

# Retrograde intrarenal surgery (RIRS), regular and small sized percutaneous nephrolithotomy (PCNL) in daily practice: European Association of Urology Section of Urolithiasis (EULIS) Survey

Stefano Paolo Zanetti<sup>1</sup>, Luca Boeri<sup>1</sup>, Michele Catellani<sup>1</sup>, Andrea Gallioli<sup>1\*</sup>, Alberto Trinchieri<sup>2</sup>, Kemal Sarica<sup>3</sup>, Emanuele Montanari<sup>4</sup>

<sup>1</sup> Ospedale San Paolo, Urological Department, Medical School University of Milan, Milan, Italy;

<sup>2</sup> Ospedale Alessandro Manzoni Lecco, Urological Department, Lecco, Italy;

<sup>3</sup> Dr. Lutfi Kirdar Training and Research Hospital, Urological Department, Semsî Denizer Cad. E-5 Karayolu Cevizli Mevkii, 34890, Kartal/Istanbul, Turkey;

<sup>4</sup> Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Urological Department, Medical School University of Milan, Milan, Italy.

## ACKNOWLEDGMENTS

The Authors wish to thank the following doctors and centers for participating the survey:

Peter Royce, Alfred Hospital, Melbourne, Australia; Christian Seitz, Medical University, AKH, Vienna, Austria; Kremena Petkova, Military Medical Academy, Sofia, Bulgaria; Iliya Saltirov, Military Medical Academy, Sofia, Bulgaria; Guohua Zeng, The First Affiliated Hospital of Guangzhou Medical University, Guangzhou, China; Lene Bigum, Herlev Hospital, Herlev, Denmark; Marianne Brehmer, Aarhus University Hospital, Aarhus, Denmark; Sarah Bube, Rigshospitalet, Copenhagen, Denmark; Jan Jepsen, Frederiksberg Hospital, Copenhagen, Denmark; Ulla Joensen, Roskilde Sygehus, Roskilde, Denmark; Palle Othser, Lillebaelt Hospital, University of Southern Denmark, Fredericia, Denmark; Susanne Othser, Hospital Littlebelt, Fredericia, Denmark; Mohammad Wael, Frederiksberg Hospital, Copenhagen, Denmark; Noor Buchholz, SVMC, Dubai; Andras Hoznek, CHU Henri Mondor, Créteil, France; Olivier Traxer, Hôpital Tenon, Paris, France; Thorsten Bach, Asklepios Hospital, Hamburg, Germany; Hans Martin Fritsche, University of Regensburg, Regensburg, Germany; Florian Kurtz, University Hospital Rechts der Isar, Munich, Germany; Sven Lahme, Siloah St.Trudpert Klinikum, Pforzheim, Germany; Jens Rassweiler, SLK Klinikum am Gesundbrunnen, Heilbronn, Germany; Michael Straub, University Hospital Rechts der Isar, Munich, Germany; Walter Ludwig Strohmaier, Klinikum Coburg, Coburg, Germany; Gunnar Wendt-Nordahl, Sindelfingen-Böblingen Medical Center, Sindelfingen, Germany; Asterios Fotas, Ippokratia Hospital, Thessaloniki, Greece; Stilianos Giannakopoulos, University Hospital, Democritus University of Thrace – Alexandroupolis, Greece; Nikos Mertziotis, IASO General Hospital, Athens, Greece; Athanasios Papatsois, Sismanoglio General Hospital, Athens, Greece; Janak Desai, Samved Hospital, Ahmedabad, India; Ashvin Gabani, Gabani Kidney Hospital, Surat, India; Ismael Aghaways, Sulaimani Surgical Teaching Hospital, Sulaimani, Iraq; Andrea Bosio, Città della

Salute e della Scienza, Torino, Italy; Elisa Cicerello, Ca' Foncello Hospital, Treviso, Italy; Massimiliano Di Marco, Guarnieri Hospital, Rome, Italy; Antonia Fabris, Azienda Ospedaliera Universitaria Integrata, Verona, Italy; Francesco Germinale, Ospedale Giovanni Borea, San Remo, Italy; Guido Giusti, Humanitas Hospital, Milano, Italy; Ioannis Kartalas Goumas, Ospedale Civile di Vimercate, Vimercate, Italy; Nicola Macchione, Milano, Italy; Daniele Maruzzi, Santa Maria degli Angeli Hospital, Pordenone, Italy; Emanuele Montanari, A.O. San Paolo Teaching Hospital, Milano, Italy; Alberto Saita, Vittorio Emanuele Hospital, Catania, Italy; Cesare Marco Scoffone, Cottolengo Hospital, Torino, Italy; Alberto Trinchieri, Alessandro Manzoni Hospital, Lecco, Italy; Gianpaolo Zanetti, Ospedale Civile di Vimercate, Vimercate, Italy; Noritaka Ishito, Kurashiki Medical Center, Kurashiki, Japan; Makoto Morozumi, Saitama Medical Center, Saitama Medical University, Kawagoe/Kamoda, Japan; Kazumi Taguchi, Nagoya City University Hospital, Nagoya, Japan; Andrius Gaizauskas, Republic Vilnius University Hospital, Vilnius, Lithuania; Mohamed Lezrek, Military Hospital Moulay Ismail Meknes/Voluntary Work, Meknes, Morocco; Jean de la Rosette, AMC University Hospital, Amsterdam, Netherlands; Ernst Arnfinn Rettedal, Stavanger University Hospital, Stavanger, Norway; Hammad Ather, Aga Khan University, Karachi, Pakistan; David Castelo, Centro Hospitalar e Universitario de Coimbra, Coimbra, Portugal; Vitor Cavadas, Santo Antonio General Hospital, Porto, Portugal; Ana Meirinha, Hospital de S. José, Lisbon, Portugal; Abdulqadir Alobaidy, Hamad General Hospital, Doha, Qatar; Predrag Nikic, Clinical Center of Serbia, Belgrade, Serbia; Roberto Ballester, Valdecilla Hospital, Santander, Spain; Gonzalo Bueno, Fundación Jimenez Diaz, Madrid, Spain; Juan Pablo Caballero, Hospital General Universitario de Alicante, Alicante, Spain; Marcos Cepeda, Hospital Universitario Rio Hortega, Valladolid, Spain; Juan Manuel Diaz Romero, Hospital Clinico Universitario de Valladolid, Valladolid Spain; Juan Antonio Galan, Hospital Universitario del Vinalopó, Elche, Spain; Gaspar Ibarluzea,

No conflict of interest declared.

Clinica IMQ Zorrotzaurre, Bilbao, Spain; Pilar Luque, Hospital Clínic, Barcelona, Spain; Juan Antonio Mainez, Rio Hortega University Hospital, Valladolid, Spain; Daniel Pérez-Fentes, C.H.U. Santiago de Compostela, Santiago de Compostela, Spain; Fernando Ramón de Fata, University Hospital Getafe, Madrid, Spain; José Amón Sesmero, Rio Hortega University Hospital, Valladolid, Spain; Thomas Hopfgarten, South Hospital, Stockholm, Sweden; Patrick Maurer, Kantonsspital Baselland, Liestal, Switzerland; Chanchai Boonla, Chulalongkorn University, Bangkok, Thailand; Kemal Sarica, Dr. Lutfi Kirdar Research and Training Hospital, Istanbul, Turkey; Abdulkadir Tepeler, Bezmialem Vakif University Hospital, Istanbul, Turkey; Omer Yilmaz, GATA Haydarpaşa Training Hospital, Istanbul, Turkey; Christopher Blake, Royal

Cornwall Hospital, Truro, UK; Andreas Bourdounis, Torbay Hospital, South Devon Healthcare NHS Trust, Torquay, UK; Sam Datta, Colchester Hospital University Foundation Trust, Colchester, UK; Simon Mackie, Eastbourne District General Hospital, Eastbourne, UK; Bhaskar Somani, Southampton General Hospital, Southampton, UK; Sara Ramsey, Raigmore Hospital, Inverness, UK; Hari Ratan, Nottingham University Hospital, Nottingham, UK; Ben Turney, Churchill Hospital, Oxford University Hospitals, Oxford, UK; Graham Watson, Eastbourne District General Hospital, Eastbourne, UK; Oliver Wiseman, Addenbrookes Hospital, Cambridge, UK; Saidakhror Kariev, Clinic of Institute of Postgraduate Medical Education, Tashkent, Uzbekistan; Isaac Braga, Urology Department, Centro Hospitalar do Porto, Portugal.