



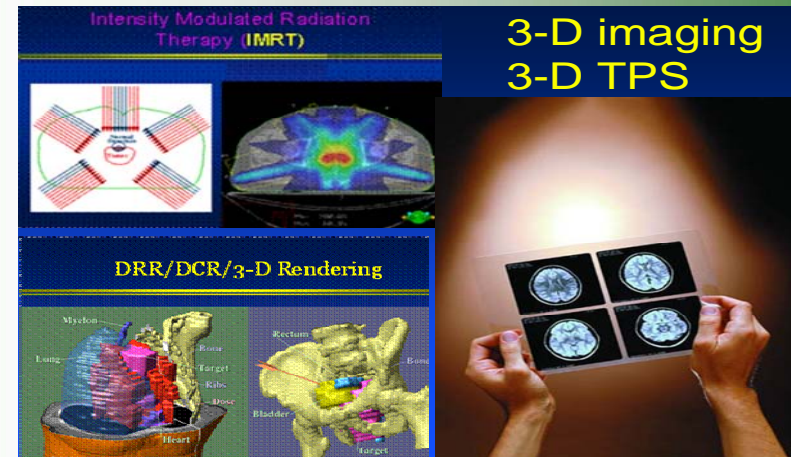
IAEA REGIONAL TRAINING COURSE ON QUALITY ASSURANCE IN RADIOTHERAPY TREATMENT PLANNING SYSTEMS

Venue:

**King Faisal Specialist Hospital & Research Centre
Riyadh, Kingdom of Saudi Arabia**

on

13-17 Rabi Al-Thani 1429 (19-23 April 2008)



Hosted by:

Biomedical Physics Department of the
King Faisal Specialist Hospital & Research Centre (KFSH&RC)

Sponsored by:

International Atomic Energy Agency (IAEA)
King Abdulaziz City for Science and Technology (KACST)

Endorsed by:

Training and Education Office
Research Centre

CME Accreditation:

Saudi Commission for Health Specialities
(SCHS)
American Academy of Continuing Education
(AACE)

Course Director:

Belal Moftah, Ph.D., MCCPM
Chairman, Biomedical Physics Department
King Faisal Specialist Hospital & Research Centre
P.O. Box 3354
Riyadh, 11211, Kingdom of Saudi Arabia
Tel: +966 (1) 442 7714 or 4427879
Fax: +966 (1) 4424777
E-mail: bmoftah@kfshrc.edu.sa
Website: www.kfshrc.edu.sa

CONTACT INFORMATION

Biomedical Physics Department, MBC #03
King Faisal Specialist Hospital & Research Centre
P.O. Box 3354
Riyadh, 11211, Kingdom of Saudi Arabia
Tel: +966 (1) 4427879 (direct line), or 4647272 Ext. 32950
Fax: +966 (1) 4424777
E-mail: josfin@kfshrc.edu.sa

Program Schedule



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Message from the Course Director

Greetings!

I am honored to personally welcome you to the "IAEA Regional Training Course on Quality Assurance in Radiotherapy Treatment Planning Systems", hosted by the Biomedical Physics Department of the King Faisal Specialist Hospital and Research Centre (KFSH&RC), Riyadh, Saudi Arabia, from 19 to 23 April 2008, in conjunction with the International Atomic Energy Agency (IAEA) and King Abdulaziz City for Science and Technology (KACST).

This training course is organized under the IAEA Technical Cooperation Program with the mission of upgrading medical services in support of quality health care in Arab-Asia (ARASIA) member states. The activity promises to be rewarding as distinguished international experts and local faculty join in discussions and presentations about clinical commissioning and quality assurance of computerized planning systems for radiation treatment of cancer patients.

The KFSH&RC is an institution with an important leadership function not only in direct medical care but also in promoting education and dissemination of knowledge about associated specialties which underlie advanced health care. We take pride to play a role as the leading clinical support medical physics department in the kingdom and the region, and to be in the forefront of contributing to such an education and training activity.

We hope that the medical physics profession is strengthened by our continuous commitment to contribute in one way or another to similar training course programs in support of quality patient care.

On behalf of the Biomedical Physics Department of KFSH&RC, we look forward to occasioning this activity with your contribution and support towards its success.

With best wishes.

Sincerely,

A handwritten signature in black ink, enclosed in an oval. The signature appears to be "Belal Mofteh".

Belal Mofteh, Ph.D., MCCPM
Course Director
Chairman, Biomedical Physics Department
King Faisal Specialist Hospital and Research Centre-Riyadh

Course Description

This course is an in-depth review of an evolving area of radiotherapy treatment planning practice and provides practical hands-on information on the implementation of the "IAEA TRS 430: Commissioning and Quality Assurance of Computerized Planning Systems for Radiation Treatment of Cancer" for medical physics and medical dosimetry professionals. It includes the review of latest developments and quality assurance programs in the field of radiotherapy treatment planning. Methods for generating acceptance and use of new procedures will be discussed, and theoretical and practical information will be presented on how modern treatment planning system can be configured and used.

There will be a series of lectures and hands-on sessions on quality assurance, assessment and management of radiotherapy treatment planning process. Measurements and calculations will be performed during the practical sessions following IAEA guidelines. Participants will be exposed to the day by day activities of the medical physicist and medical dosimetrist in Radiation Physics, Radiation Oncology, and Radiation Therapy at KFSH&RC such as group discussions, laboratory and work procedures in the area of patient treatment planning.

The training course program consists of the following main topics:

- Accidental exposures in radiotherapy related to TP and lessons learned
- Place of TP and associated QA in the process of radiotherapy
- Computerized TPS: Hardware components, software, use of beam modifiers inhomogeneities, basic photon beam algorithms, more advanced algorithms (IMRT, stereotactic radiosurgery) electron beam algorithms, brachytherapy
- Acceptance testing, commissioning and periodic checks of TPS
- IAEA acceptance testing and clinical commissioning protocols
- MU/treatment time calculations and validation of treatment plans
- Patient data acquisition (role of CT, MR, simulators)
- Periodic and patient-specific QA in treatment planning.

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Course Objectives

In keeping with its mission of providing medical physics professionals in ARASIA member states with continuing educational opportunities in the field of radiotherapy treatment planning, the IAEA has arranged for a series of lectures and practical sessions to provide training of the greatest benefit to medical physics professionals attending this course. It is aimed at medical physicists and medical dosimetrists currently involved in treatment planning for cancer patients as well as those planning future involvement in this area of clinical practice.

The core objectives of this program constitute the following:

1. to understand proper implementation of the *"IAEA TRS 430: Commissioning and Quality Assurance of Computerized Planning Systems for Radiation Treatment of Cancer"*.
2. to apply the verification of TPS dose calculation for clinical techniques.
3. to gain greater knowledge of the treatment planning factors that are important in the successful application of clinical dosimetry in support of quality patient care.
4. to help practitioners understand the rationale, technical requirements, and clinical applications of new developments in radiotherapy treatment planning.
5. to improve the quality of radiotherapy services provided to cancer patients in the ARASIA member states.

International Speakers

1. Jacob VAN DYK, M.Sc., FCCPM, ABR, ABMP

Professor, University of Western Ontario, London, Ontario, Canada
Manager, Physics and Engineering
London Health Sciences Centre
London Regional Cancer Program
790 Commissioners Road. E.
London N6A 4L6, Ontario, Canada
Tel.: 001 519 6858500 58607; Fax: 001 519 6858658
Email: jake.vandyk@lhsc.on.ca

2. Eduard GERSHKEVITSH, Ph.D.

Medical Physicist
Estonian Radiation Protection Centre (EKK)
North Estonia Regional Hospital, Cancer Centre
Radiotherapy Department
Hiiu Street 44, 11619 Tallinn, Estonia
Tel.: 00372 6172451; Fax: 00372 6172303
Email: eduardger@yahoo.co.uk

3. Stanislav VATNITSKY, Ph.D.

Professor, Loma Linda University, California, USA
Medical Physicist, International Atomic Energy Agency
Department of Nuclear Sciences and Applications
Division of Human Health
Dosimetry and Medical Radiation Physics Section
Wagramerstrasse 5, Postfach 100, 1400 Wien, Austria
Tel.: 0043 1 2600 21660; Fax: 0043 1 26007
Email: S.Vatnitsky@iaea.org; Internet: <http://www.iaea.org>

4. Slobodan Devic, Ph.D., FCCPM

Medical Physicist
McGill University
Department of Medical Physics
Montreal General Hospital
1650 Avenue Cedar, Montreal, Quebec H3G 1A4
Canada
Phone: (514) 934-1934 (Ext. 44160); Fax: (514) 934-8229
Email: devic@medphys.mcgill.ca

COURSE ORGANIZERS



International Atomic Energy Agency (IAEA)
Vienna, Austria



King Abdulaziz City for Science and Technology (KACST),
Riyadh, Saudi Arabia



King Faisal Specialist Hospital and Research Centre, (KFSH&RC),
Riyadh, Saudi Arabia

ON-SITE REGISTRATION

All participants are requested to sign in and pick up training course material at the Registration/Information Desk located at the Prince Salman Auditorium Foyer, Research Centre Building, KFSH&RC.

ACCREDITATION

This training course activity is accredited by the International Atomic Energy Agency (IAEA), Vienna, Austria. In addition, the KFSH&RC will seek approval by the Saudi Commission for Health Specialties and the American Academy of Continuing Medical Education for Continuing Medical Education (CME) credit hours.

CERTIFICATE OF ATTENDANCE

Certificates of Attendance will be provided by IAEA. These will be awarded to participants during the training course closing ceremony.

ACCOMMODATION AND TRANSPORTATION

Hotel reservations will be arranged by the Biomedical Physics Department of the King Faisal Specialist Hospital & Research Centre for non-local speakers and participants. The Department will advise of hotel and transportation details.

VISA PROCESSING

Non-local lecturers and participants will require a visa to visit the Kingdom of Saudi Arabia. In such cases, the King Abdulaziz City for Science and Technology and King Faisal Specialist Hospital and Research Centre will assist IAEA approved participants and lecturers respectively in the visa issuance process.

Local Speakers

- 1. Belal Moftah, Ph.D, MCCPM**
Chairman, Biomedical Physics Department
Head, Radiation Physics
Biomedical Physics Department, MBC#03
King Faisal Specialist Hospital and Research Centre
P.O. Box 3354
Riyadh 11211, Saudi Arabia
Tel. No. 00966-1-4427714 or 4427869
Fax No. 00966-1-4424777
Email: bmoftah@kfshrc.edu.sa
- 2. Waleed Al-Najjar, Ph.D., ABR, ABMP**
Chief Medical Physicist
Biomedical Physics Department, MBC#03
King Faisal Specialist Hospital and Research Centre
P.O. Box 3354
Riyadh 11211, Saudi Arabia
Tel. No. 00966-1-4647272 Ext. 32949
Fax No. 00966-1-4424777
Email: walnajjar@gmail.com
- 3. Michael Lim, CMD**
Chief Medical Dosimetrist
Head, Clinical Dosimetry and Treatment Planning Unit
Biomedical Physics Department, MBC#03
King Faisal Specialist Hospital and Research Centre
P.O. Box 3354
Riyadh 11211, Saudi Arabia
Tel. No. 00966-1-4647272 Ext. 32954
Fax No. 00966-1-4424777
Email: mikelflim@hotmail.com

Opening Ceremony Program

Date: Saturday, 19 April 2008
Venue: Prince Salman Auditorium

- 0800 – 0835 **Breakfast**
at the Prince Salman Auditorium Foyer
- 0835 – 0840 **Recitation of the Holy Quran**
Dr Mohammed Samman
Scientist, Research Centre, KFSH&RC
- 0840 – 0845 **Opening Remarks**
Dr Belal Moftah
Course Director
Chairman, Biomedical Physics Department
Research Centre, KFSH&RC
- 0845 – 0850 **KACST Director Address**
Dr Khaled Aleissa
Director, Atomic Energy Research Institute
King Abdulaziz City for Science and Technology
- 0850 – 0855 **RC Executive Director Address**
Dr Sultan T. Al-Sedairy
Executive Director, Research Centre, KFSH&RC

Acknowledgement

We are grateful to many people who have worked hard to make this training course possible. The IAEA and KACST provided expert guidance and planning for the event. The international and local speakers for their expertise and excellent program being presented. We would like also to thank those at the KFSH&RC who have provided assistance in arrangements and logistics necessary to host this training course, especially the Research Centre Administration, Training & Education Office, Scientific Information Office, Academic and Training Affairs, Administrative and Financial Services, Audiovisual Services, , Housekeeping Services, Safety, Security and Communications, Information and Technology Affairs, Transportation Services, Photographics Department, Manpower Services (Visa Section), Public Relations, Radiation Oncology, Radiation Therapy, Reprographics Department, and the Biomedical Physics Department staff for their efforts and hard work in completing all preparations necessary for this program activity.

A special word of gratitude goes to the following participating companies for their valuable contributions:

1. Advanced Medical System (Nucletron)
2. Al-Faisaliah Medical Systems (BrainLab)
3. Attieh Medico (Pinnacle)
4. CMS GmbH, Germany
5. House of Medicine (Varian Medical Systems)

We are thankful for the continued support from the KFSH&RC management:

Dr Qasim Al-Qasabi, Chief Executive Director, KFSH&RC-Riyadh
Dr Sultan T. Al-Sedairy, Executive Director, Research Centre
Dr Futwan Al-Mohanna, Deputy Executive Director, Research Centre

Local Participants

10. Dr Zenaib El-Taher Mounir HASSAN

King Faisal Specialist Hospital and Research Centre,
P.O. Box 40047
Jeddah 21499
Saudi Arabia
Tel.: 00966 2 640 2000 Ext. 17449
Fax: Fax: +966 2640 8047
Email: zhassan@kfshrc.edu.sa or zeinab_el_taher@hotmail.com

11. Mr Ahmed NOBAH

King Faisal Specialist Hospital and Research Centre
Takhsussi Road
P.O. Box 3354
Riyadh 11211
Saudi Arabia
Tel.: 00966 1 464 7272 Ext. 32943
Fax: 00966 1 442 4777
Email: Anobah@kfshrc.edu.sa

12. Mr Abdelqader Mohammed AUDEH

Dr Erfan and Bagedo General Hospital
P.O. Box 6519, Jeddah
Saudi Arabia
Tel.: 00966 2 6820022
Fax: 00966 1 6917747
Email: M_AUDEH74@hotmail.com

Activity Schedule

Saturday, 19 April 2008 Day 1

0730 - 0800 Registration (Venue: Prince Salman Auditorium)
0800 - 0835 Breakfast
0835 - 0900 Opening Ceremony

LECTURE SESSIONS

(Venue: Research Centre Room #304)

0900 - 0930 Introduction and Welcome
Presenters: *International and local Speakers*

0930 - 1030 Clinical Treatment Planning Process in Radiation Therapy
and Role of Treatment Planning System (TPS)
Presenter: *J. Van Dyk*

1030 - 1100 Coffee Break

1100 - 1200 IAEA Activity in QA in Radiotherapy. Accidental
Exposures in Radiotherapy Related to TPS and
Lessons Learned
Presenter: *E. Gershkevitsh*

1200 - 1300 TRS Components: Hardware, Software, Image Acquisition
and Fusion - Presenter: *J. Van Dyk*

1300 - 1400 Lunch Break

1400 - 1500 Commissioning: System Set-up and Machine Source
Configuration Patient Data Acquisition and Simulation
Presenter: *B. Moftah*

1500 - 1515 Coffee Break

1515 - 1600 Dosimetric Commissioning: External Beams
Presenter: *B. Moftah*
-- End of Session --

1800 - 2200 **Hospitality Event:
Reception/Gala Dinner – Riyadh Marriot Hotel**

Activity Schedule

Sunday, 20 April 2008 Day 2

LECTURE SESSIONS

(Venue: Research Centre Room #304)

- 0800 - 0830** IAEA Acceptance and Clinical Commissioning Protocol
Presenter: S. Vatnitsky
- 0830 - 0930** Commissioning of RTPS with Brachytherapy Option
Lecturers: B. Moftah/S. Devic
- 0930 - 1000** Coffee Break
- 1000 - 1100** Quality Assessment and Quality Management of Treatment Planning Process
Presenter: J. Van Dyk
- 1100 - 1200** Plan Output, Data Transfer and Plan Evaluation Tools Quality Assurance. Periodic Quality Control of TPS
Presenter: E. Gershkevitch
- 1200 - 1300** Lunch Break
- 1300 - 1400** Dimensionality of Dose Calculation Algorithms
Presenter: J. Van Dyk
- 1400 - 1445** Patient Specific Quality Assurance and MU/Treatment Time Calculations and Validation of Treatment Plans
Presenter: E. Gershkevitch
- 1445 - 1500** Coffee Break
- 1500 - 1600** Advanced Special Application in RTPS: Inverse Planning and Optimization.
Presenter: B. Moftah
- End of Session --
- 1800 - 2100** **Mini-Symposium**
(Venue: King Abdulaziz City for Science and Technology)

Local Participants

- 7. Dr Abdul Hamid AL-SAOUDI**
King Abdulaziz Medical City
P.O. Box 9515
Jeddah 21423
Saudi Arabia
Tel.: 00966 2 6240000 Ext. 24078
Fax: 00966 2 6240000 Ext. 24078
Email: saoudia@ngha.med.sa
- 8. Mr Fareed MAHYOUB**
King Faisal Specialist Hospital and Research Centre
Takhsussi Road
P.O. Box 3354
Riyadh 11211
Saudi Arabia
Tel.: 00966 1 442 7879
Fax: 00966 1 442 4777
Email: fmahyoub@kfshrc.edu.sa
- 9. Ms Manal AWIDH**
King Faisal Specialist Hospital and Research Centre
Takhsussi Road
P.O. Box 3354
Riyadh 11211
Saudi Arabia
Tel.: 00966 1 4647272, Ext. 32952
Fax: 00966 1 442 4777
Email: f93396@kfshrc.edu.sa

Local Participants

4. Ms Sarah ASHMEG

King Faisal Specialist Hospital and Research Centre
Takhsussi Road
P.O. Box 3354
Riyadh 11211
Saudi Arabia
Tel.: 00966 1 464 2727
Email: sarahashmeg@yahoo.com

5. Dr Tarek EL-KAISSI

King Faisal Specialist Hospital and Research Centre
Takhsussi Road
P.O. Box 3354
Riyadh 11211
Saudi Arabia
Tel.: 00966 1 442 7879
Fax: 00966 1 442 4777
Email: tarekcc@gmail.com

6. Ms Wedyan SAFAR

King Faisal Specialist Hospital and Research Centre
Takhsussi Road
P.O. Box 3354
Riyadh 11211
Saudi Arabia
Tel.: 00966 1 442 7714
Fax: 00966 1 442 4777
Email: wsafar@kfshrc.edu.sa

Activity Schedule

Monday, 21 April 2008 Day 3

PRACTICAL SESSIONS

(Venue: Radiation Physics Area, New Oncology Bldg)

0800 - 0930	Practical Sessions: Introduction and Group Distribution – Instructors <i>Instructors: S. Vatnitsky/ E. Gershkevitch/J. Van Dyk/S. Devic B. Moftah/W. Al-Najjar/M. Lim</i>
0930 - 1000	Coffee Break
1000 - 1200	CT Scanning for CT/ED CD Scanning for TP <i>Instructors: S. Vatnitsky/ E. Gershkevitch/J. Van Dyk/ S. Devic/W. Al-Najjar</i>
1200 - 1300	Lunch Break
1300 - 1445	Calculations in Groups <i>Instructors: S. Vatnitsky/ E. Gershkevitch/J. Van Dyk/ B. Moftah/W. Al-Najjar/M. Lim</i>
1445 - 1500	Coffee Break
1500 - 1600	Measurements/Calculations <i>Instructors: S. Vatnitsky/ E. Gershkevitch/J. Van Dyk/ S. Devic B. Moftah/W. Al-Najjar/M. Lim</i>
	-- End of Session --
1630 - 1800	Field Trip/Visit to King Abdulaziz Museum <i>Tour Guide: KFSH&RC Public Relations Bus Pick-up/Assembly at the New Oncology Bldg Entrance</i>

Activity Schedule

Tuesday, 22 April 2008 Day 4

PRACTICAL SESSIONS

(Venue: Radiation Physics Area, New Oncology Bldg)

0800 - 0930	Calculations in Groups <i>Instructors: S. Vatnitsky/E.Gershkevitsh/S. Devic B. Moftah/W. Al-Najjar/M. Lim</i>
0930 - 1000	Coffee Break
1000 - 1200	Measurements/Calculations (cont.) <i>Instructors: S. Vatnitsky/E.Gershkevitsh/S. Devic B. Moftah/W. Al-Najjar/M. Lim</i>
1200 - 1300	Lunch Break
1300 - 1445	Measurements/Calculations (cont.) <i>Instructors: S. Vatnitsky/E.Gershkevitsh/S. Devic B. Moftah/W. Al-Najjar/M. Lim</i>
1445 - 1500	Coffee Break
1500 - 1600	Measurements/Calculations (cont.) <i>Instructors: S. Vatnitsky/E.Gershkevitsh/J. Van Dyk B. Moftah/W. Al-Najjar/M. Lim</i>

-- End of Session --

Local Participants

- 1. Mr Md. Abdullah AL KAFI**
King Faisal Specialist Hospital and Research Centre
Takhsussi Road
P.O. Box 3354
Riyadh 11211
Saudi Arabia
Tel.: 00966 1 442 7879
Fax: 00966 1 442 4777
Email: mal-kafi@kfshrc.edu.sa
- 2. Ms Eman AL SULAIMANI**
King Faisal Specialist Hospital and Research Centre
Takhsussi Road
P.O. Box 3354
Riyadh 11211
Saudi Arabia
Tel.: 00966 464 7272 35052
Fax: 00966 442 4777
Email: ealsulaimani@kfshrc.edu.sa
- 3. Dr Khalid ALYOUSEF**
King Fahad National Guard Hospital
P.O. Box 30405
Riyadh 11477
Saudi Arabia
Tel.: 00966 1 2520088 17198
Fax: 00966 1 20520089
Email: yousefk@ngha.med.sa

International Participants

8. Mr Naji ALAMAH

Ministry of Public Health
Al-Gamhouri Teaching Hospital
National Oncology Center (NOC)
P.O. Box 1274
Sana'a
Yemen
Tel.: 00967 1 259159
Fax: 00967 1 259460
Email: nagi122@hotmail.com

9. Mr Mogib Ahmed Mohamed AL-MAKDAD

Ministry of Public Health
Al-Gamhouri Teaching Hospital
C/o National Atomic Energy Commission
P.O. Box 2261
Sana'a
Yemen
Fax: 00967 1 259460
Email: almakdadan@yahoo.com

10. Mr Abdo Abdulla Ali AL-QUBATI

Ministry of Public Health
Al-Gamhouri Teaching Hospital
C/o National Atomic Energy Commission
P.O. Box 2261
Sana'a
Yemen
Tel.: 00967 1 1715663

Activity Schedule

Wednesday, 23 April 2008 Day 5

PRACTICAL SESSIONS

(Venue: Radiation Physics Area, New Oncology Bldg)

0800 - 0930	Measurements/Calculations <i>Instructors: E Gershkevitsh/S. Devic/ B. Moftah/W. Al-Najjar/M. Lim</i>
0930 - 1000	Coffee Break
1000 - 1200	Evaluation of Practical Sessions <i>Instructors: E. Gershkevitsh/S. Devic S. Devic/B. Moftah/W. Al-Najjar/M. Lim</i>
1200 - 1300	Lunch Break
1300 - 1445	Course Evaluations, Conclusions and Recommendations <i>Instructors: E. Gershkevitsh/S. Devic S. Devic/B. Moftah/W. Al-Najjar/M. Lim</i>
1445 - 1500	Coffee Break
1500 - 1600	Closing Ceremony (Awarding of Certificates) <i>Venue: Research Centre Room #304</i>

International Participants

- 1. Mr Shaker ABOOD**
Radiology Hospital & Nuclear Medicine
Salman Faeiq
P.O. Box 3506
Baghdad, Iraq
Tel.: 00964 1 7196056
Email: nlo_iraq@most.gov.iq
- 2. Mr Riyadh HAMOODI**
Radiology Hospital & Nuclear Medicine
Salman Faeiq
P.O. Box 3506
Baghdad, Iraq
Tel.: 00970 442 1734
Email: nlo_iraq@most.gov.iq
- 3. Mr Inad HADDADIN**
King Hussein Cancer Center
Queen Rania Al Abdullah Street
P.O. Box 1269
Amman 11941
Jordan
Tel.: 00962 6 5300460
Fax: 00962 6 5353001
Email: ihaddadin@khcc.jo
- 4. Mr Fadi MOHAMMAD**
King Hussein Cancer Center
Queen Rania Al Abdullah Street
P.O. Box 1269
Amman 11941
Jordan
Tel.: 00962 64775 111
Fax: 00962 65342567
Email: Fadi2377@hotmail.com

International Participants

- 5. Dr Wassim JALBOUT**
American University of Beirut (AUB)
Medical Center
P.O. Box 11-0236
Beirut
Lebanon
Tel.: 00961 1 344839
Fax: 00961 1 370795
Email: wj01@aub-edu.lb
- 6. Dr Fawaz DEIRAWAN**
Al-Biruny University Hospital
Al Mezzah
P.O.Box 3905
Damascus
Syrian Arab Republic
Fax: 00963 11 3346456
Email: deirawan@mail.sy
- 7. Mr Bassam JAWISH**
Al Bassel Heart Institute
Department of Nuclear Medicine
Dummar Housing 9th block
P.O. Box 3128
Damascus
Syrian Arab Republic
Tel.: 00963 11 2119100
Fax: 00963 11 2119984
Email: bassamy@scs-net.org