Company Profile
Investor Relations
News Center
News
Speeches and Publications
Webcasts
Media Resources
Media Contacts

Research
Design
Sustainability
Careers
Company Contacts

Philips showcases advanced imaging integration in electrophysiology at Boston Atrial Fibrillation Symposium 2013

January 17, 2013

- Philips provides a novel approach to real-time 3D imaging of cardiac structures with significantly improved workflow

- Philips collaborates with Biosense Webster to provide enhanced anatomical detail in the Biosense Webster CARTO®3 Mapping System

Boston, Mass., USA – Today at the Boston Atrial Fibrillation (AF) Symposium 2013, Philips Healthcare is introducing its latest innovations in advanced imaging integration for electrophysiologists, showcasing its new EP navigator offering - a novel approach to 3D rotational angiography that provides real-time anatomical details of cardiac LA-PV structures with significantly enhanced workflow.

Furthermore, under the terms of a new agreement with Biosense Webster, Philips plans to offer integration of Philips Allura X-ray images with the CARTOALARA™ Module of Biosense Webster's CARTO® 3 Electroanatomical Mapping System, providing enhanced anatomical detail and orientation for electrophysiologists performing catheter ablation procedures.

Advanced real-time 3D imaging

For hospital teams working in catheter ablation, capturing the best anatomical detail possible at time of procedure is essential to accurately guide catheters through the anatomy of a beating heart. Philips' EP navigator system provides a novel approach to 3D rotational angiography to capture these images, delivering an alternative to pre-procedural CT/MR imaging to obtain the LA-PV anatomy.

Obtaining 3D rotational images can be challenging when treating large patients or performing procedures under general anesthesia. Philips' new EP navigator supports an optimized 3D rotational scan that significantly enhances the workflow for these procedures, by removing barriers encountered in the traditional workflow. In addition, the optimized 3D rotational scan requires less radiation exposure to capture the 3D image, as it uses a shortened trajectory of 159 degrees versus 240 degrees for the traditional scan.

"By using the EP navigator with 3D rotational scan, my patients and team gain several benefits," says Dr. Vivek Reddy, Boston AF course co-director and Director, Cardiac Arrhythmia Service, The Mount Sinai Medical Center. "Firstly, rotational angiography is getting better and better, to the point where we don't have any issues in getting good quality pictures, so it allows us to optimize workflow. I can now take a rotational image, make a 3D rendering of it and project it on to the X-ray, so that as we manipulate the catheters on X-ray, the shadows tell us where the catheter is relative to the left atrium."

Integration with mapping

To maximize the benefits of advanced X-ray imaging and mapping solutions, integration is critical. Philips and Biosense Webster are collaborating to make such integration a reality. Philips EP navigator already supports seamless integration of the LA-PV anatomy obtained through 3D rotational scans, into Biosense Webster's CARTO® 3 Mapping System.

Under the terms of the new agreement between Philips and Biosense Webster, Philips plans to offer integration of Philips Allura X-ray images with the CARTOALARA™ Module of Biosense Webster's CARTO® 3 Electroanatomical Mapping System. By unifying registered Philips X-ray images into CARTO® 3 System maps, enhanced anatomical detail and orientation are achieved within a single view.

"At Philips, we are dedicated to make a difference in the treatment of cardiac arrhythmias to improve patient outcomes and quality of life. We continue to advance the tools available to EPs, by offering innovative Live Image Guidance solutions and by collaborating with our industry partners", comments Ronald Tabaksblat, General Manager Interventional X-ray at Philips Healthcare. "Our agreement with Biosense Webster perfectly exemplifies this dedication, by allowing Philips Allura X-ray systems to seamlessly integrate with the CARTO® 3 Mapping

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Example of reduced angular 3D rotational scan

3D rotational scan capture image

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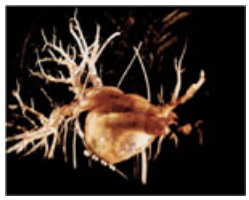
3D rotational scan volume rendering



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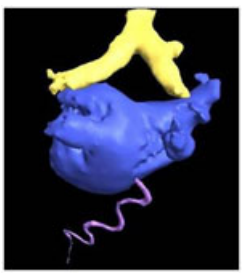
3D rotational scan volume rendering

3D rotational scan segmented mesh



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3D rotational scan segmented mesh

System."

The 18th annual Boston AF Symposium is taking place January 17-19, 2013 at The Seaport Hotel and World Trade Centre in Boston. Visit the Philips EP navigator on display at Philips' booth number 701.

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About Philips EP navigator

EP navigator is an intuitive real-time imaging system, developed by Philips, which allows the electrophysiologist to follow the precise position of catheters during navigation and AF ablation. Based on a pre-acquired CT or MR scan or an intra-procedural 3D rotational scan, EP navigator provides detailed 3D anatomy which can be overlaid onto live 2D fluoroscopy or exported to a compatible mapping system. Its utility has been demonstrated in clinical studies[1,2]. Philips' latest EP navigator with optimized 3D rotational scan provides reduced angular rotational scanning. The C-arm rotates around the patient through 159 degrees and creates a three-dimensional data set similar to a CT scan that can be read by the EP navigator.

About Royal Philips Electronics

Royal Philips Electronics (NYSE: PHG, AEX: PHIA) is a diversified health and well-being company, focused on improving people's lives through meaningful innovation in the areas of Healthcare, Consumer Lifestyle and Lighting. Headquartered in the Netherlands, Philips posted 2011 sales of EUR 22.6 billion and employs approximately 121,000 employees with sales and services in more than 100 countries. The company is a leader in cardiac care, acute care and home healthcare, energy efficient lighting solutions and new lighting applications, as well as male shaving and grooming, home and portable entertainment and oral healthcare. News from Philips is located at www.philips.com/newscenter.

References:
1 – Knecht S, *et al*. Computed tomography-fluoroscopy overlay evaluation during catheter ablation of left atrial arrhythmia. Europace. 2008; 10: 931-8.
2 – Knecht S, *et al*. Prospective randomized comparison between the conventional electroanatomical system and three-dimensional rotational angiography during catheter ablation for atrial fibrillation. Heart Rhythm. 2010; 7:459-465.

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