**Aims and objectives of this session**

PCNL seems to be on the rise again, after two decades of ESWL and URS. The evolution of techniques and instruments have optimized the outcome and minimalized the morbidity.

Poster viewing of 20 minutes. Presentations will take place on stage. Standard presentations are 2 minutes in length, followed by 2 minutes for discussion.

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**545**

Value of CROES, S.T.O.N.E nomograms and Guy’s stone score as preoperative predictive system for percutaneous nephrolithotomy (PCNL) outcomes

By: De Nunzio C.¹, Bellangino M.¹, Voglino O.A.¹, Baldassarri V.¹, Pignatelli M.², Berardi E.², Tema G.¹, Cremona A.², Tubaro A.¹

Institutes: Sant'Andrea Hospital - Sapienza University, Dept. of Urology, Rome, Italy, ²Sant'Andrea Hospital - Sapienza University, Dept. of Radiology, Rome, Italy

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**546**

External validation and comparison of the scoring systems (S.T.O.N.E, GUY, CROES, S-ReSC) for predicting percutaneous nephrolithotomy outcomes: A single center experience with 506 cases

By: Yarimoğlu S., Bozkurt I.H., Aydoğdu O., Yonguc T., Gunlusoy B., Eker A., Degirmenci T.

Institutes: Izmir Bozyaka Training and Research Hospital, Dept. of Urology, Izmir, Turkey

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**547**

Can Guy's and S.T.O.N.E. scores predict the outcome of percutaneous nephrolithotomy in children?


Institutes: Mansoura University, Dept. of Urology, Mansoura, Egypt

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**548**

Preoperative predictors of infection complications in PCNL surgery. A prospective study


Institutes: La Fe, University and Polytechnic Hospital, Dept. of Urology, Valencia, Spain

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**549**

Validation of automated kidney stone volumetry in low dose computed tomography

By: Wilhelm K.¹, Hein S.¹, Schlager D.¹, Adams F.¹, Miernik A.¹, Schoenthaler M.², Hesse A.², Neubauer J.³

Institutes: Faculty of Medicine and Medical Center - University of Freiburg, Center For Surgery Department of Urology, Freiburg, Germany, ²University of Bonn, Department of Urology, Division of Experimental Urology, Bonn, Germany, ³Faculty of Medicine and Medical Center - University of Freiburg, Department of Radiology, Freiburg, Germany

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**550**

Safety and efficacy of percutaneous nephrolithotripsy (PNL) in supine versus prone position: A randomized controlled trial

By: Abouelgreed A.¹, Elgendy M.², Abdelaal M.², Shebl S.², Sabry K.², Ibrahim S.²

Institutes: Gulf Medical University, Dept. of Urology, Ajman, United Arab Emirates, ²Alazhar University, Dept. of Urology, Cairo, Egypt

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**551**

Papillary versus non papillary puncture in percutaneous nephrolithotomy: A prospective
randomized trial
By: Kallidonis P., Kyriazis I., Kotsiris D., Ntasiotis P., Koutava A., Panagopoulos V., Kamal W., Liatsikos E.
Institutes: University of Patras University Hospital, Dept. of Urology, Patra, Greece

552
Supra-costal access for percutaneous nephrolithotomy in modified supine position: Feasibility, safety and efficacy
By: El Harrech Y., Zaini R., Ghoundal O., Touiti D.
Institutes: Military Hospital Avicenne, Dept. of Urology, Marrakech, Morocco, Military Hospital, Dept. of Urology, Guelmim, Morocco

553
Stereotactic two access micro percutaneous nephrolithotomy: In vivo pig model experience
By: Telli O., Hajiyev P., Bagci U., Soygur T., Burgu B.
Institutes: Ankara University School of Medicine, Dept. of Pediatric Urology, Ankara, Turkey, Ankara University School of Medicine, Dept. of Urology, Ankara, Turkey

554
In vitro assessment of the hydrodynamic clearance of stone fragments and dust in percutaneous nephrolithotomy instruments
By: Mager R., Balzereit C., Herrmann T., Nagele U., Haferkamp A., Schilling D.
Institutes: University Medical Center Mainz, Dept. of Urology, Mainz, Germany, ExperTeach GmbH, Dept. of Physics, Dietzenbach, Germany, Hanover Medical School, Dept. of Urology and Urologic Oncology, Hanover, Germany, General Hospital Hall, Dept. of Urology and Andrology, Hall in Tyrol, Austria, Isarkliniken Munich, Dept. of Urology, Munich, Germany

555
A comparison among PCNL, miniperc and ultraminiperc for lower calyceal stones between 1 and 2 cm: A multicenter experience
By: Maruccia S., Sanguedolce F., Casellato S., Dal Piaz O., Montanari E., Pummer K., Verze P., Mironov V., Taverna G., Romero Otero J., Bozzi G.
Institutes: Istituti Clinici Zucchi, Dept. of Urology, Monza, Italy, Northampton General Hospital, Dept. of Urology, London, United Kingdom, Graz General Hospital, Dept. of Urology, Graz, Austria, Ospedale Policlinico, Dept. of Urology, Milan, Italy, Università Federico II, Dept. of Urology, Naples, Italy, Humanitas Mater Domini, Dept. of Urology, Castellaneta, Italy, Hospital 12 De Octubre, Dept. of Urology, Madrid, Spain

556
Outcome of mini versus standard percutaneous nephrolithotomy for renal stones
By: Elmarakbi A., Ghoneima W., Elsheemy M., Ibrahim H., Habib E., Khadgi S., Shrestha S., Al-Kandari A.
Institutes: Cairo University, Dept. of Urology, Cairo, Egypt, Baní Swaif University, Dept. of Urology, Baní Swaif, Egypt, Fayoum University, Dept. of Urology, Fayoum, Egypt, Yayodah and Venus International Hospitals, Dept. of Urology, Kathmandu, Nepal, Kuwait University, Dept. of Surgery and Urology, Kuwait, Kuwait

557
A prospective, randomized trial evaluating the efficacy of two different hemostatic sealant in tubeless percutaneous nephrolithotomy
Institutes: The Catholic University of Korea, Seoul St. Mary’s Hospital, Dept. of Urology, Seoul, South Korea, The Catholic University of Korea, St. Paul’s Hospital, Dept. of Urology, Seoul, South Korea, Catholic Kwandong University, International St. Mary’s Hospital, Dept. of Urology, Incheon, South Korea

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A prospective randomized controlled study of instantly phase-II tubeless percutaneous nephrolithotomy
By: Folin L., Xiaofeng Z., Rihai X., Yuanhu Y., Gengqing W., Xiaoning W., Guoxi Z., Dazhi L.
Institutes: First Affiliated Hospital of Gannan Medical University, Dept. of Urology, Ganzhou, China

559
CT-controlled stone-free-rate after minimal-invasive percutaneous nephrolitholapaxy (MIP) in correlation with instrument-size
By: Schachtner J.R.¹, Tokas T.¹, Kitzbichler G.¹, Habicher M.¹, Herrmann T.², Nagele U.¹
Institutes: Landeskrankenhaus Hall, Dept. of Urology and Andrology, Hall in Tirol, Austria, ²
Hanover Medical School (MHH), Dept. of Urology and Urooncology, Hanover, Germany

Percutaneous nephrolithotomy in patients with spina bifida and spinal injury: A comparative analysis of over 4000 patients, from a national registry
By: Withington J.¹, Fowler S.², Armitage J.N.³, Finch W.J.G.⁴, Irving S.O.⁴, Burgess N.A.⁵, Glass J.M.⁵, Wiseman O.J.³
Institutes: Royal Free Hospital, Dept. of Urology, London, United Kingdom, ²British Association of Urological Surgeons, Dept. of Audit and Data, London, United Kingdom, ³Addenbrooke's Hospital, Dept. of Urology, Cambridge, United Kingdom, ⁴Norfolk and Norwich University Hospital, Dept. of Urology, Norwich, United Kingdom, ⁵Guy's and St Thomas' NHS Foundation Trust, Dept. of Urology, Norwich, United Kingdom