Nuance Communications Develops Powerful AI Tools

By Michael Hart

The University of Rochester Medical Center faced a challenge shared by many other health care institutions: Not every patient was receiving follow-up exams after incidental findings had been detected.

“The emergency department is a common site where a patient is brought in for one reason, such as chest pain, and you find a lung nodule that could represent an early cancer,” said Ben Wandtke, MD, Chief of Radiology at FF Thompson Hospital, an affiliate of the University of Rochester, New York.

Those incidental findings were typically included in the radiologists’ reports, but they didn’t always result in the appropriate follow-up.

“Incidental findings are common; however, 30 to 70 percent of follow-up recommendations are lost or never completed, the result of both systemic and technological limitations,” said Woojin Kim, MD, chief medical information officer at Nuance Communications. “Failure to follow up on these findings can lead to delayed treatment, poor patient outcomes, medicolegal issues, and lost revenue. Fortunately, work is advancing to close the loop using clinical analytics and IT solutions that significantly improve patient outcomes and radiologists’ value in overall patient care.”

The University of Rochester set out to meet this challenge by leveraging Nuance’s mPower Clinical Analytics solution to track the recommendations they made and check to see that patients weren’t falling through the cracks resulting in delayed diagnosis.

“In the past, all but the largest health systems would try to input, analyze and track that information manually,” said William Boonn, MD, chief medical information officer for Nuance Communications. An automated way to the input process was needed to drive access to data using intuitive keyword searching and analytics capabilities.”

mPower Clinical Analytics is enabling the University of Rochester to do this seamlessly and at a scale that matches their size and data needs.

“Today, we pick-up two to three times as many recommendations as we were without this tool,” noted Dr. Wandtke.

By identifying recommendations, the University of Rochester has been able to increase its recommended examination completion rate from 55 to 75 percent improving patient outcomes and reimbursements.

“This is a clear indication of how radiology can play a significant role in the future of health care. We radiologists have traditionally been episodic caregivers,” said Dr. Wandtke. “That mindset needs to change as the healthcare systems move toward a value-driven model.”

In most professions, follow-up and follow-through are essential. That’s especially true in medicine where it can have such far-reaching, literally life-saving, effects, according to Karen Holzberger, vice president and general manager of Nuance Healthcare’s Diagnostic Division. “Each of us has the capacity to create lasting good just by following up,” she said. “It’s the people with follow-through who excel. As we’ve seen from the continuing work by Dr. Wandtke, mPower Clinical Analytics can greatly enhance the ability to follow up and make a difference in health care today — and in the future.”

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nificant MRI artifact that does not interfere with MRI studies; there is no restriction on the imaging modalities that can be used effectively throughout treatment. The SCOUT system is easy to use and provides precise localization. SCOUT also improves radiology workflow and the patient experi-

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Gammex, Inc.

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Portfolio of Advanced CT QA Tools

Computed tomography QA is critical in supporting accurate screen-
ing, diagnosis and monitoring, as well as radiation therapy treatment planning. Gammex, a Sun Nuclear company, has been providing CT QA tools for 40 plus years. Recent advancements in CT have introduced lead-
ing edge QA features. In anticipation of these advancements, Gammex developed the Mercury 4.0 Phantom for QA of advanced CT features that fall outside rou-
tine QA programs. In addition, the recently released Advanced iQModules™ feature a robust suite of image quality tests, includ-
ing high-contrast resolution, low-contrast detectability, slice sensitivity, geometric evaluation and uniformity. These new modules can be used alone for unparalleled capabilities or combined with other Gammex phantoms for further value.

Neusoft Medical Systems Co., Ltd.

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CT For Dose Reduction and Pediatric Imaging

Neusoft Medical Systems offers NeuViz Glory*, its latest high-
end CT product. One key cardiac scanning is enabled by NeuViz’s 0.259s rotation speed, 25ms temporal resolution and 6cm detector coverage. Dose reduction can be achieved using NeuViz’s unique KV scanning. This can signifi-
cantly minimize radiation dose which is ideal for pediatric imaging. Unlimited tube heat capacity (effective anode heat content 300W) allows for rapid scanning tech-
niques even on large patients. NeuViz Glory offers spectral imaging employing different KV scanning technology, allowing access to the clinical potential of spectral imaging.

*NeuViz Glory is not available for sale in the United States.

Educational Products and Services

Image Gently Alliance

BOOTH 1200

Providing Safe, Quality Pediatric Imaging

The Image Gently® Alliance is a coalition of health care organizations dedicated to providing safe, high quality pediatric imaging worldwide. The primary objective of the Alliance is to raise awareness in the imaging community of the need to adjust radiation dose when imaging children. The ultimate goal of the Alliance is to change practice. The organization has developed a transformative group of campaigns to address digital radiography, fluoroscopy, interven
tional radiology, nuclear medi-
cine, computed tomography, dentistry, car
diac imaging and imaging in the setting of tumor head trauma.

Enterprise Imaging

Apollo Enterprise Imaging Corp.

BOOTH 6347

Redefining the Capabilities of the VNA

Apollo provides enterprise-wide clinical image management and workflow solutions to health care enterprises, enabling safe and secure access to DICOM or non-DICOM clinical multimedia from over 45 health care specialties. Apollo is redefining the capabilities of the VNA with its enhanced enterprise imaging solution, arc®. As the autonomous repository for clinical content, arcprovides a holistic longitudinal view of all patient data throughout the entire care continuum. At its core, arc is a VNA that aligns all clinical departments with a health system’s enterprise imaging strategy. Apollo’s arc offers today’s health care providers a holistic VNA solution that is flexible enough to work with any current PACS and strong enough to sustain your organization as it grows. The arc solution goes beyond imaging and archiving; it focuses on clinical workflows and provid-
ing interoperability and connectivity so that every department throughout the entire enterprise can acquire, manage and securely access all clinical content.

Laurel Bridge Software, Inc.

BOOTH 1329

Manage Medical Imaging Archive Data Migration/ Consolidation

Laurel Bridge Software provides solutions that enable health care providers to orchestrate their own medical imag-
ing workflows and recently announced improvements to the arc’s Migration and Consolidation Controller that enhance the ability of health care providers to internally manage and take ownership of their archive migration and consolidation requirements. The latest updates to Exodus help ensure that clini-
cian access to historical medical imaging information can be an integral part of any healthcare organization’s enterprise imag-
ing strategy. Migration and consolidation activities may be self-managed through an institution’s internal expertise or service-

Continued on page 48

Furniture

Biomorph Radiology Furniture

BOOTH 6600

Radiology Reading Table

Through built-in ergonomics, Bio-

morph improves efficiency and well-being in PACS radiology reading rooms by dealing with the physical challenges radiologists face reading files for often more than 10 hours a day. Aware of the risks of repetitive stress injuries, medical practitioners will understand the importance of the multi-level, fully adjustable sit-to-stand surfaces, creating an optimal rock-solid PACS radiology reading experience. 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.

Imaging Services

National Radiology Solutions

BOOTH 811

Custom Teleradiology Services

National Radiology Solutions is a hybrid teleradiol-
gy company, providing on-site radiologists as well as teleradiologists, specializing in servicing out-patient imaging centers, mobile imaging companies and group practices. The team of U.S.-based, board certified and fellow-
ship/subspecialty-trained radiologists are collectively equipped to read all modalities in over 30 states. A few of the many out-
of-the-box services that enhance client’s experience, include customizing services for the unique needs of each client, hiring teleradiologists and on-site radiologists for new clients, providing unique market-
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American College of Radiology

Data Science
The American College of Radiology serves patients and society by empowering members to advance the practice, science and professions of radiological care. The College’s 38,000 members are leading the evolution of radiology in the areas of advocacy, economics, informatics, clinical and health policy research and quality and safety. The American College of Radiology Data Science Institute is collaborating with radiology professionals, industry leaders, government agencies, patients, and other stakeholders to develop and implement artificial intelligence (AI) applications that will help radiology professionals provide quality patient care as a vital member of the health care team.

Mammography
Medical Scientific, Ltd.

Wireless Portable Digital Detector for Mammography Applications

The SOLO™ DMR provides a convenient upgrade solution for outdated analog equipment into a modern digital system. Based on proven CMOS Technology with a pixel size of 49.5μm, equipment can be enhanced with the full power of FFDM. The cost benefit compared to purchasing new, expensive digital mammography systems is significant. Made to fit the standard 24x30cm cassette buoyy, the SOLO DMR is compatible with most mammography units. SOLO DMR comes with a tablet based acquisition station for mobility or can be used with a fixed lab technician workstation as a permanent upgrade. Diagnose breast abnormalities quickly, precisely and efficiently using a modern doctor reading workstation, also available from Medical Scientific.

Three Palm Software

Breast Imaging Workstation Software

WorkstationOne is software for radiologists to read mammography (and related) studies and to generate corresponding reports. It provides an efficient workflow along with expert tools. Digital images including breast tomosynthesis and projections, from all vendors, with any number of pacs, are supported. WorkstationOne includes capabilities for integration with existing PACS and reporting systems, so that it can be used to upgrade a site’s capabilities (e.g., for tomosynthesis workflow) while not disturbing existing infrastructure. Recent enhancements include an advanced worklist and a plugin for 3D ultrasound (ABUS) analysis and reporting.

Interventional Radiology
Biodex Medical Systems, Inc.

Surgical C-Arm Table

The Biodex Surgical C-Arm Table 840 is engineered to achieve optimal image resolution. This table is ideal for cardiovas-

Machine Learning/Computer-Aided Diagnosis Systems

Bold Brain Ventures

Radiologists Investing in AI

Bold Brain Ventures is an investment fund that focuses on AI in radiology. AI solutions are currently being developed to rapidly advance radiology and revolutionize health care. Bold Brain Ventures brings together radiologists, innovators and capital in a collaborative approach to AI. Startups want and need radiologist involvement; engaging radiologists in this process is essential. Radiologists and others can invest in a diversified portfolio of radiology AI companies through Bold Brain Ventures, as well as provide insight to help shape the future of health care.

Lunit Inc.

Deep Learning Technology to Develop Biomarkers

Lunit Inc. is focused on applying deep learning technology to develop state-of-the-art AI-powered diagnostic and predictive imaging biomarkers. Last year, Lunit launched its web-based demo of Lunit INSIGHT CXR, the first-ever, real-time imaging AI analytics on the web. Lunit’s products have been trained with over 200,000 follow-up or pathology-proven cases for each of the chest radiography and mammography product, clinically validated to be highly accurate, ranging in 97-99 percent AUC ROC. Lunit INSIGHT CXR and Lunit INSIGHT MMG are expected to clear FDA approval within the second half of 2019.

Prana.ai

Deep Learning Methods Build Software for Radiologists

PranaE uses a proprietary deep learning technique to generate high-resolution volumes (as high as 4x) from low-resolution input volumes. The software has been trained on a proprietary dataset of over 2 million images. The technology was developed in consultation with personnel from the Columbia University Medical Center-New York Presbyterian. PranaE can work with all kinds of 3D and 4D medical scans and can be directly integrated into existing PACS systems, as well as CT, MRI and PET scanners. The Prana.ai software suite also contains solutions for intelligent case prioritization for radiology workflows and smart medical abnormality detection in medical scans.

MNI

Advanced Cooling Technologies, Inc.

MNI Chiller Maintenance, Repair and Replacement

MNI chillers run 24 hours a day, 7 days a week. With proper maintenance these chillers will provide years of service. ACT is estab-

Invivo

MR Patient Monitoring

Expression MR400 is an advanced system for MR patient monitoring. Expression MR400 helps radiologist’s do what’s best for patients in the face of evolving care models by elevating monitoring capabilities from MR-level to bedside-level and making it easier to connect with hospital IT systems. Expression MR400 provides positive experiences for patients and staff that help drive market preference and capture the clinical and economic opportunities.

NucleusHealth

Medical Image Management in the Cloud

NucleusHealth is re-defining the medical imaging ecosystem with the world’s first cloud-based PACS: Nucleus. Nucleus, is an imaging solution to use client-side rendering paired with proprietary adaptive streaming protocols to bypass any latency issues currently experienced with all other cloud solutions. This approach allows for the viewing of large medical images in a web browser with the same performance as...
on-premise workstations. The Nucleus.io platform powers a complete suite of cloud-based imaging applications, each developed to optimize interactions with medical images end-to-end, including diagnostic reading, archiving, image sharing and clinical viewing. Leveraging the computing power of the Microsoft Azure cloud, Nucleus.io overcomes speed, access and collaboration challenges all while reducing the costs of managing the data around the world.

**PACS**

**XPOSCROLL**

**BOOTH 1501**

**Automated Scrolling System for PACS**

As imaging has evolved, so has an ever-increasing number of larger image data sets that provide a navigational challenge for the radiologist. XPOSCROLL is an automated scrolling system designed to maximize review efficiency of stacked CT and MRI image sets in PACS. A simple USB dongle device converts a standard computer mouse into an auto-scrolling “Mighty Mouse.” It incorporates directly into the review process and provides real-time control of scroll rates using unique exponential rate curves that optimize the combination of speed and precision. Superiorly ergonomic XPOSCROLL significantly decreases required scrolling motions and is easily applied and unapplied as needed using only the scroll wheel. Any linked or cross-referenced images are simultaneously autoscrolled.

**Quality Assurance/Safety Control**

**Gold Standard Phantoms**

**BOOTH 1031**

**Revolutionizing MRI through Standardized Calibration**

Gold Standard Phantoms, a spinout company from University College London, introduces QASPER, an advanced calibration phantom for Arterial Spin Labelling (ASL). Based on close collaboration with the main stakeholders in the field, such as QIBA and the National Physical Laboratory in the UK, QASPER provides the enabling step to make the clinical use of quantitative ASL possible and make MRI a reproducible scientific measurement methodology. QASPER provides consistency, calibration and quality assurance by featuring a unique MRI-compatible pump design, a proprietary technology that simulates capillary blood flow. QASPER also offers calibration to international standards, Bluetooth connection to phantom control software that provides real-time control, monitoring and recording of the perfusate flow rate and temperature and validation with MRI systems from all major suppliers.

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SST Group feels that dose regulations don’t go far enough and should go well beyond current regulations. Dose monitoring should include and provide a complete history of all diagnostic, image guided surgery and interventional ionizing events for a health care institution’s population. The information in its totality allows an institution to see the entire picture on a patient’s dosage history by anatomical region. Features developed to stay ahead of regulations, include advanced statistics module that allows cross-dose data comparison, support for multiple locations, peak skin dose module with full skin dose mapping and organ dose in CT and nuclear medicine (with fetal dose).

**Technical Exhibition Booth Key**

**South Hall A**

Booths 1000 – 5999

**North Hall B**

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**SST Group Inc.**

**BOOTH 8300**

**Radiation Dose Monitoring**

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**Amrad Medical**

**BOOTH 3514**

**Medical Radiographic Systems and Components**

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**Radiography**

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**BOOTH 3514**

**Medical Radiographic Systems and Components**

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workmanship in radiographic systems and components. Each component has been designed for long-term durability under high volume patient conditions. AmRad has radiographic solutions for the hospital, orthopedic, urgent care and private practice markets. Each AmRad Medical system can be configured to create the right system with powerful generators that range from 30kW to 80kW, making the possibilities endless for all budgets. All AmRad products and services are backed by a five-year parts warranty. AmRad Medical radiographic equipment offers performance, reliability and lowest cost of ownership.

**Software/IT Services**

**Pymedix Inc.**

**BOOTH 1147**

**Advanced Automated Deformable Image Registration**

Autofuse is a quick, powerful, and reliable image correlation and data fusion tool for radiation planning. Inspired by the human visual system, this technology can process 3D imaging data and produce reliable result registries by leveraging the digital consistency and precision of machine perception, while achieving human-like robustness and autonomy. As the first and only DIR product to have computationally efficient global feature search, Autofuse eliminates the need for initial rigid registration and is immune to differences in orientation, translation and variations in intensity. The enhanced ability to fuse data from diagnostic scans means patients experience fewer repeated scans and reduced radiation exposure from imaging. Doctors, with improved visualization and clinical confidence, can better tailor their treatments, potentially reducing treatment toxicity.

**Qaelum**

**BOOTH 1146**

**Dose Management**

Qaelum develops solutions to improve patient safety and quality in medical imaging all over the world, with a focus on patient radiation dose monitoring and management of medical imaging departments. Qaelum products are vendor neutral, based on proven technology and use well-known accreditation systems. Qaelum is a certified software partner of ACR Dose Index Registry, with a dose management platform, DOSE, an advanced tool to monitor, evaluate and optimize the radiation dose that patients receive in multi-facility and multi-modality imaging environments. Among other features, the platform allows for national and institutional benchmarks and compliance with JCAHO requirements, like monitoring of fluoroscopy and peak skin dose. Overall, DOSE helps maintain patient safety and quality in medical imaging.

**Royal Solutions Group LLC**

**BOOTH 3375**

**Suite of Patient Care Solutions**

Royal Solutions Group offers Royal Care Management, a suite of solutions focused on patient, provider, operational and financial workflows that optimize engagement in all areas of patient care. Solutions include: Royal Clinical™ for enterprise scheduling, clinical and medical records workflows; RoyalPay® for eligibility, authorization, estimation and payments; RoyalPM™ for enterprise billing and practice management; Royal Kiosks® for paperless, all mobile accessible on-site and remote registration and clinical forms; RoyalID® for a complete referral toolbox; RoyalID and Portal for complete patient access; Royal Alerts™ for robust notifications and engagement; Royal Analytics™ for robust and customizable dashboard reporting; Royal Forms™ for secure electronic surveys; and ReportHUB™ and Report Guard™ for encryption and interoperability.

**Ultrasound**

**HR Pharmaceuticals**

**BOOTH 1242**

**Medical Lubricants and Ultrasound Gels**

HR Pharmaceuticals is a medical device manufacturer of medical lubricants and ultrasound gels that are distributed to the medical, animal health and consumer markets, including HR Lubricating Jelly, Surf-glide® and EcoVue®. EcoVue was developed as an innovative ultrasound gel that aligns with sustainable business initiatives. It was designed with not only the patient and physician in mind, but the environment, both in its formula and packaging. Designed for patient safety, EcoVue is a non-refillable and single use product. Converting to EcoVue helps save the environment and reduces gel waste.

**World Federation of Ultrasound in Medicine and Biology**

**BOOTH 2525**

**Improving Global Health Care Through Sustainable Ultrasound Programs**

The World Federation of Ultrasound in Medicine and Biology (WFUMB) is a federation of affiliated organizations with 57,347 members from 93 national U.S. societies. This covers ultrasound societies in Europe, Asia, North America, Latin America, Australasias and Africa. WFUMB has established thirteen international Centers of Education to offer accredited medical ultrasound education programs, while increasing the local society’s expertise in education. WFUMB provides qualified visiting professors to enhance these educational experiences. Ultrasound in Medicine and Biology is the official journal of WFUMB, publishing original contributions on significant advances in clinical diagnostic, interventional and therapeutic applications, new and improved clinical techniques, the physics, engineering and technology of ultrasound in medicine and biology and the interactions between ultrasound and biological materials, including bio-effects.

**X-Ray**

**Del Medical**

**BOOTH 3337**

**Digital Radiographic Systems to Improve Workflow Efficiency**

The Del Medical portfolio of products includes analog and digital general radiographic solutions to accommodate a diverse domestic and international market place. The OTC1ST and FMT1ST Radiographic Systems feature 10.4” LCD touchscreen displays, vertical tracking and full digital integration. Users have complete DR system and generator control from the DR workstation located in the technologist control area or tube mount display. The Del Medical digital imaging portfolio includes DR and PACS solutions to meet the needs of acute or non-acute care imaging environments. DelWorks DR systems can be fully integrated with a new Del Medical radiographic system or purchased as a DR retrofit upgrade to any existing system. EvoView PACS solutions are uniquely configured to meet today’s volumes and are fully scalable for future needs.

**Konica Minolta Healthcare Americas, Inc.**

**BOOTH 1919**

**Digital X-Ray**

Dynamic Digital Radiography (DDR)* is the next generation of digital X-ray and is considered the most critical advance in X-ray since the introduction of flat panel detectors. Using an augmented version of a standard radiographic system, DDR acquires 15 sequential chest radiographs per second using a large field of view digital detector. Motion is captured with high temporal resolution to allow observation of motion of anatomical structures during physiological cycles, for up to 20 seconds. DDR is not fluoroscopy – it is, in fact, the X-ray precursor to CT or MR.

*Dynamc Digital Radiography is not cleared by the U.S. Food and Drug Administration.

**TXR/Tingle X-Ray LLC**

**BOOTH 4004**

**Portable X-ray Unit**

TXR is proud to introduce the new Digital Dragon X-VC Portable X-Ray Unit with a powerful 100 mA, 125 kVp, 4.0 kW output. An 8 kW unit is also available. The Digital Dragon portable is perfect for use in any environment, home health care, corrections facilities, cruise ships, morgues and urgent care facilities. The Digital Dragon features exceptional arm mobility, fractional focus X-ray tube for greater detail and the ability to activate the collimator right from five locations. Technique selection can be made at the tube or the laptop. The laptop is stored in a locking cabinet for safe transport and there is an on-board detector storage cabinet.

**Wolf X-Ray Corporation**

**BOOTH 1700**

**Radiology Supplies**

Wolf X-Ray Corporation’s newest radiation barrier includes a portable personal barrier called My Shield™. Wolf also has the most extensive line of personal protective aprons and accessories and has introduced a DR Panel protector that is transparent for ease of positioning, holding up to 750 lbs. to keep sensor panels well shielded. The newest positioning device for cross-table lateral images is the Fold & Store™ that features a patentd rack and pinion adjustable bracket that can be fine-tuned down to 1 millimeter to accommodate any sensor. This product can be folded down from 11.5” to 3.5” which allows it to be stored in a drawer or wall hung with its keyhole cutouts.

**Technical Exhibition Booth Key**

South Hall A

Booths 1000 – 5999

North Hall B

Booths 6000 – 8999

**Technical Exhibition Hours**

Sunday................. 10:00 a.m. – 5:00 p.m.

Monday – Wednesday... 10:00 a.m. – 5:00 p.m.

Thursday ............... 10:00 a.m. – 2:00 p.m.

**Full Exhibitor Listing**

To see complete company profiles and product information, visit meeting.rsna.org/exhibitor/

The information for these new products and services was provided by the manufacturers. Inclusion in this publication should not be construed as a product endorsement by RSNA.
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- May 3–4, 2019 | Paris, France
  Discover the role AI can play in your radiology practice.

- May 31–June 1, 2019 | San Francisco, USA
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