

LIST OF PUBLICATIONS: Karen Belkić

	Page Number(s)
Books	1
Book chapters	1
Full-length articles in peer-reviewed scientific journals (in reverse chronological order)	2–8
Monographs	8

• Books

Belkić K. *The Occupational Stress Index: An Approach Derived from Cognitive Ergonomics and Brain Research for Clinical Practice* (Cambridge International Science Publishing, Cambridge, 2003) ISBN: 1898326029

Belkić K. *Molecular Imaging through Magnetic Resonance for Clinical Oncology* (Cambridge International Science Publishing, Cambridge, 2004) ISBN: 1904602290

Belkić Dž, **Belkić K.** *Signal Processing in Magnetic Resonance Spectroscopy with Biomedical Applications* (Taylor & Francis Group via CRC Press, London, 2010) ISBN: 9781439806449, eBook ISBN 9780429130199

Belkić K, Savić Č. *Job Stressors and Mental Health: A Proactive Clinical Perspective* (World Scientific Publishers, Singapore, 2013) ISBN and eBook ISBN 9789814525558

Belkić Dž, **Belkić K.** *Magnetic Resonance Imaging and Spectroscopy – Vol. 3 of the Comprehensive Biomedical Physics* (Elsevier Publishers, Amsterdam, 2014) ISBN: 9780444536327, eBook ISBN: 9780444536334

• Book chapters

Landsbergis PA, Schnall PL, **Belkić K**, Baker D, Schwartz J, Pickering T. The Workplace and Cardiovascular Disease: Relevance and Potential Role for Occupational Health Psychology. In: Campbell Quick J, Tetrick L (eds.). *Handbook of Occupational Health Psychology* (American Psychological Association, Washington D.C., 2003) pp. 265-287

Belkić K. Return-to-Work in Scandinavia: Experience and Insights with a Focus on Sweden. In: Talmage JB, Melhorn JM, Hyman MH (eds.). *A Physician's Guide to Return to Work* (American Medical Association Press, Chicago, 2011) pp. 465-472

Landsbergis PA, Schnall PL, **Belkić K**, Baker D, Schwartz J, Pickering T. The Workplace and Cardiovascular Disease: Relevance and Potential Role for Occupational Health Psychology. In: Campbell Quick J, Tetrick L (eds.). *Handbook of Occupational Health Psychology* (American Psychological Association, Washington D.C., 2011) pp. 243-264

Belkić Dž, **Belkić K.** Optimized molecular imaging through magnetic resonance for improved target definition in radiation oncology. In: Gómez-Tejedor G, Fuss MC (eds.). *Radiation Damage to Biomolecular Systems* (Springer, Heidelberg, 2012) pp. 411–430

Belkić K. Inter-disciplinarity of MR and future perspectives with a focus on screening. In: Belkić Dž, Belkić K (eds.). *Magnetic Resonance Imaging and Spectroscopy -- Vol. 3 of the Comprehensive Biomedical Physics* (Elsevier Publishers, Amsterdam, 2014) pp. 399-433

Williams S, Belkić Dž, **Belkić K.** Potential and Obstacles of MRS in the Clinical Setting. In: Belkić Dž, Belkić K (eds.). *Magnetic Resonance Imaging and Spectroscopy -- Vol. 3 of the Comprehensive Biomedical Physics* (Elsevier Publishers, Amsterdam, 2014) pp. 315-329

• Articles Published in Peer Reviewed Scientific Journals

2021

Andersson S, Megyesi D, **Belkić K**, Alder S, Östensson E, Mints M. Age, margin status, high-risk human papillomavirus and cytology independently predict recurrent high-grade cervical intraepithelial neoplasia up to 6 years after treatment. *Oncology Letters* 2021; 22: 684 [Open access](#) DOI: 10.3892/ol.2021.12945

Andersson S, **Belkić K**, Mints M, Östensson E. Acceptance of self-sampling among long-term cervical screening non-attenders with HPV positive results: Promising opportunity for specific cancer education. *Journal of Cancer Education* 2021; 36: 126-133 [Open access](#): doi.org/10.1007/s13187-019-01608-0

Belkić Dž, **Belkić K**. Derivative NMR spectroscopy for J-coupled multiplet resonances using short time signals (0.5KB) encoded at low magnetic field strengths (1.5T). Part I: Water suppressed. *Journal of Mathematical Chemistry* 2021; 59 (2): 364-404 [Open access](#) doi.org/10.1007/s10910-020-01198-z

Belkić Dž, **Belkić K**. Derivative NMR spectroscopy for J-coupled multiplet resonances using short time signals (0.5KB) encoded at low magnetic field strengths (1.5T). Part II: Water unsuppressed. *Journal of Mathematical Chemistry* 2021; 59 (2): 405-443 [Open access](#) doi.org/10.1007/s10910-020-01199-y

Belkić Dž, **Belkić K**. Derivative NMR spectroscopy for J-coupled resonances in analytical chemistry and medical diagnostics. *Advances in Quantum Chemistry* 2021; 84: 95-265 doi.org/10.1016/bs.aiq.2021.05.001

Belkić Dž, **Belkić K**. In vivo derivative NMR spectroscopy for simultaneous improvements of resolution and signal-to-noise ratio: Case study, glioma. *Journal of Mathematical Chemistry* 2021; 5 (9): 2133–2178 [Open access](#) doi.org/10.1007/s10910-021-01280-0

Belkić Dž, **Belkić K**. High-resolution at 3T for in vivo derivative NMR spectroscopy in medical diagnostics of ovarian tumor: Exact quantification by shape estimations. *Journal of Mathematical Chemistry* 2021; 59 (10): 2218-2260 [Open access](#) doi.org/10.1007/s10910-021-01283-x

Belkić Dž, **Belkić K**. In vitro proton magnetic resonance spectroscopy at 14T for benign and malignant ovary: Part I, Signal processing by the nonparametric fast Padé transform. *Journal of Mathematical Chemistry Online first* 2021 [Open access](#) doi.org/10.1007/s10910-021-01314-7

Goyal P, Rustagi N, **Belkić K**. Physicians' total burden of occupational stressors: Over three-fold increased odds of burnout. *Southern Medical Journal* 2021; 114 (7): 409-415 DOI: 10.14423/SMJ.0000000000001277

Östensson E, **Belkić K**, Ramqvist T, Mints M, Andersson S. Self-sampling for high-risk human papillomavirus as a follow-up alternative after treatment of high-grade cervical intraepithelial neoplasia. *Oncology Letters* 2021; 21: 240 [Open access](#) DOI: 10.3892/ol.2021.12501

2020

Alder S, Megyesi D, Sundström K, Östensson E, Mints M, **Belkić K**, Arbyn M, Andersson S. Incomplete excision of cervical intraepithelial neoplasia as a predictor of the risk of recurrent disease – a 16 year follow-up study. *American Journal of Obstetrics & Gynecology* 2020; 222 (2): 172e1-172e12 doi: 10.1016/j.ajog.2019.08.042

Belkić Dž, **Belkić K**. Feasibility study for applying the lower-order derivative fast Padé transform to measured time signals. *Journal of Mathematical Chemistry* 2020; 58 (1): 146–177 [Open access](#) doi.org/10.1007/s10910-019-01077-2

2019

Belkić Dž, **Belkić K**. Review of recent applications of the conventional and derivative fast Padé transform for magnetic resonance spectroscopy. *Journal of Mathematical Chemistry* 2019; 57 (2): 385–464 [Open access](#) doi.org/10.1007/s10910-019-01060-x

Belkić Dž, **Belkić K**. Automatic self-correcting in signal processing for magnetic resonance spectroscopy: Noise reduction, resolution improvement and splitting overlapped peaks. *Journal of Mathematical Chemistry* 2019; 57 (9): 2082-2109 [Open access](#) doi.org/10.1007/s10910-019-01060-x

Belkić K, Nedić O. Health challenges and return to work among physicians: Insights from participatory action research for physicians by physicians. *Medicinski Pregled* 2019; 72 (11-12): 367-373 [Open access](#) doi.org/10.2298/MPNS1912367B

Fröberg M, Östensson E, **Belkić K**, Oštrbenk A, Poljak M, Mints M, Arbyn M, Andersson S. The impact of HPV status on development of high-grade cervical intraepithelial neoplasia in women negative for intraepithelial lesions or malignancy at baseline: 9-year Swedish nested case-control follow-up study. *Cancer* 2019; 125 (2): 239-248 [Open access](#) DOI: 10.1002/encr.31788

2018

Andersson S, **Belkić K**, Mints M, Östensson E. Is self-sampling to test for high-risk papillomavirus an acceptable option among women who have been treated for high-grade cervical intraepithelial neoplasia? *PLoS One* 2018; 13: e0199038 [Open access](#) doi.org/10.1371/journal.pone.0199038

Belkić Dž, **Belkić K**. Robust high-resolution quantification of time signals encoded by in vivo magnetic resonance spectroscopy. *Nuclear Instruments & Methods in Physics Research A: Accelerators, Spectrometers, Detectors and Associated Equipment* 2018 (January 11); 878: 99–128 doi.org/10.1016/j.nima.2017.07.034

Belkić Dž, **Belkić K**. Exact quantification by the nonparametric fast Padé transform using only shape estimation of high-order derivatives of envelopes. *Journal of Mathematical Chemistry* 2018; 56 (1): 268–314 [Open access](#) doi.org/10.1007/s10910-017-0837-6

Belkić Dž, **Belkić K.** Explicit extraction of absorption peak positions, widths and heights using higher order derivatives of total shape spectra by nonparametric processing of time signals as complex damped multi-exponentials. *Journal of Mathematical Chemistry* 2018; 56 (3): 932-977 [Open access](#) doi.org/10.1007/s10910-017-0852-7

Belkić Dž, **Belkić K.** Validation of reconstructed component spectra from non-parametric derivative envelopes: Comparison with component lineshapes from parametric derivative estimations with the solved quantification problem. *Journal of Mathematical Chemistry* 2018; 56 (8): 2537-2578 [Open access](#) doi.org/10.1007/s10910-018-0906-5

2017

Andersson S, **Belkić K**, Safer Demirbükler S, Mints M, Östensson E. Perceived cervical cancer risk among women treated for high-grade cervical intraepithelial neoplasia: The importance of specific knowledge. *PLoS One* 2017; 12: e190156 [Open access](#) doi.org/10.1371/journal.pone.0190156

Belkić Dž, **Belkić K.** High-resolution quantum-mechanical signal processing for in vivo NMR spectroscopy. *Advances in Quantum Chemistry* 2017; 74: 347-379 doi.org/10.1016/bs.aiq.2016.06.004

Belkić Dž, **Belkić K.** Iterative averaging of spectra as a powerful way of suppressing spurious resonances in signal processing. *Journal of Mathematical Chemistry* 2017; 55 (1): 304–348 [Open access](#) DOI 10.1007/s10910-016-0693-9

Belkić Dž, **Belkić K.** In vivo magnetic resonance spectroscopy for ovarian cancer diagnostics: Quantification by the fast Padé transform. *Journal of Mathematical Chemistry* 2017; 55 (1): 349–406 [Open access](#) DOI 10.1007/s10910-016-0694-8

Belkić Dž, **Belkić K.** Synergism of spectra averaging and extrapolation for quantification of in vivo MRS time signals encoded from the ovary. *Journal of Mathematical Chemistry* 2017; 55 (5): 1067–1109 [Open access](#) DOI 10.1007/s10910-016-0728-2

Belkić Dž, **Belkić K.** Encoded in vivo time signals from the ovary in magnetic resonance spectroscopy: Poles and zeros as the cornerstone for stability of response functions of systems to external perturbations. *Journal of Mathematical Chemistry* 2017; 55 (5): 1110–1157 [Open access](#) DOI 10.1007/s10910-017-0743-y

Belkić Dž, **Belkić K.** Visualizing hidden components of envelopes non-parametrically in magnetic resonance spectroscopy: Phosphocholine, a breast cancer biomarker. *Journal of Mathematical Chemistry* 2017; 55 (8): 1698–1723 [Open access](#) DOI 10.1007/s10910-017-0769-1

Belkić Dž, **Belkić K.** Robust identification of the cancer biomarker phosphocholine through partitioned envelopes in noisy magnetic resonance spectroscopic data by the non-parametric fast Padé transform. *Journal of Mathematical Chemistry* 2017; 55 (10): 2004–2047 [Open access](#) DOI 10.1007/s10910-017-0807-z

Belkić K, Belkić Dž. The challenge of ovarian cancer: Steps towards early detection through advanced signal processing in magnetic resonance spectroscopy. *Israel Medical Association Journal* 2017; 19: 517–525 [openly-accessible website](#): ima.org.il: August 2017

2016

Belkić Dž, **Belkić K.** Mathematically-optimized magnetic resonance spectroscopy in breast cancer diagnostics: Implications for personalized cancer medicine. *Journal of Mathematical Chemistry* 2016; 54 (1): 186–230. DOI 10.1007/s10910-015-0556-9

Belkić Dž, **Belkić K.** The fast Padé transform for noisy magnetic resonance spectroscopic data from the prostate: Potential contribution to individualized prostate cancer care. *Journal of Mathematical Chemistry* 2016; 54 (3): 707-764. DOI 10.1007/s10910-015-0586-3

Belkić Dž, **Belkić K.** How the fast Padé transform handles noise for MRS data from the ovary: Importance for ovarian cancer diagnostics. *Journal of Mathematical Chemistry* 2016; 54 (1): 149–185. DOI 10.1007/s10910-015-0555-x

Belkić Dž, **Belkić K.** Quantification by the fast Padé transform of magnetic resonance spectroscopic data encoded at 1.5T: Implications for brain tumor diagnostics. *Journal of Mathematical Chemistry* 2016; 54 (2): 602–655. DOI 10.1007/s10910-015-0578-3

Belkić Dž, **Belkić K.** Improving the diagnostic yield of magnetic resonance spectroscopy for pediatric brain tumors through mathematical optimization. *Journal of Mathematical Chemistry* 2016, 54 (7): 1461-1513. DOI 10.1007/s10910-016-0632-9

Belkić Dž, **Belkić K.** Strategic steps for advanced molecular imaging with magnetic resonance-based diagnostic modalities. *Technology in Cancer Research & Treatment* 2015; 14 (1): 119 – 142 [Open access](#) DOI: 10.7785/tcrt.2012.500401

2015

Belkić Dž, **Belkić K.** Proof-of-the-concept study on mathematically optimized magnetic resonance spectroscopy for breast cancer diagnostics. *Technology in Cancer Research & Treatment* 2015 (3); 14: 277–297 [Open access](#) DOI: 10.1177/1533034614547446

Belkić Dž, **Belkić K.** Mechanistic radiobiological models for repair of cellular radiation damage. *Advances in Quantum Chemistry* 2015; 70: 163 – 263. doi.org/10.1016/bs.aiq.2014.07.003

Belkić K, Cohen M, Wilczek B, Andersson S, Berman AH, Márquez M, Vukojević V, Mints M. Imaging surveillance programs for women at high breast cancer risk in Europe: Are women from ethnic minority groups adequately included? *International Journal of Oncology* 2015; 47: 817–839 [Open access](#) DOI: 10.3892/ijo.2015.3063

2014

Belkić Dž, **Belkić K.** Padé optimization of noise-corrupted magnetic resonance spectroscopic time signals from fibroadenoma of the breast. *Journal of Mathematical Chemistry* 2014; 52 (10): 2680 – 2713. DOI 10.1007/s10910-014-0411-4

Belkić Dž, **Belkić K.** The role of optimized molecular imaging in personalized cancer medicine. *Diagnostic Imaging Europe* 2014; 30: 28 – 31

Belkić K, Nedić O. Occupational medicine—then and now: Where we could go from here. *Medicinski Pregled* 2014; 67 (5-6): 139 – 147 [Open Access](#)
DOI: 10.2298/MPNS1406139B

Belkić K, Belkić Dž. Optimized spectral analysis in magnetic resonance spectroscopy for early tumor diagnostics. *Journal of Physics: Conference Series* 2014; 565: 012002. doi:10.1088/1742-6596/565/1/012002

Savić Č, **Belkić K.** Why are job stressors relevant for psychiatry? *British Journal of Psychiatry* 2014; 205 (6): 425 – 427 [Open Access](#) doi: 10.1192/bjp.bp.114.154054

2013

Alder S, Perinetti C, Mints M, **Belkić K,** Sundström K, Sandin S, Weiderpass E, Andersson S. Acceptance of human papillomavirus (HPV) vaccination among young women in a country with a high prevalence of HPV infection. *International Journal of Oncology* 2013; 43: 1310 – 1318 [Open Access](#)
DOI: 10.3892/ijo.2013.2023

Belkić Dž, **Belkić K.** Mechanistic description of survival of irradiated cells: Repair kinetics in Padé linear-quadratic or differential Michaelis-Menten model. *Journal of Mathematical Chemistry* 2013; 51 (9): 2572 – 2607. DOI 10.1007/s10910-013-0243-7

Belkić Dž, **Belkić K.** Resolution enhancement as a key step towards clinical implementation of Padé-optimized magnetic resonance spectroscopy for diagnostic oncology. *Journal of Mathematical Chemistry* 2013; 51 (9): 2608 – 2637. DOI 10.1007/s10910-013-0244-6

Belkić Dž, **Belkić K.** Molecular imaging in the framework of personalized cancer medicine. *Israel Medical Association Journal* 2013; 15: 665 – 672 [openly-accessible website](#): ima.org.il: November 2013

Belkić Dž, **Belkić K.** Mechanistic radio-biological models with chemical kinetics-based repair for cell survival after heavy ion irradiation. *Advances in Quantum Chemistry* 2013; 65: 407 – 449. doi.org/10.1016/B978-0-12-396455-7.00014-5

2012

Belkić Dž, **Belkić K.** A meta-analysis of studies using MR spectroscopy for evaluating suspicious lesions after radiation therapy of primary brain tumors. *Journal of Mathematical Chemistry* 2012; 50 (9): 2527–2557. DOI 10.1007/s10910-012-0047-1

Belkić Dž, **Belkić K.** Magnetic resonance spectroscopy with high-resolution and exact quantification in the presence of noise for improving ovarian cancer detection. *Journal of Mathematical Chemistry* 2012; 50 (9): 2558–2576. DOI 10.1007/s10910-012-0049-z

Belkić K, Nedić O. Night work, total occupational burden and cancer/cardiovascular risk factors in physicians. *Medicinski Pregled* 2012; 65 (11–12): 461-469 [Open Access](#) DOI: 10.2298/MPNS1212461B

Fridner A, **Belkić K,** Marini M, Gustafsson Sendén M, Schenck-Gustafsson K. Why don't academic physicians seek needed professional help for psychological distress? *Swiss Medical Weekly* 2012; 142: w13626 [Open Access](#) doi:10.4414/smw.2012.13626

2011

Belkić Dž, **Belkić K.** High-resolution signal processing in magnetic resonance spectroscopy for early cancer diagnostics. *Advances in Quantum Chemistry* 2011; 61: 243–347. DOI: 10.1016/B978-0-12-386477-2.00006-1

Belkić Dž, **Belkić K.** Fast Padé transform in the theory of resonances: Exact solution of the harmonic inversion problem. *Journal of Physics B: Atomic, Molecular and Optical Physics* 2011; 44: 125002

Belkić Dž, **Belkić K.** Padé-Froissart exact signal-noise separation in nuclear magnetic resonance spectroscopy. *Journal of Physics B: Atomic, Molecular and Optical Physics* 2011; 44: 125003

Belkić Dž, **Belkić K.** The potential for practical improvements in cancer diagnostics by mathematically-optimized magnetic resonance spectroscopy. *Journal of Mathematical Chemistry* 2011; 49 (10):2408-2440. DOI 10.1007/s10910-011-9891-7

Belkić K, Belkić Dž. Possibilities for improved early breast cancer detection by Padé-optimized magnetic resonance spectroscopy. *Israel Medical Association Journal* 2011; 13: 236-243 [openly-accessible website](#): ima.org.il: April 2011

Fridner A, **Belkić K,** Minucci D, Pavan L, Marini M, Pingel B, Putoto G, Simonato P, Løvseth LT, Schenck-Gustafsson K. The work environment and recent suicidal thoughts among male university hospital physicians in Sweden and Italy (The HOUPE Study). *Gender Medicine* 2011; 8 (4): 269-279. doi:10.1016/j.genm.2011.05.009

2010

Belkić K, Cohen M, Márquez M, Mints M, Wilczek B, Berman AH, Castellanos E, Castellanos M. Screening of high-risk groups for breast and ovarian cancer in Europe: A focus on the Jewish population. *Oncology Reviews* 2010; 4 (4):233–267. [Open Access](#) DOI 10.1007/s12156-010-0056-x

Nedić O, **Belkić K**, Filipović D, Jocić N. Job stressors among female physicians: Relation to having a clinical diagnosis of hypertension. *International Journal of Occupational & Environmental Medicine* 2010; 16 (3): 330-340. doi: 10.1179/107735210799160165

2009

Belkić Dž, **Belkić K**. The general concept of signal-noise separation (SNS): Mathematical aspects and implementation in magnetic resonance spectroscopy, *Journal of Mathematical Chemistry* 2009; 45 (3): 563-597. doi:10.1007/s10910-007-9344-5

Belkić Dž, **Belkić K**. Exact quantification of time signals from magnetic resonance spectroscopy by the fast Padé transform with applications to breast cancer diagnostics. *Journal of Mathematical Chemistry* 2009; 45 (3): 790-818. doi:10.1007/s10910-008-9462-8

Belkić Dž, **Belkić K**. Unequivocal resolution of multiplets in MR Spectra for prostate cancer diagnostics achieved by the fast Padé transform. *Journal of Mathematical Chemistry* 2009; 45 (3): 819-858. doi:10.1007/s10910-008-9484-2

Fridner A, **Belkić K**, Marini M, Minucci D, Pavan L, Schenck-Gustafsson K. Recent suicidal ideation among female university hospital physicians in Sweden and Italy (The HOUPE Study): Cross-sectional associations with work stressors. *Gender Medicine* 2009; 6 (1): 314–328. doi:10.1016/j.genm.2009.04.006

2008

Belkić Dž, **Belkić K**. Mathematical modeling applied to an NMR problem in ovarian cancer detection. *Journal of Mathematical Chemistry* 2008; 43 (1): 395-425. doi:10.1007/s10910-007-9279-x

Belkić Dž, **Belkić K**. Unequivocal disentangling genuine from spurious information in time signals: Clinical relevance in cancer diagnostics through magnetic resonance spectroscopy. *Journal of Mathematical Chemistry* 2008; 44 (3): 884-912. doi:10.1007/s10910-007-9337-4

Belkić K, Savić Č. The occupational stress index: An approach derived from cognitive ergonomics applicable to clinical practice. *Scandinavian Journal of Work Environmental & Health* 2008; (Suppl. 6): 169-175

Landsbergis PA, Schnall PL, **Belkić K**, Schwartz J, Baker D, Pickering TG. Working conditions and masked (hidden) hypertension: Insights into the global epidemic of hypertension. *Scandinavian Journal of Work Environmental & Health* 2008; (Suppl. 6): 41-51

Nedić O, **Belkić K**, Filipović D, Jocić N. Work stressors among physicians with the acquired cardiovascular disorders: Assessment using the occupational stress index, *Medicinski Pregled* 2008; 61: 226-234

Nedić O, **Belkić K**, Filipović D, Jocić N. Gender as an important effect modifier between exposure to work stressors among physicians of various specialties and the occurrence of cardiovascular disease. *Medicinski Pregled* 2008; 61: 343-349

2007

Belkić Dž, **Belkić K**. Decisive role of mathematical methods in early cancer diagnostics: Optimized Padé-based magnetic resonance spectroscopy. *Journal of Mathematical Chemistry* 2007; 42 (1): 1-35. doi: 10.1007/s10910-007-9227-9

Belkić K. Resolution performance of the fast Padé transform: Potential advantages for magnetic resonance spectroscopy in ovarian cancer diagnostics. *Nuclear Instruments & Methods in Physics Research A: Accelerators, Spectrometers, Detectors and Associated Equipment* 2007; 580 (2): 874-80. doi:10.1016/j.nima.2007.06.036

Belkić K, Nedić O. Workplace stressors and lifestyle-related cancer risk factors among female physicians: Assessment using the occupational stress index. *Journal of Occupational Health* 2007; 49 (1): 61-71. doi: 10.1539/joh.49.61

Márquez M, **Belkić K**, Nilsson S, Holmberg AR. Genetic testing in patients with hereditary cancer risk: Social, ethical and legal considerations. *Instituto de Investigaciones Jurídicas* 2007 (383): 295-340.

Terán L, Baezconde-Garbanati L, Márquez M, Castellanos E, **Belkić K**. On-time mammography screening with a focus on Latinas with low income: A proposed cultural model. *Anti-Cancer Research* 2007 (November 6C); 27: 4325-4338 [Open Access](#)

2006

Belkić Dž, **Belkić K**. *In vivo* magnetic resonance spectroscopy by the fast Padé transform. *Physics in Medicine & Biology* 2006; 51 (5): 1049-1075. doi:10.1088/0031-9155/51/5/001

Belkić Dž, **Belkić K**. Mathematical optimization of *in vivo* NMR chemistry through the fast Padé transform: Potential relevance for early breast cancer detection by magnetic resonance spectroscopy. *Journal of Mathematical Chemistry* 2006; 40 (1): 85-103. doi: 10.1007/s10910-006-9123-8

2005

Belkić Dž, **Belkić K**. Fast Padé transform for optimal quantification of time signals from magnetic resonance spectroscopy. *International Journal of Quantum Chemistry* 2005; 105 (5): 493-510. doi:10.1002/qua.20825

Belkić Dž, **Belkić K**. The fast Padé transform in magnetic resonance spectroscopy for potential improvements in early cancer diagnostics. *Physics in Medicine & Biology* 2005; 50 (18): 4385-4408. doi:10.1088/0031-9155/50/18/010

2004

Belkić K. Magnetic resonance spectroscopic imaging in breast cancer detection: Possibilities beyond the conventional theoretical framework for data analysis. *Nuclear Instruments & Methods in Physics Research A: Accelerators, Spectrometers, Detectors and Associated Equipment* 2004; 525 (1-2): 313-321. doi:10.1016/j.nima.2004.03.080

Belkić K. Current dilemmas and future perspectives for breast cancer screening with a focus upon optimization of magnetic resonance spectroscopic imaging by advances in signal processing. *Israel Medical Association Journal* 2004; 6: 610-618. [openly-accessible website](#): ima.org.il: October 2004

Belkić K, Belkić Dž. Spectroscopic imaging through magnetic resonance for brain tumour diagnostics: Recent achievements, dilemmas and potential solutions via advances in signal processing. *Journal of Computational Methods in Science & Engineering* 2004; 4: 157-207

Belkić K, Landsbergis P, Schnall P, Baker D. Is job strain a major source of cardiovascular disease risk? *Scandinavian Journal of Work Environmental & Health* 2004; 30 (2): 85-128 [Open Access](#) doi: 10.5271/sjweh.769

2003

Belkić K. Magnetic resonance spectroscopy and spectroscopic imaging: A review of basic principles and achievements in oncology. *Journal of Computational Methods in Science & Engineering* 2003; 3: 505-533.

Belkić K. The need for quantitative biomedical spectroscopic imaging through magnetic resonance in oncology beyond the conventional Fourier-based framework for data analysis. *Journal of Computational Methods in Science & Engineering* 2003; 3: 535-561

2002

Terán L, **Belkić K**, Johnson CA. An exploration of psychosocial determinants of obesity among Hispanic women. *Hispanic Journal of Behavioral Science* 2002; 24 (1): 92-103. DOI: 10.1177/0739986302024001006

2001

Belkić K, Schnall P, Landsbergis P, Schwartz JE, Gerber LM, Baker D, Pickering TG. Hypertension at the Workplace—An occult disease? The need for work site surveillance. *Advances in Psychosomatic Medicine* 2001; 22: 116-138. doi: 10.1159/000059280

Landsbergis PA, Schnall PL, **Belkić K**, Baker D, Schwartz J, Pickering TG. Work stressors and cardiovascular disease. *Work* 2001; 17: 191-208

2000

Belkić K. Cardiac electrical stability and environmental stress. *Occupational Medicine State of the Art Reviews* 2000 (January-March); 15: 117-120

Belkić K. The forebrain: Central stress mechanisms and cardiovascular responses. *Occupational Medicine State of the Art Reviews* 2000 (January-March); 15: 109-115

Belkić K. Myocardial oxygen supply and demand: Environmental triggers of imbalance. *Occupational Medicine State of the Art Reviews* 2000 (January-March); 15: 132-136

Belkić K. Ambulatory electrocardiographic monitoring: Stress-mediated, clinically-relevant endpoints. *Occupational Medicine State of the Art Reviews* 2000 (January-March); 15: 196-203

Belkić K, Landsbergis P, Schnall P, Baker D, Theorell T, Siegrist J, Peter R, Karasek R. Psychosocial factors: Review of the empirical data among men. *Occupational Medicine State of the Art Reviews* 2000 (January-March); 15: 24-40

Belkić K, Savić Č. Dehumanization versus humanization of work: Insights from cognitive ergonomics and brain research. *Occupational Medicine State of the Art Reviews* 2000 (January-March); 15: 87-94.

Belkić K, Schnall P, Landsbergis P, Baker D. The workplace and cardiovascular health: Conclusions and thoughts for a future agenda. *Occupational Medicine State of the Art Reviews* 2000 (January-March); 15: 307-321

Belkić K, Schnall P, Savić Č, Landsbergis P. Multiple exposures: Towards a model of total occupational burden. *Occupational Medicine State of the Art Reviews* 2000 (January-March); 15: 94-105.

Belkić K, Schnall P, Uglješić M. Cardiovascular evaluation of the worker and workplace: A practical guide for clinicians. *Occupational Medicine State of the Art Reviews* 2000 (January-March); 15: 213-222

Fisher J, **Belkić K.** A public health approach in clinical practice. *Occupational Medicine State of the Art Reviews* 2000 (January-March); 15: 245-253

Schnall PL, **Belkić K.** Assessment of the cardiovascular system at the workplace: Obtaining a CVD history--Obstacles and challenges. *Occupational Medicine State of the Art Reviews* 2000 (January-March); 15: 189-190

Schnall PL, **Belkić K.** Point estimates of blood pressure at the worksite. *Occupational Medicine State of the Art Reviews* 2000 (January-March); 15: 203-212

Schnall PL, **Belkić K**, Landsbergis P, Baker D. Why the workplace and cardiovascular disease? Occupational Medicine State of the Art Reviews 2000 (January-March); 15: 1-5

Schnall PL, **Belkić K**, Landsbergis PA, Schwartz JE, Gerber LM, Baker D, Pickering TG. Hypertension at the workplace—often an occult disease: The relevance and potential in Japan for work site surveillance? Japan Journal of Stress Science 2000; 15: 152-174

Schnall PL, Schwartz J, Landsbergis P, **Belkić K**, Warren K, Pickering T. Job strain findings in the Cornell University Worksite Blood Pressure Study: A review. Journal of Tokyo Medical University 2000; 58: 367-376

Schwartz J, **Belkić K**, Schnall P, Pickering T. Mechanisms by which work stress may lead to hypertension and cardiovascular morbidity. Occupational Medicine State of the Art Reviews 2000; 15: 121-132

1991-1999

Belkić K, Jelić V, Djordjević M, Micković Lj, Uglješić M. Rhythm disturbances in apparently healthy professional drivers. Kardiologija 1991; 12: 167-170

Belkić K, Micković Lj, Uglješić M, Pavlović S. Work-place interventions for cardiovascular disease prevention in professional drivers. Revija Rada 1991; 21: 47-53

Belkić K, Uglješić M, Pavlović S, Micković Lj. Standard risk factor intervention and cardiovascular disease prevention in professional drivers. Revija Rada 1991; 21: 32-34

Pavlović S, Kočović D, Djordjević M, **Belkić K**, Kostić D, Velimirović D. The etiology of syncope in pacemaker patients. Pacing and Clinical Electrophysiology (PACE) 1991; 14 (12): 2086-2091. doi: 10.1111/j.1540-8159.1991.tb06478.x

Pavlović S, Djordjević M, Kočović D, Kostić D, Velimirović D, **Belkić K**, Stojanov P, Savić D. Comparative study of metabolic parameters in patients with the meta-mv rate-responsive pacing system. Kardiologija 1991; 12: 171-180

Stojanov P, Djordjević M, Velimirović D, Savić D, Kostić D, Kočović D, **Belkić K**, Pavlović S, Jelić V. Comparative study of acute and chronic thresholds in four different endovenous pacing electrodes. Kardiologija 1991; 12: 176-180.

Uglješić M, Avramović D, Bošković S, Soldo S, **Belkić K**, Krstić C, Petrović Ž. The circadian blood pressure profile of journalists. Revija Rada 1991; 21: 41-47

Belkić K, Ercegovac D, Savić Č, Panić B, Djordjević M, Savić S. EEG arousal and cardiovascular reactivity in professional drivers: The glare pressor test. European Heart Journal 1992; 13 (3): 304-309. doi: 10.1093/oxfordjournals.eurheartj.a060167

Belkić K, Pavlović S, Djordjević M, Uglješić M, Micković Lj. Determinants of cardiac risk in professional drivers. Kardiologija 1992; 13: 145-149

Belkić K, Savić Č, Djordjević M, Uglješić M, Micković Lj. Event-related potentials in professional drivers: Heightened sensitivity to cognitively relevant visual signals. Physiology & Behavior 1992; 52 (3): 423-427. doi: 10.1016/0031-9384(92)90327-x.

Belkić K, Savić Č, Micković Lj, Uglješić M. Behavioral measures for prevention of cardiovascular disease in professional drivers. Revija Rada 1992; 22: 22-27

Jelić V, **Belkić K**, Djordjević M, Kočović D. Survival in 1431 pacemaker patients: Prognostic factors and comparison with the general population. Pacing and Clinical Electrophysiology (PACE) 1992; 15 (2): 141-147. doi: 10.1111/j.1540-8159.1992.tb03057.x

Stojanov P, Djordjević M, Velimirović D, **Belkić K**. Assessment of long-term stability of chronic ventricular pacing thresholds in steroid-eluting electrodes. Pacing and Clinical Electrophysiology (PACE) 1992; 15 (10): 1417-1420. doi: 10.1111/j.1540-8159.1992.tb02912.x

Uglješić M, **Belkić K**, Bošković S, Avramović D, Micković Lj. Rise in arterial blood pressure during work and risk factor profile of workers in stressful occupations. Kardiologija 1992; 13: 150-154

Uglješić M, **Belkić K**, Simeunovic-Micković Lj, Vukajlović M. Implementation of a plan for cardiac prevention among professional drivers as a high-risk group. Srpski Arhiv za Celokupno Lekarstvo 1992; 120 (Suppl. 1): 49-51

Belkić K, Savić Č, Theorell T, Rakić Lj, Ercegovac D, Djordjević M. Mechanisms of cardiac risk in professional drivers. Scandinavian Journal of Work Environment & Health 1994; 20 (2): 73-86. [Open access](#) doi:10.5271/sjweh.1417

Uglješić M, **Belkić K**, Bošković D, Bošković S. Exercise testing of apparently healthy professional drivers: A high-risk group for ischemic heart disease. Acta Cardiologica 1994; 49: 359-361

The World Health Organization Collaborative Study of Cardiovascular Disease and Steroid Hormone Contraception (**K. Belkić** among other co-authors listed, as site co-principal investigators and scientific contributors). A multi-national study of cardiovascular disease and steroid hormone contraceptives: Description and validation of methods. Journal of Clinical Epidemiology 1995; 48 (12): 1513-1547

The World Health Organization Collaborative Study of Cardiovascular Disease and Steroid Hormone Contraception (**K. Belkić** among other co-authors listed, as site co-principal investigators and scientific contributors). Venous thromboembolic diseases and combined oral contraceptives: Results of international multicentre case-control study. Lancet 1995; 346(8990): 1575-1582

Emdad R, **Belkić K**, Theorell T, Wennberg A, Hagman M, Johansson L, Savić Č, Cizinsky S. Electrocardiac responses to ecologically relevant visual stimuli among professional drivers with and without cardiovascular disease. Integrative Physiology & Behavior 1996; 31 (2): 96-111. doi: 10.1007/BF02699782

Uglješić M, **Belkić K**, Bošković D, Bošković S, Ilić M. Exercise testing of young, apparently healthy professional drivers. *Scandinavian Journal of Work Environment & Health* 1996; 22(3): 211-215 [Open Access](#) doi:10.5271/sjweh.133

The World Health Organization Collaborative Study of Cardiovascular Disease and Steroid Hormone Contraception (**K. Belkić** among other co-authors listed, as site co-principal investigators and scientific contributors). Haemorrhagic stroke, overall stroke risk and combined oral contraceptives: Results of an international multicentre case-control study. *Lancet* 1996; 348 (9026): 505-510. doi:10.1016/S0140-6736(95)12393-8

The World Health Organization Collaborative Study of Cardiovascular Disease and Steroid Hormone Contraception (**K. Belkić** among other co-authors listed, as site co-principal investigators and scientific contributors). Ischaemic stroke and combined oral contraceptives: Results of an international multicentre case-control study. *Lancet* 1996; 348 (9026):498-505. doi:10.1016/S0140-6736(95)12393-8

Bošković S, Uglješić M, **Belkić K**. Myocardial ischaemia and cardiac rhythm disturbances in patients with stable angina pectoris registered by Holter monitor. *Acta Cardiologica* 1997; 52: 137-139

Emdad R, **Belkić K**, Theorell T. Cardiovascular dysfunction related to threat, avoidance and vigilant work: Application of event-related potentials and critique. *Integrative Physiology & Behavior* 1997; 32 (3): 202-219. doi: 10.1007/BF02688619

Emdad R, **Belkić K**, Theorell T, Cizinsky S, Savić Č, Olsson K. Work environment, neurophysiologic and psychophysiological models among professional drivers with and without cardiovascular disease: Seeking an integrative neurocardiologic approach. *Stress Medicine* 1997; 13: 7-21

Orth-Gomér K, Mittleman MA, Schenck-Gustafsson K, Wamala S, Eriksson M, **Belkić K**, Kirkeeide R, Svane B, Rydén L. Lipoprotein(a) as a determinant of coronary heart disease in younger women. *Circulation* 1997; 95 (2): 329-334. [Open Access](#) doi.org/10.1161/01.CIR.95.2.329

The World Health Organization Collaborative Study of Cardiovascular Disease and Steroid Hormone Contraception (**K. Belkić** among other co-authors listed, as site co-principal investigators and scientific contributors). Acute myocardial infarction and combined oral contraceptives: Results of an international multicentre case-control study. *Lancet* 1997; 349 (9060):1202-1209. doi:10.1016/S0140-6736(97)02358-1

Belkić K, Emdad R, Theorell T. Occupational profile and cardiac risk: Possible mechanisms and implications for professional drivers. *International Journal of Occupational & Environmental Health* 1998; 11 (1): 37-57

Emdad R, **Belkić K**, Theorell T, Cizinsky S. What prevents professional drivers from following physicians' cardiologic advice? *Psychotherapy and Psychosomatics* 1998; 67 (4-5): 226-240. doi: 10.1159/000012285

Emdad R, **Belkić K**, Theorell T, Cizinsky S, Savić Č, Olsson K. Psychophysiological sensitization to headlight glare among professional drivers with and without cardiovascular disease. *Journal of Occupational Health Psychology* 1998; 3 (2): 147-160

The World Health Organization Collaborative Study of Cardiovascular Disease and Steroid Hormone Contraception (**K. Belkić** among other co-authors listed, as site co-principal investigators and scientific contributors). Cardiovascular disease and the use of oral and injectable progestogen-only injectable contraceptives. *Contraception* 1998; 57 (5): 315-324. doi.org/10.1016/S0010-7824(98)00041-9

1985-1990

Belkić K. Occupational stress and cardiovascular risk. *Revija Rada* 1985; 15: 13-34

Belkić K. Light stress and the cardiovascular system: The glare pressor test. *Ergonomics* 1986; 29 (4): 563-568. doi: 10.1080/00140138608968291

Belkić K. The stress of glare in relation to the cardiovascular system. *Revija Rada* 1987; 17: 43-48

Belkić K, Micković Lj, Milić, B. Savić S. Blood pressure and electrocardiographic changes elicited by the glare pressor test. *Archives of Environmental Health* 1987; 42 (1): 37-43. doi: 10.1080/00039896.1987.9935793

Belkić K. Overload of the visual system of professional drivers and neurovegetative consequences. *Acta Oftalmologica Jugoslavica* 1988; 27: 52-53

Belkić K, Gluhak M, Uglješić M, Micković Lj, Sladić R. Prevalence of high blood pressure and electrocardiographic abnormalities in Belgrade mass transit drivers. *Revija Rada* 1990; 20: 50-60

Monographs

Belkić K, Savić C, Theorell T, Cizinsky S. Work stressors and cardiovascular risk: Assessment for Clinical Practice. Stress Research Report Number 256, Institute for Psychosocial Factors in Medicine, Section for Stress Research Karolinska Institute and WHO Psychosocial Center, Stockholm, 1995

Ekblad S, **Belkić K**, Eriksson NG. Health and disease among refugees and immigrants: A quantitative review approaching meta-analysis. Part I: Mental health outcomes. Stress Research Report Number 267, Institute for Psychosocial Factors in Medicine, Section for Stress Research Karolinska Institute and WHO Psychosocial Center, Stockholm, 1996