

Curriculum vitae NATASA MILIC, MD, PhD



BUSINESS ADDRESS Institute for Medical Statistics and Informatics
Medical Faculty University of Belgrade
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SUMMARY

Design and analysis of clinical trials; Survival data analysis, Basic science research; Decision analysis; Design and implementation of simulation studies; Multivariate modeling; Integrative studies, systematic reviews and meta-analysis; Economic analysis; Health technology assessment; Disease registry development and registry data analysis; Health information systems; Electronic health records; e-learning

PROFFESIONAL DETAILS

Current position/Institution Associate Professor of Medical Statistics and Informatics/Institute for Medical Statistics and Informatics, Medical Faculty University of Belgrade

Chair, Department of Medical statistics and Informatics for postgraduate studies, Medical Faculty University of Belgrade

Chair, Department of Medical statistics and Informatics for English studies, Medical Faculty University of Belgrade

Research Collaborator/Mayo Clinic, Rochester, USA

EDUCATION

MD Medical Faculty University of Belgrade

Research Training Quantitative medical research, Erasmus University Rotterdam

Residency Internal medicine, Medical Faculty University of Belgrade

Medical statistics and informatics, Medical Faculty University of Belgrade

MSci Cardiology, Medical Faculty University of Belgrade

Fellowship Medical informatics, Medical Faculty University of Belgrade

PhD Medical Statistics and Informatics, Medical Faculty University of Belgrade

AWARDS

Medical Faculty University of Belgrade Annual Awards for Outstanding Achievement

Best Graduate of the Medical Faculty University of Belgrade

Serbian Medical Society Award for the Best Graduate

TEACHING ACTIVITIES

Core Curriculum, Medical Faculty University of Belgrade

Medical statistics and Informatics; Clinical informatics; Applications of information and communication technologies in medicine

MSci, PhD, Residency and Fellowship Curricula, Medical Faculty University of Belgrade

Medical statistics; Biostatistics for medical researchers; Informatics for medical researchers; Biostatistics; Advanced Biostatistics; Biostatistical modeling; Statistics in Biology; Methods of medical informatics; Informatics in primary health care; Health informatics; Methods of evaluation and information synthesis; Health technology assessment

School of Public Health, Medical Faculty University of Belgrade

Biostatistics in public health; Public health informatics; Introduction to health technology assessment; Methods of evaluation and information synthesis in public health research; Decision making methods in public health research; Statistics in health policy and management

Serbian Medical Society, Continuing medical education

Literature searching; How to write a scientific paper: from the idea until the paperwork is done; Publications in continuing medical education; Clinical decision making

ACADEMIC AND PHARMACEUTICAL ENVIRONMENT

Over 15 years of national and international experience as a biostatistician in academic and pharmaceutical environment

GRANTS

National Grants

Contemporary diagnostics of coronary artery disease; Ischemic Heart Disease: risks factors, modification options, diagnostic and therapeutic approaches; Coronary Atherosclerosis: early detection, evaluation of its hemodynamic importance and biological activity; Invasive and non-invasive diagnostic and therapeutic approach to coronary artery spasm; Ischemic heart disease: early diagnostics, evaluation of progression and choice of optimal therapy; Invasive and non-invasive diagnostics of primordial levels of atherosclerosis in patients with arterial vasospasm and endothelial dysfunction; Endocrine regulatory mechanisms in metabolic conditions; Acute coronary syndrome: research of vulnerability (plaque, blood, and infarction), the optimal treatment and prognostic factors; Non-invasive and invasive detection of endothelial dysfunction and coronary vasospasm in patients with chest pain

International Grants

Clinical Practice Guidelines and Patient Educations' programs; Establishment and development of School of Public Health; Capacity Building of the Ministry of Health & Implementation of EIB Emergency Assistance Loan; Serbia Health Project, subcomponents: Health Information Management/Health Technology Assessment; Postgraduate Studies in Public Health Sciences; Hereplus (Health Risk from Environmental Pollution Levels in Urban Systems; Establishment of the Public Agency for Accreditation and Continuous Quality Improvement of Health Care in Serbia; Implementation of the National Cancer Screening program for colorectal, cervical and breast cancer

MEMBERSHIP

Serbian Society for Medical Informatics (President), European Federation for Medical Informatics, Serbian Medical Society, Cardiology Society of Serbia, European Resuscitation Council, Serbian Resuscitation Council

AREAS OF RESEARCH

Cardiology (Hypertension; Ischemic heart disease; Heart transplantation), Gynecology and Obstetrics; Endocrinology (Metabolic and Endocrine Disorders), Hematology (Hematologic malignancies; Lymphoproliferative disorders), Oncology (Breast, cervical and colorectal cancer; Lung cancer; Melanoma), Nephrology, Surgery (Hepatobiliary Disorders; Upper Gastrointestinal and Pancreatic Diseases, Cardiosurgery), Ophthalmology, Neurology, Rheumatology; Ophthalmology; Public Health; Medical informatics; Education

SELECTED PUBLICATIONES

Mielke MM, Milic NM, Weissgerber TL, White WM, Kantarci K, Mosley TH, Windham BG, Simpson BN, Turner ST, Garovic VD. Impaired Cognition and Brain Atrophy Decades After Hypertensive Pregnancy Disorders. *Circ Cardiovasc Qual Outcomes*. 2016 Jan;9(1):S70-6.

Milic NM, Trajkovic GZ, Bukumiric ZM, Cirkovic A, Nikolic IM, Milin JS, Milic NV, Savic MD, Corac AM, Marinkovic JM, Stanisavljevic DM. Improving Education in Medical Statistics: Implementing a Blended Learning Model in the Existing Curriculum. *PLoS One*. 2016 Feb 9;11(2):e0148882.

Weissgerber TL, Milic NM, Milin-Lazovic JS, Garovic VD. Impaired Flow-Mediated Dilation Before, During, and After Preeclampsia: A Systematic Review and Meta-Analysis. *Hypertension*. 2016 Feb;67(2):415-23.

Bukumiric Z, Starcevic V, Stanisavljevic D, Marinkovic J, Milic N, Djukic-Dejanovic S, Janjic V, Corac A, Ilic A, Kostic M, Nikolic I, Trajkovic G. Meta-analysis of the changes in correlations between depression instruments used in longitudinal studies. *J Affect Disord*. 2016 Jan 15;190:733-43.

Weissgerber TL, Turner ST, Mosley TH Jr, Kardia SL, Hanis CL, Milic NM, Garovic VD. Hypertension in Pregnancy and Future Cardiovascular Event Risk in Siblings. *J Am Soc Nephrol*. 2015 Aug 27. pii: ASN.2015010086. [Epub ahead of print] PubMed PMID: 26315531.

Weissgerber TL, Milic NM, Turner ST, Asad RA, Mosley TH Jr, Kardia SL, Hanis CL, Garovic VD. Uric Acid: A Missing Link Between Hypertensive Pregnancy Disorders and Future Cardiovascular Disease? *Mayo Clin Proc.* 2015 Sep;90(9):1207-16.

Doklestić K, Stefanović B, Gregorić P, Ivančević N, Lončar Z, Jovanović B, Bumbaširević V, Jeremić V, Vujadinović ST, Stefanović B, Milić N, Karamarković A. Surgical management of AAST grades III-V hepatic trauma by Damage control surgery with perihepatic packing and Definitive hepatic repair-single centre experience. *World J Emerg Surg.* 2015 Aug 1;10:34.

Macut D, Božić Antić I, Bjekić-Macut J, Panidis D, Tziomalos K, Vojnović Milutinović D, Stanojlović O, Kastratović-Kotlica B, Petakov M, Milić N. Lipid accumulation product is associated with metabolic syndrome in women with polycystic ovary syndrome. *Hormones (Athens).* 2015 Jul 15. doi: 10.14310/horm.2002.1592. [Epub ahead of print] PubMed PMID: 26188230.

Cvijovic G, Micic D, Kendereski A, Milic N, Zoric S, Sumarac-Dumanovic M, Stamenkovic-Pejkovic D, Polovina S, Jeremic D, Gligic A. The effect of parathyroidectomy on insulin sensitivity in patients with primary hyperparathyroidism - an never ending story? *Exp Clin Endocrinol Diabetes.* 2015 Jun;123(6):336-41.

Le Jemtel TH, Rajapreyar I, Selby MG, Payne B, Barnidge DR, Milic N, Garovic VD. Direct evidence of podocyte damage in cardiorenal syndrome type 2: preliminary evidence. *Cardiorenal Med.* 2015 Apr;5(2):125-34.

Weissgerber TL, Milic NM, Winham SJ, Garovic VD. Beyond bar and line graphs: time for a new data presentation paradigm. *PLoS Biol.* 2015 Apr 22;13(4):e1002128.

Lekovic D, Gotic M, Sefer D, Mitrovic-Ajtic O, Cokic V, Milic N. Predictors of Survival and Cause of Death in patients with Essential Thrombocythemia. *Eur J Haematol.* 2015 Nov;95(5):461-6.

Stanisavljevic D, Trajkovic G, Marinkovic J, Bukumiric Z, Cirkovic A, Milic N. Assessing attitudes towards statistics among medical students: psychometric properties of the Serbian version of the Survey of Attitudes Towards Statistics (SATS). *PLoS One.* 2014;9(11):e112567.

Lekovic D, Gotic M, Milic N, Miljic P, Mitrovic M, Cokic V, Elezovic I. The importance of cardiovascular risk factors for thrombosis prediction in patients with essential thrombocythemia. *Med Oncol.* 2014;31(10):231.

Djunic I, Dopsaj V, Miljic P, Savic N, Milic N, Mitrovic M, Suvajdzic-Vukovic N, Tomin D, Elezovic I. Comparison of two laboratory assays in monitoring the efficacy of different prophylaxis regimens for severe haemophilia. *Clin Lab.* 2014;60(8):1325-31.

Mihaljevic B, Vukovic V, Smiljanic M, Milic N, Todorovic M, Bila J, Andjelic B, Djurasinovic V, Jelacic J, Antic D. Single-center experience in the treatment of primary testicular lymphoma. *Oncol Res Treat.* 2014;37(5):239-42.

Salević P, Radović P, Milić N, Bogdanović R, Paripović D, Paripović A, Golubović E, Milosević B, Mulić B, Peco-Antić A. Growth in children with chronic kidney disease: 13 years follow up study. *J Nephrol.* 2014;27(5):537-44.

Parapid B, Ostojic MC, Lalic NM, Micic D, Damjanovic S, Bubanja D, Simic D, Lalic K, Polovina S, Marinkovic J, Milic NM. Risk factors clustering within the metabolic syndrome: a pattern or by chance? *Hellenic J Cardiol.* 2014;55(2):92-100.

Weissgerber TL, McConico A, Knudsen BE, Butters KA, Hayman SR, White WM, Milic N, Miller VM, Garovic VD. Methodological differences account for inconsistencies in reported free VEGF concentrations in pregnant rats. *Am J Physiol Regul Integr Comp Physiol.* 2014;306(11):R796-803.

Lekovic D, Gotic M, Perunicic-Jovanovic M, Vidovic A, Bogdanovic A, Jankovic G, Cokic V, Milic N. Contribution of comorbidities and grade of bone marrow fibrosis to the prognosis of survival in patients with primary myelofibrosis. *Med Oncol.* 2014;31(3):869.

Global Burden of Metabolic Risk Factors for Chronic Diseases Collaboration (BMI Mediated Effects), Lu Y, Hajifathalian K, Ezzati M, Woodward M, Rimm EB, Danaei G. Metabolic mediators of the effects of body-mass index, overweight, and obesity on coronary heart disease and stroke: a pooled analysis of 97 prospective cohorts with 1-8 million participants. *Lancet.* 2014;383(9921):970-83.

Karamarković A, Doklešić K, Popović N, Gregorić P, Vujadinović ST, Milić N. Suprahilar vascular control and stapling device transection of Glissonian pedicle in major and minor hepatectomies. *Hepatogastroenterology.* 2013;60(128):2060-8.

Lazarevic I, Djordjevic J, Cupic M, Karalic D, Delic D, Svirtlih N, Simonovic J, Svorcan P, Milic N, Jovanovic T. The influence of single and combined IL28B polymorphisms on response to treatment of chronic hepatitis C. *J Clin Virol.* 2013;58(1):254-7.

Djunic I, Elezovic I, Vucic M, Srdic-Rajic T, Konic-Ristic A, Ilic V, Milic N, Bila J, Suvajdzic-Vukovic N, Virijevec M, Antic D, Vidovic A, Tomin D. Specific Binding of Paraprotein to Platelet Receptors as a Cause of Platelet Dysfunction in Monoclonal Gammopathies. *Acta Haematol.* 2013;130(2):101-107.

Antic D, Elezovic I, Milic N, Suvajdzic N, Vidovic A, Perunicic M, Djunic I, Mitrovic M, Tomin D. Is there a "gold" standard treatment for patients with isolated myeloid sarcoma? *Biomed Pharmacother.* 2013;67(1):72-7.

Karamarković A, Doklešić K, Milić N, Djukić V, Bumbasirević V, Sijački A, Gregorić P, Bajec D. Glissonean pedicle approach in major liver resections. *Hepatogastroenterology.* 2012;59(118):1896-901.

Seferović Mitrović JP, Seferović PM, Vujisić Tešić B, Petrović M, Ristić AD, Lalić K, Jotić A, Tešić M, Giga V, Milić N, Singh S, Lalić NM. Predictors of diabetic cardiomyopathy in asymptomatic patients with type 2 diabetes. *Int J Cardiol.* 2012;156(2):219-21.

Obrenović-Kirčanski B, Mikić A, Parapid B, Djukić P, Kanjuh V, Milić N, Kovačević-Kostić N, Velinović M, Seferović P, Vraneš M. A 30-Year-Single-Center Experience in Atrial Myxomas: From Presentation to Treatment and Prognosis. *Thorac Cardiovasc Surg.* 2012. [Epub ahead of print]

Dokleštic K, Karamarkovic A, Stefanovic B, Stefanovic B, Milic N, Gregoric P, Djukic V, Bajec D. The efficacy of three transection techniques of the liver resection: a randomized clinical trial. *Hepatogastroenterology.* 2012;59(117):1501-6.

Marjanovic I, Milic N, Martinez A, Benitez-del-Castillo J. Retrobulbar hemodynamic parameters in open-angle and angle-closure glaucoma patients. *Eye (Lond)*. 2012;26(4):523-8.

Marjanovic I, Milic N, Martinez A. The impact of intraocular pressure reduction on retrobulbar hemodynamic parameters in patients with open-angle glaucoma. *Eur J Ophthalmol*. 2012;22(1):77-82.

Zivkovic TB, Vuksanovic M, Jelic MA, Stojanovic J, Buric B, Jojic B, Milic N, Vujovic S. Obesity and metabolic syndrome during the menopause transition in Serbian women. *Climacteric*. 2011;14(6):643-8.

Antic D, Mihaljevic B, Cokic V, Fekete MD, Djurasevic TK, Pavlovic S, Milic N, Elezovic I. Patients with early stage chronic lymphocytic leukemia: new risk stratification based on molecular profiling. *Leuk Lymphoma*. 2011;52(7):1394-7.

Milić NM, Parapid BJ, Ostojić MC, Nedeljković MA, Marinković JM. Meta-analysis of stent thrombosis after drug-eluting stent implantation: 4-year follow-up. *Chin Med J (Engl)*. 2010;123(24):3689-96.

Radenkovic D, Bajec D, Ivancevic N, Milic N, Bumbasirevic V, Jeremic V, Djukic V, Stefanovic B, Stefanovic B, Milosevic-Zbutega G, Gregoric P. D-dimer in acute pancreatitis: a new approach for an early assessment of organ failure. *Pancreas*. 2009;38(6):655-60.

Bumbasirevic V, Radenkovic D, Jankovic Z, Karamarkovic A, Jovanovic B, Milic N, Palibrk I, Ivancevic N. Severe acute pancreatitis: overall and early versus late mortality in intensive care units. *Pancreas*. 2009;38(2):122-5.

Beleslin B, Ostojic M, Djordjevic-Dikic A, Vukcevic V, Stojkovic S, Nedeljkovic M, Stankovic G, Orlic D, Milic N, Stepanovic J, Giga V, Saponjski J. The value of fractional and coronary flow reserve in predicting myocardial recovery in patients with previous myocardial infarction. *Eur Heart J*. 2008;29(21):2617-24.

Ivancević N, Radenković D, Bumbasirević V, Karamarković A, Jeremić V, Kalezić N, Vodnik T, Beleslin B, Milić N, Gregorić P, Zarković M. Procalcitonin in preoperative diagnosis of abdominal sepsis. *Langenbecks Arch Surg*. 2008;393(3):397-403.

Micic D, Sumarac-Dumanovic M, Kendereski A, Cvijovic G, Zoric S, Pejkoic D, Micic J, Milic N, Dieguez C, Casanueva FF. Total ghrelin levels during acute insulin infusion in patients with polycystic ovary syndrome. *J Endocrinol Invest*. 2007;30(10):820-7.

Colovic N, Tosic N, Aveic S, Djuric M, Milic N, Bumbasirevic V, Colovic M, Pavlovic S. Importance of early detection and follow-up of FLT3 mutations in patients with acute myeloid leukemia. *Ann Hematol*. 2007;86(10):741-7.

Miljic D, Djurovic M, Pekic S, Doknic M, Stojanovic M, Milic N, Casanueva FF, Ghatei M, Popovic V. Glucose metabolism during ghrelin infusion in patients with anorexia nervosa. *J Endocrinol Invest*.

2007;30(9):771-5.

Nedeljkovic MA, Ostojic MC, Beleslin BD, Nedeljkovic I, Milic N, Vukcevic V, Stojkovic S, Saponjski J, Orlic D, Djordjevic-Dikic A, Stepanovic J, Giga V, Petrasinovic Z, Arandjelovic A, Beleslin B, Kanjuh V. Ergonovine-induced changes of coronary artery diameter in patients with nonsignificant coronary artery stenosis: relation with lipid profile. *Herz*. 2007;32(4):329-35.

Popovic V, Doknic M, Maric N, Pekic S, Damjanovic A, Miljic D, Miljic N, Djurovic M, Jasovic-Gasic M, Diugez C, Casanueva FF. Changes in neuroendocrine and metabolic hormones induced by atypical antipsychotics in normal-weight patients with schizophrenia. *Neuroendocrinology*. 2007;85(4):249-56.

Macut D, Damjanovic S, Panidis D, Spanos N, Glisic B, Petakov M, Rousso D, Kourtis A, Bjekic J, Milic N. Oxidised low-density lipoprotein concentration - early marker of an altered lipid metabolism in young women with PCOS. *Eur J Endocrinol*. 2006;155(1):131-6.

Lasica RM, Perunicic J, Mrdovic I, Tesic BV, Stojanovic R, Milic N, Simic D, Vasiljevic Z. Temporal variations at the onset of spontaneous acute aortic dissection. *Int Heart J*. 2006;47(4):585-95.

Radojicic ZI, Perovic SV, Milic NM. Is it reasonable to treat refractory voiding dysfunction in children with botulinum-A toxin? *J Urol*. 2006;176(1):332-6; discussion 336.

Krljanac G, Vasiljević Z, Radovanović M, Stanković G, Milić N, Stefanović B, Kostić J, Mitrović P, Radovanović N, Dragović M, Marinković J, Karadžić A. Effects of glucose-insulin-potassium infusion on ST-elevation myocardial infarction in patients treated with thrombolytic therapy. *Am J Cardiol*. 2005;96(8):1053-8.

Giga V, Ostojic M, Vujisic-Tesic B, Djordjevic-Dikic A, Stepanovic J, Beleslin B, Petrovic M, Nedeljkovic M, Nedeljkovic I, Milic N. Exercise-induced changes in mitral regurgitation in patients with prior myocardial infarction and left ventricular dysfunction: relation to mitral deformation and left ventricular function and shape. *Eur Heart J*. 2005;26(18):1860-5.

Dragovic G, Milic N, Jevtovic DJ. Incidence of acute pancreatitis and nucleoside reverse transcriptase inhibitors usage. *Int J STD AIDS*. 2005;16(6):427-9.

Karamarkovic A, Radenkovic D, Milic N, Bumbasirevic V, Stefanovic B. Protein C as an early marker of severe septic complications in diffuse secondary peritonitis. *World J Surg*. 2005;29(6):759-65.

Rajic ZA, Jankovic GM, Vidovic A, Milic NM, Skoric D, Pavlovic M, Lazarevic V. Size of the protein-coding genome and rate of molecular evolution. *J Hum Genet*. 2005;50(5):217-29.

Radenkovic DV, Bajec DD, Tsiotos GG, Karamarkovic AR, Milic NM, Stefanovic BD, Bumbasirevic V, Gregoric PM, Masulovic D, Milicevic MM. Planned staged reoperative necrosectomy using an abdominal zipper in the treatment of necrotizing pancreatitis. *Surg Today*. 2005;35(10):833-40.

Popovic V, Pekic S, Pavlovic D, Maric N, Jasovic-Gasic M, Djurovic B, Medic Stojanoska M, Zivkovic V, Stojanovic M, Doknic M, Milic N, Djurovic M, Dieguez C, Casanueva FF. Hypopituitarism as a consequence of traumatic brain injury (TBI) and its possible relation with cognitive disabilities and mental distress. *J Endocrinol Invest.* 2004;27(11):1048-54.

Popovic V, Svetel M, Djurovic M, Petrovic S, Doknic M, Pekic S, Miljic D, Milic N, Glodic J, Dieguez C, Casanueva FF, Kostic V. Circulating and cerebrospinal fluid ghrelin and leptin: potential role in altered body weight in Huntington's disease. *Eur J Endocrinol.* 2004;151(4):451-5.

Radenković D, Bajec D, Karamarkovic A, Stefanovic B, Milic N, Ignjatović S, Gregoric P, Milicevic M. Disorders of hemostasis during the surgical management of severe necrotizing pancreatitis. *Pancreas.* 2004 Aug;29(2):152-6.

Popovic V, Djurovic M, Cetkovic A, Vojvodic D, Pekic S, Spremovic S, Petakov M, Damjanovic S, Milic N, Dieguez C, Casanueva FF. Inhibin B: a potential marker of gonadal activity in patients with anorexia nervosa during weight recovery. *J Clin Endocrinol Metab.* 2004;89(4):1838-43.

Markovic O, Marisavljevic D, Cemerikic V, Suvajdzic N, Milic N, Colovic M. Immunohistochemical analysis of cyclin D1 and p53 in multiple myeloma: relationship to proliferative activity and prognostic significance. *Med Oncol.* 2004;21(1):73-80.

Selected Book chapters

Milic N. Sample Size Determination. In: Wilhelm Kirch, editor. *Encyclopedia of Public Health.* Dresden, New York: Springer; 2008. p. 1275-8.

Milic N. Standardization. In: Wilhelm Kirch, editor. *Encyclopedia of Public Health.* Dresden, New York: Springer; 2008. p. 1335-8.

Milic N. Statistical vs. Clinical Significance. In: Wilhelm Kirch, editor. *Encyclopedia of Public Health.* Dresden, New York: Springer; 2008. p. 1344-7.

Ille T, Milic N. Confidence Interval. In: Wilhelm Kirch, editor. *Encyclopedia of Public Health.* Dresden, New York: Springer; 2008. p. 150-152

Ille T, Milic N. Statistical tests. In: Wilhelm Kirch, editor. *Encyclopedia of Public Health.* Dresden, New York: Springer; 2008. p. 1341-1344.