

| DATE         | DAY | START | END   | TOPIC                                    | SPEAKER                   |
|--------------|-----|-------|-------|--|---------------------------|
| 22th Nov     | 1   | 11:00 | 11:20 | Welcome and course introduction          | Per M af R                |
|              |     | 11:20 | 11:40 | Practical information                    | Louise Laursen            |
|              |     | 11:40 | 12:00 | CIRRO - visions and future               | Cai Grau & Jens Overgaard |
| <b>LUNCH</b> |     |       |       |  |                           |
|              |     | 13:00 |       | <b>Dose verification and accidents</b>   |                           |
|              |     | 13:00 | 13:40 | Dosimetry fundamentals                   | Claus Andersen            |
|              |     | 13:40 | 14:20 | Dosimetry verification and audits        | Tommy Knöös               |
|              |     | 14:20 | 15:00 | Radiation accidents and lessons learned  | Tommy Knöös               |
|              |     | 15:00 | 15:20 | Discussion point - Dose verification     | Claus Andersen et al      |
|              |     | 15:00 | 15:20 | <b>Coffee</b>                            |                           |
|              |     |       |       | <b>Imaging in radiotherapy</b>           |                           |
|              |     | 15:20 | 16:00 | PET - overview                           | Morten Busk               |
|              |     | 16:00 | 16:40 | MR - overview                            | Kari Tanderup             |
|              |     | 16:40 | 17:20 | Use of markers and clinical implications | Jesper Carl               |
|              |     | 17:20 | 17:40 | Discussion point - imaging in RT         | Kari Tanderup et al       |

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| 23rd Nov     | 2 | 08:30 |       | <b>Treatment margins</b>                         |                     |
|              |   | 08:30 | 08:40 | Introduction day 2                               | Per M af R          |
|              |   | 08:40 | 09:10 | Calculation of treatment margins                 | Ludvig Muren        |
|              |   | 09:10 | 09:50 | 4D treatment planning                            | Carsten Brink       |
|              |   | 09:50 | 10:20 | On-line adaptive therapy                         | Per M af R          |
|              |   | 10:20 | 10:30 | <b>Coffee</b>                                    |                     |
|              |   | 10:30 | 11:00 | Methods for tumour tracking                      | Per R Paulsen       |
|              |   | 11:00 | 11:30 | Breathing adapted functional imaging             | Marianne Aznar      |
|              |   | 11:30 | 12:00 | Discussion point - treatment margins             | Carsten Brink et al |
| <b>LUNCH</b> |   |       |       |  |                     |
|              |   | 13:00 |       | <b>Radiobiology</b>                              |                     |
|              |   | 13:00 | 13:30 | Modelling of normal tissue response              | Ivan Vogelius       |
|              |   | 13:30 | 14:10 | Potentials of genetics in normal tissue response | Jan Alsner          |
|              |   | 14:10 | 15:00 | Genetic profiling of tumours                     | Jan Alsner          |
|              |   | 15:00 | 15:30 | <b>Coffee</b>                                    |                     |
|              |   | 15:30 | 16:10 | Clinical value of hypoxia and dose painting      | Jens Overgaard      |
|              |   | 16:10 | 16:50 | Dose painting physics                            | Stine Korreman      |
|              |   | 16:50 | 17:10 | Discussion point - radiobiology                  | Jan Alsner et al    |
|              |   | 18:30 | 19:30 | <b>Group discussions</b>                         |                     |

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| 24th Nov     | 3 | 09:00 | <b>Imaging in the clinic (continued)</b> |   |                      |
|              |   | 09:00 | 09:40                                    | MR and nanoparticles                                    | Esben Kjaer Larsen   |
|              |   | 09:40 | 10:20                                    | The validation of PET-tracers for hypoxia               | Morten Busk          |
|              |   | 10:20 | 10:40                                    | Coffee  |                      |
|              |   | 10:40 | 11:30                                    | <b>Multimodality imaging in the clinic</b>              | <b>Cancelled</b>     |
|              |   | 11:30 | 12:00                                    | Discussion point  | Morten Busk et al    |
| <b>LUNCH</b> |   |       |  |   |                      |
|              |   | 13:00 | <b>Data management</b>                   |   |                      |
|              |   | 13:00 | 13:30                                    | Clinical data management                                | Ivan Vogelius        |
|              |   | 13:30 | 14:10                                    | DICOM format  | Jonas Westberg Jahn  |
|              |   | 14:10 | 15:00                                    | Deformable image registration - new algorithms          | Thomas Sangild       |
|              |   | 15:00 | 15:20                                    | Coffee  |                      |
|              |   | 15:20 | 16:00                                    | Deformable image registration - validation and accuracy | Thomas Sangild       |
|              |   | 16:00 | 16:30                                    | Discussion point  | Ivan Vogelius et al  |
|              |   | 16:30 | 17:00                                    | Concluding remarks                                      | Cai G and Per M af R |
|              |   | 17:00 | 18:00                                    | Exam  | Per M af R           |