
Publications

List of recent publications:

2023

DVOŘÁKOVÁ, Tereza (K); MĚRKOVÁ, Radana; BUŠKOVÁ, Jitka: Sleep disorders after COVID-19 in Czech population: Post-lockdown national online survey. *Sleep Medicine: X*, 2023, 6(December): 100087. DOI: 10.1016/j.sleepx.2023.100087.

Q2/2022; IF: 4.600/2022. FRÝDLOVÁ, Petra; JANOVSÁ, Veronika; MRZÍLKOVÁ, Jana; HALAŠKOVÁ, Milada; RIEGEROVÁ, Markéta; DUDÁK, Jan; TYMLOVÁ, Veronika; ŽEMLIČKA, Jan; ZACH, Petr; FRYNTA, Daniel (K): The first description of dermal armour in snakes. *Scientific Reports*, 2023, 13(April): 6405. DOI: 10.1038/s41598-023-33244-6.

Q2/2022; IF: 2.100/2022. JONÁŠ, Filip; KEŠA, Peter; PÁRAL, Petr; PANKRÁC, Jan; HUBÁLEK KALBÁČOVÁ, Marie; MILETÍN, Jakub; SUKOP, Andrej; MOLITOR, Martin; STANĚK, Kryštof; ŠEFC, Luděk; MĚŠŤÁK, Ondřej (K): The Effect of Vascular Endothelial Growth Factor C and Adipose-Derived Stem Cells on Lymphatic Regeneration in a Rat Vascularized Lymph Node Transfer Model. *Journal of Reconstructive Microsurgery*, 2023, 39(4): 311-319. DOI: 10.1055/a-1896-5471.

Q2/2022; IF: 2.900/2022. KOUCHEKI, Robert (K); LEX, Johnathan R.; MOROZOVA, Alexandra; FERRI, Dario; HAUER, Tyler M.; MIRZAIE, Sarah; FERGUSON, Peter C.; BALLYK, Barbara: Immersive Virtual Reality and Cadaveric Bone are Equally Effective in Skeletal Anatomy Education: A Randomized Crossover Noninferiority Trial. *Journal of Surgical Education*, 2023, 80(7): 1028-1038. DOI: 10.1016/j.jsurg.2023.04.005.

Q2/2022; IF: 3.900/2022. LAHUTSINA, Anastasiya (K); ŠPANIEL, Filip; MRZÍLKOVÁ, Jana; MOROZOVA, Alexandra; BRABEC, Marek; MUSIL, Vladimír; ZACH, Petr (K): Morphology of Anterior Cingulate Cortex and Its Relation to Schizophrenia. *Journal of Clinical Medicine*, 2023, 12(1): 33. DOI: 10.3390/jcm12010033.

Q2/2022; IF: 6.000/2022. LANA, Daniele; BRANCA, Jacopo J. V.; DELFINO, Giovanni; GIOVANNINI, Maria G.; CASAMENTI, Fiorella; NARDIELLO, Pamela; BUCCIANINI, Monica; STEFANI, Massimo; ZACH, Petr; ZECCHI-ORLANDINI, Sandra; NOSI, Daniele (K): Morphofunctional Investigation in a Transgenic Mouse Model of Alzheimer's Disease: Non-Reactive Astrocytes Are Involved in A β Load and Reactive Astrocytes in Plaque Build-Up. *Cells*, 2023, 12(18): 2258. DOI: 10.3390/cells12182258.

Q2/2022; IF: 6.000/2022. WURST, Zdeněk; BIRČÁK KUČTOVÁ, Barbora; KŘEMEN, Jan; LAHUTSINA, Anastasiya; IBRAHIM, Ibrahim; TINTĚRA, Jaroslav; BARTOŠ, Aleš; BRABEC, Marek; RAI, Tanya; ZACH, Petr (K); MUSIL, Vladimír (K); OLYMPIOU, Nicoletta; MRZÍLKOVÁ, Jana: Basal ganglia compensatory white matter changes on DTI in Alzheimer's disease. *Cells*, 2023, 12(April): 1220. DOI: 10.3390/cells12091220.

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Q2/2022; IF: 1.800/2022. DUDÁK, Jan (K); ŽEMLIČKA, Jan; MRZÍLKOVÁ, Jana; ZACH, Petr; HOLCOVÁ, Katarína: Applicability of large-area single-photon counting detectors Timepix for high-resolution and high-contrast X-ray imaging of biological samples. *IEEE Transactions on Nuclear Science*, 2022, 69(4): 753-760. DOI: 10.1109/TNS.2022.3140396.

FRIŠHONS, Jan (K); JOUKAL, Marek; VOJTÍŠEK, Tomáš; HÁJEK, Petr; MIKLOŠOVÁ, Mária; FERDA, Jiří; NAŇKA, Ondřej; MRZÍLKOVÁ, Jana; KACHLÍK, David: Současná problematika dárcovství těl pro výukové a výzkumné účely a jejich využití v Česku. *Časopis lékařů českých*, 2022, 161(3-4): 153-158.

Q2/2022; IF: 2.700/2022. GAŠPAR, Branislav; MRZÍLKOVÁ, Jana; HOZMAN, Jiří; ZACH, Petr (K); LAHUTSINA, Anastasiya; MOROZOVA, Alexandra; GUARNIERI, Giulia; RIEDLOVÁ, Jitka: Micro-Computed Tomography Soft Tissue Biological Specimens Image Data Visualization. *Applied Sciences*, 2022, 12(10): 4918. DOI: 10.3390/app12104918.

D1/2022; IF: 6.500/2022. KARÁSEK, Jiří (K); SLEZÁK, Jakub; ŠTEFELA, Radek; TOPINKA, Martin; BLANKOVÁ, Alžběta; DOUBKOVÁ, Alena; PITAŠOVÁ, Tereza; NAHALKA, Dávid; BARTES, Tomáš; HLADÍK, Jiří; ADÁMEK,

Tomáš; JIRÁSEK, Tomáš; POLÁŠEK, Rostislav; OŠŤÁDAL, Petr: CPR-related injuries after non-traumatic out-of-hospital cardiac arrest: survivors versus non-survivors. *Resuscitation*, 2022, 171(February): 90-95. DOI: 10.1016/j.resuscitation.2021.12.036.

Q1/2022; IF: 3.600/2022. KARÁSEK, Jiří (K); BLANKOVÁ, Alžběta; DOUBKOVÁ, Alena; PITAŠOVÁ, Tereza; NAHALKA, Dávid; BARTES, Tomáš; HLADÍK, Jiří; ADÁMEK, Tomáš; STRÝČEK, Matěj; JIRÁSEK, Tomáš; POLÁŠEK, Rostislav; OŠŤÁDAL, Petr: Trauma associated with cardiopulmonary resuscitation based on autopsy reports after the 2015 ERC guidelines. *American Journal of Emergency Medicine*, 2022, 61(November): 81-86. DOI: 10.1016/j.ajem.2022.08.034.

Q2/2022; IF: 2.000/2022. MUSIL, Vladimír (K); STINGL, Josef; VANĚK, Tomáš; RIEDLOVÁ, Jitka; SUCHOMEL, Zdeněk; ŠACH, Josef; KUDRNA, Václav; PATZELT, Matěj; KACHLÍK, David: Vasa nervorum of epicardial nerves and valves of small veins investigated in porcine heart by two types of vascular injections. *Anatomical Record*, 2022, 305(6): 1347-1358. DOI: 10.1002/ar.24774.

Q4/2022; IF: 1.500/2022. STANĚK, Libor (K); GÜRLICH, Robert; WHITLEY, Adam; TESAŘOVÁ, Petra; MUSIL, Zdeněk; NOVÁKOVÁ, Lucie: HER-3 molecular classification, expression of PD-L1 and clinical importance in breast cancer. *Bratislavské lekárske listy / Bratislava Medical Journal*, 2022, 123(10): 719-723. DOI: 10.4149/BLL_2022_115.

2021

Q1/2021; IF: 2.976/2021. DŽUPA, Valér; KOŇAŘÍK, Marek; KNÍŽE, Jakub; VELEMÍNSKÝ, Petr; VRÁNOVÁ, Jana; BÁČA, Václav; KACHLÍK, David (K): The size and shape of the human pelvis: a comparative study of modern and medieval age populations. *Annals of Anatomy*, 2021, 237(September): 151749. DOI: 10.1016/j.aanat.2021.151749.

Q4/2021; IF: 0.638/2021. HEŘMAN, Hynek; HOLÁ, Alena; FARIDOVÁ, Adéla; AYAYEE, Noble; TROJANOVÁ, Klára; KUNDRÁTOVÁ, Martina; MAREŠ, Jindřich; KŘEPELKA, Petr (K); BÁČA, Václav; HANÁČEK, Jiří; FEYEREISL, Jaroslav; JELEN, Karel: Peripartum rupture of renal artery aneurysm. *Neuroendocrinology Letters*, 2021, 42(8): 512-516.

Q2/2021; IF: 2.676/2021. KARÁSEK, Jiří (K); BLANKOVÁ, Alžběta; DOUBKOVÁ, Alena; PITAŠOVÁ, Tereza; NAHALKA, Dávid; BARTES, Tomáš; HLADÍK, Jiří; ADÁMEK, Tomáš; JIRÁSEK, Tomáš; POLÁŠEK, Rostislav; OŠŤÁDAL, Petr: The comparison of cardiopulmonary resuscitation-related trauma: Mechanical versus manual chest compressions. *Forensic Science International*, 2021, 323(June): 110812. DOI: 10.1016/j.forsciint.2021.110812.

D1/2021; IF: 5.313/2021. ŘASOVÁ, Kamila (K); BUČKOVÁ, Barbora; PROKOPIUSOVÁ, Terezie; PROCHÁZKOVÁ, Marie; ANGEL, Gabriela; MARKOVÁ, Magdaléna; HRUŠKOVÁ, Natálie; ŠTĚTKÁŘOVÁ, Ivana; ŠPAŇHELOVÁ, Šárka; MAREŠ, Jan; TINTĚRA, Jaroslav; ZACH, Petr; MUSIL, Vladimír; HLINKA, Jaroslav: A Three-Arm Parallel-Group Exploratory Trial documents balance improvement without much evidence of white matter integrity changes in people with multiple sclerosis following two months ambulatory neuroproprioceptive "facilitation and inhibition" physical therapy. *European Journal of Physical and Rehabilitation Medicine*, 2021, 57(6): 889-899. DOI: 10.23736/S1973-9087.21.06701-0.

2020

Q4/2020; IF: 1.415/2020. DUDÁK, Jan; EKENDAHL, Daniela; JUDAS, Libor; MRZÍLKOVÁ, Jana; RUBOVIČ, Peter; ZACH, Petr; ŽEMLIČKA, Jan (K): Evaluation of scan strategies for small animal in vivo micro-CT. *Journal of Instrumentation*, 2020, 15(February): C02019. DOI: 10.1088/1748-0221/15/02/C02019.

Q1/2020; IF: 5.349/2020. FRÝDLOVÁ, Petra (K); MRZÍLKOVÁ, Jana; ŠEREMETA, Martin; KŘEMEN, Jan; DUDÁK, Jan; ŽEMLIČKA, Jan; MINNICH, Bernd; KVERKOVÁ, Kristina; NĚMEC, Pavel; ZACH, Petr; FRYNTA, Daniel (K): Determinate growth is predominant and likely ancestral in squamate reptiles. *Proceedings of the Royal Society B: Biological Sciences*, 2020, 287(1941): 20202737. DOI: 10.1098/rspb.2020.2737.

Q2/2020; IF: 3.411/2020. HONCŮ, Pavla; ZACH, Petr; MRZÍLKOVÁ, Jana; JANDOVÁ, Dobroslava; MUSIL, Vladimír (K); ČELKO, Alexander Martin: Computer Kinesiology: New diagnostic and therapeutic tool for lower back pain treatment (pilot study). *BioMed Research International*, 2020, (August): 2987696. DOI: 10.1155/2020/2987696.

KOS, Jaroslav; HEŘT, Jiří; HLADÍKOVÁ, Jaroslava; STINGL, Josef; KACHLÍK, David; BÁČA, Václav; MUSIL, Vladimír: *Přehled topografické anatomie*. 3. vyd., 2. vyd, v Karolinu. Praha: Karolinum, 2020. 139 s. ISBN 978-80-246-4494-3.

Q1/2020; IF: 2.698/2020. MILETÍN, Jakub; SUKOP, Andrej; BÁČA, Václav; KACHLÍK, David (K): Innominate variant artery in the first web space. *Annals of Anatomy*, 2020, 230(July): 151521. DOI: 10.1016/j.aanat.2020.151521.

Q2/2020; IF: 3.411/2020. MRZÍLKOVÁ, Jana (K); MICHENKA, Petr; ŠEREMETA, Martin; KŘEMEN, Jan; DUDÁK, Jan; ŽEMLIČKA, Jan; MUSIL, Vladimír; MINNICH, Bernd; ZACH, Petr: Morphology of the vasculature and blood supply of the brown adipose tissue examined in an animal model by micro-CT. *BioMed Research International*, 2020, (February): 7502578. DOI: 10.1155/2020/7502578.

Q3/2020; IF: 1.804/2020. STINGL, Josef; ZACH, Petr; ŠACH, Josef; VRÁNOVÁ, Jana; SUCHOMEL, Zdeněk; KUDRNA, Václav; MRZÍLKOVÁ, Jana; KACHLÍK, David; MUSIL, Vladimír (K): Vascular supply of the anterior interventricular epicardial nerves and ventricular Purkinje fibers in the porcine hearts. *Journal of Morphology*, 2020, 281(11): 1476-1485. DOI: 10.1002/jmor.21261.

Q2/2020; IF: 3.498/2020. ŠILHÁN, David; BARTOŠ, Aleš (K); MRZÍLKOVÁ, Jana; PASHKOVSKA, Olga; IBRAHIM, Ibrahim; TINTĚRA, Jaroslav: The Parietal Atrophy Score on brain magnetic resonance imaging is a reliable visual scale. *Current Alzheimer Research*, 2020, 17(6): 534-539. DOI: 10.2174/1567205017666200807193957.

Q4/2020; IF: 0.531/2020. TOLAR, Václav (K); KLIMEŠ, Jan Daniel; DŽUPA, Valér; MARVAN, Jiří; DOUŠA, Pavel; BÁČA, Václav; ČELKO, Alexander Martin: Interval úraz-ošetření u nejčastějších zlomenin skeletu končetin - jednoletá monocentrická studie. *Acta Chirurgiae Orthopaedicae et Traumatologiae Czechoslovaca*, 2020, 87(3): 191-196. DOI: 10.55095/achot2020/031.

Q2/2020; IF: 3.411/2020. ZACH, Petr; BARTOŠ, Aleš; LAGUTINA, Anastasiya; WURST, Zdeněk; GALLINA, Pasquale; RAI, Tanya; KIESLICH, Karel; RIEDLOVÁ, Jitka; IBRAHIM, Ibrahim; TINTĚRA, Jaroslav; MRZÍLKOVÁ, Jana (K): Easy identification of optimal coronal slice on brain magnetic resonance imaging to measure hippocampal area in Alzheimer's disease patients. *BioMed Research International*, 2020, (September): 5894021. DOI: 10.1155/2020/5894021.

2019

BÁČA, Václav; KACHLÍK, David: Klinická anatomie proximálního femuru. In: SKÁLA-ROSENBAUM, Jiří; DŽUPA, Valér; KRBEČ, Martin; et al.: *Zlomeniny proximálního femuru*. 1. vyd. Praha: Galén, 2019, s. 39-45. ISBN 978-80-7492-423-1.

Q1/2019; IF: 3.998/2019. FRÝDLOVÁ, Petra; MRZÍLKOVÁ, Jana; ŠEREMETA, Martin; KŘEMEN, Jan; DUDÁK, Jan; ŽEMLIČKA, Jan; NĚMEC, Pavel; VELENSKÝ, Petr; MORAVEC, Jiří; KOLEŠKA, Daniel; ZAHRADNÍČKOVÁ, Veronika; JIRÁSEK, Tomáš; KODYM, Petr; FRYNTA, Daniel (K); ZACH, Petr: Universality of indeterminate growth in lizards rejected: the micro-CT reveals contrasting timing of growth cartilage persistence in iguanas, agamas, and chameleons. *Scientific Reports*, 2019, 9(December): 18913. DOI: 10.1038/s41598-019-54573-5.

HORÁK, Zdeněk; BÁČA, Václav: Biomechanika proximálního femuru. In: SKÁLA-ROSENBAUM, Jiří; DŽUPA, Valér; KRBEČ, Martin; et al.: *Zlomeniny proximálního femuru*. 1. vyd. Praha: Galén, 2019, s. 47-52. ISBN 978-80-7492-423-1.

Q2/2019; IF: 1.967/2019. KACHLÍK, David (K); VOBORNÍK, Tomáš; DŽUPA, Valér; MARVANOVÁ, Zuzana; ŤOUPAL, Ondřej; NAVARA, Eduard; ŠTEVULOVÁ, Nikoleta; BÁČA, Václav: Where and what arteries are most likely injured with pelvic fractures? The influence of localization, shape, and fracture dislocation on the arterial injury during pelvic fractures. *Clinical Anatomy*, 2019, 32(5): 682-688. DOI: 10.1002/ca.23372.

Q3/2019; IF: 2.276/2019. MRZÍLKOVÁ, Jana; PATZELT, Matěj (K); GALLINA, Pasquale; WURST, Zdeněk; ŠEREMETA, Martin; DUDÁK, Jan; KREJČÍ, František; ŽEMLIČKA, Jan; MUSIL, Vladimír; KARCH, Jakub; ROSINA, Jozef; ZACH, Petr: Imaging of mouse brain fixated in ethanol in micro-CT. *BioMed Research International*, 2019, 2019(July): 2054262. DOI: 10.1155/2019/2054262.

Q3/2019; IF: 1.563/2019. MUSIL, Vladimír (K); ŠACH, Josef; PATZELT, Matěj; KACHLÍK, David; STINGL, Josef: Valves of the small coronary veins in porcine hearts. *Journal of Morphology*, 2019, 280(5): 681-686. DOI: 10.1002/jmor.20974.

Q1/2019; IF: 2.388/2019. PATZELT, Matěj; KACHLÍK, David; STINGL, Josef; ŠACH, Josef; STIBOR, Radek; BENADA, Oldřich; KOFROŇOVÁ, Olga; MUSIL, Vladimír (K): Morphology of the vasa vasorum in coronary arteries of the porcine heart: a new insight. *Annals of Anatomy*, 2019, 223(May): 119-126. DOI: 10.1016/j.aanat.2019.02.006.

Q4/2019; IF: 1.439/2019. PATZELT, Matěj; MRZÍLKOVÁ, Jana (K); DUDÁK, Jan; KREJČÍ, František; ŽEMLIČKA, Jan; KARCH, Jakub; MUSIL, Vladimír; ROSINA, Jozef; SÝKORA, Viktor; HOREHLEDOVÁ, Barbora; ZACH, Petr: Ethanol fixation method for heart and lung imaging in micro-CT. *Japanese Journal of Radiology*, 2019, 37(6): 500-510. DOI: 10.1007/s11604-019-00830-6.

Q1/2019; IF: 2.849/2019. RIEDLOVÁ, Jitka; PAULOVÁ, Markéta; VIGNEROVÁ, Jana; BRABEC, Marek; SEDLAK, Petr; SCHNEIDROVÁ, Dagmar (K): The Low Prevalence of Overweight and Obesity in Czech Breastfed Infants and Young Children: An Anthropological Survey. *International Journal of Environmental Research and Public Health*, 2019, 16(21): 4198. DOI: 10.3390/ijerph16214198.

STINGL, Josef; RATAJOVÁ, Jana; SUCHOMEL, Zdeněk; MALINOVÁ, Petra; PATZELT, Matěj; MUSIL, Vladimír (K): Rok 1848 - významný mezník v historii české chirurgie. *Rozhledy v chirurgii*, 2019, 98(11): 462-468. DOI: 10.33699/PIS.2019.98.11.462-468.

Q2/2019; IF: 3.332/2019. ZACH, Petr; MRZÍLKOVÁ, Jana; PALA, Jan; UTTL, Libor; KÚTNA, Viera; MUSIL, Vladimír; SOMMEROVÁ, Blanka; TŮMA, Petr (K): New Design of the Electrophoretic Part of CLARITY Technology for Confocal Light Microscopy of Rat and Human Brains. *Brain Sciences*, 2019, 9(9): 218. DOI: 10.3390/brainsci9090218.

ZACH, Petr: 24 Mindfulness. In: RABOCH, Jiří; et al.: Duševní zdraví a životní styl: psychiatrie životním stylem. 1. vyd. Praha: Mladá fronta, 2019, s. 254-260. Edice: Edice Postgraduální medicíny. ISBN 978-80-204-5501-7.

2018

Q4/2018; IF: 0.636/2018. BÁČA, Václav; KLIMEŠ, Josef; TOLAR, Václav; ZIMOLA, Petr; BALLIU, Ina; VITVAROVÁ, Ida; LÁSKOVÁ, Hana; DŽUPA, Valér (K); GRIVNA, Michal; ČELKO, Alexander Martin: A 1-year prospective monocentric study of limb, spinal and pelvic fractures: Can monitoring fracture epidemiology impact injury prevention programmes?. Central European Journal of Public Health, 2018, 26(4): 298-304. DOI: 10.21101/cejph.a5161.

Q2/2018; IF: 3.271/2018. KUČTOVÁ, Barbora; WURST, Zdeněk; MRZÍLKOVÁ, Jana; IBRAHIM, Ibrahim; TINTĚRA, Jaroslav; BARTOŠ, Aleš; MUSIL, Vladimír; KIESLICH, Karel; ZACH, Petr (K): Compensatory shift of subcallosal area and paraterminal gyrus white matter parameters on DTI in patients with Alzheimer disease. Current Alzheimer Research, 2018, 15(6): 590-599. DOI: 10.2174/1567205015666171227155510.

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Q2/2018; IF: 3.271/2018. KUTOVÁ, Martina; MRZÍLKOVÁ, Jana; RIEDLOVÁ, Jitka; ZACH, Petr (K): Asymmetric changes in limbic cortex and planum temporale in patients with Alzheimer disease. Current Alzheimer Research, 2018, 15(14): 1361-1368. DOI: 10.2174/1567205015666181004142659.

Q4/2018; IF: 1.039/2018. MUSIL, Vladimír (K); ŠACH, Josef; KACHLÍK, David; PATZELT, Matěj; STINGL, Josef: Vasa vasorum: an old term with new problems. Surgical and Radiologic Anatomy, 2018, 40(10): 1159-1164. DOI: 10.1007/s00276-018-2068-3.

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STINGL, Josef; KÄSTNER, Ingrid; MÍŠKOVÁ, Alena; MUSIL, Vladimír: Das erfolgreiche Leben und tragische Ende des Chirurgen Prof. Dr. Josef Hohlbaum. Prager Nachrichten, 2018, 69(3): 3-6.

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Q4/2018; IF: 0.355/2018. SUKOP, Andrej; PATZELT, Matěj (K); KOZÁK, Jiří; LEŠKO, Róbert: Reconstruction of the anterior skull base with free muscle flap after iatrogenic injury. Česká a slovenská neurologie a neurochirurgie, 2018, 81(6): 707-708. DOI: 10.14735/amcsnn2018707.

Q3/2018; IF: 2.197/2018. ZACH, Petr (K); ZIMMELOVÁ, Petra; MRZÍLKOVÁ, Jana; KUTOVÁ, Martina: Difference in Subjective Accessibility of On Demand Recall of Visual, Taste, and Olfactory Memories. BioMed Research International, 2018, (January): 1630437. DOI: 10.1155/2018/1630437.