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Assistant professor
Specialist in medical microbiology and parasitology
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Curriculum vitae

Date of birth: July 12th, 1968.
Place: Sarajevo
Country: Bosnia and Herzegovina
Address: Sekerova 38/III

Language: Bosnian, English, Turkish

Education:

1983 completed primary school in Sarajevo
1985 Secondary Medical school in Sarajevo-Major Medical laboratory
1994 Graduated in Medical Faculty in Sarajevo
1998 Diploma in Medical microbiology at the Institute for Medical Research Kuala Lumpur- Malaysia
1998-2001 Specialization in medical microbiology and parasitology
Clinical Centre University Sarajevo
2000 completed Graduate study Program at the Medical Faculty in Sarajevo. MA theses: «Urinary tract infection in patient with spinal cord injuries»
2004 Education in Slovenia- Institute of microbiology and immunology – Medical Faculty, Ljubljana
2004 5th ESCMID WORKSHOP «Mechanisms of antimicrobial Resistance. A practical approach» Palma de Mallorca
2006 Capacity Assessment of microbiological laboratories in the WHO
2007 Prevention and control of nosocomial infections in the organization SeqNet Medical School in Zagreb
2007 molecular methods in studying the mechanisms of resistance to antibiotics, Robert Koch Institute, Wernigerode, Germany
2008 Prevention and control of nosocomial infections SeqNet II in the organization and the Institute of Microbiology, Sofia, Bulgaria

2009 the organization of USAID training on the organization of health care in case of chemical / biological / radiological / nuclear incident (HBRN)

2011 Ph.D. thesis on the topic: Phenotypic and Genotypic Characteristics of hospital isolates of *Klebsiella pneumoniae* producing extended spectrum beta- lactamases

2011 WHO „Risk assessment“ Prag, Czech Republic

2011 ESCMID „Infection control in developing countries“ Kayseri, Turkey.

2015 Multi-country AMR Laboratory workshop, Statens Serum Institut, Copenhagen, Denmark.

2016 CDC/APHL International Influenza Virus Isolation Workshop, Richmond USA

Work at the Institute and Faculty:

1995-1998 Physician GP

1998-2001 Advanced training in medical microbiology and parasitology

2001- Specialist in Medical microbiology and parasitology

2003- Head of department for hospital infection control

2004- Assistant at Faculty for Health Studies, University of Sarajevo, and Assistant at Medical Faculty University of Sarajevo

2012 Assistant professor in the field of laboratory diagnostics in microbiology at Faculty for Health Studies, University of Sarajevo

2014 Head of Unit for Clinical microbiology, University Clinical Centre Sarajevo

Membership:

ESCMID

IFIC

CAESAR AMR focal point

Focal point for Influenza laboratory surveillance in BiH

WHO European Region and European Influenza Surveillance Network

Society of microbiology - Bosnia and Herzegovina

Committee for antimicrobial resistance at the Academy of Sciences and Arts, BiH.

Skills and expertise: diagnostic microbiology, hospital infection, antibiotic resistance, emerging infectious diseases, molecular bacteriology.

Awards:

Award and recognition of the Institute for Medical Research in Kuala Lumpur and the Malaysian Centre for Technical Cooperation for the best success (maximum score) on the final exam, "Diploma in Medical Microbiology» 1997-1998

Participation in congresses, symposia, workshops:

In a country:

Congress of infectious disease, epidemiologists and microbiologists from the BiH Int. participation, 1997

Congress of Lung Diseases BiH with international participation, 1999

Congress of Children's surgeons of BiH with international participation, 2000

Seminar on control of nosocomial infections with international participation Tuzla 2003

Seminar on control of nosocomial infections with international participation Tuzla 2004

Seminar on control of nosocomial infections with international participation Tuzla 2005

Symposium on Zoonoses with international participation, Sarajevo 2005-Secretary of the symposium

First Bosnia and Herzegovina Academy for Infection Management- AIM Meeting Sarajevo, 2008

2nd Congress on Control of nosocomial infections with international participation -Tuzla 2009

“Standardization of methods in studying and reporting on the sensitivity / resistance to antibiotics and chemotherapeutics” The first workshop, Sarajevo, 2010

Second Regional Academy for Infection Management- AIM Meeting Sarajevo, Bosnia and Herzegovina, 2011

4th Eurasia Congress of infectious diseases, Sarajevo-2011- Member of the Organizing Committee

"Prevention and control of hospital infections in Canton Sarajevo", Sarajevo, 2011

Training for improving the quality of hospital health care in the organization of Agency for Quality and Accreditation in the Federation of Bosnia and Herzegovina, KCUS. 2011-2012

"Rational therapy with antibiotics" Symposium of doctors and pharmacists, Sarajevo, 2012

"Basics of MALDI TOF MS technology, Sarajevo, 2012.

"Monitoring and reporting of isolates and antimicrobial resistance in the microbiology laboratory," Sarajevo, 2013.

The first school of infectology-„Antibiotics in practice“ Sarajevo, 2014

"Prevention and control of hospital infections", Sarajevo, October 2014

Abroad

3rd Croatian Congress on infectious diseases with international participation, Dubrovnik, 2002

Symposium on Sexually Transmitted Diseases with international participation, Dubrovnik 2002

14th Congress of the European Society of Microbiology and Infectious Diseases, Prague, Czech Republic 2004

5th Congress of the International Federation for control of nosocomial infections Porec, Croatia, 2004

6th Congress of the International Federation for control of nosocomial infections, Istanbul, Turkey, 2005

16th Congress of the European Society of Microbiology and Infectious Diseases, Nice, France 2006

1st Croatian symposium on control of nosocomial infections, Zagreb, Croatia 2007

17th Congress of the European Society of Microbiology and Infectious Diseases, Munich, Germany 2007

8th Croatian Congress of Clinical Microbiology, Zagreb, 2008

20th Congress of the European Society of Microbiology and Infectious Diseases, Vienna, Austria, 2010

First Regional Academy for Infection Management- AIM Meeting Belgrade, Serbia, 2010

21st Congress of the European Society of Microbiology and Infectious Diseases, Milan, Italy, 2011

4th Euroasia congress of infectious diseases (EACID), Sarajevo, BiH, 2011.

22nd. Congress of the European Society of Microbiology and Infectious Diseases, London, United Kingdom, 2013.

„EpiSouth Plus“ Meeting of head of laboratory, Rome, Italy 2013

24th Congress of the European Society of Microbiology and Infectious Diseases, Barcelona, Spain, 2014 godine

5th Euroasia congress of infectious diseases (EACID), Beograd, Serbia, 2014

Meeting of influenza experts to discuss managements&procurement in influenza program Bellagio, Italija, 2014

MediLabSecure. Meeting of head of laboratory. Institut Pasteur-France, 2015

Semmelweis CEE Conference on hospital hygiene and patient safety“, Viena, Austria, 2015

25th Congress of the European Society of Microbiology and Infectious Diseases, Copenhagen, Denmark, 2015

26th Congress of the European Society of Microbiology and Infectious Diseases, Amsterdam, Netherlands, 2016

BIBLIOGRAPHY

1. Books and chapters:

Hukic M, Kandic Z, Ljubovic-Dedeic A. asepsis, sterilization and disinfection. In Hukić et al: Bacteriology. Sarajevo: Jez. 2005, 59-75.

Hukic M, Ljubović-Dedeic A. Testing for hospital materials. In Hukić et al: Bacteriology. Sarajevo: Jez. 2005, 105-121.

Hukic M, Ljubovic-Dedeic A. Nosocomial and laboratory infection. In Hukic et al: Bacteriology. Sarajevo: Jez. 2005, 145-157.

Dedeic-Ljubovic A. hygiene in health care institutions. In Hukic et al: Prevention and control of infection in health care institutions. Sarajevo: TDP. 2010, 115-170.

Dedeic-Ljubovic A. Specific pathogens: multiply gram-negative bacilli. In Hukic et al: Prevention and control of infection in health care institutions. Sarajevo: TDP. 2010, 303-313.

Dedeic-Ljubovic A. Packing and transport highly contagious materials. In Hukic et al: Prevention and control of infection in health care institutions. Sarajevo: TDP. 2010, 379-386.

Dedeic-Ljubovic A. «Serological techniques in the detection of antinuclear antibody in SLE» Dissertation in Diploma in Medical microbiology Kuala Lumpur-Malaysia 1997-1998: p1-80.

Publications:

1. Dedeic-Ljubovic A., Bratic M. «The most common bacterial pathogens in sputum culture and antimicrobial susceptibility MED. ARH. 1999;53 (3, suppl.1): p69.
2. Dedeic-Ljubovic A, Sakic M., Zvizdic A. «Acinetobacter calcoaceticus and MRSA as a cause of nosocomial infection. Case study of patients with burns». Congress of surgery BiH with international participation. Abstract book 2000:p31-32.
3. Sakic M., Dedeic-Ljubovic A. «Infection in burns and effect of antimicrobial therapy». MED. ARH.2000;6(2):p106-111.

4. Zvizdic A., Dedeic-Ljubovic A., Cemalovic-Babic M, Knežević Z. «Bacteriology analysis of clinical samples and frequency of anaerobic bacteria» Congress of surgery BIH with international participation. Abstract book . 2000: p85-86.
5. Dedeic-Ljubovic A, Subasic D, Dedeic S. « The most common cause of bacterial meningitis and antimicrobial susceptibility» III. Croatian Congress of infectious diseases with international participation, Abstract book; Dubrovnik, 2002:p20
6. Dedeic-Ljubovic A, Dedeic S, Subasic D. «Ureaplasma urealyticum and Mycoplasma hominis isolation from cervicovaginal and urethral specimens» Symposium in sexually transmitted disease with international participation; Abstract book; Dubrovnik 2002:p129.
7. Subasic D, Seric K, Ljubovic-Dedeic A. «Molecular techniques in the examination of endemic nephropathy» OMN. CM, ANU BIH, 2003:p231-234
8. Dedeic-Ljubovic A. “Frequency of multi drug resistance microorganisms and their role in nosocomial infection”Seminar in hospital infection control with international participation. Abstract book .Tuzla 2003.
9. Hadzizamakovic M, Begic M, Dedeic-Ljubovic A. “Urinary tract infection in patient with war spinal cord injuries “ Congress of infectology, epidemiology and microbiology BIH; Abstract book, Sarajevo 1997:p114.
11. Dedeic-Ljubovic A, Hukic M, Sisirak M, Zvizdic A. «ESBL in multi drug resistance Klebsiella pneumoniae isolates from clinical samples” Seminar in hospital infection control with international participation. Abstract book .Tuzla 2004:p27.
12. Sisirak M, Hukic M, Dedeic-Ljubovic A, Zvizdic A. «The most common cause of bacteremia and antimicrobial susceptibility» Seminar in hospital infection control with international participation. Abstract book .Tuzla 2004:p24.
13. Dedeic-Ljubovic A, Hukic M, Sisirak M, Zvizdic A. “Frequency of multidrug resistant bacteria from clinical samples” Clinical Microbiology and Infection 14 th ESCMID Prague-Czech Republic 2004; p387-8.
14. Subasic D, Seric K, Dedeic-Ljubovic A. Using of broadly reactive primer pair in RT-PCR detection of small round-structured viruses (SRSVs) OMN.CMI, ANU BIH, 2004:85-93.
15. Dedeic-Ljubovic A, Hukic M, Sisirak M. «Catheter-associated urinary tract infections. Case study of spinal cord injured patients» Fifth Congress of the International Federation of Infection control; Porec, Croatia, 2004. Abstract book; p 31-32.

16. Sisirak M, Hukic M, Dedeic-Ljubovic A. "Nosocomial bloodstream infections in pediatric patients" Fifth Congress of the International Federation of Infection control;Porec, Croatia, 2004. Abstract book;p 29-30
17. Dedeic-Ljubovic A, Hukic M, Sisirak M, Zvizdic A. Imipenem- resistant *Acinetobacter* spp. as a cause of nosocomial infections. *Acta Med Sal* 2005; 34 (Supl 1): 42-43.
18. Sisirak M, Hukic M, Dedeic-Ljubovic A. *Pseudomonas aeruginosa* as etiological agent of nosocomial bloodstream infection Sixth Congress of the International Federation of Infection control; Istanbul, Turkey, 2005: p123-124.
19. Hukic M, Ljubovic-Dedeic A, Sisirak M, Knezevic Z. „Brucellosis as laboratory infection" 20th symposium of infectious diseases with international participation. Abstract book ; Sarajevo 2006:s40.
20. Dedeic-Ljubovic A, Hukic M, Resic H, Zvizdic A. Surveillance of MRSA carriers among patients and health care workers in haemodialysis units *Clinical Microbiology and Infection* 2006; 12(4):R2002.
21. Hukic M, Zvizdic A, Dedeic-Ljubovic A, Sisirak M. Antibiotic sensitivity pattern of etiological agent in abdominal surgery: Test in vitro. Forth symposium of hospital infection control with international participation. Abstract book. Tuzla 2006;43.
22. Dedeic-Ljubovic A, Bekic D, Hukic M. Correlation between colonization and Infection with antibiotic-resistant gram-negative bacilli in the neonatal intensive care unit. *Clinical Microbiology and Infection* 2007; 13(1) and *International Journal of Antimicrobial Agents* (IJAA) 2007; 29(2): P1368.
23. Dedeic-Ljubovic A, Hukic M, Camdzic A, Zvizdic A, Bekic D, Knezevic Z. Laboratory detection of extended- spectrum β -lactamases (ESBLs) in Gram negative clinical isolates. First Symposium of hospital infection control of Croatia with international participation. Abstract book . Zagreb 2007: 25-26.
24. Resic H, Coric A, Dedeic-Ljubovic A, Hukic M, Avdic E, Kukavica N. Prevalence of MRSA infections in patients on haemodialysis. *Med. Pregl.* 2007; LX (Supl 2): 97-100.
25. Dedeic-Ljubović A, Hukic M, Bekic D, Zvizdic A. Diarrhoeogenic *Echerichia coli* as a cause of childhood diarrhea. 8th Croatian Congress of Clinical

Microbiology with international participation.

26. Camdzic A, Dedeic-Ljubovic A, Babovic A, Hukic M. Frequency of hospital strain in samples from respiratory tract and equipment in patients from ICU. Sixth symposium of hospital infection control with international participation. Abstract book. Tuzla 2008.
27. Dedeic-Ljubovic A, Hukic M. Catheter-related urinary tract infection in patients suffering from spinal cord injuries. *Bosnian Journal of Basic Medical Science* 2009;9(1):2-9.
28. Dedeic-Ljubovic A, Hukic M. Frequency and distribution of diarrhoeagenic *Escherichia coli* strains isolated from pediatric patients with diarrhoea in Bosnia and Herzegovina. *Bosnian Journal of Basic Medical Sciences* 2009;9(2):148-155.
29. Dedeic-Ljubovic A, Hukic M, Pfeifer Y, Witte W, Padilla E, López-Ramis I, Albertí S. Emergence of CTX-M-15 extended-spectrum beta-lactamase-producing *Klebsiella pneumoniae* isolates in Bosnia and Herzegovina. *Clin Microbiol Infect.* 2010;16:152-156.
30. Dedeic-Ljubovic A, Hukic M, Camdzic A. Surveillance of multiple-resistant microorganisms in neonatal intensive care unit. II. Congress on nosocomial infection control of Bosnia and Herzegovina with international participation Abstract book. 2009:p 48-49.
31. Dedeic-Ljubovic A, Hukic M, Salimovic-Besic I, Bekic D, Babic M, Arapcic S, Ramadani S. Aetiology of diarrhoea in patients at a university hospital in Sarajevo, Bosnia and Herzegovina. *Clin Microbiol Infect.* 2010; 19: 1941.
32. Babovic A, Hukic M, Camdzic A, Svrakic S, Dedeic-Ljubovic A. Characteristics of nosocomial infections caused by Methicillin resistant *Staphylococcus aureus* (MRSA) strains in the Clinical Centre of Sarajevo University. II. Congress on nosocomial infection control of Bosnia and Herzegovina with international participation Abstract book 2009: p72.
33. Dedeic-Ljubovic A. Hospital infection control in Bosnia and Herzegovina. 4th Euroasia congress of infectious diseases. Abstract book. Sarajevo 2011; p17.
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Herzegovina, Bosnia and Herzegovina, December 2010 to July 2011.
Euro Surveill. 2011 Sep 1;16(35). pii: 19959.

35. Dedeic-Ljubovic A, Hukic M. Occurrence of colonization and infection with multidrug-resistant organisms in a neonatal intensive care unit. Med Glas Ljek komore Zenicko-doboj kantona. 2012 Aug;9(2):304-10.
36. Dedeić-Ljubović A. „Mapa rezistencije na antibiotike“ Simpozij ljekara i farmaceuta. Knjiga sažetaka. 2012: 32-35.
37. Koluder-Cimic N, Stevic E, Nakas B, Dedeic-Ljubovic A, Kamberovic F, Krehic J, Salihefendic E, Cuplov M. “ Programme for control of antibiotic resistance in the area of Canton Sarajevo. Book of Abstracts, 2012: 28-31.
38. Salimovic-Besic I, Dedeic-Ljubovic A, Kadic, A, Melunovic M, Hukic, M. Infections caused by norovirus, rotavirus and adenovirus in a group of patients with acute gastroenteritis in Bosnia and Herzegovina. Abstract (publication only), ECCMID Barcelona, Spain 2014.
39. Muzurovic A, Dedeic-Ljubovic A, Pitic A. Analysis of the causes of hospital infections in the intensive care unit of the Clinical Centre of Sarajevo. Rauch 2014: 8-13.
40. Dedeic-Ljubovic A. Carbapenem resistant among Enterobacteriaceae 6th Euroasia congress of infectious diseases (EACID), Beograd, Srbija, Abstract book. 2014
41. Dedeic-Ljubovic A. Importance of microbiological laboratory in the prevention and control of hospital infections. Symposium "Prevention and control of hospital infections", Sarajevo, Book of Abstracts, 2014.
42. Hukic M, Hajdarpasic A, Ravlija J, Ler Z, Baljic R, Dedeic Ljubovic A, Moro A, Salimović-Besic I, Sausy A, Muller CP, Hubschen JM. Mumps outbreak in the Federation of Bosnia and Herzegovina with large cohorts of susceptibles and genetically diverse strains of genotype G, Bosnia and Herzegovina, December 2010 to September 2012. Euro Surveill. 2014 Aug 21;19(33). pii: 20879.
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44. Bekic-Zelic D, Sisirak M, Dedeic-Ljubovic A. Prevalence and antimicrobial resistance *Pseudomonas aeruginosa* in the wound swabs: eight year study. Abstract (eposter), Testing MDR: Gram-negatives, 25th ECCMID Copenhagen, Denmark 2015.

45. Sisirak M, Hukic M, Dedeic-Ljubovic A. The importance of detection matrix metalloproteinases (MMP-1, MMP-9, MMP-13) serum levels in predicting development of osteoarticular complications of brucellosis. Abstract (oral session), Pioneering diagnostics beyond genomics and MALDI-TOF, 25th ECCMID Copenhagen, Denmark 2015.
46. Dervovic E, Salimovic-Besic I, Seremet M, Knezevic Z, Dedeic-Ljubovic A, Hukic M. The potential impact of climate conditions and catastrophic floods in Bosnia and Herzegovina on expanding hantavirus infection during April-September 2014. Abstract (eposter), Virology non-HIV/non-hepatitis, 25th ECCMID Copenhagen, Denmark 2015.
47. Dedeic-Ljubovic A. Carbapenem resistant *Enterobacteriaceae*-increasing issue for global healthcare. Medical Journal. 2015;21(1):62 – 65.
48. Dedeic-Ljubovic A, Granov Đ, Hukic M. Emergence of extensive drug-resistant (XDR) *Acinetobacter baumannii* in the Clinical Centre University of Sarajevo, Bosnia and Herzegovina. Med Glas (Zenica). 2015 Aug; 12(2):169-76.
49. J.M. Hubsche, I. Salimovic-Besic, A. Dedeic-Ljubovic, S. Rakic- Adrovic, A. Sausy, C.P. Muller. Measles elimination in the World Health Organization European Region in light of recent outbreaks: Spotlight on the Balkans Abstracts / Journal of Clinical Virology 70 (2015) S1–S126.
50. I. Salimovic-Besic, E. Dervovic, A. Dedeic-Ljubovic. HPV DNA detection with simultaneous genotyping of HPV 16 and HPV 18: Insight into prognostic value and potential coverage by vaccines. 30th International Papillomavirus Conference. September 2015, Lisbon. Portugal. Presentation No. 1035.
51. E Broberg, R Snacken, C Adlhoch, J Beauté, M Galinska, D Pereyaslov, C Brown, P Penttinen, on behalf of the WHO European Region and the European Influenza Surveillance Network. Start of the 2014/15 influenza season in Europe: drifted influenza A (H3N2) viruses circulate as dominant subtype. Eurosurveillance: European communicable disease bulletin 01/2015; 20(4):1-5.
52. Salimović-Bešić I, Šeremet M, Hübschen JM, Hukić M, Tihic N, Ahmetagic S⁶, Delibegović Z, Pilav A, Mulaomerović M, Ravlija J, Muller CP, Dedeić-Ljubović A. Epidemiological and laboratory surveillance of the measles outbreak in the Federation of Bosnia and Herzegovina, February 2014- April 2015. Clin

Microbiol Infect. 2016 Feb 26. pii: S1198-743X(16)00113-0. doi: 10.1016/j.cmi.2016.02.005. [Epub ahead of print]

53. Albiger B, Glasner C, Struelens MJ, Grundmann H, Monnet DL; European Survey of Carbapenemase-Producing Enterobacteriaceae (EuSCAPE) working group. Carbapenemase-producing Enterobacteriaceae in Europe: assessment by national experts from 38 countries, May 2015. *Euro Surveill.* 2015 Nov 12; 20(45). doi: 10.2807/1560-7917.ES.2015.20.45.30062.

54. Çöl A, Dedeić-Ljubović A, Salimović-Bešić I, Hukic M. Antibiotic Resistance Profiles and Genetic Similarities Within a New Generation of Carbapenem-Resistant *Acinetobacter calcoaceticus*-*A. baumannii* Complex Resistotypes in Bosnia and Herzegovina. *Microb Drug Resist.* 2016 Apr 15. [Epub ahead of print]

