

Scientific Program





The international scientific conference FIS COMMUNICATIONS 2023 is organized under the auspices of the Ministry of Science, Innovation and Technological Development.



Friday, October 20, 2023.

PLENARY SESSION 1

Moderators: Dorica Šajber, PhD; Tomislav Okičić, PhD; Zoran Milanović, PhD

10:15	DUAL CAREER ATHLETE Laura Capranica
11:10	TALENT IDENTIFICATION AND DEVELOPMENT - ABILITY OR POTENTIAL? Antonio Figueiredo

Friday, October 20, 2023.

SESSION 1	
Moderators: Nemanja Stanković, PhD; Milivoj Dopsaj, PhD	
14.30-14.38	IDENTIFICATION OF THE STANDARDS FOR TALENTED CHILDREN IN SPORT Nenad Stojiljković and Milovan Bratić
14.38-14.46	FITNESS TRACKERS – VALID TECHNOLOGY OR ADVANCED MARKETING? Zoran Milanović, Nenad Stojiljković, Ljubomir Pavlović, Vladimir Antić and Nemanja Stanković



Moderators: Nemanja Stanković, PhD; Milivoj Dopsaj, PhD

14.46-14.54	MATERIAL AND SPACE EQUIPMENT OF PRIMARY AND
	SECONDARY SCHOOLS FOR THE IMPLEMENTATION OF
	PHYSICAL EDUCATION TEACHING
	Živorad Marković, Antonio Antonov and Jelena Jančić
14.54-15.02	BREASTSTROKE ELITE SWIMMERS: AGE-PERFORMANCE
	COMPETITIVE CAREER QUANTITATIVE MODEL
	PROFILING
	Milivoj Dopsaj and Klara Šiljeg
15.02-15.10	DIFFERENCES IN PLANTAR FLEXOR STRENGTH
	CHARACTERISTICS IN YOUNG FEMALE VOLLEYBALL
	PLAYERS MEASURED DURING TWO TYPES OF
	CONTRACTIONS: CLASSIC AND IMPULS
	Milivoj Dopsaj, Nikola Majstorović and Aleksandar Borisavljević
15.10-15.18	EXPLORING FACTORS INFLUENCING ATTITUDES AND
	MOTIVATION IN SCHOOL SPORTS: A COMPARATIVE
	STUDY OF ADMINISTRATIVE DISTRICTS, ENGAGEMENT
	FREQUENCY, AND SCHOOL TYPES
	Nikola Stojanović, Vukašin Rajković, Zvezdan Savić, Petar Mitić
	and Vladimir Antić
15.18-15.26	INFLUENCE OF EXTRA-CURRICULAR SPORTS ACTIVITIES
	IN STIMULING EXPLOSIVE FORCE
	AND CONCENTRATE CAPACITY AT PRIMARY SCHOOL
	CHILDREN IN A RURAL ENVIRONMENT
	Nicolae Ochiană and Călin Miron
15.26-15.34	EFFICIENCY OF DYNAMIC GAMES AND RELAYS RACE
	WITH TABLE TENNIS ELEMENTS IN THE DEVELOPMENT
	OF PSYCHOMOTRICAL SKILLS OF SECONDARY SCHOOL
	CHILDREN
	Nicolae Ochiană and Mihaela Ciubotariu
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Moderators: Nemanja Stanković, PhD; Milivoj Dopsaj, PhD

BREAK

15.54-16.02	EFFECTS OF DIFFERENT LOADING TYPES ON EMG
	ACTIVITY OF UPPER BODY MUSCLES DURING BENCH
	PRESS THROW EXERCISE
	Goran Janković, Danica Janićijević, Aleksandar Nedeljković,
	Milos R. Petrović, Marko Cosić and Amador Garcia-Ramos
16.02-16.10	DURATION OF TENNIS MATCHES IN UNDER 12 AGE
	GROUP
	Josip Cvenić, Lucija Faj and Ozana Brkić
16.10-16.18	IMPLICATIONS OF AGE AND GENDER DISPARITIES IN
	STRENGTH TRAINING AMONG CHILDREN AND
	ADOLESCENTS
	Izet Kahrović, Benin Murić, Oliver Radenković, Omer Špirtović,
	Raid Mekić and Ilma Čaprić
16.18-16.26	EFFECTS OF PHYSICAL ACTIVITY ON THE BALANCE OF
	OLDER ADULTS
	Raid Mekić, Izet Kahrović, Benin Murić and Omer Špirtović
16.26-16.34	STUDENT'S ATTITUDES TOWARDS ENGLISH LANGUAGE
	IN KINESIOLOGY: INSIGHTS THROUGH GENDER-
	RELATED DIFFERENCES
	Ana Penjak, Igor Jelaska and Jelena Žanić Mikuličić
16.34-16.42	BARRIERS TO THE WORKING POPULATION'S PHYSICAL
	ΑCTIVITY
	Anđela Đošić, Danijela Živković, Tijana Purenović-Ivanović,
	Mladen Živković, Nebojša Ranđelović and Saša Pantelić



Moderators: Nemanja Stanković, PhD; Milivoj Dopsaj, PhD

16.42-16.50	EMPLOYMENT OF ATHLETES AFTER ENDING THEIR
	PROFESSIONAL CAREER
	Adam Kyselica and Sára Kocourková
16.50-16.58	THE RELATIONSHIP BETWEEN INTERNAL AND
	EXTERNAL LOAD IN VERTICAL JUMP SESSIONS: THE
	IMPACT OF TRADITIONAL AND CLUSTER SET
	STRUCTURES
	Radenko Arsenijević, Filip Kojić, Predrag Božić, Milan Matić,
	Bobana Berjan Bačvarević, Saša Jakovljević and Nemanja Pažin
16.58-17.06	DIFFERENCE IN EXPLOSIVE STRENGTH BETWEEN
	TYPICALLY DEVELOPING CHILDREN AND CHILDREN
	WITH DEVELOPMENTAL DISABILITIES
	Zvonimir Tomac, Zoran Špoljarić and Matej Išasegi



Friday, October 20, 2023.

	SESSION 2
Moderators:	Aleksandra Aleksić Veljković, PhD; Nikolae Ochiana, PhD
14.30-14.38	THE CORRELATION OF HANDGRIP STRENTH AND
	SUCCESS IN "MODIFIED STYLE" OF WRESTLING
	Damir Pekas, Nebojša Trajković and Mario Baić
14.38-14.46	CORRELATION BETWEEN ECCENTRIC HAMSTRING
	STRENGTH AND SPEED IN ADOLESCENT FOOTBALL
	PLAYERS
	Radovan Gladić, Bojan Rašković, Dragan Marinković,
	Miodrag Spasić, Nikola Foretić, Dejan Madić, Patrik Drid and
	Borislav Obradović
14.46-14.54	ANALYSIS OF DIFFERENCES IN MORPHOLOGICAL
	CHARACTERISTICS AND MOTOR-FUNCTIONAL
	ABILITIES IN JUNIOR DANCERS
	Velibor Srdić
14.54-15.02	IMPACT OF MORPHOLOGICAL CHARACTERISTICS AND
	MOTOR-FUNCTIONAL ABILITIES ON THE EFFICIENCY
	OF PERFORMING MOVEMENT STRUCTURES IN DANCE
	AMONG YOUNG DANCERS . 121
	Velibor Srdić and Osmo Bajrić
15.02-15.10	EFFECTS OF STATIC AND DYNAMIC STRETCHING ON
	INJURY PREVENTION IN FOOTBALL: A SYSTEMATIC
	REVIEW
	Branislav Majkić, Zoran Milanović, Mila Vukadinović Jurišić,
	Luka Radosavljević and Tomislav Okičić



Moderators: Aleksandra Aleksić Veljković, PhD; Nikolae Ochiana, PhD	
15.10-15.18	PARENTS, COACHES AND YOUNG FOOTBALL PLAYERS:
	SUPPORTING OR CREATING PRESSURE?
	Branislav Majkić, Ana Lilić, Neda Karaleić, Lora Kostić and Matej Išasegi
15.18-15.26	INFLUENCE OF MOTOR SKILLS AND
	ANTHROPOMETRIC CHARACTERISTICS ON SUCCESS IN
	RHYTHMIC GYMNASTICS: A SYSTEMATIC REVIEW
	RESEARCH
	Doroteja Rančić, Tamara Ilić, Stefan Stojanović and Andrea
	Marković
15.26-15.34	DIFFERENCES IN AGILITY PERFORMANCE IN FUTSAL
	PLAYERS
	Hrvoje Ajman, Zoran Špoljarić and Dominik Mateo Rončević
	BREAK
15.54-16.02	CORRELATION BETWEEN VERTICAL JUMP, SPEED,
	COD AND REACTIVE AGILITY IN ADOLESCENT SOCCER
	PLAYERS
	Sreten Marković, Dino Mujanović and Rifat Mujanović
16.02-16.10	EFFECTS OF YOGA EXERCISES ON PHYSICAL FITNESS:
	SYSTEMATIC REVIEW
	Gulseren Yurekli and Fatma Celik Kayapinar



Moderators: Aleksandra Aleksić Veljković, PhD; Nikolae Ochiana, PhD	
16.10-16.18	THE EFFECTS OF NEUROMUSCULAR FATIGUE ON
	FUNCTIONAL MOVEMENT AND BALANCE
	PERFORMANCE IN FOOTBALL PLAYERS
	Ozkan Guler, Nese Sahin,Hamza Küçük, Ozkan Isik, Sally
	Salam and Abbas Ali
16.18-16.26	EFFECTS OF PLYOMETRIC TRAINING ON PHYSICAL
	FITNESS AMONG YOUNG TENNIS PLAYERS: A
	SYSTEMATIC REVIEW
	Elzan Bibić and Nataša Branković
16.26-16.34	MOTOR SKILLS INFLUENCE ON MORPHOLOGY
	PARAMETERS IN MALE PRESCHOOL CHILDREN
	INCLUDED IN THE ARTISTIC GYMNASTICS
	RECREATIONAL PROGRAM
	Dušan Đorđević, Miloš Paunović, Petar Veličković, Mima
	Stanković, Božidar Marović, Slavoljub Uzunović and Milan Zelenović
16.34-16.42	VALIDITY AND RELIABILITY OF MY JUMP 2 APP FOR
	MEASURING THE VERTICAL JUMP PERFORMANCE IN
	FEMALE BASKETBALL PLAYERS
	Dušan Stanković, Saša Bubanj, Stefan Pivač, Marko Gušić and
	Draženka Mačak
16.42-16.50	EFFECTS OF PLYOMETRIC TRAINING ON PHYSICAL
	PERFORMANCE IN ADOLESCENT MALE BASKETBALL
	PLAYERS
	Mila Jovanović, Maša Antonijević Stefan Đorđević, Sonja
	Antonijević and Dušan Nikolić



Saturday, October 21, 2023.

PLENARY SESSION 2

Moderators: Nenad Stojiljković, PhD; , PhD; Zoran Milanović, PhD

NEUROSCIENCES IN SPORT - THE INFLUENCE OF MOVEMENT ON THE DEVELOPMENT OF COGNITIVE 12:00-13:00 ABILITIES Ranko Rajović

Saturday, October 21, 2023.

SESSION 3	
Moderators	: Mladen Živković, PhD; Josip Cvenic, PhD
9.30-9.38	SENSATION SEEKING AND ANXIETY IN SPORTS
	CLIMBERS - A SYSTEMATIC REVIEW
	Daniel Stanković and Nikola Ćirić
9.38-9.46	BLOOD PRESSURE DURING EXERCISE TESTS IN
	CHILDREN AND ADOLESCENTS
	Dragan Radovanović
9.46-9.54	THE ROLE OF PHYSICAL THERAPY IN DORSALGIA
	Gabriela Ochiană and Delia-Nicoleta Ochiană
9.54-10.02	THE ROLE OF NEUROPROPRIOCEPTIVE FACILITATION
	TECHNIQUES IN FROZEN SHOULDER RECOVERY
	Gabriela Ochiană and Sorin Bereș



Moderators: Mladen Živković, PhD; Josip Cvenic, PhD

10.02-10.10	METHODS FOR ASSESSING MICROCIRCULATORY,
	HEMORHEOLOGICAL CHANGES AND OXYGEN
	TRANSPORT IN ATHLETES OF VARIOUS SPORTS
	DISCIPLINES
	Nadia Antonova and Ivan Ivanov
10 10-10 19	DEVCHOLOCICAL COMPONENTS OF INTEDEST IN THE

- 10.10-10.18 PSYCHOLOGICAL COMPONENTS OF INTEREST IN THE PROFESSION OF SPORTS TEACHER Polina Tsonkova and Dimitar Nikolov
- 10.18-10.26 ACL RECONSTRUCTION IN ATHLETIC PATIENTS WITH ANTERIOR CRUCIATE LIGAMENT INJURIES: AUTOGRAFT VS ALLOGRAFT

At. Andreev, I. Kolev and Ig. Zazirnyi

BREAK

- 10.41-10.49 EFFECTS OF SUPERVISED EXERCISE ON BODY COMPOSITION IN PATIENTS SUCCEEDING BARIATRIC SURGERY 1 YEAR LONGITUDINAL STUDY Azize Bingöl Diedhiou and Ayten Altunsaray
- 10.49-10.57 TREATMENT OF LOW BACK PAIN WITH DIFFERENT METHODS: A SYSTEMATIC REVIEW AND META-ANALYSIS Vanja Dimitrijević, Bojan Rašković, Nikola Jevtić, Dejan Viduka, Nachiappan Chockalingam, Patrik Drid and Borislav Obradović
- 10.57-11.05 TRAINING PROGRAM FIRST STAGE IN THE RECOVERY OF AN ATHLETE (SWIMMER) AFTER MYOCARDITIS - A CASE REPORT Yuliyan Zlatkov and Krasimira Zlatkova



Moderators: Mladen Živković, PhD; Josip Cvenic, PhD

- 11.05-11.13 THE EFFECT OF EDUCATIONAL STRESS ON ACADEMIC PROCRASTINATION BEHAVIOR Bülent Duman, Nuri Berk Güngör and Zülbiye Kaçay
- 11.13-11.21 SPINE INJURIES IN VOLLEYBALL LOW BACK PAIN Rašid Hadžić, Jovica Petković, Kosta Goranović and Marko Joksimović
- 11.21-11.29HIIT INTERVENTIONS IMPROVE CARDIORESPIRATORY
FITNESS IN ADULTS WITH DIABETES TYPE 1
Anja Lazić, Dušan Stanković and Cristina Cadenas-Sánchez



Saturday, October 21, 2023.

	SESSION 4	
Moderators	: Marko Aleksandrović, PhD; Bojan Jorgić, PhD	
9.30-9.38	THE DIFFERENCES IN THE PROFESSIONAL WORKING	
	PHYSICAL PREPARATION OF THE FIREFIGHTERS OF THE	
	REPUBLIC OF SERBIA FROM DIFFERENT REGIONS	
	Nemanja Samardžić and Dragan Klisarić	
9.38-9.46	IMPACT OF BODY COMPOSITION ON THE FUNCTIONAL	
	ABILITY OF ATHLETES	
	Nikola Milošević, Mirsad Nurkić, Amel Mekić, Sara Perković, Filip	
	Nurkić and Igor Nurkić	
9.46-9.54	ANALYSIS OF SUCCESSFUL JUMPS AT THREE DIFFERENT	
	HEIGHTS IN JUMPING COURSES	
	Predrag Ilić and Nemanja Stanković	
9.54-10.02	ASSESSING STANDING LONG JUMP DISTANCE: ACCURACY	
	OF KINOVEA-BASED VIDEO ANALYSIS	
	Jelena Aleksić, Nikola Maksimović, Lucija Faj, Anastasija Kocić,	
	Dragan M. Mirkov and Olivera M. Knežević	
10.02-10.10	ACTIGRAPH IN ASSESSMENT OF CHILDREN'S PHYSICAL	
	ACTIVITY – A SYSTEMATIC REVIEW	
	Emilija Petković, Nese F. Sahin and Ivana Đorđević	
BREAK		



Moderators: Marko Aleksandrović, PhD; Bojan Jorgić, PhD

- 10.25-10.33 THE RELATIONSHIP BETWEEN NETWORK SOCIETY, PHYSICAL ACTIVITY AND NUTRITION Mine Turğut, Emre Yamaner, Emel Gökmen and Ümran Sarikan
- 10.33-10.41COMPARING QUALITY OF LIFE IN PROFESSIONAL SOCCER
PLAYERS AND PHYSICALLY ACTIVE UNIVERSITY
STUDENTS: A CROSS-SECTIONAL STUDY
Tijana Purenović-Ivanović, Milan Zelenović, Anja Petrović and
Ljiljana Bjelaković
- 10.41-10.49 INVESTIGATION OF THE RELATIONSHIP BETWEEN NATURE AND MOOD OF INDIVIDUALS PARTICIPATING IN ECORECREATIVE ACTIVITIES Ümran Sarikan, Mine Turğut and Zülbiye Kaçay
- 10.49-10.57 SPORTS INJURIES IN BASKETBALL: A SYSTEMATIC REVIEW

Ivana Anđelković and Slađan Karaleić

10.57-11.05 THE INFLUENCE OF PHYSICAL TRAINING ON ATHLETIC PERFORMANCE AND INJURY PREVENTION IN YOUTH SPORTS Yang Huipeng and Liu Ze Yu



Saturday, October 21, 2023.

10:00 - 11:30

POSTER SESSION

COMPARATIVE ANALYSIS OF ANTHROPOMETRIC CHARACTERISTICS AND POSTURAL STATUS BETWEEN PRESCHOOL CHILDREN FROM URBAN AND RURAL AREAS IN THE MUNICIPALITY OF ČAČAK Aleksandra Aleksić Veljković, Jovica Peulić, Borko Katanić, and Nataša Jovanović

INJURY FREQUENCY IN MODERN BALLET Aleksandra Aleksić Veljković, Katarina Herodek, Slavoljub Uzunović, Lucija Milčić and Kamenka Živčić

THE EFFECTS OF SPECIFIC PREPARATION FOR TRAINING ON THE PHYSICAL FITNESS OF PROFESSIONAL MMA FIGHTERS Aleksandar Stamenković and Stevan Stamenković

ASPECTS OF COMMUNICATION IN PHYSICAL EDUCATION LESSONS FOR PRIMARY SCHOOL PUPILS Alina Ababei

THE RELATIONSHIP BETWEEN VERTICAL JUMP PERFORMANCE AND BODY COMPOSITION PARAMETERS IN PROFESSIONAL BASKETBALL PLAYERS

Anja Lazić, Miodorag Kocić, Dragana Berić and Špela Bogataj

EXAMINATION OF FACTORS AFFECTING THE DRIVE FOR MUSCULARITY IN INDIVIDUALS EXERCISING IN THE GYM Burak Gönültaş, Ismail Ilbak, Ahmet Yasuntimur, Stefan Stojanović, Bojan Jorgić and Marko Aleksandrović

NEW APPROACHES IN DEVELOPING GENERAL ENDURANCE IN MIDDLE SCHOOL PUPILS Cătălina Ababei and Radu Ababei



POSTER SESSION

DIFFERENCES IN MOTOR ABILITIES IN ACTIVE VS. NON-ACTIVE STUDENT POPULATION

Dejan Joksimović, Slobodan Andrašić, Borislav Obradović, Milan Cvetković, Boris Popović, Danilo Radanović, Dragan Marinković, Lidija Marković and Nikola Manolopoulos

GENDER DIFFERENCES IN THE SELF-EFFICACY OF PHYSICAL EDUCATION TEACHERS ACCORDING TO INCLUSION IN TEACHING -THE EXAMPLE OF MONTENEGRO

Igor Tomić, Nada Šakotić, Miljan Hadžović and Marko Aleksandrović

THE EFFECTS OF KINESITHERAPY AND NEUROREHABILITATION WITH "NEUROBLAST" PORTABLE DEVICE IN A PATIENT WITH MULTIPLE SCLEROSIS: A CASE REPORT

Ivan Ćuk, Anastasija Kocić, Marija Grujić and Marko Grujić

EFFFECTS OF PROGRAMMED TRAINING ON EXPLOSIVE STRENGTH OF VOLLEYBALL PLAYERS

Katarina Nejić, Dragan Nejić, Vladan Savić, Andrijana Zafirovska Misovski and Joško Milenkoski

FUNCTIONAL FITNESS AND QUALITY OF LIFE IN PEOPLE WITH COVID-19

Marko Đurović, Dejan Madić, Katarina Praznik, Ana Sršen, Mia Perić and Boro Štrumbelj

RELATIONSHIP BETWEEN FUNCTIONAL FITNESS AND THE SEVERITY OF COVID-19 SYMPTOMS

Marko Đurović, Tomislav Okičić, Boštjan Jakše, Barbara Gilić, Robert Marčun, Goran Dimitrić and Dorica Šajber



POSTER SESSION

PLAYING LEVEL AND POSITION DIFFERENCES IN BODY CHARACTERISTICS AND PHYSICAL FITNESS PERFORMANCE AMONG ELITE AND SUB-ELITE FEMALE HANDBALL PLAYERS

Maša Antonijević, Sonja Antonijević, Stefan Mijalković, Borče Daskalovski, Goran Nikovski and Saša Milenković

THE ASSOCIATION BETWEEN EATING ATTITUDES AND AGE GROUPS AMONG FEMALE BASKETBALL PLAYERS

Mima Stanković, Ivana Bojić, Ilma Čaprić, Borko Katanić, Vladan Milić, Adem Preljević and Oliver Radenković

DIFFERENCES IN THE STRENGTH OF YOUNG JUDOKAS IN RELATION TO WEIGHT CATEGORIES: A REVIEW

Nikola Milošević, Sara Perković, Filip Nurkić and Igor Nurkić

DIFFERENCES IN MOTOR ABILITIES OF GYMNASTS IN RELATION TO CHRONOLOGICAL MATURITY

Petar Veličković, Saša Veličković, Miloš Paunović, Dušan Đorđević and Božidar Marović

DIFFERENCES IN PHYSICAL FITNESS IN ADOLESCENTS IN RELATION TO GENDER

Rade Jovanović, Nebojša Trajković, Vladimir Ristić, Miloš Ignjatović and Nataša Zelinčević Vukajlović

COMBINED EXERCISE PROGRAMS FOR OLDER ADULTS - SYSTEMATIC REVIEW

Romina Herodek and Aleksandra Ilić

CHANGES IN BODY COMPOSITION UNDER THE INFLUENCE OF DIFFERENT DIETARY PATTERNS - SYSTEMATIC REVIEW Romina Herodek, Mladen Živković, Aleksandra Ilić and Aleksandra Catić

Đorđević



POSTER SESSION

THE DIFFERENCE IN THE POSTURAL STATUS OF THE SPINAL COLUMN IN FOOTBALL PLAYERS OF DIFFERENT CATEGORIES

Stefan Đorđević, Bojan Jorgić, Saša Milenković, Mila Manić, Miljan Hadžović and Aleksandar Stamenković

THE 800 AND 1500 METERS RUNNING TECHNIQUE ANALYSIS: A SYSTEMATIC REVIEW

Stefan Mijalković, Daniel Stanković, Fatma Nese Sahin, Ana Stanković and Aleksandar Raković

ANALYSIS OF FACTORS THAT INFLUENCE SUCCESS IN HANDBALL Vladimir Ristić, Uroš Nikolić, Rade Jovanović, Anja Obradović and Danijela Ljubojević

METRIC CHARACTERISTICS OF THE GROSS MOTOR DEVELOPMENT TEST

Andrea Marković, Nikola Simonović, Anja Obradović, Doroteja Rančić, Danijela Ljubojević and Slađana Stanković

GENDER-BASED DIFFERENCES IN SELECTED VERTICAL JUMP PARAMETERS AND THEIR VARIABILITY: A CROSS-SECTIONAL STUDY Sara Aščić, Klara Findrik, Iva Macan and Marin Marinović

TRADITIONAL GAMES AND FORMS OF PHYSICAL EXERCISE AND COMPETITION AND THEIR SIGNIFICANCE

Nebojša Ranđelović, Danijela Živković, Zvezdan Savić, Anđela Đošić, Ljiljana Bjelaković and Saša Pantelić

MOTOR CAPABILITIES OF HANDBALL PLAYERS IN RELATION TO THE POSITION IN THE TEAM

Stefan Pivač, Jovan Radenković and Saša Bubanj