MOSFET news
MOSFET Quarterly Newsletter
Issue 28 | April 2010
Best® medical canada

SPRING/SUMMER SALE!

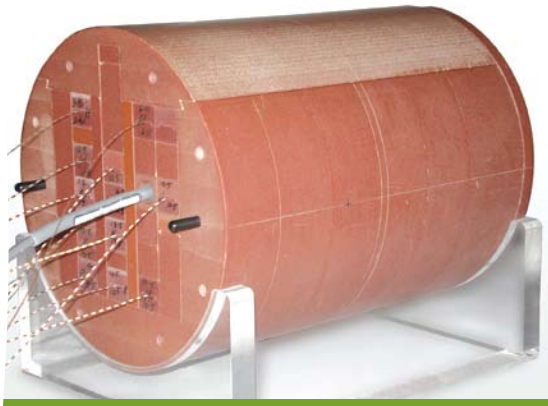
Best Medical Canada would like to celebrate the warm weather with a sale! Now is the time to buy a patient dose verification system as we are currently offering discounts that will be in effect from April 1, 2010 until Sept. 1, 2010. Contact our sales team for more information at bmcinfo@teambest.com or by calling 613-591-2100.

Below: IMRT/IGRT Phantom

BMC Collaborating with Princess Margaret Hospital

As we continue to work on a variety of projects, we would like to share some information about a new type of Phantom in the works. This IMRT/IGRT phantom was designed by a group at the Princess Margaret Hospital in Toronto, Ontario, Canada. A solid water phantom that is cylindrical in shape, its geometry is important in IMRT and IGRT validation procedures as it allows the user to test any gantry angle of interest. Coupled with Best Medical Canada's MOSFET dosimeters, which are isotropic for 360˚ +/- 2%, the user can obtain precise dose validation data, easily and reliably.

The phantom is modular, containing many separate pieces within the cylindrical shell. This allows users to adapt the phantom to their specific needs. The standard phantom comes with positions for five standard MOSFET dosimeters and one single point ion chamber. The positions for these dosimeters can be shifted easily, thereby adapting to the constantly changing needs of any institution. Look for more information regarding the Margaret Phantom at upcoming conferences or contact BMC directly.



Below: mobileMOSFET System

Using the MOSFETs for IMRT Plan Verification

Reliable and efficient MOSFETs are well suited for Quality Assurance in IMRT programs because they provide quantitative dose measurements. Due to their small size and excellent isotropic response, MOSFETs can be positioned for treatment planning QA of IMRT procedures. A study** using the mobileMOSFET system was tested for reproducibility, linearity, sensitivity, long-term performance, and angular dependency. It was found that the fixed configuration MOSFET module, embedded in a specially designed phantom, allows simultaneous multiple point dose measurements and provides efficiency in the quality assurance process.

**Image Guided High Definition Dosimetry IMRT Plans Using the mobileMOSFET System M Amin, B Norrlinger, R Heaton* and M Islam* Department of Radiation Physics, Princess Margaret Hospital, University Health Network, *University of Toronto, Canada

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mobileMOSFET Software Revision Available Online

If you have a mobileMOSFET system that was purchased less than two years ago, please take a moment to visit our users site at www.mosfet.ca and download software version 2.4.1 for the mobile system. For the required password, contact Amanda at ext. 2721 or Holly at ext. 2735

PRODUCT PROFILE (PRELIMINARY)

mobileMOSFET-MU2Net Interface

A feature that many of our users would like to see added to the mobileMOSFET system software is the ability to directly transfer the resulted dose values from their dosimetry report to their hospital database rather than having to manually type the results. Another request is to have the patient ID and Treatment Settings information automatically retrieved from their database and transferred into the mobileMOSFET software window.

Currently, it is not possible to use a single interface to communicate to all existing radiotherapy databases. For this reason, BMC has been working on adding a database-interface functionality to the mobileMOSFET software. BMC has joined forces with the DOSIsoft Company to figure out a solution using “midware” in order to provide a universal interface to all existing databases. The “midware” named MU2Net is a data exchange and storage system for radiotherapy applications. It provides a database and a web server which can be used with a variety of radiotherapy systems/equipment, such as R&V, TPS, PACS and client terminals.

These types of changes to our software will reduce the time of data entry and dose recording activities and will also decrease the chance of errors occurring from manual operation. We are pleased to report that the beta version mobileMOSFET software with the MU2Net interface is currently undergoing internal verification and clinical validation. Watch for updates on the progress of this exciting software feature in future newsletters.

CUSTOMER SURVEY

At Best Medical Canada we are always interested in customer feedback.We have encouraged our customers to let us know how they are using the system and what they like about our products, as well as what they would like to see improved.

Historically a mobileMOSFET system has included a pack of five standard reinforced dosimeters (TN-502RD-H). For the past year a mobile system sale has also included a pack of two high sensitivity reinforced dosimeters (TN-1002RD-H) and pack of two microMOSFET dosimeters with radio-opaque marker (TN-502RDM-HRO). We would like to know if you think this has been a beneficial addition to our system package. If you have purchased a system after 2008, please take a moment to fill out our online survey at www.mosfet.ca and receive 10% off your next purchase.

UPCOMING EVENTS

COMP 2010 Ottawa, ON June 16–19, 2010

We are excited that COMP is being held in our hometown of Ottawa, Ontario. Please stop by our booth and let us know what you’re working on or what products you may be looking for.

June 2010

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17 COMP	18	19
20	21	22	23	24	25	26
27	28	29	30	1	2	3

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