

## Prof. Ponco Birowo, MD, PhD



### Affiliation:

**Department of Urology, Faculty of Medicine,  
Universitas Indonesia, Dr. Cipto Mangunkusumo  
Hospital, Jakarta, Indonesia**

### Publication Metrics

**ORCID ID:** 0000-0003-2934-6753

**Total number of publications:** 90 Original  
articles: 74; Reviews: 10; Books: 7

H index: 11; No. of citations: 390 \*According to Scopus

### Employment:

Professor, Department of Urology, Faculty of  
Medicine Universitas Indonesia, Cipto  
Mangunkusumo Hospital, Indonesia

### Current Position:

- Director of Post Graduate Urology Training Faculty of  
Medicine Universitas Indonesia/ Dr. Cipto  
Mangunkusumo Hospital
- Local Chairman of Urological Association of Asia  
2024 Bali
- President Elect of Urological Association of Asia
- President Elect of Indonesia Urological Association

### Brief Introduction

Prof. Ponco Birowo is a Professor of Urology in Faculty of Medicine Universitas Indonesia Cipto Mangunkusumo Hospital, Indonesia, The top-ranking university, and largest teaching hospital in Indonesia. His special interests include Andrology, Endourology, and Transplantation Urology. He is currently the Vice President of the Indonesia Urology Association and the Director for Urology Training Program in Universitas Indonesia. He is also the former president of Indonesian Society of Endourology from 2019-2021. He is actively involved in several international organizations, namely European Society for Sexual Medicine (ESSM), and Société Internationale d'Urologie (SIU), and Global Andrology Forum (GAF).

### Education

Prof. Ponco Birowo obtained his medical degree (MD) at Faculty of Medicine, University of Indonesia in 1997. Thereafter, He worked as research assistant in Department of Urology, Faculty of Medicine, University of Indonesia before attended the Urology residency program at University of Indonesia from 2000 to 2005. He obtained his Ph.D Hannover Medical School, Germany from 2006 to 2009 and graduated Magna Cum Laude. After joining several microsurgery courses in 2008, Prof. Birowo attended his microsurgery training at Pan Clinic Koeln, Cologne, Germany, under supervision from Dr. Dr med Johan Denil. Through his consistent lectures, research, and community services, he was granted the title Professor in October 2021.

### Main Clinical/Research Interest

His main clinical and research interests include andrology, endourology, and transplantation urology. Among the most frequent surgical procedures performed in his daily practice are endourological procedures, microsurgical procedures (microsurgical subinguinal varicocelectomy, microsurgical testicular sperm extraction, and vascular anastomosis of renal transplantation), sperm retrieval procedures (percutaneous epididymal sperm aspiration, testicular sperm extraction, testicular mapping biopsy). He received the Grant for Medical Research European Society for Sexual Medicine for his research titled "Characterization of Smooth Muscle Tone Regulation in the Human Seminal Vesicle" in 2006. He has successfully translated Y-Chromosome Microdeletion examination from laboratory work to routine clinical practice since 2012. One of his publications entitled "Effect of varicocele repair on sperm retrieval rate and testicular histopathological patterns in men with nonobstructive azoospermia" was cited by EAU Working Group on Male Sexual and Reproductive Health in "European Association of Urology Guidelines on Male Sexual and Reproductive Health: 2021 Update on Male Infertility".

### Publications

1. Birowo P, Uckert S, Kedia GT, Sonnenberg JE, Sandner P, Thon WF, Scheller F, Rahardjo D, Kuczyk MA. Exposure of human seminal vesicle tissue to phosphodiesterase (PDE) inhibitors antagonizes the contraction induced by norepinephrine and increases production of cyclic nucleotides. *Urology*. 2010 Dec;76(6):1518.e1-6.
2. Birowo P, Putra DE, Dewi M, Rasyid N, Taher A. Y-Chromosomal Microdeletion in Idiopathic Azoospermic and Severe Oligozoospermic Indonesian Men. *Acta Med Indones*. 2017 Jan;49(1):17-23.
3. Birowo P, Rahendra Wijaya J, Atmoko W, Rasyid N. The effects of varicocelectomy on the DNA fragmentation index and other sperm parameters: a meta-analysis. *Basic Clin Androl*. 2020 Sep 10;30:15.
4. Birowo P, Tendi W, Widyahening IS, Atmoko W, Rasyid N. The benefits of varicocele repair for achieving pregnancy in male infertility: A systematic review and meta-analysis. *Heliyon*. 2020 Nov 5;6(11):e05439.
5. Birowo P, Prasetyo DT, Pujianto DA, Atmoko W, Rasyid N, Sini IR. Effect of varicocele repair on sperm retrieval rate and testicular histopathological patterns in men with nonobstructive azoospermia. *Asian J Androl*. 2022 Jan-Feb;24(1):85-89

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