

Markéta Pavlíková

Curriculum Vitae

living in Prague
Czech Republic

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I am proud of being at the point where theory and life meet.

Info

Citizenship Czech Republic

Web www.biostatisticka.cz

Current Skills

Design, analysis and publishing of various types of studies, mainly association studies in genetics, epidemiology and obstetrics&gynecology. Medical publication database search, analysis and information synthesis from different sources. Writing of popular science articles for general audience. Compiling analyses for health policy makers.

Education

1999–2000 **Master of Science in Biostatistics**, HASSELT UNIVERSITY (former Limburgs Universitair Centrum), Diepenbeek, Belgium.

Thesis “The multiple testing problem in marker assisted plant breeding” under the leadership of prof. Els Goetghebeur

1994–1999 **Mgr. (Master of Science) in Mathematical Statistics**, CHARLES UNIVERSITY, FACULTY OF MATHEMATICS AND PHYSICS, Prague, Czech Republic.

Thesis on “Permutation tests” under the leadership of prof. Jana Jurečková. Graduated with notion “Excellent”.

Work experience

2011–present **Freelance biostatistician**, mainly cooperating with the INSTITUTE OF INHERITED METABOLIC DISORDERS of 1st Faculty of Medicine of Charles University and General University Hospital in Prague, Czech Republic.

Participation at grant proposals and study design. Proposing and performing data analyses, participation in writing the papers. Main projects:

Rare metabolic diseases. Proposal of the symptom measurement scale, data analysis. To be published.

Metabolic syndrome and genetic factors association with serum uric acid concentration. (2011-2014). Study design, matching data selection, model proposal, data analysis, writing the papers. (STIBŮRKOVÁ & AL and HURBA & AL, 2014)

2000–2011 **Research Assistant**, EUROMISE CENTRE, The European Centre for Medical Informatics, Statistics and Epidemiology at Institute of Computer Science, Academy of Sciences of the Czech Republic, Prague, Czech Republic.

Setting up databases with data quality control, proposing and performing analyses, participation in writing the papers, including graphic representation of the results. Main projects:

Genetic determinants of folate status in Central Bohemia. Association study of common allele variants (VESELÁ & AL, 2005) and rare allele variants (PAVLÍKOVÁ & AL, 2012). Model proposal, rare allele techniques proposal, data analysis, writing the paper.

Surgical treatment of stress incontinence (2001-2011). Long term cooperation with the Gynecology Department of General University Hospital in Prague resulting in many publications in Czech medical journals and several publications in international impacted journals. Database setup, data quality control, analysis proposal, data analysis, graphic representation of two-dimensional data from ultrasound images, writing papers.

Relationship between X-inactivation and clinical involvement in Fabry heterozygotes. (DOBROVOLNÝ & AL, 2005) Data analysis and graphic representation.

Genetic variants of homocysteine metabolizing enzymes and the risk of coronary artery disease. (JANOŠÍKOVÁ & AL, 2003) Model proposal and data analysis, writing the paper.

1998–1999 **Junior Analyst**, STEM/MARK (a market research company), Prague, Czech Republic Analysis of market survey data..

Voluntary work and causes

2008–present Since 2008 I actively promote women’s rights in reproductive medicine, in particular rights to informed choice and continuity of care. I publish information about current state of scientific evidence in care for pregnant and birthing women and their children both on internet and in paper media as well as in public discussions. In 2012 I’ve been a member of the Maternity Care Workgroup of the Ministry of Health of the Czech Republic. I have set up and maintain a web page biostatisticka.cz where I summarize, comment and publish the evidence related to reproductive care and make it understandable and available for all interested parties.

Languages

Czech Mother tongue
English Fluent written and spoken
French Fluent written and spoken
German Basics

Computer skills

Office (Microsoft Office, Open/Libre Office): experienced user
Statistical Skilled in using the R language and environment, being the preferred tool for my work. Past experience with SPSS, Statistica, SAS, S+.

Personal interests and skills

I am a successful manager of a big family. In a small team I organize large-scale overnight puzzle hunts in urban terrain for young adults. I enjoy reading and travelling.

Publications in impacted journals

- 2014 HURBA O, MANČÍKOVÁ A, KRYLOV V, PAVLÍKOVÁ M, PAVELKA K, STIBŮRKOVÁ B. Complex analysis of urate transporters SLC2A9, SLC22A12 and functional characterization of non-synonymous allelic variants of GLUT9 in the Czech population: No evidence of effect on hyperuricemia and gout. *PloS one* 9, 9 (2014), e0107902.
- 2014 STIBŮRKOVÁ B, PAVLÍKOVÁ M, SOKOLOVÁ J, KOŽICH V. Metabolic syndrome, alcohol consumption and genetic factors are associated with serum uric acid concentration. *PloS one* 9, 5 (2014), e97646.
- 2012 PAVLÍKOVÁ M, SOKOLOVÁ J, JANOŠÍKOVÁ B, MELENOVSKÁ P, KRUPKOVÁ L, ZVÁROVÁ J, KOŽICH V. Rare allelic variants determine folate status in an unsupplemented european population. *The Journal of nutrition* 142, 8 (2012), 1403–1409
- 2011 ŠVABÍK K, MARTAN A, MAŠATA J, EL-HADDAD R, HUBKA P, PAVLÍKOVÁ M. Ultrasound appearances after mesh implantation — evidence of mesh contraction or folding? *International urogynecology journal* 22, 5 (2011), 529–533.
- 2009 MARTAN A, ŠVABÍK K, MAŠATA J, KOLEŠKA T, EL-HADDAD R, PAVLÍKOVÁ M. Initial experience with a short, tension-free vaginal tape (the tension-free vaginal tape SECUR* system). *European Journal of Obstetrics & Gynecology and Reproductive Biology* 143, 2 (2009), 121–125.
- 2009 MARTAN A, ŠVABÍK K, MAŠATA J, KOLEŠKA T, EL-HADDAD R, PAVLÍKOVÁ M. Correlation between changes in ultrasound measurements and clinical curative effect of tension-free vaginal tape SECUR* procedure. *International Urogynecology Journal* 20, 5 (2009), 533–539.
- 2008 KRECHLER T, JÁCHYMOVÁ M, PAVLÍKOVÁ M, VECKA M, ZEMAN M, KRŠKA Z, ŠVESTKA T, ŽÁK A. Polymorphism -23HPhI in the promoter of insulin gene and pancreatic cancer: a pilot study. *Neoplasma* 56, 1 (2008), 26–32.
- 2007 MARTAN A, MAŠATA J, PETRI E, ŠVABÍK K, DRAHORÁDOVÁ P, VOIGT R, PAVLÍKOVÁ M, HLÁSENSKÁ J. Weak VLPP and MUCP correlation and their relationship with objective and subjective measures of severity of urinary incontinence. *International Urogynecology Journal* 18, 3 (2007), 267–271.
- 2006 MAŠATA J, MARTAN A, ŠVABÍK K, DRAHORÁDOVÁ P, PAVLÍKOVÁ M. Ultrasound imaging of the lower urinary tract after successful tension-free vaginal tape (TVT) procedure. *Ultrasound in obstetrics & gynecology* 28, 2 (2006), 221–228.
- 2005 DOBROVOLNÝ R, DVOŘÁKOVÁ L, LEDVINOVÁ J, MAGAGE S, BULTAS J, LUBANDA JC, ELLEDER M, KARETOVÁ D, PAVLÍKOVÁ M, HŘEBÍČEK M. Relationship between X-inactivation and clinical involvement in Fabry heterozygotes. Eleven novel mutations in the α -galactosidase A gene in the Czech and Slovak population. *Journal of molecular medicine* 83, 8 (2005), 647–654.
- 2005 VESELÁ K, PAVLÍKOVÁ M, JANOŠÍKOVÁ B, ANDĚL M, ZVÁROVÁ J, HYÁNEK J, KOŽICH V. Genetic determinants of folate status in Central Bohemia. *Physiol Res* 54, 3 (2005), 295–303.
- 2003 JANOŠÍKOVÁ B, PAVLÍKOVÁ M, KOCMANOVÁ D, VÍTOVÁ A, VESELÁ K, KRUPKOVÁ L, KAHLEOVÁ R, KRIJT J, KRAML P, HYÁNEK J, ZVÁROVÁ J, ANDĚL M, KOŽICH V. Genetic variants of homocysteine metabolizing enzymes and the risk of coronary artery disease. *Molecular genetics and metabolism* 79, 3 (2003), 167–175.

Publications in Czech medical journals

- 2010 ŠVABÍK K, MARTAN A, MAŠATA J, EL-HADDAD R, PAVLÍKOVÁ M. [Changes in the length of implanted mesh after reconstructive surgery of the anterior vaginal wall]. *Česká gynekologie* 75 2 (2010), 132–135.
- 2010 MARTAN A, ŠVABÍK K, MAŠATA J, EL-HADDAD R, PAVLÍKOVÁ M. [Correlation between stress urinary incontinence or urgency and anterior compartment defect before and after surgical treatment]. *Česká gynekologie* 75 2 (2010), 118–125.
- 2009 DRAHORÁDOVÁ P, MAŠATA J, MARTAN A, ŠVABÍK K, PAVLÍKOVÁ M. Can the preoperative value of VLPP and MUCP predict the postoperative quality of life? *Prague Med Rep* 110 (2009), 42–50.
- 2009 MAŠATA J, MARTAN A, ŠVABÍK K, PAVLÍKOVÁ M, DRAHORÁDOVÁ P. [Long-term efficacy of TVT procedure in the treatment of stress urinary incontinence]. *Česká gynekologie* 74 2 (2009), 118–123.
- 2009 MARTAN A, ŠVABÍK K, MAŠATA J, KOLEŠKA T, EL-HADDAD R, PAVLÍKOVÁ M. [The solution of persistent stress urinary incontinence in women when surgery with the TVT-SECUR* is unsuccessful]. *Česká gynekologie* 74 1 (2009), 3–7.
- 2008 MARTAN A, ŠVABÍK K, MAŠATA J, KOLEŠKA T, EL-HADDAD R, PAVLÍKOVÁ M. [The solution of stress urinary incontinence in women by the TVT-S surgical method—correlation between the curative effect of this method and changes in ultrasound findings]. *Česká gynekologie* 73 5 (2008), 271–277.
- 2006 HÁJEK Z, SRP B, PAVLÍKOVÁ M, ZVÁROVÁ J, LIŠKA K, EL-HADDAD R, PAŠKOVÁ A, PAŘÍZEK A. [Intrapartal fetal monitoring, sensitivity and specificity of methods]. *Česká gynekologie* 71 4 (2006), 263–267
- 2005 MARTAN A, MAŠATA J, ŠVABÍK K, DRAHORÁDOVÁ P, PAVLÍKOVÁ M. [Changes in values of urethral closure pressure and its position after Burch colposuspension - predictive value of MUCP and VLPP for successful rate of this operation]. *Čes. gyn.* 71 3 (2006), 209–219
- 2005 MARTAN A, MAŠATA J, ŠVABÍK K, DRAHORÁDOVÁ P, PAVLÍKOVÁ M, HLÁSENSKÁ J. [Changes in values of urethral closure pressure and its position after TVT operation - predictive value of MUCP and VLPP for successful rate of the operation]. *Čes. gyn.* 70 5 (2006), 370–376
- 2005 MAŠATA J, ŠVABÍK K, MARTAN A, DRAHORÁDOVÁ P, PAVLÍKOVÁ M. [What ultrasound parameter is optimal in the examination of position and mobility of urethrovesical junction?]. *Česká gynekologie* 70 4 (2005), 280–284
- 2005 MAŠATA J, ŠVABÍK K, MARTAN A, DRAHORÁDOVÁ P, PAVLÍKOVÁ M, HLÁSENSKÁ J. [Changes in vesicalization of urethra and bladder after TVT operation]. *Česká gynekologie* 70 4 (2005), 276–280
- 2005 MAŠATA J, ŠVABÍK K, MARTAN A, DRAHORÁDOVÁ P, PAVLÍKOVÁ M, HLÁSENSKÁ J. [Changes in urethra mobility after TVT operation]. *Česká gynekologie* 70 3 (2005), 220–225
- 2005 MARTAN A, MAŠATA J, ŠVABÍK K, DRAHORÁDOVÁ P, HLÁSENSKÁ J, PAVLÍKOVÁ M. [Correlation between urethral mobility and maximal urethral closure pressure and Valsalva leak-point pressure in women with urinary stress incontinence]. *Čes. gyn.* 70 2 (2005), 123–128
- 2004 MARTAN A, MAŠATA J, ŠVABÍK K, DRAHORÁDOVÁ P, HALAŠKA M, VOIGT R, PAVLÍKOVÁ M. [Correlation of maximum urethral closure pressure and Valsalva leak-point pressure in patients with genuine stress incontinence]. *Česká gynekologie* 69 4 (2004), 267–272
- 2003 LINDNER J, VONDRÁČEK V, STRÍTESKÝ M, GRUS T, VANĚK I, PAVLÍKOVÁ M. [Trends and results of mitral valve surgery]. *Časopis lékařů českých* 142, 6 (2003), 365–369.