Agenda

➢ Organizational scheme of Military Medical Academy

➢ Military Medical Academy today at a glance

➢ MMA - Three pillars under the same roof
  ➢ Medical treatment
  ➢ Education
  ➢ Scientific research

➢ International cooperation

➢ Future plans
Military Medical Academy Today at a Glance

- Military Medical Academy is a military, medical, educational and scientific institution

- Over 170 years long tradition (since March, 2nd 1844) - reputation in country and abroad

- Tertiary level of treating military insured people (60%) and civilians (40%) with the capacity of 1,132 beds

- 25 operating rooms

- The MMA Medical Faculty, 400 medical experts per year attending various specializations

- Intensive international cooperation
Three Pillars Under the Same Roof

Treatment

Education

Scientific Research
Medical Treatment

• 27 clinics
• 17 institutes
• Emergency Department
• National Poison Control Center
• Solid Organ Transplantation Center
• Specialist Outpatient Clinic
• Section for Prevention and Control of Nosocomial Infections
• Sector for Preventive Medicine
• Dental Clinic
• Sector for Logistics
• Sector for Pharmacy
Medical Treatment

- **Out-patient treatment**
  - Specialist Outpatient Clinic
    (25 wards, 5 institutes, 11 functional diagnostics units)
  - Emergency Department
  - Center for Hyperbaric Medicine
  - Dental Clinic

- **In-patient treatment**
  - 12 internal clinics
  - 11 surgical clinics
  - 2 neuropsychiatric clinics
  - National Poison Control Center
  - Solid Organ Transplantation Center

The structure of the MMA’s staff
Total number of 2570

- Physicians 490
- Dentists 42
- Pharmacists 39
- Nurses/medical technicians 1337
- Other 662
Medical Treatment in 2013 (statistics)

- Out-patients: 421,667 (additional working hours 57,382)
- In-patients: 35,136 (24,147 civilians)
- Average length of hospital stay: 8.73 days
- Used bed capacity: 74.12%

- Surgeries: 34,313 (17,761 big surgeries)
- Mortality rate: 4.20%
Medical Treatment at MMA Clinics and Institutes

**Clinic for Neurology**
- 1,771 patients
- Average length of stay: 7.03 days
- Stroke patients: 40%

**Dental Clinic**
- 74,246 patients

**Institute of Radiology**
- 178,571 diagnostic procedures

**Institute of Medical Biochemistry**
- 3,829,049 biochemical procedures

**Center for Pathology and Forensic Medicine**
- 16,401 biopsy lists
- 358 autopsy lists

**Institute of Blood Transfusion and Hemobiology**
- 16,538 voluntary blood donors - 8,600 l.
- 83 hematopoietic stem cell transplantations and 7 cell-based therapies for myocardial ischemia

**Institute of Nuclear Medicine**
- 7,128 methods and analysis
Medical Treatment in MMA Centers

Emergency Department
- 52,172 patients (33,772 civilians)
- Wednesday - round-the-clock work 24,790 (477 per day)

National Poison Control Center
- 4,199 examinations
- 18,891 toxicological and chemical analysis

Solid Organ Transplantation Center
- 20 kidney transplantations (10 cadaveric)
- 3 successful liver transplantations

Center for Clinical Pharmacology
- 31 requests for clinical analysis

Center for Hyperbaric Medicine
- 6,670 procedures
Main Results

- **Linear accelerator** designated for different kind of malignancies
- **Multislice computed tomography (MSCT) scan** for conformal radiotherapy of patients with malignant tumors has been installed and set in motion
- **Hyperbaric chamber** with a capacity 8 + 2 places - Oxygen therapy is applicable in following disorders: decompression sickness, gas embolism, gas gangrene, carbon monoxide poisoning, cerebral infarction posterior to its acute phase and the other diseases
- **Angio room** is intended to carry out intervene cardiovascular procedures for patients with acute decompensated heart failure
- **New postoperative intensive care unit at MMA**- expanded area of the MMA Clinic for Anesthesiology and Intensive Care
- **Computer network** with 1,200 ports for the implementation of health care information systems
- In 2009, **MMA Medical Faculty** Belgrade Defence University, has passed the accreditation process. In 2013, the fifth class of cadets was enrolled
### Education

**MMA Medical Faculty**  
**Defence University**

<table>
<thead>
<tr>
<th>Level of education</th>
<th>Military (per year)</th>
<th>Civilian (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Studies of medicine (6 years)</td>
<td>20-50</td>
<td>/</td>
</tr>
<tr>
<td>Postgraduate studies (1 year)</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>PhD studies (3 years)</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>

**Military Medical Academy offers residency programs in the fields of medicine, dentistry and pharmacy**
Military Medical Training Center

Located in separate building

Excellent training conditions
In 2013, Serbian Health Council has accredited 249 continuous education programs within two terms.
Scientific-Research Work

Organization

Clinics

Institute of Medical Research

Institutes

National Poison Control Center
Preconditions

- Researchers: >200 junior researchers (physicians)
- Cooperation: National and international institutions
- Publications: “Vojnosanitetski pregled”
International Cooperation

- Military Medical Academy has very successful cooperative relations with over 40 countries, regional and international world organizations
- Peacekeeping operations
- Balkan Military Medical Committee (BMMC) has been organized in Serbia, in 2012
- 3rd ICMM Pan European Congress of Military Medicine, Belgrade, Serbia, 2-6 June, 2014
Future Plans

- Development and improvement of already existing and introduction of new treatment and diagnostic methods
- Continuous education of personnel in the country and abroad though numerous training and exchange programs
- Further improvement of national and international cooperation with leading civilian and military medical institutions
- Technological innovations