



International Scientific Conference
KNOWLEDGE TO HEALTH
SANUS 2025

PROGRAM

OF 4th SCIENTIFIC CONFERENCE



Prijedor, September 18th - 20th, 2025
Republic of Srpska, Bosnia and Herzegovina

FRIDAY 19th September 2025

09:00 – 10:00 REGISTRATION

HALL 1

10:00 OPENING CEREMONY

10:00 – 10:15 WELCOME SPEECH

MODERATORS: Radoslav Grujić, Ilija Stijepić, Nada Savković

10:15 – 10:45 ASSOCIATION OF THORACIC OUTLET SYNDROME WITH SHOULDER PAIN AND SLEEP QUALITY - N. Milenović

10:45 – 11:15 ESSENTIAL OILS: AN UNEXPLORED WORLD OF DIFFERENT POSSIBILITIES - Lj. Stanojević

11:15 – 11:45 EFFICACY OF ANTIBIOTICS AND NANOPARTICLES IN ERADICATION OF MATURE BACTERIAL BIOFILMS - A. Šmitran

11:45 – 12:15 OBESITY TODAY – A PANDEMIC OF THE 21ST CENTURY - S. Popović Pejičić

12:15 – 12:30 INSTITUT FOR PHYSICAL MEDICINE, REHABILITATION AND ORTHOPAEDIC "Dr MIROSLAV ZOTOVIĆ" BANJALUKA - STRATEGIC DEVELOPMENT

12:30 – 13:00 COFFEE BREAK

13:00 – 14:30 PARALEL SESSIONS

HALL 1

MODERATORS: Katarina Kacjan Žgajnar, Zoran Govedar, Nikolina Rajlić

13:00 – 13:20 FOOD SUPPLEMENTS, IMPACT ON HEALTH AND POSSIBLE FRAUDS - M. Stijepić

13:20 – 13:40 THE WEAKEST LINK? HOW HUMAN BEHAVIOURS THREATENS FOOD SAFETY - M. Jevšnik Podlesnik

13:40 – 13:50 LARCH PHENOLOGY FEATURES IN MOSCOW REGION CONDITIONS - A. Martynenko, P. Melnik

13:50 – 14:00 FOREST THERAPY AS A PREVENTIVE APPROACH IN INTEGRATIVE MEDICINE - Z. Govedar, N. Prohorova, N. Pržulj, O. Vladimirović, R. Grujić

14:00 – 14:10 HONEY AND HONEY-BASED PRODUCTS IN THE PRESERVATION OF HUMAN HEALTH - S. Grbić

14:10 – 14:20 PHYTONCIDAL PROPERTIES OF PINE (pinus sylvestris l) PLANTATIONS OF USMAN PINE FOREST (RUSSIAN FEDERATION) - O. Vladimirović, N. Prohorova, Z. Govedar

14:20 – 14:35 DISCUSSION

HALL 2

MODERATORS: Tanja Čolić, Lidija Slunjski Tišma, Nada Savković

13:00 – 13:20 OCCUPATIONAL THERAPY IN SERBIA – FIRST 60 YEARS (1964 – 2024) - N.Savković

13:20 – 13:30 PERFORMIN HOUSEWORK AMONG THE ELDERLY - A. Plemelj Mohorič

13:30 – 13:40 THE IMPACT OF ACTIVE PARTICIPATION IN SPORTS ON THE QUALITY OF LIFE IN INDIVIDUALS WITH INTELLECTUAL DISABILITIES: A PILOT STUDY - T.Čolić, I. Stijepić, O. Glamočanin, Đ. Čekrlja

13:40 – 13:50 SYSTEMATIC ANALYSIS OF THE EFFECTS OF STRENGTH TRAINING IN CARDIAC PATIENTS - S. Nikolić, I. Stijepić

13:50 – 14:00 BURDEN IN THE NECK, SHOULDER AND HANDS OF EMPLOYEES IN COLLEGE OF HEALTH SCIENCES WHILE WORKING AT THE COMPUTER - N. Savković, G. Savković, T. Šušić

14:00 – 14:10 ROBOTIC-ASSISTED REHABILITATION OF THE UPPER EXTREMITY AFTER STROKE - D. Mihaljčić

14:10 – 14:20 AN INTERNATIONAL EXPERIENCE AND OPPORTUNITY: THE EUROPEAN MSc IN OCCUPATIONAL THERAPY - A. Turel

14:20 – 14:35 DISCUSSION

HALL 3

MODERATORS: Jelena Pavlović, Ljiljana Savić, Milijana Rubin

13:00 - 13:20	ASSESSMENT OF FRAGILITY IN ELDERLY PERSONS IN BOSNIA AND HERZEGOVINA - N.Hadživuković
13:20 - 13:30	ALTRUISM IN NURSING - J. Pavlović, O. Kalajdžić, S. Matović, N. Hadživuković, S. Živanović, K. Pavlović, Lj. Kucurski, D. Topola, N. Radović
13:30 - 13:40	ASSOCIATION OF CLINICOPATHOLOGICAL CHARACTERISTICS AND PD-L1 EXPRESSION IN PATIENTS WITH SQUAMOUS CELL LUNG CANCER - N. Mirić, Z. Milinković, I. Romčević, D. Zeljković
13:40 - 13:50	APPLICATION OF FUZZY LOGIC IN THYROID TUMOR CLASSIFICATION - N. Stojanović
13:50 - 14:00	ROLE OF MOLECULAR BIOMARKERS IN ADENOCARCINOMAS: DIAGNOSTIC, PROGNOSTIC AND THERAPEUTIC IMPLICATIONS - K. Pavlović, J. Pavlović, S. Matović, N. Hadživuković, S. Živanović, M. Lukić, M. Čuković
14:00 - 14:10	COMPARING EPISTEMOLOGICAL BELIEFS ACROSS ACADEMIC DISCIPLINES: A MIXED-METHODS STUDY - A. Vlahović, S. Tomić
14:10 - 14:20	OBESITY AND GENERAL ANESTHESIA – PRINCIPLES AND COMPLICATIONS - I. Jakšić Jeremić, M. Krnić
14:20 - 14:30	PERSONALITY CHARACTERISTICS OF STUDENTS OF MEDICAL AND HEALTH SCIENCES - O. Kalajdžić, J. Pavlović, R. Perućica, A. Bakoč, G. Vuksanović, S. Živanović
14:30 - 14:40	ARTIFICIAL INTELLIGENCE AND MODERN EDUCATION OF MEDICAL PROFESSIONALS - S. Ristić, A. Simović, I. Medenica
14:40 - 14:50	LEGAL REGULATIONS IN THE APPLICATION OF STEM CELLS - M. Zlatanović, A. Volarević, A. Milidrag, S. Radević, M. Despotović, Lj. Savić, Lj. Kucurski
14:50 - 15:05	DISCUSSION

HALL 4 - STUDENTS' SESSION

MODERATORS: Goran Aljetić, Darko Vujasinović

13:00 - 13:10	ANTIOXIDANT ACTIVITY OF GRAPE SEED ETHANOLIC EXTRACTS FROM MACEDONIAN VRANEC (Vitis vinifera L.) - A. Milenković, Lj. Stanojević, S. Aleksovski, K. Miteva, J. Zvezdanović, J. Stanojević, D. Cvetković
13:10 - 13:20	ANTI-INFLAMMATORY ACTIVITY OF LAUREL (Laurus nobilis L.) LEAVES HYDROLATE - K. Stanojević, A. Milenković, Lj. Stanojević, V. Nikolić, D. Pavlović, J. Matejić, I. Nikolić
13:20 - 13:30	HISTORICAL OVERVIEW OF THE DEVELOPMENT OF VACCINATION UNTIL THE END OF THE 19th CENTURY - N. Vuković
13:30 - 13:40	COMMUNICATION ON FOUR LEGS – MOBINGG - S. Matović, B. Rajić, A. Pandurević
13:40 - 13:50	HEALTH CARE PROCESS IN PATIENTS WITH AN IMPLANTED CENTRAL VENOUS CATHETER - CASE REPORT - S. Čavić
13:50 - 14:00	NUTRITION IN THE DEVELOPMENT OF ALZHEIMER'S DEMENTIA—MEDICINE OR POISON? - V. Poznan, A. Ćorić
14:00 - 14:10	QUALITY OF LIFE IN PATIENTS WITH NON-MUSCLE INVASIVE BLADDER CANCER - J. Ikadinović, V. Poznan, A. Ćorić, M. Popov
14:10 - 14:20	GASTROENTEROLOGICAL CAUSES OF IRON DEFICIENCY ANEMIA IN PATIENTS WITHOUT OVERT GASTROINTESTINAL BLEEDING - D. Kosijer, Ž. Savić
14:30 - 14:40	FREQUENCY OF Staphylococcus aureus ISOLATION FROM NOSE SWABS OF THE STUDENTS OF THE COLLEGE OF HEALTH SCIENCES PRIJEDOR - A. Memić, J. Vučković, A. Šmitran
14:40 - 14:55	DISCUSSION

14:30 - 15:30 LUNCH

**15:30 - 16:00 BOOK PROMOTION: PALIATIVE CARE - ma Ljubiša Kucurski
SANITARY CHEMISTRY - dr Milka Stijepić**

15:15 - 15:45

POSTER PRESENTATION

MODERATORS: Darko Vujasinović, Goran Aljetić

THE EFFECT OF INTERVAL TRAINING ON THE GAIT PARAMETERS OF PEOPLE WITH PARKINSON'S DISEASE: AN EXPERIMENTAL CLINICAL STUDY - O. Pilipović Spasojević, T. Talić, D. Laštro

NON-PHARMACOLOGICAL METHODS IN THE TREATMENT OF DEMENTIA

- L. Slunjski Tišma, T. Čolić, Lj. Kucurski

MODERN ENZYMOLOGY: IMPORTANCE FOR DIAGNOSIS, THERAPY AND BIOTECHNOLOGY

- M. Obradović, R. Grujić, Lj. Andrijević

ANTIOXIDATIVE ACTIVITY OF SAGE (*salvia officinalis*) HYDROLATE - V. Antunović,

Ž. Marjanović Balaban, N. Kladar

NATURE-BASED SOLUTIONS AND THEIR APPLICATION IN THE PREVENTION OF NATURAL

DISASTERS IN THE VRBAS RIVER BASIN - M. Kapović Solomun, R. Tošić, M. Marković, V. Daničić,

N. Jalić, I. Čigoja, M. Vranešević

SWEET CHESTNUT (*castanea sativa* mill.) AS A FUNCTIONAL FOOD: CHEMICAL COMPOSITION OF FRUITS FROM NATURAL POPULATIONS OF BOSNIA AND HERZEGOVINA - V. Daničić, V. Antunović,

Ž. Marjanović-Balaban

PLANT PROTEINS FOR FOOD APPLICATIONS - J. Glušac, M. Stijepić, N. Rajlić

APPLICATION OF TESTS FOR THE ASSESSMENT OF UPPER LIMB MOTOR DEXTERITY IN CHILDREN

- M. Stanić

URINARY BIOMARKERS IN PROSTATE CANCER DETECTION - M. Obradović

FOOD FRAUD – AN OVERVIEW OF INCIDENTS REPORTED TO ALERT AND COOPERATION NETWORK

AND THE EU RAPID ALERT SYSTEM FOR FOOD AND FEED - R. Grujić, N. Rajlić, M. Stijepić,

M. Obradović

REFRACTOMETRIC DETERMINATION OF THE PURITY OF LEMON ESSENTIAL OIL

- J. Mastikosa, V. Antunović, Ž. Marjanović Balaban, D. Jelić

ANALYSIS OF THE CLIMATE CHARACTERISTICS OF THE MUNICIPALITY OF MRKONJIĆ GRAD: IMPACT ON THE URBAN GREENERY AND THE HEALTH OF THE POPULATION

- I. Čigoja, M. Kapović Solomun, M. Vranešević

ESTIMATION OF THE LIMIT OF DETECTION OF SALMONELLA SPP. IN ARTIFICIALLY CONTAMINATED CHICKEN PASTE- D. Đurđević-Milošević, A. Petrović, J. Elez, V. Kalaba, G. Gagula

POSSIBILITIES OF THE ARMEO SENSO DEVICE IN REHABILITATION OF NEUROLOGICAL PATIENTS

- S. Stupar, T. Veselić

PHYSICAL ACTIVITY IN THE GERIATRIC POPULATION - D. Sredić Cartes, N. Milenović

ARTIFICIAL INTELLIGENCE IN THE BIOCHEMICAL LABORATORY - IMPACT ON DIAGNOSTICS

- I. Grujić, M. Obradović

RASFF NOTIFICATIONS OF FOOD SAFETY RISKS FROM BALKAN COUNTRIES EXPORTED TO THE EUROPEAN UNION - R. Grujić, N. Rajlić, I. Grujić, M. Obradović.

POSITIVE EFFECTS OF SORGHUM ON HUMAN HEALTH - N. Pržulj, R. Grujić, A. Velimirović, D. Brenjo, V. Trkulja, Z. Govedar, Z. Jovović.

ESTABLISHMENT OF AN INTERNATIONAL PROVENANCE TEST OF SESSILE OAK (*quercus petraea* (matt.) Liebl.) – SCIENCE FOR THE ONE HEALTH CONCEPT - V. Daničić, J. Nikitović, S. Zeljković,

I. Čigoja, T. Đukanović, B. Petković, V. Stupar, M. Kapović Solomun

ANALYSIS OF MICRO AND MACRO ELEMENTS IN ROSEMARY SAMPLES BY ICP-OES

- V. Gojković Cvjetković, Ž. Marjanović-Balaban, V. Antunović, D. Mihajlović, M. Ivanović,

J. Vuković, M. Obrenović, K. Đerić, M. Smiljanić

DIFFUSE B LARGE CELL LYMPHOMA - RELAPSE REFRACTORY - CASE REPORT - D.Jović, S.Karakaš

NUTRITION IN THE PRECONCEPTION AND GESTATION PERIOD - Lj. Savić, Lj. Kucurski, M. Savić,

M. Zlatanović, M. Despotović, I. Brkić Borisavljević

THE EFFECT OF EDUCATION ON THE FORMATION OF STUDENTS' ATTITUDES TOWARD PREGNANCY

- M. Babić, D. Lazić

16:00 - 18:00 PARALEL SESSIONS

HALL 1

MODERATORS: Milka Stijepić, Gordana Zavišić, Nikolina Rajlić

16:00 - 16:20	ADVANTAGES OF THE ROSA METHOD IN ASSESSING THE RISK OF MUSCULOSKELETAL DISORDERS IN COMPUTER WORK - K. Kacjan Žgajnar
16:20 - 16:30	NEW ANTIMICROBIAL STRATEGIES IN THE TREATMENT OF INFECTIONS CAUSED BY MULTIDRUG-RESISTANT STRAINS OF GRAM-POSITIVE BACTERIA - G. Zavišić, S. Ristić, D. Janković, B. Petković
16:30 - 16:40	PERSONALITY CHARACTERISTICS OF STUDENTS OF MEDICAL AND HEALTH SCIENCES - O. Kalajdžić, J. Pavlović, R. Perućica, A. Bakoč, G. Vuksanović, S. Živanović
16:40 - 16:50	MEASURING SEDENTARY BEHAVIOUR - A. Plemelj Mohorić, K. Kacjan Žgajnar
16:50 - 17:00	ASSESSMENT OF WORKPLACE THERMAL COMFORT, LIGHTING AND NOISE - K. Kacjan Žgajnar
17:00 - 17:15	DISCUSSION

HALL 2

MODERATORS: Dragana Sredić Cartes, Siniša Nikolić, Lidija Slunjski Tišma

16:00 - 16:10	PROFESSIONAL AUTONOMY OF HEALTHCARE WORKERS - B. Mikanović
16:10 - 16:20	QUALITY OF LIFE OF CHILDREN AND ADOLESCENTS WITH CEREBRAL PALSY - A REVIEW - T. Šušić
16:20 - 16:30	DEVELOPMENT OF LITERACY AND WRITING SKILLS IN CHILDREN: ANALYSIS OF KEY FACTORS - B. Keneški
16:30 - 16:40	FUNCTIONAL OUTCOMES IN FRACTURE MANAGEMENT ASSISTED BY 3D-PRINTED MODELS - A. Čorić, N. Gvozdrenović
16:40 - 16:50	ADOLESCENT MENTAL HEALTH AND PHYSICAL ACTIVITY - R. Ogurlić
16:50 - 17:05	DISCUSSION

HALL 3

MODERATORS: N. Jovičić, Jasmina M. Jovanović Mirković, Mira Obradović

16:00 - 16:20	THYROID FUNCTION AND LIPID PROFILE: A CLINICAL-LABORATORY CORRELATION - N. Jovičić
16:20 - 16:30	PHARMACOTHERAPY IN THE TREATMENT OF DYSLIPIDEMIA - J. M. Jovanović Mirković, V. S. Ilić Todorović, M. M. Stanojević, M. S. Jovanović, A. Trajković, I. Stojković
16:30 - 16:40	METAGENOMICS AND NEXT-GENERATION SEQUENCING (NGS) – OPPORTUNITIES AND CHALLENGES - S. Jurišić
16:40 - 16:50	CHEMILUMINESCENCE METHOD IN MICROBIOLOGY WITH A FOCUS ON SCREENING AND DIAGNOSIS OF INFECTIOUS DISEASES - N. Pavičić, D. Knežević, M. Travar, M. Petković
16:50 - 17:00	THE IMPACT OF WORKING CONDITIONS ON THE INTRINSIC JOB SATISFACTION OF NURSES - M. Zlatanović, M. Slavković, A. Milidrag, M. Despotović, M. Brajsovac, Lj. Savić, Lj. Kucurski
17:00 - 17:10	APPLICATION OF ARTIFICIAL INTELLIGENCE IN THE MANAGEMENT OF SCIENTIFIC JOURNALS: CHALLENGES AND OPPORTUNITIES IN BIOMEDICAL PUBLISHING - S. Ristić, A. Simović, I. Medenica
17:10 - 17:20	FEBRILE NEUTROPENIA - D. Jović, S. Karakaš
17:20 - 17:30	TREATMENT APPROACH TO PSYCHOTIC DISORDERS IN YOUNG ADULTS – A CASE REPORT - A. Adamović, Z. Kaluđerović, L. Despotović, S. Čapaković, J. Aleksandrić, H. Aleksopoulos, S. Pavlović
17:30 - 17:40	CONTEMPORARY RADIOLOGY IN THE LIGHT OF ARTIFICIAL INTELLIGENCE - S. Ristić, B. Pejić
17:40 - 17:55	DISCUSSION

19:00 GALA DINNER