### Case Study of the Inadequacy of CT Screening for AccuBoost (Cont.)

prone position than those in the supine position as the breast tissue flows forward and is separated from the chest wall. Images taken in both C-C and M-L directions for this case study (Figures B & C) clearly show a more anterior target easily allowing for adequate posterior coverage of the target volume for AccuBoost. The availability of the Wedge Applicator upgrade, described in this newsletter, is an additional enabling option to provide treatment of challenging cases involving posterior lesions.

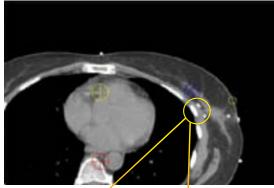
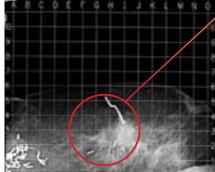
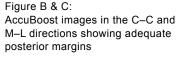


Figure A: CT image of a patient in supine position. Posterior surgical clips appear at the chest wall









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POSTAGE





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# AccuBoost® **Booster Club**

#### Notes from the Editor:

With each issue AccuBoost is gaining more traction and is measurably more popular among radiation oncology facilities that take pride in offering the best options for their patients. This issue reports on the latest AccuBoost developments: new installations, new staff, an upcoming AccuBoost APBI Webinar. and participation in tradeshows and conferences. The case-study presented provides yet another confirmation that CT simulations are often misleading for patient selection for AccuBoost.

The main feature is the coverage of the new generation "Wedge AccuBoost applicators" with a tapered and beveled posterior edge - especially designed for coverage of posterior tumor beds.

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#### **New AccuBoost Installations:**

There have been many new installations recently. Some of these additions include:



St Agnes Hospital in Baltimore is the only site in Maryland to offer the AccuBoost procedure. Dr. Richard Hudes, Chief of Radiation Oncology at this site, made the following observation at the time of the procedure launch: "AccuBoost is an elegant way of delivering the partial breast dose." Dr. Hudes added "It is not the simplicity of the of "The Technology You Technology. Michael treatment but rather the Need and the Care You Kos, MD, spearheads elegant streamlining of the complex steps of targeting and treatment vations for the benefit together that impress- of its patients. ICI Leeses me." Dr. Hudes and burg started patient his team, shown in the treatment in October of picture, began patient 2013. The effort at this



Intercommunity Cancer Centers of Leesburg is the most recent center to begin delivering clinical treatments



The AccuBoost team at Saint Agnes Hospital: From left, standing: John Weiffenbaer, Dr. Richard Hudes, RTT, Mark Hall, physicists Shahid Nagvi, & Gui Minzhi, RTT, Amanda Isac, RTT Seated: Debbie Roulands, RTT, Fabjola Cangonji RTT, and Lisa Alley, RTT

offering the latest inno- this site. treatment in September. site is headed by Dr. Alison Calkins - board certified radiation oncologist.

> **Northern Nevada Radiation Oncology**

Northern Nevada Radiation Oncology of

in Florida. This Vantage Reno is the first facil-Oncology facility, oper- ity in northern Nevada ating under the banner to offer the AccuBoost Deserve" takes pride in AccuBoost efforts at

Cont. on next page..



#### AccuBoost at **ACRO Booth No. 15**

Visit us at the 2014 **ACRO Annual Meeting** February 27- March 1 in Orlando, Florida,

#### **New Addition** to the Team



Kimberly Cherelli has just joined the AccuBoost team as the Manager of Clinical Support. Kim has over 20 years of clinical experience in radiography and mammography and has served in various hospital positions.

In her capacity as Manager of Clinical Support, Kim will be travelling to existing AccuBoost sites to provide continued training in patient selection and positioning in challenging Her enthusiasm to communicate the benefits of the AccuBoost procedure combined with the ability to "read" x-ray images and experience in patient positioning is highly valuable to both the new and established AccuBoost users. Kim will be scheduling regular visits to AccuBoost facilities to share the latest techniques and newest lessons learned about managing difficult cases.

### **AccuBoost New Installations (Cont.)**

# Vantage:: Oncology

cology in Flushing and Brooklyn Radiation Oncology are two Vantage Oncology facilities in the greater New York City area that have started offering the AccuBoost procedure. Drs. May Lim and Paul Gliedman are the Medical Directors and primary breast treatment providers at the Northern Boulevard, and Brooklyn facilities, respectively.



Northern Boulevard Radiation On- Riverside Cancer Care Center of Newport News, Virginia is another stateof-the-art, community-based radiation oncology facility with multiple offices in Virginia that has committed to make the AccuBoost procedure available for the benefit of patients in Southeast Virginia. Radiation oncologists, Melva Penn-Bingham, Joseph Layser and Veronica Eisen are primarily responsible for the AccuBoost treatments at this site.

## **Upcoming AccuBoost APBI Webinar**



Varian BrachyTherapy Group, is sponsoring a Webinar at 1 PM EST on February 24. The Webinar by Jaroslaw Hepel, M.D. from Rhode Island Hospital/ Brown University reviews the state-ofthe-art technology of AccuBoost as the non-invasive alternative to other procedures that offer a short course of therapy of partial breast irradiation, otherwise known as APBI (Accelerated Partial Breast Irradiation).

Dr. Hepel and his colleagues at 3 different institutions have recently completed a Phase I/II, FDA approved protocol involving 40 patients. The study involves delivering the APBI dose via the non-invasive, imagebreast brachytherapy guided [AccuBoost] procedure. The patients

AccuBoost, in cooperation with the in the study have been closely monitored and the clinical outcome for this group of patients is the subject of the upcoming seminar. The registration for the Webinar is accessible from the Varian website myvarian.com/webinars The webinar will be recorded and will be posted shortly thereafter on the AccuBoost website and accessible at www.accuboost.com/webinar feb 2014.





# **AccuBoost at ABS**

AccuBoost will be exhibiting at the ABS annual meeting held in San Diego, April 3–5. There will be numerous presentations on the AccuBoost procedure at this year's meeting.

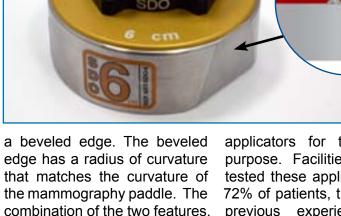
# Issue 26, January 2014

# **AccuBoost Launches New Generation "Wedge" Applicator**

One of the challenges for AccuBoost has been providing adequate posterior coverage for deep seated tumor beds especially a concern for large breasts and lesions located close to the chest wall. Up to this point, many patients who would have been perfectly suitable candidates for AccuBoost were excluded from treatment based on the fear of inadequate coverage of posterior margins. The new generation "Wedge Applicators" are designed to address this concern.



The Wedge Applicators, as shown in the diagram, have a slanted posterior wall with



the mammography paddle. The combination of the two features, allows for the applicator to be placed closer to the chest wall and gain an additional 5 mm of posterior range. Both the round and D-shape applicators incorporate this new wedge feature in their design.

These applicators have been distributed on a limited scale to date. Field reports clearly indicate the utility of these the new design.

applicators for the intended purpose. Facilities that have tested these applicators report 72% of patients, that based on previous experience, would have been excluded from treatment were successfully treated with AccuBoost.

The Wedge Applicators are being distributed as a substitute to the traditional applicators. AccuBoost facilities requested to return the original hardware once they have received and commissioned

# Case Study of the Inadequacy of CT Screening for AccuBoost

Previous newsletters have The CT image of the patient AccuBoost, the images as pointed out the misleading presented on the next page appearance of tumor beds, as shows that the clips, placed to seen in CT simulations. The mark the posterior edge of the case study presented here surgical bed, to be abutting provides yet another example the chest wall, thus, seemingly that CT simulation in the supine grounds for disqualifying the position is not appropriate for patient selection for AccuBoost where posterior targets are same patient is positioned in concerned.

patient for the AccuBoost treatment. However, when the a mammography set up for

presented on the next page. show plenty of posterior margin for the patient to qualify for the AccuBoost procedure.

The breast images from the AccuBoost system, where the patient is in a standing or sitting position, are more similar to breast CT Images taken in the

Cont. on next page..