Opening Ceremony

Sunday, 09 October 2011
Venue: Research Centre Room #304

1000—1030

Recitation of the Holy Quran
Dr. Adnan Al Hebshi
Consultant, Radiation Oncology, Oncology Centre
King Faisal Specialist Hospital & Research Centre
Riyadh, Saudi Arabia

Opening Remarks
Dr. Belal Moftah
Director, IAEA Course 2011
Chairman, Biomedical Physics Department
King Faisal Specialist Hospital & Research Centre
Riyadh, Saudi Arabia

IAEA Course Coordinator Address
Dr. Jake van Dyk
Professor Emeritus
University of Western Ontario
Canada

Executive Director Address
Dr. Sultan T. Al-Sedairy
Executive Director
King Faisal Specialist Hospital & Research Centre
Riyadh, Saudi Arabia
Activity Schedule

Day 1
Sunday, 09 October 2011

0730 — 0830  Registration and Breakfast
(Venue: Research Centre Room #304)

0830 — 0900  Course Overview and Self-Introductions of Participants

0900 — 1000  Imaging for Radiation Treatment Planning I:
General Overview with Emphasis on ICRU Concepts
Lecturer: Jake Van Dyk, Ph.D., FCCPM

1000 — 1030  Opening Ceremony & Coffee Break

1030 — 1110  Imaging for Radiation Treatment Planning II:
CT: Principles & Applications
Lecturer: Jatinder Palta, Ph.D., FAAPM

1110 — 1150  Imaging for Radiation Treatment Planning II:
MRI: Principles & Applications
Lecturer: Paul Keall, Ph.D., FAAPM

1150 — 1230  Imaging for Radiation Treatment Planning II:
Nuclear Medicine, PET, SPECT
Lecturer: M. Gary Sayed, Ph.D., FACNM

1230 — 1400  Lunch Break

1400 — 1530  Setup and Simulation: Patient Immobilization for Precision RT,
Body Frames, Visual Patient Tracking, Respiratory Management
Lecturer: Wassim Jalbout, Ph.D., DABMP

1530 — 1600  Coffee Break

1600 — 1800  Treatment Delivery I: IMRT Systems and QA. IMRT, MLC, Record
and Verify, System Design & QA
Lecturer: Jatinder Palta, Ph.D., FAAPM

- - End of Session - -
Activity Schedule

Day 2
Monday, 10 October 2011

<table>
<thead>
<tr>
<th>Time</th>
<th>Lecture Sessions</th>
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</thead>
</table>
| 0830 — 1000 | Treatment Planning I:  
TPS Acquisition, Acceptance, Commissioning & QA  
Lecturer: Jake Van Dyk, Ph.D., FCCPM |
| 1000 — 1030 | Coffee Break                                                                    |
| 1030 — 1130 | Treatment Planning II: Treatment Plan Optimization, Evaluation Metrics, Radiobiological Modeling, Dose-Volume Constraints  
Lecturer: Wassim Jalbout, Ph.D., DABMP |
| 1130 — 1230 | Treatment Planning II: Treatment Plan Optimization, Evaluation Metrics, Radiobiological Modeling, Dose-Volume Constraints  
Lecturer: Paul Keall, Ph.D., FAAPM |
| 1230 — 1400 | Lunch Break                                                                     |
| 1400 — 1530 | Treatment Planning III: Patient Specific QA, Assessment of Plan  
Acceptability, Transfer of Plan to Linac, R&V System  
Lecturer: Belal Moftah, Ph.D., FCCPM |
| 1530 — 1600 | Coffee Break                                                                    |
| 1600 — 1800 | Practical Session I  
TPS: 3D Pelvis  
General  
Instructor: Belal Moftah, Ph.D., FCCPM  
Group I: Manal Awidah, B.Sc.  
Group II: Lorcel Ericka Venturina, B.Sc. |
Activity Schedule

Day 3
Tuesday, 11 October 2011

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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| 0830 – 0915 | **Treatment Delivery II:**  
|          | Patient Specific QA for IMRT:  
|          | Dosimetry, EPID, and Cone Beam CT, MVCT  
|          | **Lecturer:** Wassim Jalbout, Ph.D., DABMP |
| 0915 – 1000 | **Dosimetry, EPID, MV Imaging**  
|          | **Lecturer:** Jatinder Palta, Ph.D., FAAPM |
| 1000 – 1030 | **Coffee Break** |
| 1030 – 12:30 | **Treatment Planning IV:** Monte Carlo Calculations and Advanced Planning: Monte Carlo, Current Status, Speed and Accuracy  
|          | **Lecturer:** Paul Keall, Ph.D., FAAPM |
| 1230 – 1400 | **Lunch Break** |
| 1400 – 1530 | **Treatment Delivery III:**  
|          | IGRT, Inter and Intra Fractional Motion Management  
|          | **Lecturer:** Jatinder Palta, Ph.D., FAAPM  
|          | **Lecturer:** Paul Keall, Ph.D., FAAPM |
| 1530 – 1600 | **Coffee Break** |
| 1600 – 1800 | **Practical Session II**  
|          | TPS: 3D, FinF, Breast  
|          | **Group I:** Ghadeer Nazer, B.Sc.  
|          | **Group II:** Paula Yates, RT(T), CMD |

- - - End of Session - - -
# Activity Schedule

## Day 4
Wednesday, 12 October 2011

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<tr>
<th>Time</th>
<th>Session</th>
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| 0830 — 0915 | TomoTherapy: What have we learned?  
*Lecturer:* Jake Van Dyk, Ph.D., FCCPM |
| 0915 — 1000 | Tomotherapy:  
Local Experience  
*Lecturer:* Paula Yates, RT(T), CMD; Sameha Julie Pickford, RT(T) |
| 1000 — 1030 | Coffee Break |
| 1030 — 1130 | Case Studies:  
*Breast*  
*Instructor:* Mohammad Al-Shabanah, M.D.  
*Lung; Brain*  
*Instructor:* Adnan Al Hebshi, M.D. |
| 1130 — 1230 | Lunch Break |
| 1230 — 1400 | Practical Sessions III  
*TPS & IGRT: IMRT/RA*  
*Instructors:* Belal Moftah, Ph.D., FCCPM; Ahmed Nobah, M.Sc. |
| 1400 — 1530 | Coffee Break |
| 1530 — 1600 | Practical Sessions IV  
*PSQA*  
*Group I:* Abdullah Al-Kafi, M.Sc.  
*Group II:* Ahmed Nobah, M.Sc. |
Activity Schedule

Day 5
Thursday, 13 October 2011

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<th>Time</th>
<th>Activity</th>
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<tbody>
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<td>0830 — 0930</td>
<td>Practical Sessions V</td>
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<tr>
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<td>TPS &amp; IGRT: Tomo</td>
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<td><em>Instructors:</em> Omar Chilani, Ph.D.; Zeinab Hassan, Ph.D.; Osama Hassad, B.Sc.</td>
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<tr>
<td>0930 — 1030</td>
<td>Practical Sessions VI</td>
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<td>TPS &amp; IGRT: Cyberknife</td>
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<td><em>Instructors:</em> Jason Yan, M.Sc.; Abrar Hussain, Ph.D., CMD</td>
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<td>1030 — 1100</td>
<td>Coffee Break</td>
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<td>1100 — 1130</td>
<td>Review of the week:</td>
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<td>Participants feedback</td>
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<td><em>All speakers and course directors</em></td>
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<tr>
<td>1130 — 1230</td>
<td>Examination</td>
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<td>1230 — 1330</td>
<td>Lunch Break</td>
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<td>1330 — 1500</td>
<td>Final questions/ discussion</td>
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<td><em>All speakers and course directors</em></td>
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<td><em>Closing Ceremony</em></td>
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