

**EDITORIAL**

## Editorial for the second issue of volume 59 of the medical journal “Medical Research”

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Dear colleagues and friends, it is a great pleasure to summarize the articles of the second issue of volume 59 of the medical journal “Medical Research” published by the Faculty of Medicine, University of Belgrade.

In this issue of **Medical Research**, several researchers report on current, relevant topics – particularly in internal medicine, cardiology, radiology, and oncology – mostly through interesting small-scale studies and reviews.

*Pavic, S. et al.* report on a recent case of a snakebite in Western Serbia with a fatal outcome, present current treatment recommendations, especially highlighting the need for extensive and prolonged monitoring following such a bite (1). *Mehmedbegovic, Z. et al.* investigated the methodology for measuring the lumen diameter of the left main coronary artery, demonstrating that optical coherence tomography (OCT) is more suitable to capture outliers than quantitative coronary analysis (QCA) (2). In her review, *Bozic, M.* identified some critical issues in the diagnosis and treatment of glaucoma. In particular, misconceptions can occur when different methods and evaluations during measuring intraocular pressure are applied (3). The research group led by *M. Buta* studied the development of distant metastasis following breast cancer, monitoring and examining patients over an extended period of time. Their results demonstrate that adequate surgical resection remains of critical importance (4). The study by *Nedeljkovic-Arsenovic, O. et al.* was conducted at the University Clinical Centre of Serbia, Center of Ra-

diology, and focuses on the diagnostics of hypertrophic cardiomyopathy (HCM). It reveals the cardiac magnetic resonance (CMR) as the gold standard among non-invasive methods (5). *Protic, D. et al.* summarize existing studies on fragile X syndrome and its pharmacological treatment options, specifically addressing defects in the signalling pathway caused by the *FMRI* gene. The authors discuss gaps in the availability of pharmacological support and outline potential directions for further molecular biology research (6). *Markovic, N. et al.* conducted an *in silico* study (computer based molecular docking simulations to predict interactions between ligands and receptors), demonstrating the beneficial effects of the Mediterranean diet on key proteins in the osteoclast differentiation signaling pathway, which are due to its high content of some bioactive compounds. Essentially, they showed the inhibitory effect of these compounds on the Akt protein (protein kinase B) and, consequently, on osteoclast activity (7). The paper by *Otasevic, P. et al.* summarizes the current state of knowledge regarding the role of iron deficiency (ID) and subsequently iron supplementation in patients with heart failure with reduced ejection fraction, suggesting the reduced mortality following the treatment (8).

We invite you to learn more about these interesting and relevant topics, and to understand the published works not only as a theoretical foundation but also as a source of practical knowledge, which you can apply in practice. We hope you enjoy reading it.

**Literature:**

1. Pavic S, Tomic B, Novkovic A, Ajtic R, Nikolic S. Snakebite with a fatal outcome in Western Serbia: A rare case report; *Medicinska istraživanja* 2026; 59(2):139-144; DOI: 10.5937/medi0-63169.
2. Mehmedbegovic Z, Jelic D, Mladenovic Dj, Travica L, Simic D, Dukic Dj, et al. Assessment of left main coronary artery luminal diameter using quantitative coronary analysis and optical coherence tomography; *Medicinska istraživanja* 2026; 59(2):93-103; DOI: 10.5937/medi0-63081.
3. Bozic M. The nine most common misconceptions in the diagnosis and treatment of glaucoma; *Medicinska istraživanja* 2026; 59(2):133-138; DOI: 10.5937/medi0-60221.
4. Buta M, Goran M, Inic Z, Santrac N, Jeftic N, Raketic J et al. Distant metastasis – free interval and overall survival in breast sarcoma: a single-institution retrospective study; *Medicinska istraživanja* 2026; 59(2):106-111; DOI: 10.5937/medi0-63835.

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5. Nedeljkovic-Arsenovic O, Bjelica T, Tesic M, Nedeljkovic I, Tomic A, Mladenovic Markovic A, et al. The role and significance of cardiac magnetic resonance in hypertrophic cardiomyopathy; *Medicinska istraživanja* 2026; 59(2):83-91; DOI: 10.5937/medi0-61492.
6. Protic D, Stojkovic M, Budimirovic D. Targeted drug development in fragile X syndrome: molecular medicine as a key tool in clinical pharmacology; *Medicinska istraživanja* 2026; 59(2):121-132; DOI: 10.5937/medi0-60213.
7. Markovic N, Mijuskovic S, Jovanovic M, Mitovic N, Nenadovic A, Vukovic A, Kovacevic S, Kosic M, Juloski J, S. Stankovic M, Nesovic Ostojic J. The effect of the most abundant bioactive compounds of the mediterranean diet on the osteoblast-mediated osteoclast differentiation signaling pathway: in silico analysis; *Medicinska istraživanja* 2026; 59(2):75-82; DOI: 10.5937/medi0-60144.
8. Otasevic P, Djordjic A, Karadzic T, Vuletic J, Petrovic I. Intravenous iron therapy in heart failure with reduced ejection fraction: evidence from recent trials and meta-analyses; *Medicinska istraživanja* 2026; 59(2):113-119; DOI: 10.5937/medi0-59979.