**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 WelcomeFinance 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 recommendationsCourse evaluationCourse 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 A14.00-17.00CTV-PTV margin calculationsDemonstration of DR QC equipment-----------------------------------Group B 15.00-18.00 Maggiore HospitalHospital Practical:1. IGRT QC (EPID, kV planar, kV CBCT)
2. IGRT end-to-end test
 | Group B14.00-17.00CTV-PTV margin calculationsDemonstration of DR QC equipment-----------------------------------Group A 15.00-18.00 Maggiore HospitalHospital 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