## Adaptive Approaches and Online Monitoring of Radiotherapy Treatment

**Wednesday 25th April 2018, Manchester Conference Centre**

### FINAL PROGRAMME

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>09:30 – 09:55</td>
<td>Coffee and registration</td>
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<tr>
<td>09:55 – 10:00</td>
<td>Introduction</td>
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<td><strong>Chair:</strong> Peter Colley, Hull &amp; East Yorkshire Hospitals NHS Trust</td>
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<tr>
<td>10:00 – 10:15</td>
<td>A pipeline for the validation of motion including dose reconstruction using 4DCT or patient specific motion models</td>
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<td><strong>Dr Jenny Bertholet,</strong> The Institute of Cancer Research</td>
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<td><strong>Keri Haselip,</strong> Queen Alexandra Hospital, Portsmouth</td>
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<tr>
<td>10:30 – 10:45</td>
<td>Development and utilisation of a new software for lung cancer patients treated with Stereotactive Ablative Radiotherapy</td>
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<td><strong>Theodoros Christodoulou,</strong> University of Glasgow, Beatson West of Scotland Cancer Centre</td>
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<tr>
<td>10:45 – 11:00</td>
<td>Assessment of the dose model for the Integral Quality Monitor (IQM)</td>
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<td><strong>Bruce Perri,</strong> The Christie NHS Foundation Trust, Manchester</td>
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<tr>
<td>11:00 – 11:15</td>
<td>The use of an EPID in-vivo dosimetry solution to triggering adaptive intervention for H&amp;N weight loss cases</td>
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<td><strong>Suzanne Wong,</strong> The Clatterbridge Cancer Centre NHS Foundation Trust</td>
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<tr>
<td>11:15 – 11:45</td>
<td>Coffee</td>
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<td><strong>Chair:</strong> Steven Blake, University Hospitals Bristol NHS Foundation Trust</td>
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<tr>
<td>11:45 – 12:00</td>
<td>Review of departmental clinical use of diodes for in vivo Dosimetry</td>
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<td><strong>Anna Tonino Baldion,</strong> Imperial College Healthcare NHS Trust</td>
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<td>12:00 – 12:15</td>
<td>An automated independent Monte-Carlo check for VMAT plans</td>
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<td><strong>John Cope,</strong> University Hospitals Bristol NHS Foundation Trust</td>
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<td>12:15 – 12:30</td>
<td>The development and applications of glass beads as novel dosimeters in radiotherapy</td>
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<td><strong>Dr Shakardokht Jafari,</strong> Portsmouth Hospitals NHS Trust / University of Surrey</td>
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<td>12:30 – 13:00</td>
<td><strong>Clinical outcomes with daily online MRI-guided adapted radiation therapy</strong></td>
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<td><strong>Invited Speaker:</strong> Dr Michael Roach, Washington University School of Medicine, St Louis, USA</td>
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<td>13:00 – 14:00</td>
<td>Lunch</td>
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<td><strong>Chair:</strong> Dr Rosemary Hakes, Royal Devon &amp; Exeter NHS Foundation Trust</td>
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<td>14:00 – 14:30</td>
<td>Adaptive on-line planning and patient position monitoring with the Elekta Unity MR Linac</td>
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<td><strong>Invited Speaker:</strong> Geoff Budgell, The Christie NHS Foundation Trust, Manchester</td>
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<td>14:30 – 14:45</td>
<td>Automated monitoring of every treatment fraction using SNC PerFraction</td>
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<td><strong>Dr Paul Doolan,</strong> German Oncology Center, Limassol, Cyprus</td>
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<td>14:45 – 15:00</td>
<td>Incorporating changes in patient anatomy into in-vivo EPID dosimetry using commercially available software</td>
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<td><strong>Robin Taylor,</strong> Raigmore Hospital, Inverness</td>
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<td>15:00 – 15:30</td>
<td>Coffee</td>
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<td><strong>Chair:</strong> Elizabeth Macaulay, Plymouth Hospitals NHS Trust</td>
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<td>15:30 – 15:45</td>
<td>Our experience with transit in-vivo dosimetry: Implementation with EPIGray (Dosisoft)</td>
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<td><strong>Styliani Savva,</strong> Northampton General Hospital NHS Trust</td>
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<td>15:45 – 16:00</td>
<td>Online prostate plan adaptation for simulated volume changes on the 1.5T MR-Linac</td>
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<td><strong>Dr Alan McWilliam,</strong> The Christie NHS Foundation Trust, Manchester / University of Manchester</td>
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<td>16:00 – 16:15</td>
<td>Quantification of changes to dose distribution caused by positional corrections for verification image matching to rectal and anal cancer patients during IMRT treatment</td>
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<td><strong>Emma Parker,</strong> Oxford University Hospitals NHS Foundation Trust</td>
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<td>16:15 – 16:45</td>
<td>Questions/discussion</td>
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*Organised by IPEM's Radiotherapy Special Interest Group*

*Programme subject to change*