



## ***BRACHYTHERAPY WORKSHOP***

### **Target Audience:**

This workshop is aimed at physicists and radiation oncologists with interest in Brachytherapy. Basic knowledge of radiation oncology and radiation physics is a prerequisite.

### **Workshop Description:**

In the last decade the world has witnessed an exponential growth in the advancement of medical imaging technology and radiation therapy as a whole. With its clinical and dosimetric advantages, this growth has facilitated the migration from 2D Brachytherapy to 3D image guided Brachytherapy. During this workshop we shall review the Clinical and Physics aspects in the implementation of a 3D image guided HDR Setup.

The workshop will include 2 lectures, 2 planning sessions for gynecologic brachytherapy and a quality assurance session.

Treatment simulation and QA will be on our Nucletron microselectron v3(18) Afterloader while Planning will be demonstrated on our Oncentra 4.3 that's equipped with applicator libraries.

We shall have a quiz at the end of the workshop!

### **Learning Objectives:**

Upon completion of this course, attendees should be able to:

1. Demonstrate an understanding of the clinical indications for HDR Brachytherapy.
2. To apply and implement the principles of image guidance into brachytherapy practice.
3. Have a general understanding of the quality assurance principles associated with HDR Brachytherapy.

Date	Venue	Time	Lecture
Wed 19 Feb 2014	Biomedical Physics Conference Room	13:45 - 1405	<b>Brachytherapy for Gynecology: Clinical Aspects</b> <i>Rana Mahmood</i>
		1405 - 1425	<b>Adapting HDR brachytherapy for unusual anatomy of gynecological malignancies</b> <i>Majid Mohiuddin</i>
		1425 - 1445	<b>Image guided brachytherapy,</b> <i>Slobodan Devic</i>
		1445 - 1505	<b>Comparison between the miniature HDR Brachytherapy sources Co-60 and Ir-192 used in the MultiSource HDR Brachytherapy Afterloader</b> <i>Joop Bokhorst</i>
		1505 - 1525	Discussion
		1530 - 1600	Prayer and Coffee Break
		1600 - 1700	Planning
Thu 20 Feb 2014	HDR Brachytherapy Suite	0800 - 1000	Quality Assurance 1
		1000 - 1030	Break
		1030 - 1100	Quality Assurance 2
		1100 - 1230	Treatment Simulation

***\*Certificates will be distributed on THURSDAY 20 FEB 2014***

### **CONTACTS:**

**Umar Mwidu, MSc, Workshop Coordinator** Biomedical Physics Department

**Hospital Cell: 00966555790242**

**Email: [umwidu@kfshrc.edu.sa](mailto:umwidu@kfshrc.edu.sa)**

**Josie Vasquez, Secretary,** Radiation Oncology department

**Telephone No: 011-464 -7272 Ext: 24969**

**Email: [vasquezj@kfshrc.edu.sa](mailto:vasquezj@kfshrc.edu.sa)**