**Prostate cancer: Outcomes after radiotherapy and brachytherapy**

**Location:** Room Milan, North Hall (Level 1)

**Chairs:** A. Bossi, Villejuif (FR)  
W.C. Loidl, Linz (AT)  
C. Surcel, Bucharest (RO)

**Aims and objectives of this session**
To evaluate radiotherapy and brachytherapy protocols and oncological and functional results.

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.

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**805**

**Optimization of assessment tool for lower urinary symptom flare in patients with localized prostate cancer treated with iodine-125 implant brachytherapy**

*By:* Miyake M.¹, Tanaka N.¹, Asakawa I.², Hori S.¹, Morizawa Y.¹, Tatsumi Y.¹, Nakai Y.¹, Anai S.¹, Hasegawa M.¹, Konishi N.¹, Fujimoto K.¹  
*Institutes:* Nara Medical University, Dept. of Urology, Nara, Japan, ²Nara Medical University, Dept. of Radiation Oncology, Nara, Japan, ³Nara Medical University, Dept. of Pathology, Nara, Japan

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**806**

**Impact of ISUP new grading system on prognostic prediction in clinical stage T3 prostate cancer undergoing high-dose-rate brachytherapy**

*By:* Tsumura H.¹, Satoh T.¹, Tabata K-I.¹, Ishiyama H.², Ikeda M.¹, Kurosaka S.¹, Fujita T.¹, Hayakawa K.¹, Iwamura M.¹  
*Institutes:* Kitasato University School of Medicine, Dept. of Urology, Sagamihara, Japan, ²Kitasato University School of Medicine, Dept. of Radiology and Radiation Oncology, Sagamihara, Japan

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**807**

**Ten year outcomes of real time “4D” brachytherapy in prostates up to 100cc**

*By:* Rea A.¹, Rogers P.², Jones A.¹  
*Institutes:* Royal Berkshire Hospital, Dept. of Urology, Reading, United Kingdom, ²Royal Berkshire Hospital, Dept. of Oncology, Reading, United Kingdom

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**808**

**Long-term outcomes of permanent prostate brachytherapy**

*By:* Stone N.¹, Stock R.²  
*Institutes:* The Icahn School Of Medicine At Mount Sinai, Dept. of Urology, New York, United States of America, ²The Icahn School Of Medicine At Mount Sinai, Dept. of Radiation Oncology, New York, United States of America

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**809**

**Outcomes of treatment for localized prostate cancer in a single institution; comparison of radical prostatectomy vs radiation therapy -Propensity Score Matching Analysis-**

*By:* Hayashi N.¹, Yokomizo Y.¹, Kimito O.¹, Makiyama K.¹, Kondo K.¹, Nakaigawa N.¹, Yao M.¹, Taguri M.², Sugiura M.³, Ito E.³, Takano S.³, Mukai A.³  
*Institutes:* Yokohama City University School of Medicine, Dept. of Urology, Yokohama, Japan, ²Yokohama City University School of Medicine, Dept. of Biostatistics, Yokohama, Japan, ³Yokohama City University School of Medicine, Dept. of Radiology, Yokohama, Japan

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**810**

**Oncological outcomes of prostate cancer treated by radical prostatectomy versus radiotherapy: A multi–center study using propensity-matched and competing risk regression analyses**

*By:* Koo K.C.¹, Lee W.K.², Kim J.C.³, Bang W.J.³, Lee S.H.³, Cho S.Y.³, Kim S.I.⁵, Kim S.J.⁵, Cho J.S.², Rha K.H.¹, Hong S.J.¹, Chung B.H.¹  

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811

The hybrid method can cover an extensive area of planning target volume compared with the conventional method in prostate cancer patients who undergo low-dose-rate brachytherapy

By: Tanaka N.1, Asakawa I.2, Nakai Y.1, Miyake M.1, Anai S.1, Fujii T.3, Hasegawa M.4, Konishi N.5, Fujimoto K.1

Institutes: 1Nara Medical University, Dept. of Urology, Kashihara, Japan, 2Nara Medical University, Dept. of Radiation Oncology, Kashihara, Japan, 3Nara Medical University, Dept. of Pathology, Kashihara, Japan

812

Combined androgen deprivation and radiation versus either modality alone or observation after radical prostatectomy in patients with pathologic node-positive prostate cancer: Analysis of a national hospital cancer registry database

By: Zareba P., Eastham J., Scardino P., Touijer K.

Institutes: Memorial Sloan Kettering Cancer Center, Dept. of Surgery and Urology, New York, United States of America

813

What is the impact of diabetes mellitus on radiation induced proctitis after radical radiotherapy for adenocarcinoma prostate?

By: Paterson C.1, Alashkham A.4, Hubbard S.2, Nabi G.3

Institutes: 1Ninewells Hospital, Dept. of Urology, Dundee, United Kingdom, 2University of Dundee, School of The Environment, Dundee, United Kingdom, 3University of Dundee, Dept. of Urology, Dundee, United Kingdom, 4University of Edinburgh, Centre for Human Anatomy, Edinburgh, United Kingdom

814

Nationwide multicenter retrospective study on high-dose-rate brachytherapy as monotherapy for prostate cancer

By: Komiya A.1, Yoshioka Y.2, Kotsuma T.3, Kariya M.4, Konishi K.5, Nonomura N.6, Fujiuchi Y.7, Kitamura H.7

Institutes: 1Chiba University Graduate School of Medicine, Dept. of Urology, Chiba, Japan, 2Osaka University Graduate School of Medicine, Dept. of Radiation Oncology, Osaka, Japan, 3Osaka National Hospital, Dept. of Radiation Oncology, Osaka, Japan, 4Kochi University Graduate School of Medicine, Dept. of Radiation Oncology, Osaka, Japan, 5Osaka Medical Center for Cancer and Cardiovascular Diseases, Dept. of Radiation Oncology, Osaka, Japan, 6Osaka University Graduate School of Medicine, Dept. of Urology, Osaka, Japan, 7Graduate School of Medicine and Pharmaceutical Sciences For Research, University of Toyama, Dept. of Urology, Toyama, Japan

815

Ex vivo H2AX assay in prostate cancer patient-derived tumour samples reveals substantial differences in intrinsic radiation sensitivity

By: Neumann E.1, De Colle C.2, Müller A-C.2, Yaromina A.3, Hennenlotter J.1, Stenzl A.1, Scharpf M.4, Fend F.4, Ricardi U.5, Baumann M.5, Zips D.2, Menegakis A.2

Institutes: 1Eberhard Karls University Tübingen, Dept. of Urology, Tübingen, Germany, 2Eberhard Karls University Tübingen, Dept. of Radiooncology, Tübingen, Germany, 3Maastricht University Medical Centre, Dept. of Radiation Oncology, Maastricht, The Netherlands, 4Eberhard Karls University Tübingen, Dept. of Pathology, Tübingen, Germany, 5University of Turin, Dept. of Radiation Oncology (Maastro), Turin, Italy, 6Faculty of Medicine and University Hospital Carl Gustav Carus, Dept. of Radiation Oncology, Dresden, Germany

816

Pre-radiotherapy, (robot-assisted) laparoscopic sentinel node dissection and its impact on recurrence and progression of prostate cancer

By: Grivas N.1, Wit E.1, Pos F.2, De Jong J.3, Vegt E.4, Bex A.1, Hendrickxen K.1, Horenblas S.1, KleinJan G.3, Van Rhijn B.1, Van Der Poel H.1
13:28 - 13:38

Current technique on radiation therapy
A. Bossi, Villejuif (FR)