

# Daily Bulletin

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## Welcome to RSNA 2022

*I am delighted to join you again in Chicago as we “Empower Patients and Partners in Care.” There is no better place to reconnect with colleagues and rejuvenate your spirit than RSNA 2022.*

Many volunteers assembled a stellar program filled with groundbreaking research and innovations in medical imaging, a wide range of educational sessions to refresh your skills, and countless chances to meet colleagues from across the field and around the globe.

The plenary program kicks off on Sunday afternoon with my President's Address, “Diagnostic Imaging: Value from the Lens of the Patient,” immediately followed by Elizabeth Morris, MD, sharing her personal journey as a breast cancer patient. Pulitzer prize-winning author Siddhartha Mukherjee, MD, will take the stage on Monday to discuss the intersection of human health, medicine and science. Throughout the week we will also hear from radiology leaders including Reed A. Omary, MD, Quynh-Thu Le, MD, and our colleagues at the American Association of Physicists in Medicine. Another highlight to note is “Medicare and U.S. Healthcare Policy: A National Conversation,” a panel discussion on Tuesday afternoon.

Test your diagnostic chops at the ever-popular Image Interpretation Session and

think on your feet while enjoying the entertaining team-based radiology game show. The popular Fast 5 session showcases five speakers taking five minutes each to present their vision for radiology.

Visit the new Learning Center Theater, where cutting-edge research on focused topics including COVID-19 will be highlighted. Be sure to explore the science posters and education exhibits across every subspecialty while you're there.

In the Technical Exhibits Halls, 650+ exhibitors will greet you with innovative products and services. Don't miss the Imaging AI in Practice demo to learn how AI can be embedded into your workflow and learn from the line-up of thought leadership presentations in the Innovation and AI theaters. On Wednesday afternoon enjoy complimentary refreshments at Last Call at the Exhibit Halls.

Finally, if you are joining us at RSNA After Dark, I hope you have a great time unwinding with friends old and new!

It has been an honor to serve as your president this year and I look forward to seeing you throughout the week.



**Bruce G. Haffty, MD**  
RSNA President

## RSNA 2022 Meeting Highlights

*Plan to attend the noteworthy events and exciting highlights during RSNA 2022*

### Plenary Sessions

*President's Address: Diagnostic Imaging: Value from the Lens of the Patient*

**Bruce G. Haffty, MD**

Nov. 27, 4–5:30 p.m.

Arie Crown Theater

*Opening session: Doctor as Patient: Imaging Cancer Survival for All*

**Elizabeth A. Morris, MD**

Nov. 27, 4–5:30 p.m.

Arie Crown Theater

*Three Visions for the Future of Medicine*

**Siddhartha Mukherjee, MD**

Nov. 28, 11 a.m. – Noon

Arie Crown Theater

*Image Interpretation Session*

Nov. 28, 4:30–5:30 p.m.

Arie Crown Theater

*Designing Radiology for Patients, Communities, & the Planet*

**Reed A. Omary, MD**

Nov. 29, 11 a.m. – Noon

Arie Crown Theater

*Exciting Radiology Game Show: What's Your Emergency? Life in the STAT Lane*

Nov. 30, 11 a.m. – Noon

Arie Crown Theater

*Machine Learning in Radiation Oncology Clinical Trials and Clinical Practice*

Nov. 30, 1:30–2:30 p.m.

Room E450A

*RSNA/AAPM Symposium:*

*Together We Can Make a Difference*

Dec. 1, 11 a.m. – Noon

Room E450A

### Special Sessions

*NIH Grantsmanship Workshop*

Nov. 27 12-3:30

Room S102CD

*Medicare and U.S. Healthcare Policy: A National Conversation*

Nov. 29, 1:30–2:30 p.m.

Room E450A

*Fast 5*

Nov. 29, 10:30 a.m.

Arie Crown Theater

*Quality Improvement Report Walkthrough*

Nov. 30, 4 p.m.

Learning Center

*Building Connections Across the Americas: Addressing Access to Radiology*

Nov. 30, 1–5 p.m.

Room S102AB

*Quantitative Imaging Symposium*  
*Sponsored by QIBA*

Nov. 30, 2:00–3:30pm

Room E253AB

### Sunday's Physics Quiz

**Q** The magnetic field homogeneity listed by vendors is true for roughly what diameter around the center of the scanner bore?

- 7 cm diameter inside the bore
- 40 cm diameter inside the bore
- The entire bore



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Sunday At a Glance

President's Address  
Bruce G. Haffty, MD  
4 – 5:30 p.m. | Arie Crown Theater



Haffty

*Diagnostic Imaging: Value from the Lens of the Patient*  
Radiologists need to work with our patients and partners in health care to adequately evaluate, demonstrate and communicate the value of imaging through research, education, communication and practice.

Opening Plenary Session  
Elizabeth A. Morris, MD  
4 – 5:30 p.m. | Arie Crown Theater



Morris

*Doctor as Patient: Imagining Cancer Survival for All*  
Dr. Morris will discuss her experience as a breast cancer patient and how it has fueled her desire to ensure that patient care is respectful and responsive to each patient's preferences, needs and values.

Awards and honors will be presented formally during a private event outside of the plenary sessions.



9 – 10 a.m.  
**Science and Education Sessions**  
9 – 9:15 a.m.  
**Global Learning Centers Presentations**  
Discovery Theater  
9 a.m. to 3 p.m.  
**Cutting-Edge Research Presentations**  
Learning Center Theater  
10 a.m. – 5 p.m.  
**Technical Exhibits**  
**Industry Presentations**  
10 a.m. – 5 p.m.  
**Professional Portrait Studio**  
South Hall, Booth 1031  
10:30 – 11:30 a.m.  
**Science and Education Sessions**  
10:30 a.m. to 5 p.m.  
**RSNA AI Theater Presentations**  
South Hall, Booth 5149  
11 a.m. – 3:45 p.m.  
**Innovation Theater Presentations**  
South Hall, Booth 3316

11:45 a.m. – 12: 45 p.m.  
**Poster Discussions**  
Learning Center  
12 – 3:30 p.m.  
**NIH Grantsmanship Workshop**  
South Building, Room S102CD  
12:15 p.m.  
**Get Involved with RSNA Journals:**  
**Jeffrey Klein, MD**  
**RSNA Board Liaison for Publications and Communications**  
South Hall, Booth 1007  
1 – 2 p.m.  
**Science and Education Sessions**  
2 – 3 p.m.  
**Meet the RSNA Journal Editors:**  
**Charles Kahn, MD**  
**Radiology: Artificial Intelligence**  
2:30 – 3:30 p.m.  
**Science and Education Sessions**

View the full program and add sessions to My Agenda on the RSNA 2022 App or at Meeting.RSNA.org.

Daily Bulletin

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The RSNA 2022 *Daily Bulletin* is the official publication of the 108th Scientific Assembly and Annual Meeting of the Radiological Society of North America. Published Sunday, November 27–Thursday, December 1.

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AI Theater: Sun, Nov. 27, 2:30-2:45pm

"How AI-based CT Denoising Impacts Imaging Workflow Efficiency: An Experience at Tübingen University Hospital"

Booth: Booth 4932  
South Hall Level 3, AI Showcase

Special Recognition for In-Kind Support for the Hands-on Courses  
RSNA would like to recognize the companies below for their in-kind support for the educational courses at RSNA 2022 as follows:

Company Name	Nature of In-Kind Support
Becton, Dickinson, and Company	In-Kind Support in the form of Biopsy Systems and Medical Devices
Canon Medical Systems USA	In-Kind Support in the form of an Ultrasound System
CHISON Medical Technologies Co., Ltd.	In-Kind Support in the form of an Ultrasound System
FUJIFILM Healthcare Americas Corporation	In-Kind Support in the form of an Ultrasound System
GE Healthcare	In-Kind Support in the form of an Ultrasound System
Hologic, Inc	In-Kind Support in the form of Biopsy Systems and Medical Devices
INRAD, Inc	In-Kind Support in the form of Medical Devices
IZI Medical	In-Kind Support in the form of Medical Devices
Konica Minolta Healthcare Americas, Inc	In-Kind Support in the form of an Ultrasound System
Mammotome	In-Kind Support in the form of Biopsy Systems and Medical Devices
Merit	In-Kind Support in the form of Medical Devices
Mindray	In-Kind Support in the form of an Ultrasound System
Philips Healthcare	In-Kind Support in the form of an Ultrasound System
Samsung	In-Kind Support in the form of an Ultrasound System
Siemens Medical Solutions USA, Inc.	In-Kind Support in the form of an Ultrasound System

Register for the RSNA 5k Fun Run

Experience the early morning light and take a brisk breath of fresh air on Chicago's lake-front as you run, jog, walk or wheel to benefit the RSNA R&E Foundation. The event takes place Tuesday, Nov. 29, at 6:30 a.m. Register at the RSNA 5k Fun Run Desk in McCormick Place, Grand Concourse, Level 2.5, Sunday–Monday from 7:30 a.m. to 6 p.m. Pre-registrants should visit the desk to pick up their bibs and T-shirts. The popular RSNA 5k Fun Run supports the Foundation in its efforts to provide grants and awards to individuals and institutions that advance radiologic research, education and practice. Your \$50 registration is considered a donation and is nonrefundable.

Physics Tip

In stereotactic breast biopsy, maximum undershoot or overshoot will be roughly 2x the error localizing the lesion on stereotactic views.



# RSNA Recognizes Gold Medalists

*RSNA will award three members its highest honor, the Gold Medal, during RSNA 2022*

## Katherine P. Andriole, PhD



A leading expert in radiological imaging informatics, Katherine P. Andriole, PhD, holds a long-standing interest in using concepts from computer science, engineering and data science to advance medical research, augment

medical education and ultimately improve clinical care.

Dr. Andriole majored in biomedical engineering at Duke University where she was an Angier B. Duke Scholar, studying twentieth century English literature at Oxford University. She studied electrical engineering and medicine at Yale University where her PhD research was in classical machine learning. She completed post-doctoral fellowships at the University of California at Los Angeles and the University of California at San Francisco (UCSF) departments of radiology. At UCSF, Dr. Andriole was instrumental in designing, building, implementing, and evaluating picture archiving and communication systems (PACS) before they became commercial entities. She was one of the early adopters of Computed Radiography (CR) using CR for the first time in newborns including premature infants.

Dr. Andriole is currently an associate professor of radiology at Harvard Medical School, Brigham and Women's Hospital and the director of academic research and

education at the Mass General Brigham Data Science Office. Her research has involved technical as well as clinically relevant developments in medical imaging informatics, data analytics and machine learning. A passionate educator, she has developed and taught multiple formal courses, directed fellowships in biomedical imaging and informatics, and mentored more than 90 trainees. She is co-developer and co-director of the National Imaging Informatics Course.

Dr. Andriole has served in multiple leadership roles for the Society for Imaging Informatics in Medicine (SIIM), is the senior scientist for education at the American College of Radiology (ACR) Data Science Institute and serves on the executive board of the Academy for Radiology and Biomedical Imaging Research. She has served on several NIH grant review study sections including Biomedical Computing and Healthcare Informatics and Big Data-to-Knowledge.

She is an editorial board member of the *Journal of Digital Imaging* and is an associate editor for the *Journal of Medical Imaging* and for *Radiology: Artificial Intelligence*.

A long-standing member of the RSNA Radiology Informatics Committee, Dr. Andriole currently serves on the RSNA Machine Learning Steering and Data Standards sub-committees. She is a faculty member for the RSNA Imaging AI Certificate Program, a subject matter expert for the R&E Foundation's Grant Oversight

Committee and serves as co-director of the Imaging AI in Practice Demonstration.

Among her many accolades, Dr. Andriole was named a senior member of the International Society for Photo-Optical Instrumentation Engineers, elected a member of the Academy of Harvard Medical School, and inducted into the College of SIIM Fellows and the Fellowship of the ACR. She was named third (2015) and second (2018) vice president of RSNA. Dr. Andriole has received the RSNA Honored Educator Award multiple times, and the SIIM gold medal. She was inducted into her hometown Sports Hall of Fame for swimming, track and field, and cross country, and received the inaugural RADxx Trailblazer Award recognizing a pioneering woman leader in imaging informatics.

## James A. Brink, MD



An internationally known advocate for the monitoring and control of medical radiation exposure, James A. Brink, MD, is chair of the Department of Radiology at Brigham and Women's Hospitals, radiologist-in-chief

at Massachusetts General Hospital, chief of enterprise radiology for Mass General Brigham health system, and the Juan M. Taveras Professor of Radiology at Harvard Medical School, all in Boston.

Dr. Brink also focuses on the critical role radiology plays in advancing quality care at an affordable cost. He champions radiologists as poised to use technological innovation toward medical imaging advances that will improve public health.

A leader in organized radiology, Dr. Brink is a past president of the American Roentgen Ray Society (ARRS) and the American College of Radiology. He currently serves as president of the International Society for Strategic Studies in Radiology and was previously vice chair of the Nuclear and Radiation Studies Board for the National Academies of Sciences, Engineering and Medicine.

The ARRS honored Dr. Brink's achievements with a gold medal, and he holds honorary membership in the European Society of Radiology, the Japanese Radiological Society, the Chinese Society of Radiology, the Italian Society of Medical Radiology, the American Association of Physicists in Medicine and the International Organization for Medical Physics. Dr. Brink was recognized by his alma mater, Purdue University, with the Outstanding Electrical and Computer Engineer award in 2019. The following year, he was also elected Distinguished Emeritus Member by the National Council on Radiation Protection and Measurements.

Dr. Brink earned a BS degree in electrical engineering at Purdue University and his medical degree at Indiana University before completing his residency and fellowship at MGH. During his fellowship Dr. Brink received an RSNA Research Fellow Grant. He began his career at the Mallinckrodt Institute of Radiology at Washington University School of Medicine in St. Louis, where he rose to the rank of associate professor before joining the faculty at Yale University in 1997. He served as chair of the Yale Department of Diagnostic Radiology from 2006 to 2013.

## Vijay M. Rao, MD



A global authority on head and neck imaging and recognized for her health services research in radiology, RSNA past president Vijay M. Rao, MD, is the David C. Levin Professor and Emeritus Chair of Radiology at Sidney

Kimmel Medical College of Thomas Jefferson University and senior vice president of Enterprise Radiology and Imaging at Jefferson Health in Philadelphia.

Dr. Rao is a graduate of the All India Institute of Medical Sciences, India's premier medical school. After completing her radiology residency in 1978 at Thomas Jefferson University Hospital, she remained on the faculty. A passionate educator, she served as residency program director, associate chair and then vice chair for education, and co-director of the Neuroradiology/ENT division. In 2002, she was appointed chair of Jefferson's Department of Radiology, becoming the first female chair of a clinical department in Jefferson's history. In 2016, she was named senior vice president of Enterprise Radiology and Imaging at Jefferson Health. She is also a trustee of the Thomas Jefferson University Hospitals board.

A prolific researcher, Dr. Rao is widely recognized as a thought leader in health services research in radiology. She has published over 220 peer-reviewed articles, a dozen book chapters and 275 abstracts in medical literature and has edited a popular atlas textbook on MRI and CT of the head and neck. She has given 300 presentations at national and international radiology meetings.

Dr. Rao has held many leadership roles in national organizations, including president of the American Society of Head and Neck Radiology, the Association of Program Directors in Radiology (APDR) and the American Association for Women Radiologists (AAWR). She has served the RSNA R&E Foundation as a member of the Board of Trustees from 2008 to 2011 and 2019 to 2022.

She currently serves as the R&E Foundation Board chair. In 2011, she was named to the RSNA Board of Directors, serving as president-elect in 2017 and president in 2018. She served on the board of the Academy for Radiology & Biomedical Imaging Research and the Pennsylvania Radiologic Society for several years. Dr. Rao serves as a role model and source of inspiration for many radiologists worldwide. She has received numerous awards, including the APDR Achievement Award and the AAWR Marie Curie Award. She was awarded gold medals from the Association of University Radiologists, the Asian Oceanian Society of Radiology, and American Society of Head and Neck Radiology. She holds honorary membership in the Israeli Radiological Society, the European Society of Radiology, the Indian Radiological and Imaging Association, and the French Society of Radiology along with its Medal of Honor.

In 2005, Dr. Rao was honored by the *Philadelphia Business Journal* as one of 25 Women of Distinction throughout the region. She has been consistently chosen by her peers to be included on *Philadelphia Magazine's* annual list of Top Doctors and Best Doctors.

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# Explore More than 2,500 Posters and Exhibits in the RSNA Learning Center

*The Learning Center is home to thousands of education exhibits, scientific digital posters and quality improvement report posters covering a range of subspecialties*

Located in Lakeside Center East, Level 3, visit in the morning or during the lunch hour for poster discussions with authors. Scientific posters are grouped and displayed in easy-to-find, color-coded learning communities.

### NEW! Learning Center Theater

Join us all week in the new Learning Center Theater to experience presentations on the latest innovative research and translational science. Watch 10-minute presentations featuring cutting-edge research on long-COVID, photo counting CT, AI/machine learning and molecular imaging. These abstracts will be presented in the Learning Center Theater, live daily from 9 a.m. to 3 p.m.

Access the Learning Center Theater schedule on [Meeting.RSNA.org](http://Meeting.RSNA.org) or via the meeting app.

### Learning Center Schedule

The Learning Center is open daily and all scientific and education exhibits are available for self-study.

- Sunday 9 a.m.-6 p.m.
- Monday-Wednesday 7:30 a.m.-6 p.m.
- Thursday 7:30 a.m.-4:30 p.m.

Digital presentations are available any time to Virtual Access registrants at [Meeting.RSNA.org](http://Meeting.RSNA.org).

Additionally, select authors will be onsite to present their posters and exhibits during the following times:

- Sunday 11:45 a.m.-12:45 p.m.
- Monday-Thursday 9-9:30 a.m. and 12:15-1:15 p.m.

### RSNA AI Deep Learning Lab

Attendees looking to deepen their understanding of AI applications are invited to visit the RSNA AI Deep Learning Lab located in the Learning Center.

The Lab features 16 unique sessions developed by RSNA members covering a range of AI topics and skills including several beginner-friendly options. Attendees are encouraged to bring their own devices for hands-on activities and to explore new tools, resources and topics in AI. Refer to the meeting program for daily schedules.

### Case of the Day

Case of the Day is presented electronically in the Learning Center and accessible to Virtual Access registrants via the meeting app or [Meeting.RSNA.org](http://Meeting.RSNA.org). Sunday through Wednesday, a new daily case in each of 17 categories will be displayed. Attendees may submit a diagnosis for each case at nearby internet stations, on the electronic presentation system or Meeting Central. For each correct diagnosis submitted, attendees will receive 0.50 *AMA PRA Category 1 Credit*™.

Also in the Learning Center, challenge your skills with the RSNA Case Collection™ Case of the Day. This activity is not designated for CME. Learn more about RSNA Case Collection and how you can contribute to a growing resource for radiologists, visit [Cases.RSNA.org](http://Cases.RSNA.org).

### Quality Improvement Report Walkthrough

Join Jonathan Flug, MD, chair of RSNA's Quality Improvement Committee, and other experts in quality improvement (QI) in radiology as they walk through and highlight select QI Reports. Those interested in leading and publishing QI projects will find this especially valuable. The poster walk will be held Wednesday, Nov. 30, at 4:15 p.m. in the Quality Improvement Report section.

### RSNA Ripples of Innovation

RSNA empowers our members to try new things, explore possibilities and enhance your career. These touch points create ripples of innovation through the radiology community, boosting individual careers. Stop by this new experience to learn about RSNA publishing and funding opportunities that build careers and make connections for radiologists and radiology trainees.

### The Art of Imaging

RSNA welcomes a unique art installation to the Learning Center. This year's Art of Imaging display is the product of a collaboration between two dozen photography and biomedical engineering students who created non-conventional imagery by scanning everything from common household objects to visualizing sound broadcast from an underwater speaker and captured using Doppler imaging.



## Record of Attendance & Credit Claiming at RSNA 2022

*Self-service access makes credit claiming easy*

Registrants will be able to access the self-service credit claim site from RSNA 2022 Meeting Central and at [RSNA.org/Register](http://RSNA.org/Register). Review and adjust credit for education sessions attended, complete session evaluations and print and save your credit certificate or record of attendance.

Registrants who select Virtual Access, whether choosing in-person and Virtual Access combined or Virtual Access only, can maintain extended access beyond the week of the live meeting until May 1, 2023, to view and earn additional on-demand credits.

Attendees will have access to the credit claiming site until May 1, 2024, to print their CME certificate or Record of Attendance. Additional credit claiming details can also be found in the Meeting Guide.

For assistance with your attendance and credit claiming questions, visit the Information Desks in the Connections Center or the Grand Concourse.

The Radiological Society of North America (RSNA®) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The RSNA designates this Other activity (blended live and enduring material) for a maximum of 462.50 *AMA PRA Category 1 Credits*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

For physicists, the Commission on Accreditation of Medical Physics Education Programs (CAMPEP) has approved the direct transfer of *AMA PRA Category 1 Credit*™ to MPEC on a credit-for-credit basis for medical physicists. CAMPEP

MPCEC (Medical Physics Continuing Education Credit) for on-demand content is only available up to six weeks post meeting (Jan. 12, 2023).

For radiology technologists, select courses within the RSNA 2022 program have been approved by the American Society of Radiologic Technologists, an AART®-approved Recognized Continuing Education Evaluation Mechanism Plus (RCEEM+), for appropriate ARRT Category A+ credit. Not all in-person sessions are eligible for ARRT credit. Please check Meeting Central or the RSNA 2022 meeting app to determine if a course is eligible for ARRT credit. Note: Virtual sessions are not eligible for ARRT credit.

For international attendees, CME credits may be transferable.

- Australia and New Zealand: RSNA is an authorized CPD provider.
- Canada: *AMA PRA Category 1 Credits*™ can be converted to Royal College MOC credits.
- Mexico: *All AMA PRA Category 1 Credits*™ are transferable.
- Europe: Due to an agreement of mutual recognition, the UEMS European Accreditation Council will convert *AMA PRA Category 1 Credit*™ to EACCME European CME Credits (ECMECs). For more information, contact the European Union of Medical Specialists (UEMS) at [info@uems.net](mailto:info@uems.net) or visit [UEMS.net](http://UEMS.net) or [EACCME.eu](http://EACCME.eu).
- Worldwide: CME claimed at RSNA 2022 may be transferable. Contact the CME governing body in your home country for details.

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## Discover Innovative Products and Services in the Technical Exhibits Halls

*Learn about the breakthroughs that are empowering radiology at RSNA 2022*

The RSNA 2022 Technical Exhibits halls are the ideal setting to engage with industry experts and explore a wide array of medical imaging industry product demonstrations, presentations, workshops and symposiums.

With exhibits from over 650 leading manufacturers, suppliers and medical information and technology developers, you will be immersed in medical imaging innovation. All RSNA attendees have access to the Virtual Exhibits and all industry programming until May 1, 2023, at noon CT.

### AI Showcase

Discover the latest AI solutions and connect with industry experts in the AI Showcase located in the South Hall. The AI Showcase features over 100 companies and provides opportunities for attendees to see the newest AI software and product demonstrations and solutions. Enjoy hands-on learning and special engagement areas in this prime annual meeting destination. After visiting, take a selfie at the oversized RSNAI photo op and share it over social media using #RSNAI. The AI Showcase is sponsored by AIRS Medical and Bayer Calantic™ Digital Solutions.

### RSNA AI Theater

Dive into the hottest topics in AI, machine learning and deep learning in the RSNA AI Theater, and get the training and networking opportunities you need to better understand the role of AI in medical imaging. For the complete RSNA AI Theater event schedule, visit Meeting Central ([Meeting.RSNA.org](https://meeting.rsna.org)). On Monday, Nov. 28, RSNA will hold a special presentation to recognize the winners of the RSNA Cervical Spine Fracture AI Challenge.

### RSNAI Resource Center

Visit the RSNAI Resource Center, located near the AI Theater, where you can learn about the AI-related resources and educational opportunities RSNA provides, including the RSNA Imaging AI Certificate Program and data collection efforts through the Medical Imaging and Data Resource Center (MIDRC).

### Imaging AI in Practice Demonstration

Visit the Imaging AI in Practice booth to see demonstrations of new tools and practice enhancements enabled by AI in real-world clinical scenarios. These 30-minute, multi-vendor interoperability demonstrations showcase new technologies and

communication standards needed to integrate AI into the diagnostic radiology workflow.

### 3D Printing & Mixed Reality Showcase

Located in the North Hall, the 3D Printing & Mixed Reality Showcase is the place to network with colleagues and industry experts engaged in 3D medical printing research and development. This showcase offers attendees the opportunity to see and interact with the latest products in 3D printing, 3D software and augmented and virtual reality.

New this year, the RSNA 3D Special Interest Group (SIG) Showcase offers an opportunity for attendees to share their experiences, innovations and challenges in creating 3D printed anatomical models and guides. This new booth will include a display of 3D models and case studies submitted by institutions that practice 3D printing. This booth will offer the opportunity to network with colleagues who are involved in the practice of 3D printing in medicine.

### First-Time Exhibitor Pavilion

This year, RSNA is welcoming 28+ new companies to the First-Time Exhibitor Pavilion. Connect with these annual meeting newcomers and see their products and services in a showcase area inside the South Hall. Throughout the exhibit halls, other first-time exhibitors will be identified with a First-Time Exhibitor logo.

### Recruiters Row

The annual meeting is the perfect place to connect with organizations and explore available career opportunities. Schedule time to meet with prospective employers. While visiting Recruiters Row, update your headshot at the RSNA Portrait Studio.

### Career Connect

Career Connect allows both employers and job seekers to identify themselves as attending RSNA 2022 and search for others at the meeting so that they can connect in person or online. Attendees will be eligible for a giveaway item at the Career Connect booth if they log into Career Connect and update their profile or create a new profile prior to or during the meeting. Log on to RSNA's Career Connect to search for participating employers and learn more about virtual networking opportunities at [RSNA.org/Careers](https://rsna.org/Careers).

### Educators Row

Meet with representatives from educational institutions and leading medical associations from around the world in Educators Row, located in the South Hall. Visit RSNA journals staff at Booth 1007 where you can ask questions about any of RSNA's peer-reviewed journals.

### Vendor Workshops

Get first-hand experience on an exhibiting company's proprietary systems by attending user training and product instruction in classroom spaces located within the Technical Exhibits Halls. Vendor Workshops are scheduled between 10 a.m. and 5 p.m., Sunday through Wednesday. Vendor workshops are not offered for CME credit and are available only in-person. Find a complete listing of available workshops at [Meeting.RSNA.org](https://meeting.rsna.org).

### Last Call at the Exhibit Halls

Join RSNA 2022 exhibitors on Wednesday, Nov. 30, for Last Call at the Exhibit Halls. During this free event, participating exhibitors will be serving appetizers, alcoholic beverages and other refreshments from 2 to 4 p.m. at their respective booths. Take one last walk around the Technical Exhibits halls—network, celebrate and socialize.

Get your badge scanned at any booth during this event to be entered into the raffle to win one of five pairs of Beats Studio Buds.

### Corporate Programming

Industry presentations at RSNA 2022 allow attendees to explore leading-edge products, services and solutions to enhance patient care, streamline operations and learn how to navigate today's health care landscape. See complete schedules and locations at Meeting Central ([Meeting.RSNA.org](https://meeting.rsna.org))

### Corporate Symposiums

Participate in focused one-hour education sessions presented by RSNA exhibitors and sponsors throughout the week. Morning sessions are scheduled between 8 a.m. and noon; afternoon sessions are held from 1 to 4 p.m.

### Innovation Theater

These 15-minute live presentations feature the latest imaging innovations from exhibiting companies. Presentations will take place in this open-air theater Monday and Tuesday from 10:30 a.m. to 3:45 p.m.



### Lunch & Learns

Participate in panel discussions, demonstrations and lectures with company leadership and medical professionals while you enjoy a mid-day meal. Lunch & Learns will be held Sunday through Wednesday. Lunch & Learn sessions will be available on demand until May 1, 2023, at noon CT.

### Café RSNA

Featuring a food-court style café with a variety of available cuisines, prix fixe choices and plenty of seating, Café RSNA is a convenient place to enjoy lunch. Open Sunday through Wednesday from 11 a.m. to 2:30 p.m., Café RSNA has two locations in the Technical Exhibits halls. Purchase advance tickets for \$22 per meal at [RSNA.org/Register](https://rsna.org/Register). Onsite tickets are available at \$23.

### Virtual Access

All annual meeting attendees, regardless of registration type, have access to view industry programming through Meeting Central ([Meeting.RSNA.org](https://meeting.rsna.org)) until May 1, 2023, noon CT.

### In-Person and Virtual Industry Presentations

Access live-streamed presentations from many of the in-person Corporate Symposiums and Lunch & Learns with audio and video recordings available on demand after the presentation. Every presentation in the AI Theater and Innovation Theater will have available virtual slideshows and audio recordings within 24 hours after each presentation.

### Virtual-Only Industry Programming

Select exhibitors will offer virtual-only presentations and booths where you can engage with company representatives virtually.

### Virtual Exhibits

See the Virtual Exhibits via Meeting Central. Browse a comprehensive list of in-person, hybrid and virtual only exhibitors and their products or services. Virtual Exhibitors are identified by the virtual icon in their listing.

Search by exhibitor name, type or product category. Virtual exhibitors have an interactive business card to connect with attendees during RSNA 2022. Use the live chat feature to connect and speak one-on-one with virtual exhibitors.

## RSNA 2022 Features the Latest in Medical Imaging AI

- Visit South Hall A, starting at Booth 3929 to experience the **AI Showcase**, sponsored by AIRS Medical and Bayer Calantic™ Digital Solutions. Meet with experts from nearly 100 companies delivering next-level AI software, product demonstrations and solutions.
- Stop by the **RSNA AI Theater**, South Hall, Booth 5149 to see the innovations fueling the future of AI. Presentations from companies will run from 10:30 a.m. to 3:45 p.m., Sunday through Wednesday. Don't miss special RSNA AI events happening on select days from 4 to 5 p.m. On Monday,

Nov. 28 at 4 p.m. join us for the presentation of the top contenders from our **2022 AI Challenge**. See the winning entries from the Cervical Spine Fracture AI Challenge co-hosted by RSNA, in collaboration with the American Society of Spine Radiology (ASSR) and the American Society of Neuroradiology (ASNR).

- Visit the **RSNAI Resource Center**, South Hall, Booth 5157, to learn about RSNA AI opportunities, including the RSNA Imaging AI Certificate Program, advanced AI education, the Medical Imaging and Data Resource Center (MIDRC), the journal, *Radiology: Artificial Intelligence* and

RSNA's leadership in AI research and building ground-truth data.

- Visit Booth 4329 for the **RSNA Imaging AI in Practice Demonstration**. These 30-minute, multi-vendor interoperability demonstrations showcase the practice of the future with new technologies and communication standards needed to integrate AI into the diagnostic radiology workflow.
- In the **RSNA AI Deep Learning Lab**, located in the Learning Center, experience 16 unique sessions covering a range of AI topics and skill levels including several beginner-friendly options.

- **The new Learning Center Theater** features presentations of the latest research and translational science from RSNA's Cutting-Edge Research second call for abstracts. Watch 10-minute presentations of nearly 90 accepted abstracts on topics including long COVID, photon counting CT, AI/machine learning and molecular imaging, live daily from 9 a.m. to 3 p.m. Access the Learning Center Theater schedule on Meeting Central or the RSNA 2022 meeting app. Learning Center sessions are also available to view livestream or on demand with Virtual Access.





# GREETINGS

Welcome to RSNA 2022 from  
the RSNA Board of Directors

RSNA® 2022

Empowering *Patients*  
and *Partners* in Care



**Bruce G. Haffty, MD**  
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**Jeffrey S. Klein, MD**  
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**Sanjeev Bhalla, MD**  
*Liaison for Education*



**Richard E. Heller III, MD**  
*At-Large Director*



**Jinel A. Scott, MD**  
*At-Large Director*

## Experience Everything RSNA 2022 Has To Offer Through Virtual Access

*Virtual Access delivers the latest scientific sessions and research on your schedule*

No matter where you are in the world—onsite in Chicago or in your office—RSNA 2022 Virtual Access gives you live-streamed and on-demand courses from the RSNA annual meeting.

If you are attending the meeting in person, add Virtual Access to your registration package to enjoy the full meeting experience, including both in-person and virtual programming and in-person Technical Exhibits Halls and the Virtual Exhibits. In fact, all annual meeting registrants, regardless of registration type, can visit the Virtual Exhibits through Meeting Central. All attendees who register for Virtual Access will be able to view content online via live stream and on-demand with 100% of eligible meeting programming available until May 1, 2023, noon CT.

“Virtual access to RSNA 2022 is a great way to help you balance your daily responsibilities at work and home with the important education, technology previews and networking opportunities available during the annual meeting,” said Sanjeev Bhalla, MD, RSNA Board liaison for education and section chief of the Cardiothoracic Imaging Section at Mallinckrodt Institute of Radiology, St. Louis. “Adding Virtual Access to your registration ensures that you will stay connected no matter how you experience the annual meeting and that you won’t miss any of the abundant and diverse sessions, especially when any number of them may conflict on your schedule.”

### Dig Deep Into Meeting Program Sessions

Registrants can access virtual content two ways: through Meeting Central and on the meeting app.

Meeting Central ([Meeting.RSNA.org](http://Meeting.RSNA.org)) and

the meeting app are designed to quickly get you where you need to be, whether that is browsing the more than 400 educational and science sessions and 2,500 scientific posters and educational exhibits, exploring the Virtual Exhibits to see the latest available products and services, or networking with your peers. Your username and password are your passport to view live and on-demand content, add courses to your agenda and earn CME credit.

Live-streamed sessions appear on a daily schedule throughout the week and many include live Q&A with the presenters. You will also find the plenary sessions, a full line-up of industry-related presentations and the Virtual Exhibits. You can participate in audience response sessions during live programming.

You can filter sessions by day, type and topic or subspecialty. A search tool is available to find sessions by course number or presenter name.

Test your knowledge with Case of the Day (available only during the meeting week) and check back the following morning to see the correct answers. Virtual Access participants who submit the correct answer will receive 0.5 *AMA PRA Category 1 Credits™*.

The official meeting program takes place between 8 a.m. and 6 p.m. CT. To watch live-streamed sessions in your local time zone, add sessions to your personal calendar.

### View the Latest Technical Innovations and Make Connections

Whether onsite visiting the Technical Exhibits floor or exploring the Virtual Exhibits, you will find a wide array of in-person and online industry presentations,

product demonstrations, workshops and symposiums.

Use Meeting Central and connect with exhibitors to learn about their latest products and services. There are also several companies who will be exhibiting exclusively through the Virtual Exhibits.

Advanced search capabilities allow you to search by product category, company name and exhibit pavilion location.

Use My Show Planner to create a must-see list of companies and products throughout the annual meeting and save brochures and presentations to view. Throughout the meeting, attendees can build a list of key contacts using interactive business cards and network with virtual exhibitors in real-time

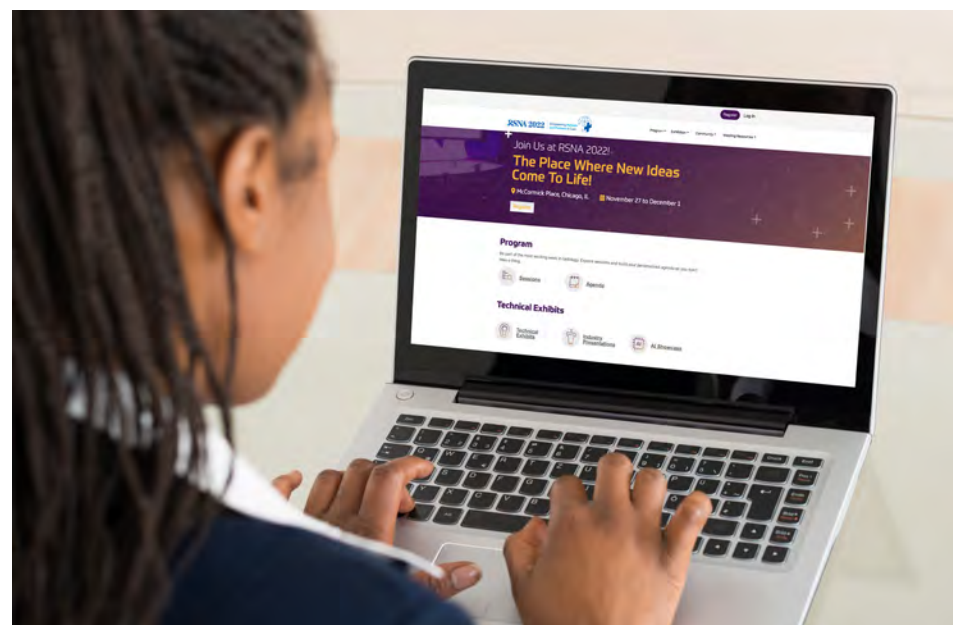
using the one-to-one My Chat feature.

The Virtual Product Theater and Virtual Industry Presentations are where attendees can find and watch virtual industry presentations via livestream and on demand.

CME credit is available for live sessions and a select number of on-demand courses.

“RSNA Virtual Access is a valuable asset to the scientific meeting, as it promotes global participation and inclusivity among the membership,” Dr. Bhalla said. “Virtual access keeps attendees engaged, offering high-quality content and educational offerings, but at a time and place that is more convenient for them.”

Visit [RSNA.org/Register](http://RSNA.org/Register) for pricing and registration.





# See What’s Happening in the RSNA Connections Center

Visit the RSNA Connections Center to learn about available RSNA services, get answers to your questions, relax and recharge—literally

Enjoy a break during the meeting at this open area located in Lakeside Center East, Level 3, where you will find comfortable seating and tables equipped with chargers for your devices. You’ll also find a full schedule of entertainment and educational presentations.

Need help while you’re in the Connections Center? Look for RSNA staff wearing blue vests and jackets—they’ll be happy to assist you.

### Information Desk

Come to the Information Desk to get answers to your RSNA 2022 questions.

### RSNA Shop

Visit the RSNA Shop to find RSNA-branded merchandise and gifts. Bring

home a souvenir from the meeting or gifts for your team emblazoned with the RSNA logo. Available items include a stuffed sloth, jackets, Yeti tumblers, vests and other branded gear.

### Membership & Resources

Learn about RSNA member benefits and services including:

- Career Connect
- Image Wisely®
- Informatics products
- International programs
- Journal subscriptions
- Membership renewals and payments
- Online Education
- Radiology Cares®: The Art of Patient-Centered Practice
- RadiologyInfo.org®
- Virtual Meeting

### Ribbon Pickup

The self-service Ribbon Wall is located in the Connections Center.

### R&E Booth and Donor Suite

Learn the latest news about R&E Foundation activities, including current grant and award recipients and individual, private practice and corporate donors. Donors who have



contributed at least \$300 onsite or during the giving year may visit the exclusive Donor Suite for access to computers, a coat room, comfortable seating and light refreshments.

### Discovery Theater Featured Entertainment and Activities

Throughout the week, the Discovery Theater will host informative programming, entertainment and the Resident Competition. Relax and unwind while enjoying a lineup of diverse events and performances including local musicians. Visit Meeting Central ([Meeting.RSNA.org](http://Meeting.RSNA.org)) and view the complete theater schedule by filtering on Meeting Extras. The Discovery Theater schedule of events can also be found on the RSNA 2022 meeting app.



### 3D Mural

Step into the scene created by local street painter, muralist and fine artist Nate Baranowski, and have a friend or colleague take your photo to commemorate your annual meeting experience.

108<sup>th</sup> Scientific Assembly and Annual Meeting

+

Everything you need.

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+ Credit Claiming

+ Peer Finder

+ Exhibitor List and Industry Programming

+ Onsite Resources and McCormick Place Maps

RSNA® 2022

Empowering Patients and Partners in Care





INDUSTRY FOCUS

# Saving Time, Building Confidence and Expanding Patient Access: How AI-Generated Impressions Can Reliably Improve Reporting Workflows

“AI models that enhance interpretation and automate routine and time-consuming tasks can help radiologists manage challenges including increased demand for imaging tests, staffing shortages and physician burn-out,” said Parisa Kaviani, MD, a radiology research fellow at Massachusetts General Hospital. “But reliable clinical use of those tools also requires that radiologists have confidence in the relevance and robustness of an algorithm’s training data, a model’s diagnostic performance, and the compatibility of its output with reporting standards and preferences.”

The findings of a new IRB-approved and HIPAA-compliant study indicating near-perfect agreement between AI-generated auto-impressions (AAI) and radiologists-dictated impressions (RDI) in thoracic imaging reports may ease those concerns and increase radiologists’ comfort when adopting time-saving AI tools.

For the study, a team of physicians at Mass General Brigham tested an AI-based auto-impression model from a training dataset of 9.8 million radiology reports for multiple imaging modalities, radiology subspecialties, and sites developed by Nuance Communications. The team then used the model to process 12,000 de-identified reports of chest radiographs, CTs and MRIs from five thoracic radiologists.

Two other thoracic radiologists conducted a comprehensive comparison of RDI and AAI including trajectory, incidental and significant findings, and any differences in size, location, or laterality. They also evaluated how well AAI output matched RDI reporting style and word count. Data were analyzed with Pearson correlation and paired t-tests.

Overall, there was excellent correlation ( $r=0.96$ ) between RDI and AAI for classifying negative, stable, increased, and



Kaviani



Agarwal

decreased findings. There were no significant differences between the number of incidental ( $r=0.82$ ) and significant ( $r=0.9$ ) findings. AAI had perfect (100%) matching of the location and side of findings, with 2% of RDI including side and location mismatches. Stylistic agreement was either perfect (87.8%) or acceptable (11.7%) with just 0.5% rated as unacceptable. Report word counts were identical.

Just 4% of AAI output required major changes. Those occurred in reports with multiple impression items and those where differential diagnosis or disease trajectories were not described in radiologists’ findings.

While the study examined thoracic imaging reports, its overall findings of near-perfect similarity between AAI and RDI could increase radiologists’ confidence in using AI models in other areas.

“The study may also help radiology practices establish performance metrics for validating AI developers’ models prior to purchase and deployment,” said Sheela Agarwal, MD, MBA, chief medical information officer at Nuance Communications. “The confidence gained in turn could increase adoption of AI tools to improve reporting efficiency, reduce the burdens of staff shortages and increase patient access to imaging even as volumes grow.”




## Beyond the impression

Increase efficiency,  
reduce errors,  
drive quality

Learn more at  
**booth #3300**





American Association of  
Physicians in Medicine

## Answer

**B** The field is very homogenous for a diameter that is roughly 40cm (about the diameter of two basketballs). Outside of this diameter homogeneity may be much worse leading to artifacts. This is why the periphery of large patient typically have poor fat saturation.

## Network and Get Social During RSNA 2022

*With more attendees planning a return to Chicago, RSNA is offering more ways to connect in person and network with colleagues and industry professionals*

Meeting.RSNA.org or the meeting app make it easy to connect with colleagues and exhibitors during the meeting. Whether you are online or on the app, your schedule of sessions and networking opportunities will sync for a seamless experience everywhere you go.

Two new social events are scheduled for Wednesday, Nov. 30, which will extend your connections beyond regular meeting hours.

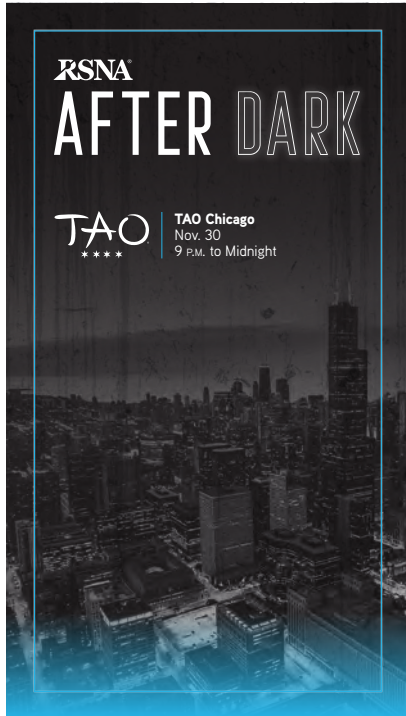
From 2 to 4 p.m., don’t miss Last Call at the Exhibit Halls, a free event that provides

attendees with the opportunity to engage with exhibitors, friends and colleagues. Participating exhibitors will be serving appetizers and refreshments.

That same evening, join us from 9 p.m. to midnight for RSNA After Dark. This ticketed event takes place at TAO Chicago, a popular nightclub located in an historic building in the vibrant River North neighborhood. Advance purchase is required and can be completed at [RSNA.org/Register](https://www.rsna.org/Register).

RSNA  
**AFTER DARK**

TAO  
Nov. 30  
9 P.M. to Midnight







LORI E. LIGHTFOOT  
MAYOR



OFFICE OF THE MAYOR  
CITY OF CHICAGO

November 27, 2022

Dear Friends:

On behalf of the City of Chicago, I am honored to welcome all those gathered for the Radiological Society of North America's 108th Scientific Assembly and Annual Meeting.

Since its founding, the Radiological Society of North America (RSNA) has worked to advance the knowledge and technology of radiology. RSNA provides its members the education and resources for continuing professional education, including five peer-reviewed journals, online and in person courses and workshops, and funding opportunities through the Research & Education Foundation.

This year's Meeting brings together radiologists, radiation oncologists, and technologists to network, inspire, and learn. With a full schedule of plenary sessions, educational courses, science presentations, and technical exhibits, attendees will gain the tools and resources needed to move the radiology industry forward. I commend the Radiological Society of North America for their dedication to education and innovation in radiology.

I hope that during your stay in Chicago you take the time to see all the City has to offer. Explore our downtown and lakefront areas, tour the vibrant neighborhoods across our city, sample our diverse cuisine, visit our distinguished universities, and our world-class museums.

I hope your event is memorable and enjoyable. Best wishes for continued success.

Sincerely,  
*Lori E. Lightfoot*  
Mayor

# Meeting Experience at RSNA 2022

*Find everything you need to know to navigate the annual meeting*

## Badge Pickup and Onsite Registration

Attendees are encouraged to complete their registration in advance online at [RSNA.org/Register](https://www.rsna.org/Register) or at designated registration areas in McCormick Place (*see below*).

Badges will not be mailed in advance and should be picked up at either of the two designated registration locations in McCormick Place. A valid photo ID is required.

Your badge serves as a virtual business card and is encoded with demographic information you provided during registration. Upon request, exhibitors who have lead retrieval may scan your badge to access your contact information. Badge pickup and onsite registration is sponsored by Canon Medical.

## Badge Pickup/Registration Locations

*South Building, Level 1, Room S100*

Friday – Saturday ..... 8 a.m.–4:30 p.m.

Sunday – Wednesday .... 7 a.m.–5 p.m.

Thursday ..... 7 a.m.–3 p.m.

*Lakeside Center East Building, Level 2, Hall E*

Sunday – Wednesday .... 7 a.m.–5 p.m.

Thursday ..... 7 a.m.–3 p.m.

## Ribbon Pick Up

All badge ribbons for committee, council or group work will be available for pickup during the meeting on our self-serve Ribbon Wall located in the Connections Center.

## Official Meeting Bag and Meeting Guide

Attendees can pick up the official meeting bag and Meeting Guide at the self-serve distribution areas located in the Lakeside Center East, Level 2 and South Building, Level 1 near S100 Registration.

The RSNA 2022 Meeting Guide is a convenient reference to course and event information, floor plans at McCormick Place, transportation and dining. In addition to the Meeting Guide, use the official meeting app or Meeting Central at [Meeting.RSNA.org](https://www.meeting.rsna.org) to find presentations and build your schedule.

*The RSNA 2022 meeting app is sponsored by Hologic.*

## Free Wi-Fi

Free wireless connectivity is available throughout McCormick Place.

*Please note: the wireless networks are not secure and should not be used for sending sensitive information.*

## RSNA Right Now

This daily e-blast is sent to all RSNA 2022 registered attendees throughout the week of the annual meeting and features information about upcoming programming, events and promotional offers from our corporate partners.

## Help Onsite

Need assistance? Visit one of our Information Desks in the Grand Concourse, Level 3 or in the Connections Center, Lakeside Center East, Level 3, where RSNA staff can assist with general information.

Want to get ahead of plans for the next annual meeting? Attendees can reserve RSNA 2023 hotel rooms at the Information Desk in the Grand Concourse.

## Health and Safety Information

As a health care organization, RSNA is strongly committed to protecting the health and safety of all meeting attendees and personnel.

The Society is actively working with the City of Chicago and McCormick Place to implement public health protocols and best practices to provide the safest possible meeting environment. We will continue to monitor recommendations issued by the CDC and state/local health authorities and will adjust health and safety protocols as needed.

RSNA 2022 will be a mask-friendly environment. Attendees may choose whether to wear a face mask based on their personal health assessment and comfort level onsite.

Please help us keep everyone healthy and safe. Avoid traveling if you are feeling ill or experiencing flu-like symptoms or a rash.

## Onsite COVID-19 Testing Suite

*North Building, Level 1, Room N138*

Sunday–Wednesday ..... 8 a.m.–5 p.m.

Thursday ..... 8 a.m.–noon

The following tests are available onsite:

- Rapid Antigen Tests, \$50, results in 15 minutes
- Rapid LAMP Molecular NAAT, \$150, results in 30 minutes
- Rapid RT-PCR, \$300, results in 30 minutes

For the most up-to-date information regarding COVID-19 testing and precautions, go to the CDC website at: [www.cdc.gov/coronavirus/2019-ncov/index.html](https://www.cdc.gov/coronavirus/2019-ncov/index.html).



Booth #4540



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In the business of radiology,  
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*Thrive***

Radiology departments are experiencing an ever-growing list of challenges, that can prevent smooth workflow and may ultimately affect patient care.

At RSNA 2022, **We Want to Help You Thrive** using the latest technology to improve productivity and efficiency.

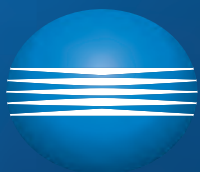
**Visit the Bayer Booth: 2519**  
**Visit our AI Booth: 4729**  
**Attend our live and virtual sessions**



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## Endless Possibilities for Better Solutions

Transforming diagnostic capabilities with cutting-edge technology that goes beyond the status quo. Enhanced imaging solutions that inspire and instill the confidence you need to make better decisions, sooner.

Discover what's possible  
at RSNA booth #2146