**Aims and objectives of this session**
The objectives of this session is to understand how new pharmacologic research will impact on our understanding of LUTS and learn to use this knowledge to improve our management of storage and voiding LUTS associated with benign prostatic hyperplasia, overactive bladder and other causes of LUTS.

Poster viewing of 20 minutes. Presentations will take place on stage. Standard presentations are 2 minutes in length, followed by 2 minutes for discussion. Extended presentations (+) are 3 minutes in length, followed by 3 minutes for discussion.

- **531** Impact of 5-alpha reductase inhibitors for treatment of benign prostatic hyperplasia on erectile dysfunction, treated depression, gynecomastia, and breast cancer: A real world 20 year observational study
  
  **By:** Hagberg K.W., Divan H.A., Persson R., Fang S.C., Jick S.S., Nickel J.C.
  
  **Institutes:** Queen's University, Dept. of Urology, Kingston, Canada, ²Boston University School of Public Health, Boston Collaborative Drug Surveillance Program, Lexington, United States of America, ³New England Research Institutes, NERI, Watertown, United States of America

- **532** Phosphodiesterase inhibitors for BPH-LUTS: Is the benefit worth it?

  **By:** Pattanaik S., Mavuduru R., Panda A., Mathew J., Aggarwal M., Singh S., Mandal A.
  
  **Institutes:** ¹Postgraduate Institute of Medical Education and Research, Dept. of Pharmacology, Chandigarh, India, ²Postgraduate Institute of Medical Education and Research, Dept. of Urology, Chandigarh, India, ³CMC, Dept. of Urology, Vellore, India, ⁴Postgraduate Institute of Medical Education and Research, Dept. of Pediatrics, Chandigarh, India, ⁵NMC Specialty Hospital, Dept. of Urology, Abu Dhabi, United Arab Emirates

- **533** Antimuscarinic use in the elderly: A poisoned apple?

  **By:** Meyer C., Pucheril D., Karabon P., Gild P., Von Landenberg N., Atiemo H., Menon M., Chughtai B., Fisch M., Chun F., Trinh Q. D.
  
  **Institutes:** ¹Brigham and Women’s Hospital, Harvard Medical School, Division of Urological Surgery and Center For, Division of Urologic Surgery and Center For Surgery and Public Health, Boston, United States of America, ²Henry Ford Health System, VUI Center for Outcomes Research, Analytics and Evaluation, Vattikuti Urology Institute, Detroit, United States of America, ³Weill Cornell Medical College/New York Presbyterian Hospital, Dept. of Urology, New York, United States of America, ⁴University Medical Center Hamburg-Eppendorf, Dept. of Urology, Hamburg, Germany

- **534** A 52-week randomized comparative study of a triple therapy (tamsulosin, dutasteride, and imidafenacin) versus a dual therapy (tamsulosin and dutasteride) in benign prostatic hyperplasia patients with overactive bladder (DirecT Study)

  **By:** Yamanishi T., Asakura H., Seki N., Tokunaga S.
  
  **Institutes:** ¹Dokkyo Medical University, Dept. of Urology, Tochigi, Japan, ²Saitama Medical University Hospital, Dept. of Urology, Saitama, Japan, ³Kyushu Central Hospital, Dept. of Urology, Fukuoka, Japan, ⁴Kyushu University Hospital, Medical Information Center, Fukuoka, Japan
Comparison between tadalafil 5 mg vs. Serenoa repens/selenium/lycopene for the treatment of benign prostate lower urinary tract symptoms secondary to benign prostatic hyperplasia. A phase IV, randomized, multicenter, non-inferiority clinical study. SPRITE study
By: Morgia G.1, Vespasiani G.2, Reale S.1, Di Mauro M.1, Pareo R.3, Voce S.4, Madonia M.5, Fedelini P.6, Veneziano P.7, Carini M.8, Salvia G.9, Santaniello F.10, Ginepri A.11, Bitelli M.12, Terrone C.13, Gentile M.14, Giannantoni A.15, Blefari F.16, Beatriz V.17, Polledro P.18, La Rosa P.19, Arnone S.20, Santelli G.21, Russo G.I.1
Institutes: University of Catania, Urology Section, Dept. of Surgery, Catania, Italy, 2University of Tor Vergata, Dept. of Urology, Rome, Italy, 3Hospital Nuovo Regina Margherita Roma, Dept. of Urology, Rome, Italy, 4Ravenna Hospital, Dept. of Urology, Ravenna, Italy, 5University of Sassari, Dept. of Urology, Sassari, Italy, 6Cardarelli Hospital, Dept. of Urology, Naples, Italy, 7Riuniti Hospital, Dept. of Urology, Reggio Calabria, Italy, 8University of Firenze, Dept. of Urology, Florence, Italy, 9ASP Acireale, Dept. of Urology, Acireale, Italy, 10Riuniti Hospital, Dept. of Urology, Ancona, Italy, 11Figlie Di San Camillo Hospital, Dept. of Urology, Rome, Italy, 12Frascati Hospital, Dept. of Urology, Frascati, Italy, 13University of Piemonte Orientale, Dept. of Urology, Novara, Italy, 14Avellino Hospital, Dept. of Urology, Avellino, Italy, 15University of Perugia, Dept. of Urology, Perugia, Italy, 16Hospital of Prato, Dept. of Urology, Prato, Italy, 17S. Croce Hospital, Dept. of Urology, Ancona, Italy, 18SS. Annunziata Di Savigniano Hospital, Dept. of Urology, Cuneo, Italy, 19Garibaldi Hospital, Dept. of Urology, Catania, Italy, 20Lugo of Romagna Hospital, Dept. of Urology, Ravenna, Italy, 21Lucca Hospital, Dept. of Urology, Lucca, Italy

A randomized, open-label, multicenter study evaluating efficacy of switch from dutasteride to tadalafil in benign prostate hyperplasia patient with lower urinary tract symptoms (D-to-T trial)
By: Matsumoto T.1, Hatakeyama S.1, Yoshikawa K.2, Fukui K.3, Yanagisawa T.4, Kawaguchi T.5, Imai A.6, Yoneyama T.1, Hashimoto Y.1, Koie T.1, Saito H.6, Yamaya K.6, Funyu T.6, Ohyama C.1
Institutes: Hiroshi University Graduate School of Medicine, Dept. of Urology, Hiroshi, Japan, 2Mutsu General Hospital, Dept. of Urology, Mutsu, Japan, 3Fukui Urology Clinic, Dept. of Urology, Aomori, Japan, 4Aomori Rosai Hospital, Dept. of Urology, Hachinohe, Japan, 5Aomori Prefectural Central Hospital, Dept. of Urology, Aomori, Japan, 6Oyokyo Kidney Research Institute, Dept. of Urology, Hiroshi, Japan

Impact of Vesomni™ on quality of life of men with lower urinary tract symptoms associated with benign prostatic hyperplasia in routine clinical practice: Interim results from the EUROPA study
By: Rees J.1, Arbe E.2, Rosa Arias J.2, Skoumal R.3, Walters C.4, Yavuz Y.5, De Wachter S.6
Institutes: Tyntesfield Medical Group, Brockway Medical Centre, Nailsea, United Kingdom, 2Hospital “Santiago Apóstol”, Dept. of Urology, Miranda De Ebro, Spain, 3Urocentrum Brno, Dept. of Urology, Brno, Czech Republic, 4Astellas Pharma Europe Ltd, Medical and Clinical Operations, Chertsey, United Kingdom, 5Astellas Pharma Global Development, Dept. of Data Sciences, Leiden, The Netherlands, 6University Hospital Antwerpen, University Antwerpen, Dept. of Urology, Edegem, Belgium, 7Astellas Pharma Europe Ltd, Dept. of Medical Affairs, Chertsey, United Kingdom

Post-operative continuous use of antimuscarinics in BPH patients with storage symptoms requiring antimuscarinics before surgery – a nationwide population-based study
Institutes: Taipei Veterans General Hospital, Dept. of Urology, Taipei, Taiwan

A multicenter real-life study of the efficacy of an alpha-blocker with or without anticholinergic agent (imidafenacini) treatment in patients with lower urinary tract symptoms/benign prostatic hyperplasia and storage symptoms
By: Cho S.1, Hoon C.1, Park J.Y.1, Bae J.H.1, Lee K.W.2, Yoo T.K.2, Sin D.G.4, Kim S.W.5, Kim Y.H.2
Institutes: Korea University Anam Hospital, Dept. of Urology, Ansan, South Korea, 2Bucheon Hospital, Soonchunhyang University, Dept. of Urology, Bucheon, South Korea, 3Uli University Nowon Hospital, Dept. of Urology, Seoul, South Korea, 4Busan University Hospital, Dept. of Urology, Busan, South Korea, 5Seoul University Hospital, Dept. of Urology, Seoul, South Korea

Testosterone therapy (TTH) improves urinary function and reduces major adverse cardiovascular events (MACE) in hypogonadal men with type 2 diabetes (T2DM) treated up to 8 years in comparison to an untreated control group
By: Haider A.1, Haider K.1, Doros G.2, Traish A.2
**Poster Session 40**

**Institutes:**
1. Private Urology Practice, Dept. of Urology, Bremerhaven, Germany,  
2. Boston University School of Public Health, Dept. of Epidemiology and Statistics, Boston, United States of America,  
3. Boston University School of Medicine, Dept. of Urology and Biochemistry, Boston, United States of America

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**542**

**The effect of non-steroidal anti-inflammatory drugs on risk of benign prostatic hyperplasia**  
By: Murtola T.  
Nygård L., Talala K., Taari K., Tammela T., Auvinen A.

**Institutes:**
1. Tampere University Hospital, Dept. of Urology, Tampere, Finland,  
2. University of Tampere, School of Medicine, Tampere, Finland,  
3. Finnish Cancer Registry, Dept. of Research, Helsinki, Finland,  
4. Helsinki University Hospital, Dept. of Urology, Helsinki, Finland,  
5. University of Tampere, School of Health Sciences, Tampere, Finland

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**543**

**The effect of statins on the risk of receiving transurethral resection of prostate in the outpatients of genitourinary clinic - a study by applying nation-wide population based database**  
By: Lin C-C., Chung H.J., Lin A.T.L., Huang Y.H., Chen T.Z.

**Institutes:**
1. Taipei Veterans General Hospital, Dept. of Urology, Taipei, Taiwan,  
2. Taipei Veterans General Hospital, Dept. of Family Medicine, Taipei, Taiwan

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**544**

**The comparison in the efficacy of the two combination therapies with an anticholinergic agent and an α1-blocker versus a β3-adrenoceptor agonist and an α1-blocker for patients with benign prostatic enlargement complicated by overactive bladder: A randomized, prospective trial using a urodynamic study**  
By: Matsukawa Y., Matsuo K., Majima T., Narita H., Kato M., Yamamoto T., Gotoh M.

**Institutes:**
Nagoya University Graduate School of Medicine, Dept. of Urology, Nagoya, Japan