As the Radiological Society of North America enters its second century, the transformation of medicine that is taking place offers challenges to radiology—but it also offers great opportunities to find solutions. RSNA, radiologists and industry professionals worldwide collaborate to bring those solutions to practice. Many of those solutions aimed at meeting new challenges that are just appearing on the horizon will be on view as the radiology community gathers this week for RSNA 2015.

Radiologists struggle to find the right information necessary for diagnosis and to get reports into the hands of clinicians. At the same time, medicine is acknowledging that the siloed way in which healthcare institutions once managed patient information is no longer relevant in a world where patients move through their care pathways from facility to facility.

And, of course, as we move from a fee-for-service model to a value-based healthcare model, benchmarks and guidelines throughout the industry will call for the collection and accurate analysis of more and more complex data.

Among the companies working to provide the tools to meet these challenges is Nuance, whose PowerScribe® 360 reporting tool is in the hands of one out of two radiologists today, and whose PowerShare™ Network is a cloud-based process that ensures information—and not just images—is transferred seamlessly to an office on another floor, or to a peer on the other side of the world.

Karen Holzberger, vice president and general manager for diagnostics at Nuance, pointed out three important ways PowerScribe 360 and PowerShare Network will help the industry meet those challenges.

First is the ability of PowerScribe 360 to collect diagnostic images, then incorporate data from other sources as well—like the Radiology Information System—enabling the radiologist to efficiently enhance radiology reports and supply ordering physicians with the data they need to make better care decisions.

“Our goal,” Holzberger said, “is to provide more information into decision-making so that radiologists have all they need at their fingertips to get it back to the ordering doctor, who knows what to do next around that patient’s care pathway.”

Second is what she called the “fabric of collaboration” that the PowerShare Network can provide as it now connects 3,000 healthcare institutions, giving them “the ability to share images and information in a more meaningful way than the traditional way of starting over” each time a patient visits a new facility.

Holzberger used the example of a cancer patient who will likely be treated in tertiary care at a specialized hospital but has lived in a community and seen other healthcare providers, all of whom could provide meaningful information about his or her care—if only the specialists treating the patient had a way to retrieve it.

Finally, as the radiology community works to develop industry-wide guidelines over the next few years that will deal with the appropriateness of diagnostic testing, it will be vital to measure outcomes on a grander scale than ever before. Nuance’s solutions will be some of the tools that make that possible.

“You’ll see us start to close that loop about inbound information from the EMR and the outbound images and information,” Holzberger said.
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Neusoft Medical Systems

Cost Effective Diagnostic Utility

The NeuViz 128 is the latest innovation from Neusoft Medical Systems. By combining intelligent clinical solutions with precision design and manufacturing, cost-effective diagnostic utility is delivered to both clinicians and patients. ClearView iterative reconstruction, working in tandem with the MicroStar detector system, minimizes patient dose without compromising diagnostic image quality. By developing effective and efficient clinical applications Neusoft empowers the clinician, helping them to reduce the cost of healthcare delivery. Technology is only beneficial if clinicians can afford to provide it to their patients. *NeuViz 128 is FDA pending.

Soredex

Point-of-Care Cone Beam CT System

Soredex, the imaging system provider from Finland, showcases the point-of-care cone beam CT system SCANORA 3Dx for head and neck imaging. The system is usable from localized problems with small field of view (FOV) up to whole body imaging with extra-large FOV. The system is ideal for ENT offices, imaging centers, total care oral and maxillofacial clinics and hospitals. The system features eight user-selectable FOVs. The smallest FOV 50 x 50 mm with the highest resolution of 0.1 mm is intended for localized problems, e.g., detailed imaging of osseous chain of the middle ear. The most suitable FOV for sinus and ENT imaging is the 140 x 165 mm (HxD) that is also compatible with image-guided navigation systems. The largest FOV 240 x 165 mm (HxD) is intended for whole body examinations, e.g., follow-up of facial surgery operations.

Biomorph PACS Furniture

Dual-Surface Radiology Tables

Biomorph introduces multi-monitor Plus Series dual surface radiology tables. Through built-in ergonomics, Biomorph improves efficiency and well-being in reading rooms with multi-level, fully adjustable motorized sit-to-standing surfaces. Designed with comfort, good health and productivity in mind, Biomorph radiology furniture is available in multiple configurations to suit the most demanding users and facilities.
the world, the company is a trusted partner for leading hospitals and continues supporting treatment for more than 50,000 patients per year. The Materialise team strives to create the best tools for physicians to improve training, education and patient outcomes. Mimics inPrint, Materialise’s newest solution, radically improves the process of converting your medical image data into accurate 3D-printed models. Integrated in your workflow, the user-friendly, validated software minimizes segmentation time for dedicated scenarios. Mimics inPrint converts your segmentation into a printable model and allows modifications to support planning, all while ensuring anatomical accuracy. With Mimics inPrint you can start 3D printing today, either on your own 3D printer or through Materialise’s 3D printing services.

RSNA QUALITY ESSENTIALS AND ADVANCED LEVEL QUALITY CERTIFICATES

- Earn a Quality Essentials Certificate (QEC) by scoring 80% or higher on the SAM test at either of the following quality sessions: MSQI32 and MSQI33 on Tuesday, December 1 (Room S406B).
- Learn more about online opportunities for earning QECs and how QECs can lead to an Advanced Level Quality Certificate at RSNA.org/Quality-Improvement.

New! QI Storyboard Poster Walk, Tuesday December 1, 4:30-5:30 PM, Learning Center, Quality Storyboard Section
Join David Larson, MD, and Paul Nagy, PhD, experts in quality improvement in radiology, as they walk through the QI storyboards, highlighting examples of great work and sound methodology. Bring your walking shoes and come prepared for an interactive session. Those who are interested in leading and publishing QI projects in the coming months and years will find this especially valuable.

JMI covers fundamental and translational research and applications focused on medical imaging, which continue to yield physical and biomedical advancements in early detection, diagnostics, and therapy of disease as well as in the understanding of normal. A quarterly journal with print and online editions, JMI publishes articles online as soon as they are approved for publication and typesetting and keying are completed. JMI is indexed in PubMed, PubMed Central, and Inspec. It is under evaluation for the Web of Science. All articles in JMI are freely available through December 2015. Authors may choose to have their articles published open access or on a subscription basis.

ProScan Imaging Education Foundation
BOOTH 1300
Recredentiaing Courses on DVD
The Neuro Imaging Board and Recredentialing Review series is the latest addition to the ProScan Imaging DVD library. The videos in this series are a re-creation of ProScan’s live recredentiaing courses. They represent a hybrid of case-based learning paired with clinical review questions. The Board and Recredentialing Review series is designed to help physicians preparing for examinations of many levels. In addition to the Neuro Imaging module, the Ortho Imaging component is available as a separate series. Both modules provide a comprehensive study aid for neuro and orthopaedic imaging. Both series are available for the first time on disc at this year’s RSNA meeting.

RSNA QUALITY CERTIFICATES

Questions? Please email quality@rsna.org for more information.
a study. The user interacts with the client side of the software, performing tasks such as filtering patients in the work list, image manipulation and nodule segmentation. This advanced diagnostic platform is designed to streamline clinical decision support and integrate with enterprise PACS and vendor-neutral archives using industry-standard formats. To summarize, HealthMyne is committed to providing radiologists, and the involved patient care team, with a platform that enables disparate data aggregation, advanced data mining analytics, and seamless evidence-based reporting. (Pending FDA approval.)

Dicom Systems, Inc.
BOOTH 7209
Seamless Integration Using FHIR® Standards

FireBridge™ enables any third-party system in your enterprise imaging ecosystem to seamlessly integrate using the latest Fast Healthcare Interoperable Resource (FHIR®) standards. FireBridge translates to and from FHIR to Health Level-7 (HL7®), DICOM, or any simple system event. It makes any interface FHIR-ready and DICOMweb-enabled. Combined with DICOMweb, FireBridge lets third-party applications upload any kind of standard data to the Dicom Systems enterprise imaging suite and vendor neutral archive. FireBridge extends the useful life of your current systems by bringing them up to the latest interoperability standards. Deploy FireBridge as an FHIR proxy for radiology, cardiology, oncology, dermatology, and any other subspecialty connected to enterprise imaging. FireBridge securely connects all third party applications to the Dicom Systems vendor neutral archive (VNA) without virtual private networks (VPNs), leveraging transport layer security (TLS), in full compliance with HIPAA regulation and standards.

VortexT, LLC
BOOTH 2277
Information Overload Solution for Healthcare Professionals

VortexT® Apps are designed to solve the challenge of information overload that professionals are facing today in virtually every field of business. The VortexT Healthcare App, “The Information Overload Solution for Healthcare Professionals,” is powered by a disruptive big data analytics technology developed at our nation’s leading science laboratory, Oak Ridge National Laboratory. VortexT is not a keyword search engine like Google or Bing. Healthcare professionals select or create “profile documents” which provide the best and most complete description of the information they want to retrieve from sources globally. The VortexT engine, fueled by two patented core algorithms, analyzes each profile document to determine the most important information contained in the document. Then, VortexT pulls information gathered from global RSS feeds, sifts through millions of documents from journals, publications, periodicals and websites, and delivers only the documents that users want and need.

Digisonics
BOOTH 4951
Automated and Streamlined Radiology Workflow

Digisonics Radiology Workflow Solutions create a streamlined, fully automated electronic process from study data capture to the fast creation of structured worksheets and reports through distribution to PACS and/or the patient’s medical record. Workflow inefficiencies and manual entry errors are eliminated, ultimately improving the overall quality of patient care. The resulting radiology reports are in a structured format, which is critical to ensure that patient care documentation is accurate, consistent, completed in a timely manner and satisfies the requirements for reimbursement and accreditation.

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**BOOTH 9521**

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**QUALITY ASSURANCE/SAFETY CONTROL AND RADIATION**

Radcal Corporation
**BOOTH 2311**

**Wireless Connectivity for Hospital Environment**

Radcal is officially launching its first version of the Nugget for wireless connectivity for the Accu-Gold family of meters. Unlike other solutions, the Nugget is Wi-Fi. In the busy hospital environment, Bluetooth can be bothered with dropped transmission or connectivity due to interference from other devices. Using Wi-Fi with a direct connection to the Accu-Gold Software, V2.0 assures a secure and solid connection for your non-invasive diagnostic X-ray measurements. The Nugget simply "snaps" onto your Accu-Gold Digitizer to provide a limited useful subset of Accu-Gold functionality. To enhance the Nugget, Version 2.0 of the Accu-Gold Software is also being launched. This version has many of the same functionalities of Version 1.0, but with enhancements such as enlarged buttons for ease of use when using touch-screen displays.

**SST Group, Inc.**
**BOOTH 3254**

**Radiation Dose Monitoring Solution**

Radiation Dose Monitor (RDM) is essential for tracking and reducing patient ionizing radiation dose during radiological exams and interventional procedures. RDM allows your facility to collect, control, analyze and optimize dose with its simple, powerful, web-based interface. The RDM utilizes Dose Archive and Communication System (DACS) to store and manage a patient’s current and historical radiation dose data. RDM provides your facility throughput, real-time monitoring and alerts of all ionizing radiation events. RDM is compatible with all imaging modalities, and interfaces with all of your information systems. It fits seamlessly into any imaging network.

**RADIONOGRAPHY**

Rayence Co., Ltd.
**BOOTH 3757**

**Compact, Full Featured U-Arm**

Rayence, a worldwide leading manufacturer of digital flat panel detector solutions, is showcasing the RU-3000 Digital Universal Radiography System. This unique U-arm features a compact design with dual telescoping arm movement that permits installation in settings with ceiling heights of just eight feet. Its fully motorized movements for SID, arm rotation, height and angle can be automatically programmed to user-specific radiographic positions utilizing the intuitive touch-screen located tube side, a hand-held remote control, or by using the technologist workstation. Complemented by Rayence XmanView software, optimized image quality is achieved through the use of exam-specific algorithms and advanced image processing. Automatic stitching of up to three images is attained at the touch of a button. Complemented by a durable Bucky design with an easily removable grid, automatic collimation, patient safety anti-collision sensors, and an available mobile table, the RU-3000 is full-featured and well-suited for all imaging environments, especially orthopaedics, imaging centers and urgent care.

**Thermal Therapy Device for Cancer Treatments**

Pyxer Medical, manufacturer of thermal therapy (hyperthermia) devices for the treatment of cancer, announces a new upgrade package for the BSD-500 SuperFicial/Interstitial Hyperthermia System. This FDA-approved system is used as an adjuvant treatment to radiation therapy for cancers of the head and neck and recurrent chest wall tumors. Hyperthermia is a proven method for tumor sensitization, boosting the effective dose of radiation therapy. The system upgrade was a result of extensive market analysis and customer feedback. The upgrade includes a new pneumatic treatment arm for better applicator placement and control, a larger touchscreen monitor and intuitive user interface for improved user experience. The entire upgrade is included at no charge when combined with Pyxera’s three-year service contract.

**ULTRASONOGRAPHY**

Esaote
**BOOTH 3711**

**Virtual Biopsy Needle Tracking**

Virtual Biopsy increases your confidence during biopsy procedures, thanks to virtual tracking of the needle – helping users to reach the target quickly, precisely and safely. The physical needle is highlighted by a virtual needle on the real-time ultrasound image with complete 3D representation of the probe, scanning plane and pathway to the target. Colored targets, with regular and irregular shapes can be visualized. Intelligent positioning represents the needle tip as a fixed point in space with the target as a moving object seen by the view point from the needle tip; the needle will become a gunshot viewer. Virtual Biopsy can be used also for tracking percutaneous treatment in combination with real-time ultrasound imaging with multiple second imaging modalities (MR/CT/ PET/3D ultrasound) and several probes are available in abdominal, prostate, thyroid, breast, urology and MSK applications.

**Delphinus Medical Technologies**
**BOOTH 8010**

**Automated Whole-Breast Ultrasound**

Delphinus Medical Technologies, Inc. presents SoftVue™, a first-ever innovation in a whole breast ultrasound that produces volumetric imaging of the breast with a single scan. Delphinus is the first company to develop an ultrasound system utilizing a circular transducer to transmit and receive ultrasound signals. SoftVue captures reflection echoes from all directions around the breast and gathers transmitted signals coming through the breast, something no other currently available ultrasound system can do. SoftVue has received two 510(k) clearances from the FDA for diagnostic ultrasound imaging and is not a replacement for conventional mammmography. Delphinus begins a large multi-site clinical initiative this year to support a PMA application for a supplemental screening indication for women with dense breasts. Delphinus is committed to creating improved imaging methods to assist medical professionals define and diagnose breast disease, while establishing a better patient experience without concern of radiation or compression.
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