

Prostate cancer: Impact of MRI on biopsies

Poster Session 37

Sunday, 26 March
12:15 - 13:45

Location: Room Munich, North Hall (Level 1)

Chairs: C. Arsov, Düsseldorf (DE)
O. Rouviere, Lyon, Cedex (FR)
J. Walz, Marseille (FR)

Aims and objectives of this session

This session will highlight the optimal use of MRI for the stratification of men undergoing prostatic biopsies

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.

- *493 **Clinical outcome following a low-suspicious multiparametric prostate MRI or benign MRI-targeted biopsies for prostate cancer detection: A 3-year follow-up study of men with prior negative transrectal ultrasound guided biopsies**
By: [Boesen L.](#)¹, Nørgaard N.¹, Løgager V.², Thomsen H.²
Institutes:¹Herlev University Hospital, Dept. of Urology, Herlev, Denmark, ²Herlev University Hospital, Dept. of Radiology, Herlev, Denmark
- 494 **Multi-parametric magnetic resonance imaging combined with prostate-specific antigen velocity can predict the probability of prostate cancer in patients after initial negative biopsy**
By: [Song G.](#), Huang C., Ji G., Zhou L.
Institutes:Peking University First Hospital, Dept. of Urology, Beijing, China
- 495 **Evaluation of negative predictive value of multiparametric MRI for prostate cancer: Retrospective analysis after 5 years of clinical experience**
By: [Barchetti G.](#)¹, Del Monte M.¹, Salvo V.¹, Grompone M.¹, Sciarra A.², Panebianco V.¹
Institutes:¹Sapienza University of Rome, Dept. of Radiology, Rome, Italy, ²Sapienza University of Rome, Dept. of Urology, Rome, Italy
- 496 **PSA-density based patient selection for MRI-targeted prostate biopsy could reduce unnecessary biopsy procedures in men on active surveillance for low-grade prostate cancer**
By: [Alberts A.](#)¹, Roobol M.¹, Drost F.-J.², Van Leenders G.³, Bokhorst L.¹, Bangma C.¹, Schoots I.²
Institutes:¹Erasmus MC, Dept. of Urology, Rotterdam, The Netherlands, ²Erasmus MC, Dept. of Radiology, Rotterdam, The Netherlands, ³Erasmus MC, Dept. of Pathology, Rotterdam, The Netherlands
- *497 **Improving accuracy of prostate cancer risk prediction in prostate biopsy naïve patients with suspicious PSA and/or digital rectal examination through implementation of multiparametric MRI obtained parameters**
By: [Musch M.](#)¹, Roggenbuck U.², Malik-Patsalis A.B.³, Lehmann N.², Ebel T.⁴, Koch J.-A.³, Krege S.¹, Kroepfl D.¹
Institutes:¹Kliniken Essen-Mitte, Dept. of Urology, Paediatric Urology and Urologic Oncology, Essen, Germany, ²University of Duisburg-Essen, Institute For Medical Informatics, Biometry and Epidemiology, Essen, Germany, ³Kliniken Essen-Mitte, Dept. of Diagnostic and Interventional Radiology, Essen, Germany, ⁴Zentrum Für Pathologie Essen-Mitte, Centre For Pathology, Essen, Germany
- 498 **Combined clinical parameters and multiparametric MRI for advanced risk modeling of prostate**

cancer - patient-tailored risk stratification can reduce unnecessary biopsies

By: Radtke J.P.¹, Bonekamp D.², Kesch C.¹, Freitag M.², Alt C.³, Celik K.¹, Distler F.⁴, Roth W.⁵, Wieczorek K.⁶, Duensing S.¹, Roethke M.², Teber D.¹, Schlemmer H-P.², Hohenfellner M.¹, Hadaschik B.¹

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Added value of pre-biopsy prostate multiparametric MRI in biopsy-naïve patients: Preliminary results of the MRI-FIRST trial

By: Rouviere O.¹, Puech P.²¹, Renard Penna R.¹⁹, Claudon M.¹⁰, Roy C.², Mege Lechevallier F.³⁰, Decaussin-Petrucci M.³¹, Rabilloud M.²⁸, Schott Pethelaz A.M.²⁹, Dubreuil Chambardel M.¹, Magaud L.³², Cros F.¹, Barry Delongchamps N.¹⁶, Boutier R.¹³, Bratan F.¹, Brunelle S.⁴, Camparo P.²⁵, Colin P.²⁴, Correas J.M.¹⁷, Cornélis F.⁶, Cornud F.¹⁵, Descotes J.L.²⁶, Eschwege P.¹¹, Fiard G.²⁶, Fendler J.P.¹², Habchi H.¹⁸, Hallouin P.⁹, Khairoune A.¹⁷, Lang H.³, Lebras Y.⁶, Malavaud B.¹⁴, Moldovan P.¹, Mottet N.¹⁸, Mozer P.²⁰, Nevoux P.⁸, Pagnoux G.¹, Pasticier G.⁷, Portalez D.¹⁴, Potiron E.⁸, Timsit M-O.³⁴, Villers A.²³, Walz J.⁵, Colombel M.²⁷, Ruffion A.³³, Crouzet S.²⁷, Lemaitre L.²², Grenier N.⁶

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A randomized controlled trial to assess and compare the outcomes of AI-US-CT guided biopsy, transrectal ultrasound guided 12-core systematic biopsy, and mpMRI assisted 12-core systematic biopsy

By: Xie L-P., Wang X., Zheng X-Y., Liu B., Li J-F., Wang S.

Institutes:¹st Affiliated Hospital, College of Medicine, Zhejiang University, Dept. of Urology, Hangzhou, China

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Value of magnetic resonance imaging in population-based prostate cancer screening: Comparison of 3 biopsy strategies in the 5th screening round of the ERSPC Rotterdam

By: Alberts A.¹, Schoots I.², Drost F-J.², Bokhorst L.¹, Van Leenders G.³, Dwarkasing R.², Barentsz J.⁴, Schröder F.¹, Bangma C.¹, Roobol M.¹

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- 502 **A prospective randomized study comparing standard prostate biopsy and a new diagnostic path with MRI and fusion biopsy: Results after two years**
By: Porpiglia E., Mele F., Manfredi M., De Luca S., Checcucci E., Bertolo R., Garrou D., Cattaneo G., Amparore D., Bollito E., Russo F., Gned D., De Pascale A., Cirillo S., Fiori C.
Institutes: San Luigi Hospital, Dept. of Urology, Turin, Italy
- V44 **Focal therapy with HIFU FocalOne device with MRI target fusion biopsy by KOELIS**
By: Potiron E., Nevoux P., Rousseau T., Le Goguic G., Lacoste J.
Institutes: Clinique Urologique Nantes Atlantis, Nantes, France
- 503 **Transcriptome wide analysis of MRI-targeted biopsy and matching surgical specimens from high-risk prostate cancer patients treated with radical prostatectomy**
By: Hadaschik B.¹, Takha M.², Radtke J.P.¹, Bonekamp D.³, Du Plessis M.², Buerki C.², Erho N.², Ong K.², Davicioni E.²
Institutes: ¹University of Heidelberg, Medical Faculty Heidelberg, Dept. of Urology, Heidelberg, Germany, ²GenomeDx Biosciences Inc., Research and Development, Vancouver, Canada, ³German Cancer Research Center, Dept. of Radiology, Heidelberg, Germany
- 504 **Prostate MRI for predicting capsular invasion prior to robot-assisted radical prostatectomy. Lesson learned after 400 cases**
By: Porpiglia E., Manfredi M., Mele F., Bertolo R., Amparore D., Cattaneo G., Garrou D., Checcucci E., Bollito E., Volante M., Veltri A., De Pascale A., Gned D., Russo F., Regge F., Regge D., Cirillo S., Fiori C.
Institutes: San Luigi Hospital, Dept. of Urology, Turin, Italy
- 505 **Concordance between biopsy and radical prostatectomy Gleason score: Evaluation of determinants in a large-scale study of patients undergoing RALP in Belgium**
By: Soenens C.¹, Ameye F.¹, De Kuyper P.¹, De Coster G.², Van Damme N.², Vandervorst L.², Quackels T.³, Roumeguère T.³, Joniau S.⁴, Van Cleynenbreugel B.⁴
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- 506 **Does the inclusion of non-index lesions at biopsy improve our ability to predict adverse pathologic outcomes at radical prostatectomy? Implications for targeted plus systematic biopsy schemes**
By: Gandaglia G.¹, Bandini M.¹, Dell'Oglio P.¹, Fossati N.¹, Pellegrino F.¹, Fallara G.¹, Zaffuto E.¹, Bravi C.A.¹, Nocera L.¹, Damiano R.², Freschi M.³, Montironi R.⁴, Montorsi F.¹, Briganti A.¹
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