Bertil Blok

WORK EXPERIENCE

1 NOV 2006 – CURRENT – Rotterdam, Netherlands

SPECIALISED DOCTOR – Erasmus Medical Center

Staff urologist at the department of Urology, associate professor, medical coordinator, director of the Erasmus Pelvic Care Center. Seeing yearly about 1000 new patients with functional bladder disorders and performing yearly >300 operations in patients with functional and reconstructive urological problems. Responsible for several bachelor and master courses for medical and technical university students. At present and in the past financially responsible for 9 PhD students. Published >100 peer reviewed papers.

Professional, scientific and technical activities

1 JUN 2006 – 1 NOV 2006 – Montreal, Canada

SPECIALISED DOCTOR – McGill University

Fellow Urology and CIHR Fellow Molecular Biology at the Jewish General Hospital, responsible for the outpatient clinic of functional and reconstructive urology and relevant surgical procedures.

1 APR 1991 – 31 DEC 1999 – Groningen, Netherlands

BIOMEDICAL SCIENTIST ADVANCED – University Medical Center Groningen

Staff member department of Anatomy, assistant professor, responsible for several courses for medical students, including neuroanatomy, thorax, abdomen and urogenital system.

1 APR 1990 – 1 APR 1991 – Rotterdam, Netherlands

PHYSICIAN – Sint Franciscus Gasthuis

Physician at the department of Neurology and Neurosurgery. Responsible for the daily care of clinical patients and part of the outpatient clinical care.

1 DEC 1987 – 1 NOV 1988 – Mountain View, United States

RESEARCH ASSOCIATE – NASA Ames Research Center

Responsible for experiments on motion sickness at the department of Life Science, which resulted in 2 scientific papers together with the department of Anatomy, UC San Francisco.

EDUCATION AND TRAINING

1 SEP 1981 – 1 DEC 1987 – Dr Molewaterplein 40, Rotterdam, Netherlands

MD – Erasmus Medical Center

www.erasmusmc.nl

1 MAY 1993 – 1 MAY 1998 – Hanzeplein 1, Groningen, Netherlands

PHD – University Medical Center Groningen

www.umcg.nl

1 JUN 2000 – 1 JUN 2006 – Meibergdreef 9, Amsterdam, Netherlands

UROLOGIST – University Medical Center Amsterdam

www.amc.nl

LANGUAGE SKILLS

Mother tongue(s): **DUTCH**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
FRENCH	A2	B1	A2	A2	A2
GERMAN	A2	B1	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Google Drive | Google Docs | Microsoft Office | Zoom | Skype | Social Media | Microsoft Teams

Communication and social skills

Good listener and communicator | Organizational and planning skills | Decision-making | Motivated | Reliability | Analytical skills | Strategic Planning | Written and Verbal skills

HONOURS AND AWARDS

1 OCT 2020

National Sustainable Health Care Professional 2020 – Ministry of Health, Welfare and Sport

The Ministry of Health, Welfare and Sport awards every year this prize to health care professional with the best idea or initiative to make the health care in the Netherlands more sustainable. Bertil Blok received the prize for his project on a reusable catheter for the urinary bladder.
https://amazingerasmusmc.nl/prijzenkast/uroloog-bertil-verkozen-tot-duurzame-zorgprofessional-2020/

1 JUN 2019

Best abstract prize (Vlietstra prijs) – Dutch Urological Society

For the presentation on Dutch Validation of the Questionnaire MSISQ-15 in multiple sclerosis patients

1 SEP 2018

Best clinical research prize Pediatric Urology – International Continence Society

For the presentation on Twenty-five years experience in bladder outlet procedures in children with neurogenic urinary incontinence

https://www.ics.org/2018/abstract/482

1 SEP 2017

Best clinical research prize Overactive Bladder – International Continence Society

For the presentation on One year clinical results with a rechargeable sacral neuromodulation system for the treatment of overactive bladder

1 MAY 2002

Best abstract on Incontinence Research – American Urological Association

Yamanouchi Award, AUA, Orlando for Best Abstract on Incontinence entitled 'Brain activation and urodynamics during sacral neuromodulation in urge incontinence: a PET study'

1 JUN 1999

Best PhD thesis 1997-1999 (Van Stockum prijs) – Dutch Urological Society

For the PhD thesis entitled 'The central control of micturition in humans and cats'.

1 JUN 1996

Best presentation on Anatomy (Van der Broek prijs) – Dutch Anatomical Society

For the presentation on Brain control of the bladder and pelvic floor

1 NOV 1995

Press book selection – Society for Neuroscience

For poster presentation on PET scanning during micturition in male volunteers

PUBLICATIONS

Transcutaneous Electrical Nerve Stimulation and Percutaneous Tibial Nerve Stimulation to Treat Idiopathic Nonobstructive Urinary Retention: A Systematic Review

Eur Urol Focus
https://pubmed.ncbi.nlm.nih.gov/33268327/ – 2020
Conclusions: The efficacy of TENS and PTNS in the treatment of idiopathic NOUR is limited and should be verified in larger randomized studies before application in clinical practice.

Acute effect of sacral neuromodulation for treatment of detrusor overactivity on urodynamic parameters

Neurourol Urodyn
https://pubmed.ncbi.nlm.nih.gov/31804759/ – 2020
Discussion: None of the aforementioned urodynamic parameters was influenced by acute SNM in patients who responded to SNM. To the best of our knowledge, this is the first study investigating the acute effects of SNM on bladder function.

One-year outcomes of the ARTISAN-SNM study with the Axonics System for the treatment of urinary urgency incontinence

Neurourol Urodyn
https://pubmed.ncbi.nlm.nih.gov/32339339/ – 2020
Conclusions: The Axonics System is safe and effective at 1 year, with 89% of participants experiencing clinically and statistically significant improvements in UUI symptoms.

Two-year safety and efficacy outcomes for the treatment of overactive bladder using a long-lived rechargeable sacral neuromodulation system

Neurourol Urodyn
https://pubmed.ncbi.nlm.nih.gov/32243625/ – 2020
Conclusions: The Axonics System® provides sustained clinically meaningful improvements in OAB subjects at 2 years. There were no serious device-related AEs. Subjects reported continued satisfaction with their therapy.

Single subject and group whole-brain fMRI mapping of male genital sensation at 7 Tesla

Sci Rep
https://pubmed.ncbi.nlm.nih.gov/32051426/ – 2020
Ultra-high field 7T fMRI and penile stimulation evoked significant activations in distinct areas of the primary and secondary somatosensory cortices (S1 & S2), premotor cortex, insula, midcingulate gyrus, prefrontal cortex, thalamus and cerebellum, both at single subject and group level. Passive tactile stimulation of the feet, studied for control, also evoked significant activation in S1, S2, insula, thalamus and cerebellum, but predominantly, yet not exclusively, in areas that could be segregated from those associated with penile stimulation. Evaluation of the whole-brain activation patterns and connectivity analyses indicate that genital sensations following passive stimulation are, unlike those following feet stimulation, processed in both sensorimotor and affective regions.

Outcome and complications of adjustable continence therapy (ProACT TM) in the treatment of urinary incontinence after transurethral resection of the prostate: A multicenter study

Neurourol Urodyn
https://pubmed.ncbi.nlm.nih.gov/30848845/ – 2019
Conclusions: This is hitherto, the first study reporting results of adjustable continence balloons in the treatment of post-TURP SUI. The therapy was found to be safe and efficient. The majority of our study population reported improvement on their condition and greater than or equal to 50% reduction in daily pad use.

A prospective, multicenter study of a novel, miniaturized rechargeable sacral neuromodulation system: 12-month results from the RELAX-OAB study

Neurourol Urodyn
https://pubmed.ncbi.nlm.nih.gov/30592526/ – 2019
Conclusions: The Axonics r-SNM System provides sustained clinically significant improvements in OAB subjects after 1-year. Subjects were satisfied with r-SNM therapy and reported an easy and acceptable recharging experience.

Programming settings and recharge interval in a prospective study of a rechargeable sacral neuromodulation system for the treatment of overactive bladder

Neurourol Urodyn
https://pubmed.ncbi.nlm.nih.gov/29336058/ – 2018
Conclusions: Study subjects were able to charge the Axonics r-SNM System and stimulation settings provided 2 weeks of therapy between recharging for most subjects. Subject satisfaction indicates that subjects are satisfied with rechargeable SNM therapy.

Sacral Neuromodulation as Treatment for Refractory Idiopathic Urge Urinary Incontinence: 5-Year Results of a Longitudinal Study in 60 Women

J Urol
https://pubmed.ncbi.nlm.nih.gov/21791355/ – 2011
Conclusions: Sacral neuromodulation appears to be a safe technique for refractory idiopathic urge urinary incontinence in women. The success rate gradually decreased to 62% after 5 years with 15% of patients completely continent.

Different brain effects during chronic and acute sacral neuromodulation in urge incontinent patients with implanted neurostimulators

BJU int
https://pubmed.ncbi.nlm.nih.gov/17034500/ – 2006
Conclusions: These findings suggests that chronic SN influences, presumably via the spinal cord, brain areas previously implicated in detrusor hyperactivity, awareness of bladder filling, the urge to void and the timing of micturition. Furthermore, SN affects areas involved in alertness and awareness. Acute SN modulates predominantly areas involved in sensorimotor learning, which might become less active during the course of chronic SN.

NETWORKS AND MEMBERSHIPS

1 JUN 2020
Member expert panel on Medical Devices European Commission

https://ec.europa.eu/health/md_expertpanels/overview_en

1 JAN 2011 – CURRENT
Chair European Association of Urology Guidelines Panel on Neuro-Urology

https://uroweb.org/guideline/neuro-urology/

1 JAN 2009 – CURRENT
Member European Association of Urology Guidelines Panel on Neuro-Urology

https://uroweb.org/guideline/neuro-urology/

1 JAN 2016 – CURRENT
Board member for Clinical Research International Neuro-Urology Society

https://www.neuro-uro.org/page.cfm?vpath=index

1 JAN 2011 – CURRENT
Chair Dutch Multidisciplinary Guidelines Committee on Neurogenic Bladder

https://dwarslaesie.nl/wp-content/uploads/2016/09/Richtlijnen-behandeling-NEUROGENE_BLAAS.pdf

1 JAN 2008 – 1 JAN 2016
Director Erasmus Pelvic Care Center

Erasmus MC, Rotterdam https://www.erasmusmc.nl/nl-nl/patientenzorg/centra/bekkenbodemcentrum