**Joint ICTP-IAEA International Workshop on the Implementation of Image Guided Radiotherapy (IGRT)**

**8 - 12 May 2017**

**Trieste, Italy**

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|  | **Monday**  **8 May 2017** | **Tuesday**  **9 May 2017** | **Wednesday**  **10 May 2017** | **Thursday**  **11 May 2017** | **Friday**  **12 May 2017** |
| 9:00 | Registration and Welcome  Finance arrangements | Corrective strategies and CTV-PTV margins in radiotherapy  (TK) | Patient dosimetry in IGRT  (DB) | Imaging in radiotherapy treatment planning (DB) | Emerging trends in radiotherapy  (TK)  Discussion panel on emerging trends  (All) |
| 10:00 | ICTP welcome (LB)IAEA welcome (BH) | QC part I: planar x-ray imaging (AT) | RT QC procedures forplanar imaging for IGRT (TK) | Radiation safety and protection, and regulatory requirements for IGRT  (DB and BH) |
| 10:30 | ***Coffee*** | **Coffee** | ***Coffee*** | ***Coffee*** | ***Coffee*** |
| 11:00 | Participants pre-course quizDefinition of IGRT, Clinical need for IGRT (TK) | Acceptance and commissioning of IGRT technology  (DB) | IAEA activities in RT education and training  (GL)  RT QC procedures for volumetric imaging for IGRT  (DB) | 4DCT and 4DCBCT in IGRT  (CF) | Quiz review  Conclusions and recommendations  Course evaluation  Course closure |
| 12:00 | IGRT technology and processes  (DB) | QC part II: volumetric x-ray imaging  (AT) | IGRT in adaptive radiotherapy  (TK) | QC of motion management in radiotherapy  (CC) |
| 13:00 | ***Lunch*** | ***Lunch*** | ***Lunch*** | ***Lunch*** | ***Lunch*** |
| 14:00 | Advanced IGRT: motion management  (TK) | Group A  14.00-17.00  CTV-PTV margin calculations  Demonstration of DR QC equipment  -----------------------------------  Group B  15.00-18.00 Maggiore Hospital  Hospital Practical:   1. IGRT QC (EPID, kV planar, kV CBCT) 2. IGRT end-to-end test | Group B  14.00-17.00  CTV-PTV margin calculations  Demonstration of DR QC equipment  -----------------------------------  Group A  15.00-18.00 Maggiore Hospital  Hospital Practical:   1. IGRT QC (EPID, kV planar, kV CBCT) 2. IGRT end-to-end test | Resources and staffing for IGRT: IAEA guidance  (BH) |  |
| 15:00 | AAPM recommendations on IGRT (DB) | Reports of results of practical exercises  (Participants) |
| *15:45* | ***Coffee*** | ***Coffee*** |
| 16:00 | Discussion and Q&A | Participants quiz |

Faculty: Tomas Kron, Australia | Daniel Bourland, USA | Brendan Healy, IAEA | Luciano Bertocchi, ICTP | Mario de Denaro, Trieste Maggiore Hospital | Annalisa Trianni, University Hospital Udine | Christian Fiandra, University Hospital Torino | Carlo Cavedon, University Hospital Verona | Giorgia Loreti, IAEA

Practical Exercises: Half of participants at ICTP, other half to Maggiore Hospital; reversed on Wednesday