





Contents

| Marta Kinga Labecka | |
|---|----|
| CHANGES IN BODY POSTURE PARAMETERS: A FOUR-YEAR FOLLOW-UP STUDY | 5 |
| Akram Amaghani, Bahram Jamali Gharakhanlou, Ali Zarghami Khamneh, Nima Radkhah COMBINED EFFECTS OF CAFFEINE AND AEROBIC EXERCISE ON LEPTIN LEVELS AND SOME INDICES OF INSULIN RESISTANCE IN DIABETICS | 15 |
| Tarass Ivaščenko, Jejizaveta Ivaščenko EFFECTS OF SENSOMOTOR COMMUNICATION SYSTEM BASED EXERCISES ON STATIC BALANCE AND SELF-ESTEEM IN 7-12 YEARS OLD KARATE PUPILS | 27 |
| Jarosław Muracki, Maria Zadarko-Domaradzka, Emilian Zadarko, Małgorzata Smoter, Ana Filipa Silva, Ewa Kruszyńska | |
| MENTAL STATE AND MOTIVATION TO PHYSICAL EXERCISE IN UNIVERSITY STUDENTS DURING COVID-19 PANDEMIC IN POLAND | 39 |
| Sumit Raghav, Anshika Singh, Suresh Mani, Anirudh Srivastava, Mukul Kumar EFFECTS OF INTEGRATED THERAPEUTIC EXERCISES ON PAIN AND DISABILITY IN MEDIAL KNEE OSTEOARTHRITIS | 55 |
| Evangelos Bekris, Aristotelis Gioldasis, Emmanouil Zacharakis, Konstantinos Noutsos, Panagiotis Meletakos, Athanasia Smirniotou | |
| ASSESSMENT OF CHANGE OF DIRECTION AND AGILITY. RUNNING AND DRIBBLING AMONG SOCCER, BASKETBALL AND HANDBALL PLAYERS: THE CONCEPT OF "AGILITY DEFICIT" | 63 |
| Ewa Polak, Adrianna Gardzińska, Katarzyna Walicka-Cupryś THE SHAPE OF THE SAGITTAL CURVATURES OF THE SPINE IN A HIGH-LEVEL ACROBATIC GYMNASTS – COMPARISON BY SEX | 79 |
| Viktor Simanjuntak, Edi Setiawan, Novi Yanti, Lalu Moh Yudha Isnaini, Mashuri Eko Winarno VIRTUAL-BASED AQUATIC PLYOMETRIC TRAINING: HOW IT IMPACTS LOWER EXTREMITY MUSCLE STRENGTH? | 95 |