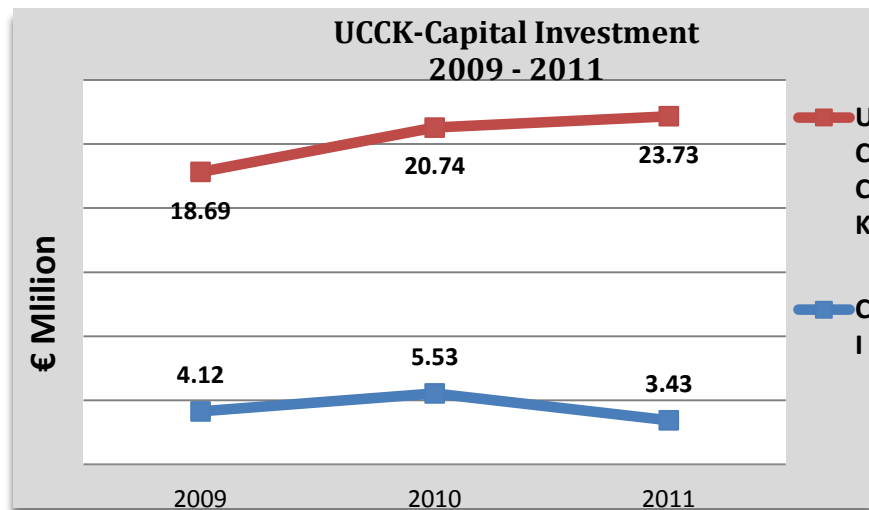
Allocation of the MoH budget to UCCK~25%



Allocation of the UCCK budget to EVS~4.01%



Allocation of the UCCK budget to CI~20%



Capital Investments

- Facility renovation 40%
- Medical equipment 60%

Source: Capital Investment Unit/MoH

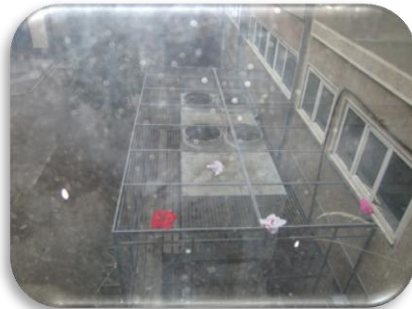
Capital investments in University Clinical Center

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*

Policy makers



HEALTH IS
EXPENSIVE



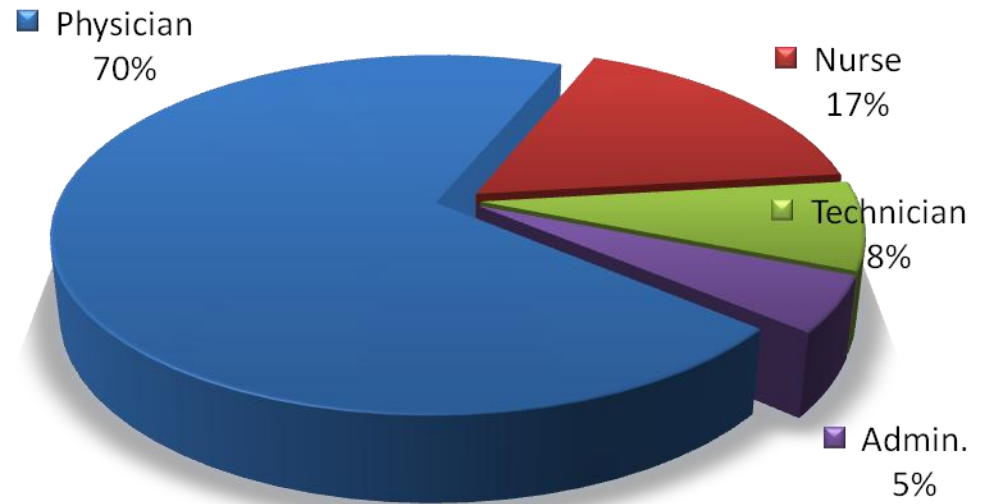
“ If you think that health is expensive, than try disease! ”

**Mary Lasker
“Lasker Foundation”**

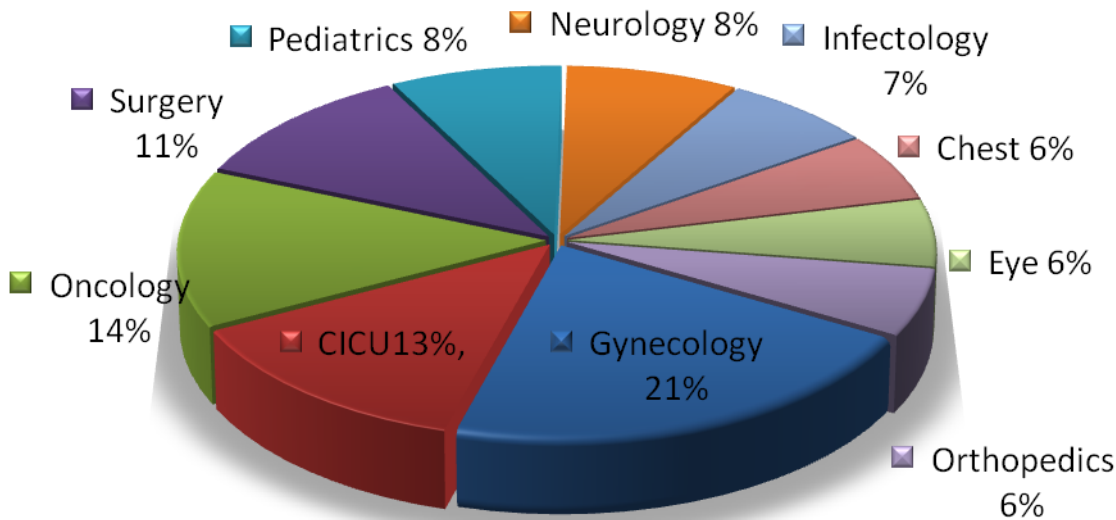
15515-54DG
'Latino Doctors and Nurses' Disc
© JupiterImages
www.comstock.com

Research methodology

- Standard questionnaire, and
- Face to face interview with:
 - * 100 Healthcare workers
 - * 100 patients&visitors



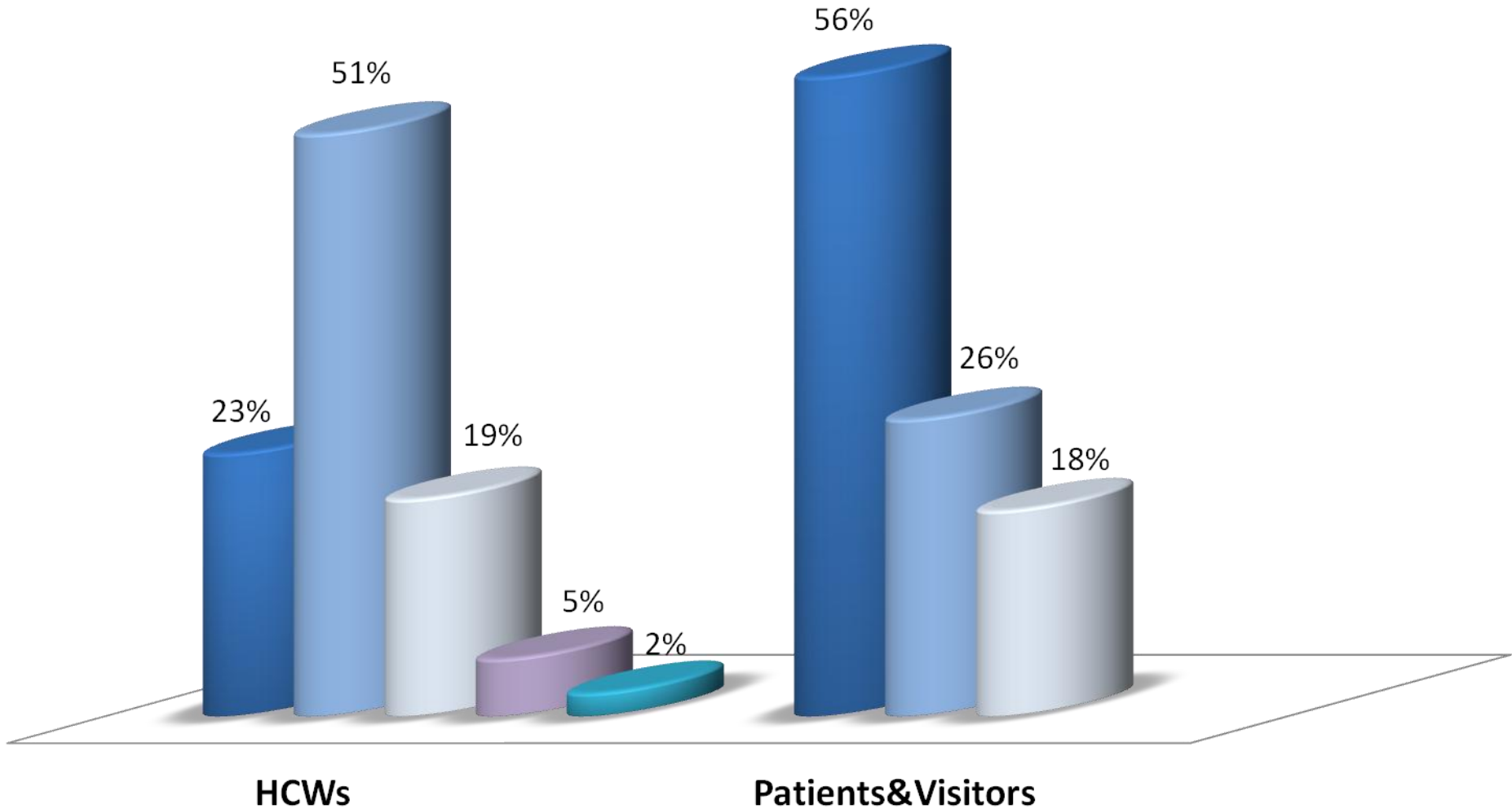
Healthcare workers



Patients treated by clinics

EVS are substandard....

■ Strongly agree ■ Agree ■ Neutral ■ Disagree ■ Strongly disagree



Environmental Services in University Clinical Center

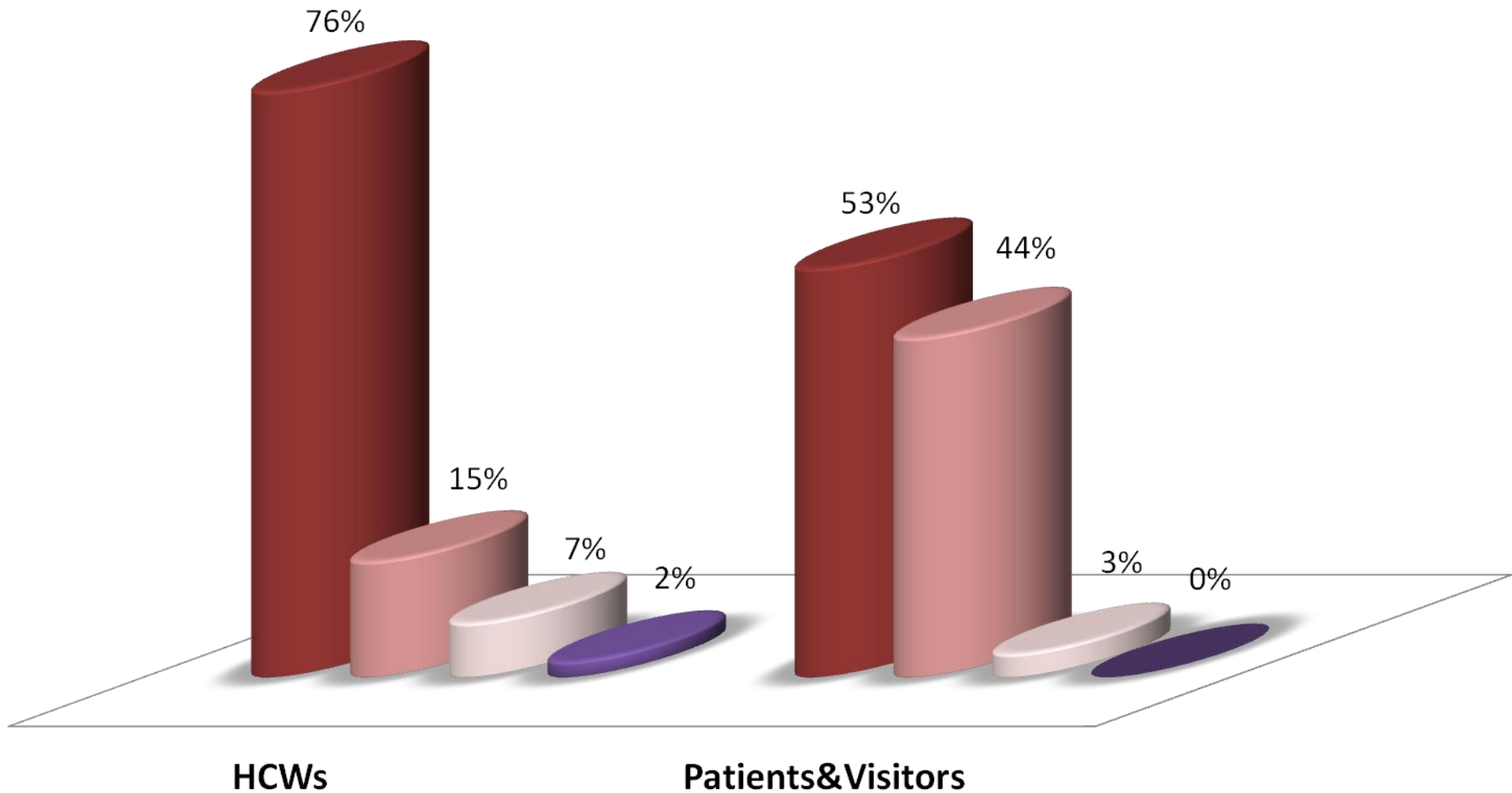
The current situation across UCCK in Prishtina

Pictures taken by myself



Unspecialized companies should not be engaged!!!

■ Strongly agree ■ Agree ■ Neutral ■ Disagree



“Professional” EVS companies in University Clinical Center

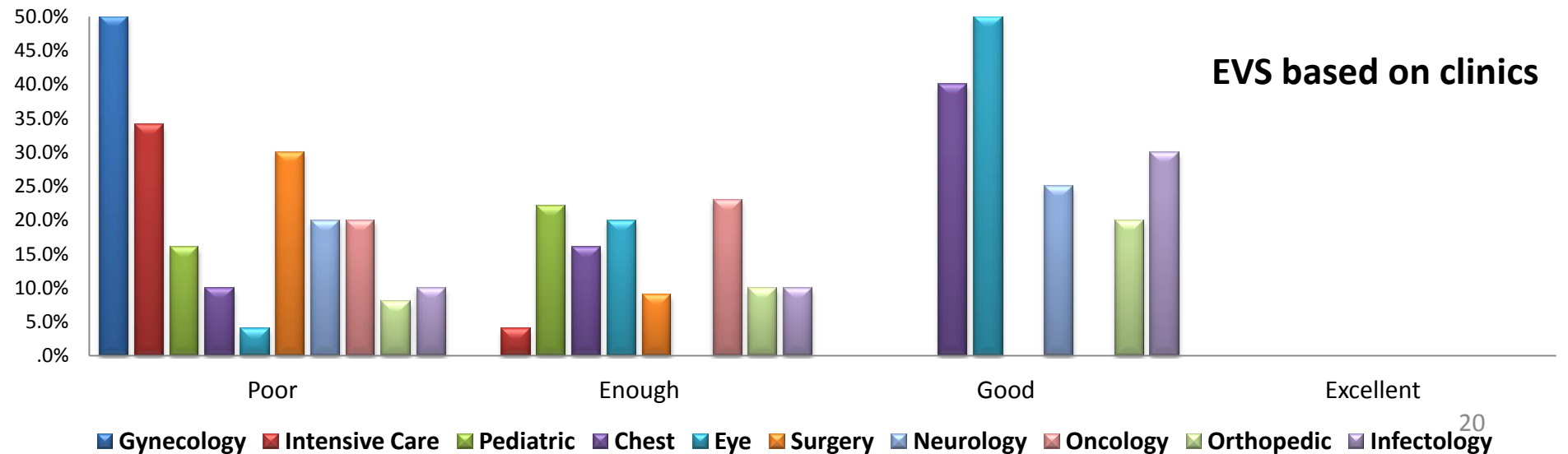
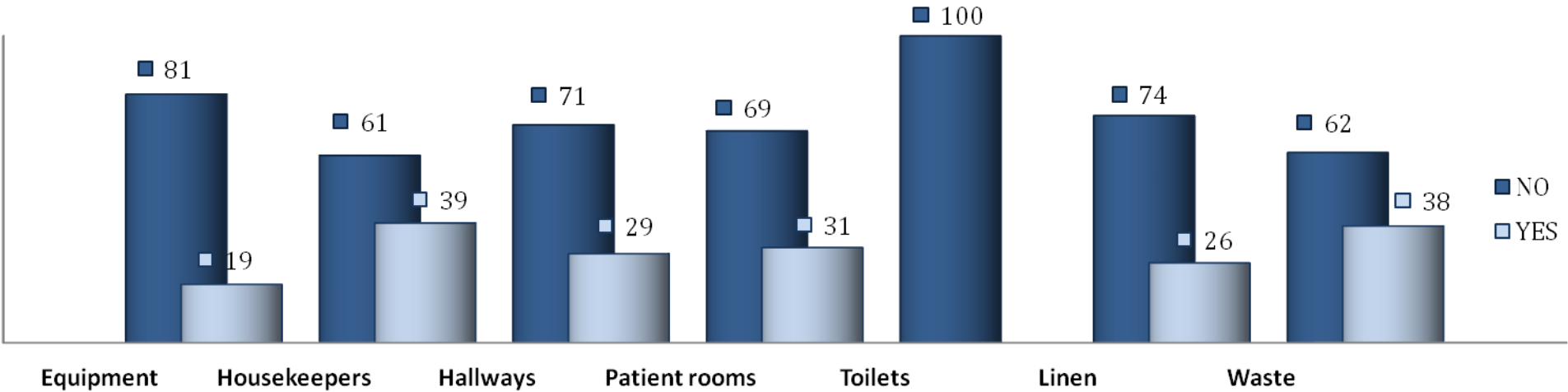
The current situation across UCCK in Prishtina

Pictures taken by myself



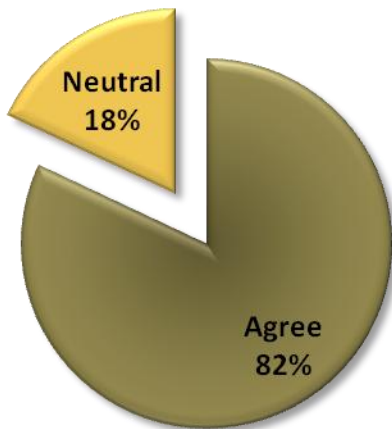
Survey results - patients

EVS performance

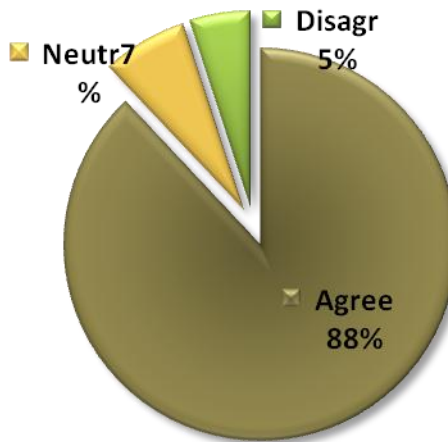


Survey results - patients

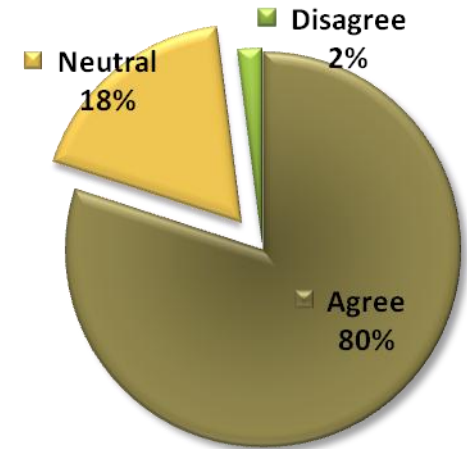
Unprofessional housekeeper



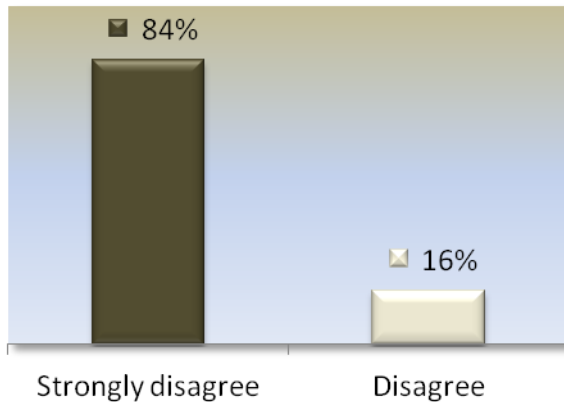
Enforce penalties to EVS



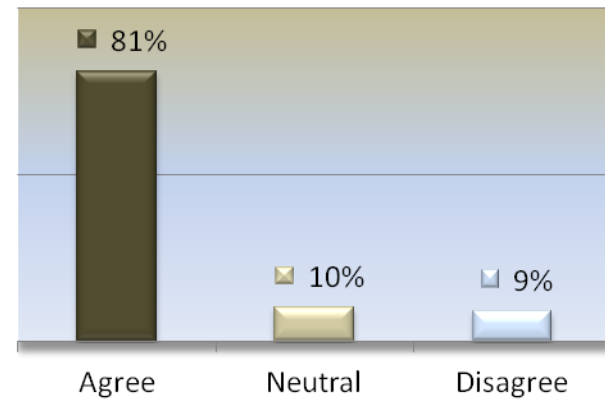
No quality of disinfections



EVS - remain the same

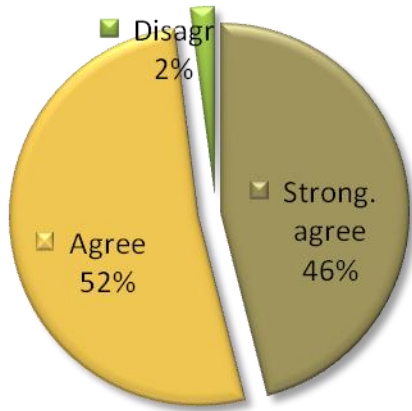


Do not recommend UCCK

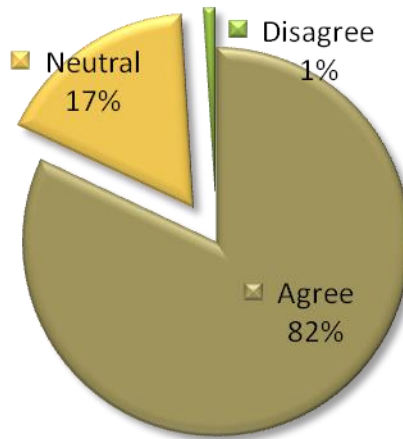


Survey results - HCWs

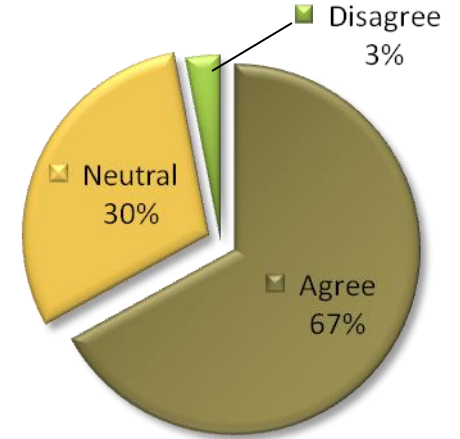
EVS-constant training



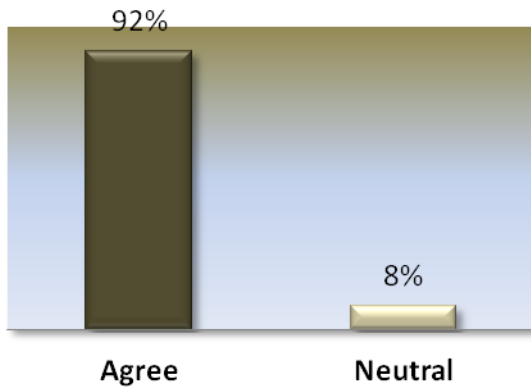
Infection control unit-inefficient



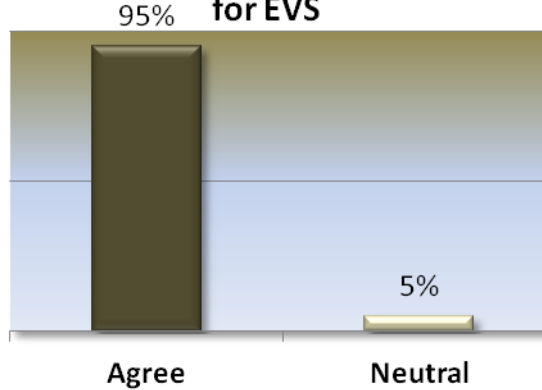
UCCK design-substandard



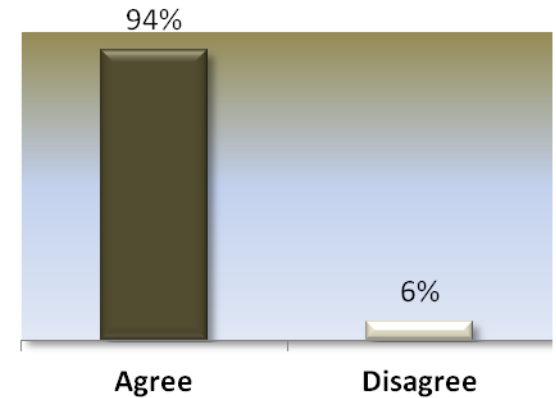
UCCK establish EVS unit



HCWs provide suggestion for EVS



GoK-increase funds



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



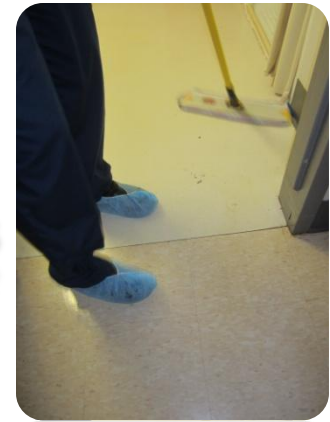
3
↓

Damp wipe contact surfaces



4
↓

Clean thoroughly the toilet



5
↓

Dust mop



6
↓

Dump mop all areas

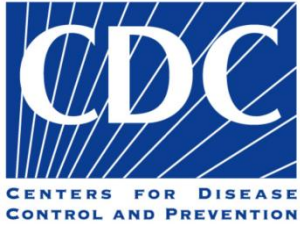


7
↓

Final inspection



Project Recommendation



**CLEANING
DEVELOPING
CONTROLLING**

Capstone Project's 4 MAIN recommendations are:

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

Other recommendations:

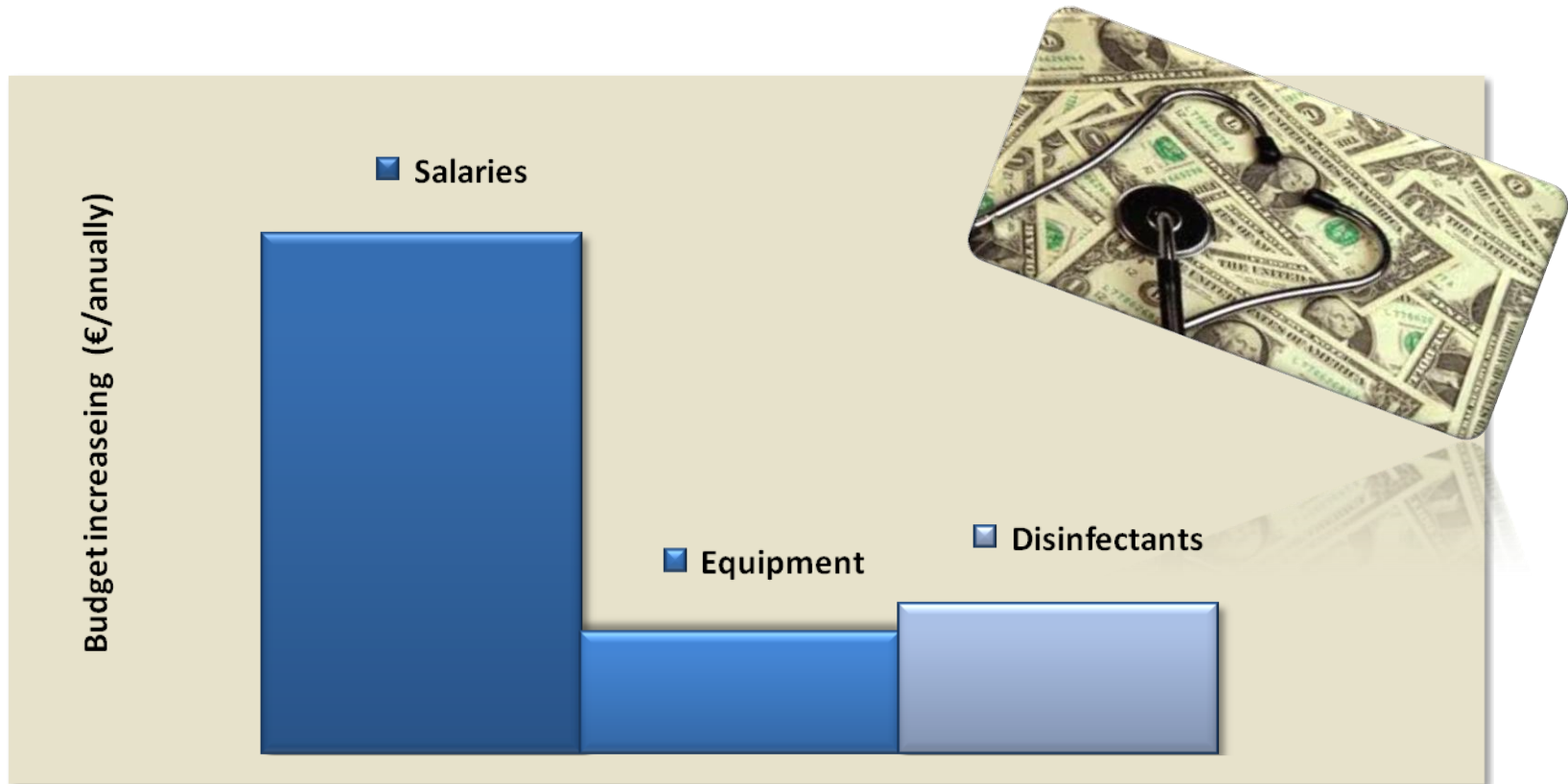
- Establish EVS unit
- Control of disinfectants
- Empower the Infection Control Unit
- Training
- Prevent influx
- Capital Investments



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

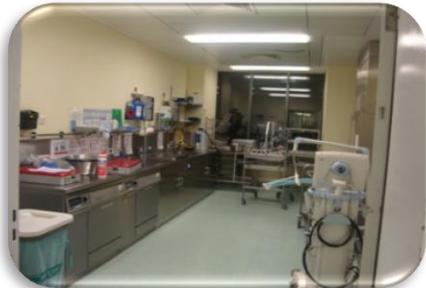
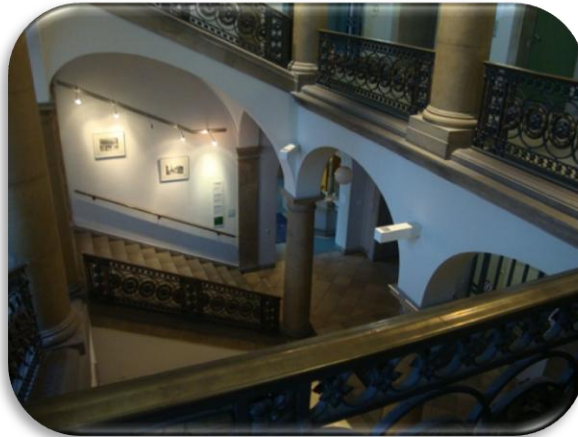


A great model to follow

The Regional Hospital in Prizren



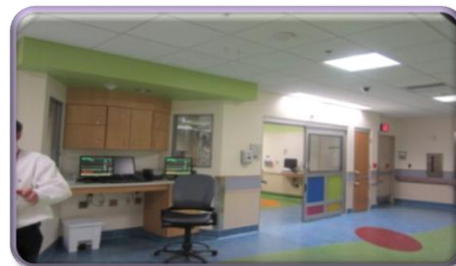
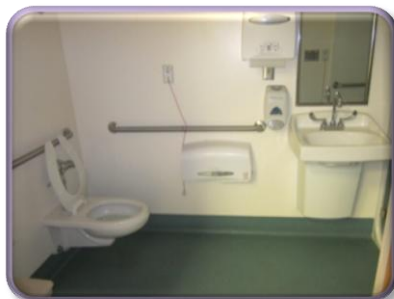
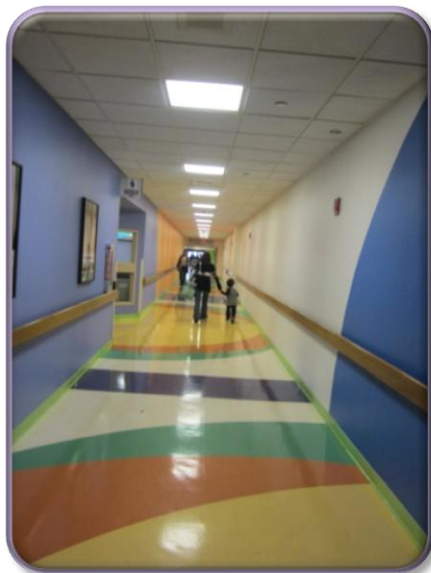
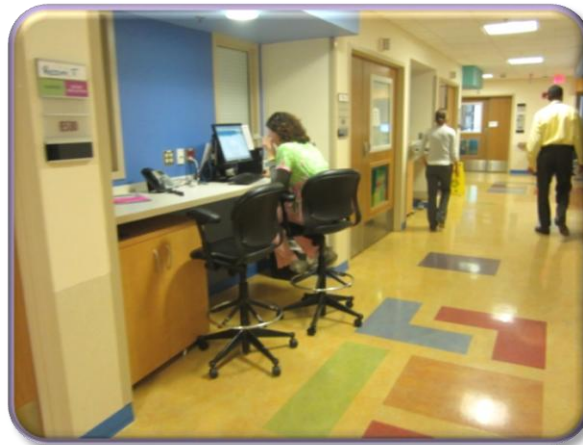
Not a utopia but reality – Deutsches Herzzentrum in Berlin



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**





Question

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