

Extracorporeal shock wave lithotripsy

Poster Session 03

Friday, 24 March
10:45 - 12:15

Location: Room Milan, North Hall (Level 1)

Chairs: K.H. Andreassen, Frederiksberg (DK)
R. Cleveland, Boston (US)

Aims and objectives of this session

ESWL was been the method of first choice in stone treatment for two decades. Endourology has now taken this role of many indications. However, the idea of (almost) no-touch stone disintegration is convincing and new technological developments may turn back the clock.

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

- 32 **CT texture analysis of ex vivo renal stones predicts ease of fragmentation with shock wave lithotripsy**
By: Devlies W.², Cui H.¹, Ravenscroft S.³, Heers H.⁴, Freidin A.⁵, Cleveland R.⁵, Turney B.¹
Institutes:¹University of Oxford, Oxford Stone Group, Oxford, United Kingdom, ²KU Leuven, Faculty of Medicine, Leuven, Belgium, ³University of Oxford, Medical Sciences Division, Oxford, United Kingdom, ⁴Philipps-Universität Marburg, Dept. of Urology and Paediatric Urology, Marburg, Germany, ⁵University of Oxford, Kennedy Institute of Rheumatology, Oxford, United Kingdom
- 33 **Predictive factors of the outcome of extracorporeal shockwave lithotripsy in the treatment of upper urinary tract stones: Evidence from a prospective study**
By: Quaresima L., Pretore E., Moroni L., Galosi A.B.
Institutes:Polytechnic University of The Marche Region, Dept. of Urology, Ancona, Italy
- 34 **Prediction for success rate of shock wave lithotripsy using mean stone density-stone heterogeneity index ratio calculating Hounsfield unit on non-contrast computed tomography**
By: Jeong W.S., Kang D.H., Cho K.S., Ham W.S., Choi Y.D., Lee J.Y.
Institutes:Severance Hospital, Urological Science Institute, Yonsei University College of Medicine, Dept. of Urology, Seoul, South Korea
- 35 **Ultrasonography is not inferior to fluoroscopy to guide extracorporeal shock waves during treatment of renal and upper ureteric calculi: A randomized prospective cohort study**
By: Van Besien J., Uvin P., Merckx L.
Institutes:AZ Sint Lucas Ghent, Dept. of Urology, Ghent, Belgium
- 36 **Pretreatment with low energy shockwaves and a 3-minute pause reduces markers of renal injury in patients undergoing extracorporeal shockwave lithotripsy**
By: Ilyas R., Young G., Chow K.
Institutes:University Hospital of South Manchester NHS Foundation Trust, Dept. of Urology, Manchester, United Kingdom
- 37 **Ultraslow high power SWL versus slow power ramping SWL in stones with high attenuation value**
By: Al-Dessoukey A.¹, Abdallah M.¹, Sayed O.¹, Abdallah R.¹, Moussa A.¹, Zayed A.², Elmarakby A.¹, Massoud A.¹
Institutes:¹Beni Suef University, Dept. of Urology, Cairo, Egypt, ²Theodor Bilharz research institute, Dept. of Urology, Giza, Egypt
- 38 **Dual shockwave and using high-flow oxygen administration by nasal cannula (HFONC) may**

improve lithotripsy results

By: Gatkin M., Sopotov A., Raikin I.

Institutes: Zdorovie Center, Dept. of Urology, Barnaul, Russia

39 **Ureteral stenting can be a negative predictor for successful outcome following shock wave lithotripsy in patients with ureteral stones**

By: Oh K.T., Kang D.H., Cho K.S., Ham W.S., Chung D.Y., Kwon J.K., Choi Y.D., Lee J.Y.

Institutes: Severance Hospital, Urological Science Institute, Yonsei University College of Medicine, Dept. of Urology, Seoul, South Korea

41 **Adjuvant alpha blockers to extracorporeal shock wave lithotripsy: A randomized controlled trial**

By: Lanchon C., Ronna M., Descotes J-L., Rambeaud J-J., Fiard G., Thuillier C., Terrier N., Pic G., Boillot B., Long J-A.

Institutes: Grenoble University Hospital, Dept. of Urology, Grenoble Cedex 9, France

43 **Does previous stone surgery affect the outcome of SWL treatment in adults with kidney stones?**

By: Gültekin M.H.¹, Turegun F.A.¹, Ozkan B.², Tansu N.¹, Kendigelen P.³, Erozcenci A.¹, Onal B.¹

Institutes: ¹Cerrahpasa Medical Faculty, Dept. of Urology, Istanbul, Turkey, ²Acibadem University, Dept. of Urology, Istanbul, Turkey, ³Cerrahpasa Medical Faculty, Dept. of Anesthesiology, Istanbul, Turkey

44 **Does shockwave lithotripsy impair urine pH? Results of the prospective Swiss Kidney Stone Cohort register**

By: Skuginna V.¹, Mohebbi N.², Fuster D.¹, Kim M-J.³, Wagner C.², Wuerzner G.⁴, Dhayat N.², Bonny O.⁵, Roth B.¹

Institutes: ¹University Hospital Bern, Dept. of Urology and Nephrology, Bern, Switzerland, ²University Hospital Zürich, Dept. of Urology and Nephrology, Zürich, Switzerland, ³University Hospital Basel, Dept. of Urology and Nephrology, Basel, Switzerland, ⁴University Hospital Geneva, Dept. of Urology and Nephrology, Geneva, Switzerland, ⁵University Hospital Lausanne, Dept. of Urology and Nephrology, Lausanne, Switzerland

45 **Extracorporeal shock-wave lithotripsy (ESWL) for renal stones is associated with decreased kidney function after long term follow-up**

By: Fankhauser C.¹, Grogg J.¹, Hostenstein A.¹, Zhong Q.², Steurer J.³, Hermanns T.¹, Sulser T.¹, Poyet C.¹

Institutes: ¹University Hospital of Zurich, Dept. of Urology, Zurich, Switzerland, ²University Hospital of Zurich, Dept. of Pathology of Molecular Pathology, Zurich, Switzerland, ³University Hospital of Zurich, Horten Centre for Patient Oriented Research and Knowledge Transfer, Zurich, Switzerland

46 **Extracorporeal shock wave lithotripsy (ESWL) monotherapy in children; predictors of successful outcome**

By: Alsagheer G., Abdel-Kader M., Hasan A., Mohamed O., Atef F., Mahmoud O., Abolyosr A.

Institutes: South Valley University, Dept. of Urology, Qena, Egypt

47 **Urinary tract infections raise risk for renal hematoma after shock-wave lithotripsy**

By: Schregel C., John H., Keller I., Randazzo M.

Institutes: Kantonsspital Winterthur, Dept. of Urology, Winterthur, Switzerland