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PAGES 52

INDIA'S FOREMOST RADIOLOGY AND IMAGING MAGAZINE

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Express Radiology focuses on 'Empowering Radiology through Technology and Innovation', inspired by the IRIA 2026 theme, and explores how digital tools and emerging technologies are shaping the future of imaging in India



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EDITOR'S NOTE

EXPRESS RADIOLOGY | 2026



VIVEKA ROYCHOWDHURY, EDITOR
viveka.r@expressindia.com

Balancing technology, innovation with responsibility

Setting aside fears that technology threatens humankind, the upcoming 78th Annual National Conference of the Indian Radiological & Imaging Association (IRIA), in Hyderabad from 29 January to 1 February 2026, has chosen “Empowering Radiology through Technology and Innovation” as the theme.

This is a welcome future looking stance. Understanding the new is the first step to benefit from this change. And modern radiology and imaging have already progressed far down the technology and innovation path. All that is required is a balanced approach to upskill radiologists so that technology and innovations do not threaten their autonomy but enhance accuracy and productivity.

As per various industry estimates, India has a growing deficit of radiologists, with estimates around 20,000 professionals for over 1.4 billion people. The ratio of approximately one radiologist per 100,000 people, is far below global recommendations, And has a detrimental impact on healthcare outcomes, with delays in diagnoses, especially in rural areas. This is where innovative use of technologies can plug the gaps. Teleradiology is already meeting growing imaging demands while AI is helping scan more scans, more accurately and in less time.

WHILE IRIA 2026 WILL FOCUS ON “EMPOWERING RADIOLOGY THROUGH TECHNOLOGY AND INNOVATION”, THE FRATERNITY WILL ALSO HAVE TO DELIBERATE ON THE MORE FUNDAMENTAL QUESTION: HOW DO WE EMPOWER RADIOLOGISTS ON THE RESPONSIBLE USE OF TECHNOLOGY AND INNOVATION?

But there is another side to AI and technology. A recent report, the first assessment of AI integration into health systems across the whole of the WHO European Region, analyses the opportunities as well as challenges, based on findings from the 2024–2025 survey on AI for health care. While the opportunities are well known, the challenges raise serious concerns. The report highlights equity and accessibility gaps which could lead to exclusion, lacunae in legal accountability which

could endanger patient rights and digital privacy.

Specific to radiology and imaging services, AI-guided services might suffer from algorithmic bias leading to disparities as they might not have been trained on patients from India, leading to false negatives and false positives. The EU report talks of data security/privacy breaches, lack of transparency (black box problem), potential for overdiagnosis, deskilling or burnout of radiologists, integration issues with existing systems, and systemic errors from model failures or dataset shifts, all requiring robust ethical guidelines, validation, and oversight. Oversight will be required to differentiate hallucinations leading to misreading of complex scans and images.

All medical technology comes at a cost, creating gaps in equitable and fair distribution across the population. Algorithms and medtech machines cannot be taught to be fair; it is human intelligence and users who will have to exercise judgement on fair use, guarding patient privacy and exploitation.

While IRIA 2026 will focus on “Empowering Radiology through Technology and Innovation”, the fraternity will also have to deliberate on the more fundamental question: how do we empower radiologists on the responsible use of technology and innovation?

CONTENTS

EXPRESS RADIOLOGY 2026

WELCOME MESSAGE IRIA 2026, HYDERABAD



Dr Gurdeep Singh
President IRIA, New Delhi



Dr K. Prabhakar Reddy
Chairman, Organizing Committee
78th Annual Conference of IRIA – 2026



Dr P. Krishna Mohan
Organising Secretary
78th Annual Conference of IRIA – 2026

INTERVIEW



P13: Nelson David Corda
Managing Director & General Manager –
India Region



P15: Ratish S Nair
CEO, Sanrad Medical Systems



P18: Brijesh Suneja
Managing Director, Phantom Healthcare



P21: Navaneeth Krishnan
CEO, Sanrad Infotech



P25: Dr Matthias Lampe
Radiation Oncologist and Partner at DTZ,
Germany

IRIA 2026

27 IRIA 2026 to bring together the global radiology community in Hyderabad

COVER STORY P39: Radiology in the age of tech



Dr Sunitha Palasamudram



Dr Aakaar Kapoor



Dr Purendra Bhasin



Dr Bharat Aggarwal



Dr Rajeev Sivashankar



Dr Kamlesh Kumar



Dr Avik Bhattacharya



Dr Indresh Desai

PRODUCT UPDATE

33 Contrast injection systems: Powering connected, precise and safe contrast delivery

35 Taking radiology innovation to the remotest corners of the world

37 The Digital PET-CT represents the future of medical imaging

INSIGHT

38 Seeing the unseen: How advanced breast imaging is transforming early diagnosis and surgery

39 Precision radiation therapy: How TomoTherapy is revolutionising cancer treatment

41 Empowering radiology with technology and innovation: An Indian perspective

42 Radiology in 2026 is no longer a "back-office" function

44 How digital transformation is reshaping radiology practices

46 Role of radiology in modern healthcare

46 Role of radiology in modern healthcare

47 Radiology's role in early detection of vision-threatening disorders

49 Trends that will define the radiology industry in the next decade

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WELCOME MESSAGE IRIA 2026, HYDERABAD

IRIA 2026 Hyderabad promises an inspiring blend of scientific excellence, hands-on learning, and visionary dialogue

I would like to extend my sincere gratitude to the Express Healthcare division of Indian Express Healthcare Pvt. Ltd. for their dedicated efforts in bringing forth the Express Radiology Special Edition and the daily news bulletin RAD Daily; during the 78th Annual Conference of IRIA, 2026 Hyderabad (IRIA 2026). It will enhance the engagement and provide a quick daily snapshot of conference highlights to all the delegates.

It gives me great pleasure to extend a warm welcome to all delegates, faculty members, Trade partners, Residents and young radiologists attending the 78th Annual Conference of IRIA, 2026 Hyderabad. This year's theme, "Empowering Radiology through Technology and Innovation," reflects our shared commitment to shaping a future where cutting-edge tools, intelligent systems, and human expertise come together to elevate patient care.

IRIA 2026 Hyderabad promises an inspiring blend of scientific excellence, hands-on learning, and



Dr Gurdeep Singh
President IRIA, New Delhi

AS WE GATHER TO
CELEBRATE PROGRESS AND
PUSH BOUNDARIES, I HOPE
EACH OF YOU FINDS
RENEWED MOTIVATION

visionary dialogue. Participants can look forward to state-of-the-art workshops, high-impact plenaries, AI-driven imaging showcases, and interactive sessions that highlight the transformative potential of emerging technologies. From precision diagnostics to workflow automation and interdisciplinary collaboration, this year's program is designed to spark ideas, strengthen skills, and open new pathways for innovation.

As we gather to celebrate progress and push boundaries, I hope each of you finds renewed motivation, meaningful connections, and a deeper sense of purpose in the work we do. Together, let us embrace the future of radiology with confidence, curiosity, and collective ambition.

I am sure that this conference will provide a great platform to the delegates and young radiologists and residents for the exchange of knowledge in a rapidly advancing field of radiology and imaging.

Wishing you an enriching and memorable 78th Annual Conference of IRIA, 2026 Hyderabad.

IRIA has always been more than a conference — it is a meeting of minds and hearts

Dear Esteemed Guests,

Namaskaram. Atithi Devo Bhava.

With these timeless words, deeply rooted in our Indian tradition, it is our privilege and joy to extend a warm and heartfelt welcome to all distinguished delegates, respected seniors, eminent faculty, industry partners, colleagues, and friends to the 78th Annual Conference of the Indian Radiological & Imaging Association (IRIA 2026), hosted by the Telangana State Chapter, from 29 January to 1 February 2026, at the Hyderabad International Convention & Exhibition Centre (HiTEx), Hyderabad.

IRIA has always been more than a conference — it is a meeting of minds and hearts. This annual gathering brings together radiologists, researchers, academicians, and imaging professionals from across India and around the world, offering a vibrant platform for learning, sharing, and collaboration. The scientific program is thoughtfully designed to be engaging and practical, featuring updated knowledge, emerging technologies, meaningful discussions, and hands-on learning that can be carried back into daily clinical practice.

We meet at a remarkable time in radiology, where innovation and artificial intelligence are steadily reshaping the way we image,



Dr K. Prabhakar Reddy
Chairman, Organizing Committee
78th Annual Conference of IRIA
(IRIA 2026)

**WE MEET AT A REMARKABLE
TIME IN RADIOLOGY, WHERE
INNOVATION AND AI ARE
STEADILY RESHAPING THE
WAY WE IMAGE, INTERPRET,
AND SERVE PATIENTS**

interpret, and serve patients. While technology supports speed and precision, it is the radiologist's wisdom, ethics, and compassion that remain at the centre of patient care. IRIA 2026 celebrates this balance — where progress strengthens, not replaces, the human touch.

Hyderabad — the City of Pearls — offers the perfect setting for this gathering, where heritage and modern spirit coexist harmoniously. We hope you enjoy the city's warmth, its rich culture, and its celebrated cuisine, including the iconic Hyderabad Biryani and Qubani ka Meetha, along with a wide variety of Indian and international flavours. Carefully curated cultural evenings will add colour and joy to your stay.

Our organising team, guided by the Central IRIA leadership, is working with sincerity and dedication to ensure your comfort and to make your visit smooth, pleasant, and memorable.

With folded hands, we welcome you to IRIA 2026 and look forward to your active participation, meaningful interactions, and a truly fulfilling academic and cultural experience.

Warm regards,
Dr K. Prabhakar Reddy
Chairman,
Organizing Committee
78th Annual Conference of IRIA
(IRIA 2026)

IRIA 2026 stands as a landmark academic event

It is with great pleasure and pride that I welcome you to the 78th Annual Conference of the Indian Radiological & Imaging Association (IRIA) – 2026, being hosted in the dynamic and culturally vibrant city of Hyderabad. As we begin a new year filled with hope and renewed purpose, I extend my warm greetings to all delegates, faculty members, academicians, residents, and industry partners who are part of this prestigious scientific congregation.

The theme of IRIA 2026, “Empowering Radiology through Technology and Innovation,” aptly captures the spirit of contemporary radiology. We are witnessing an extraordinary phase in which Artificial Intelligence, advanced imaging techniques, data-driven diagnostics, and digital workflows are reshaping the way radiology is practiced.

This theme emphasizes not only the adoption of cutting-edge technology but also the empowerment of radiologists to deliver precise, efficient, and patient-centric care while maintaining clinical leadership and ethical responsibility.

IRIA 2026 stands as a landmark academic event, bringing together over 3000 delegates, more than 100 international faculty, and over 400 national faculty. The scientific program has been thoughtfully and meticulously curated, featuring over 500 talks across all subspecialties of radiology, conducted in 8



Dr P. Krishna Mohan
Organising Secretary
78th Annual Conference of IRIA – 2026

THE COMPREHENSIVE
TRADE EXHIBITION WILL
SHOWCASE THE LATEST
INNOVATIONS AND
TECHNOLOGICAL
ADVANCEMENTS
SHAPING THE FUTURE OF
IMAGING

international-standard halls. The conference highlights include scientific exhibits, posters, proffered and competitive paper sessions, subspecialty quizzes, Meet-the-Professor programs, film reading sessions by eminent radiologists, app-based Case of the Day quizzes, and focused sessions on Artificial Intelligence, Big Data, and emerging imaging technologies. Inter-society symposia with international associations will further enrich the academic dialogue.

The comprehensive trade exhibition will showcase the latest innovations and technological advancements shaping the future of imaging. Complementing the academic rigor, the conference also offers carefully curated culinary experiences and cultural programs, providing opportunities for relaxation, networking, and fellowship.

I express my sincere gratitude to our Organising Chairman, Dr. K. Prabhakar Reddy, and to all committee members and volunteers whose dedication and teamwork have transformed a vision into reality. On behalf of the Organising Committee, I wish all delegates a rewarding academic experience and a memorable stay in Hyderabad.

Long live IRIA.

With warm regards,

Dr P. Krishna Mohan
Organising Secretary
78th Annual Conference of
IRIA – 2026

Empowering radiology through technology and innovation

Nelson David Corda, Managing Director & General Manager – India Region, stresses that as radiology rapidly evolves with artificial intelligence, automation, and advanced digital platforms, empowering clinicians with intuitive and scalable technology has become critical

IRIA 2026 focuses on 'Empowering Radiology through Technology and Innovation'. How is your company contributing to this vision through your latest products or solutions?

Carestream is directly contributing to the vision of empowering radiology through technology and innovation by delivering Image Suite V4 Software, a complete digital image acquisition and management solution designed to optimize workflow efficiency.

- We integrate AI-powered features such as Bone Suppression, Pneumothorax Visualisation, and SmartGrid processing to enhance diagnostic confidence without additional patient dose.
- Our solutions are flexible and scalable, enabling smaller clinics, orthopedic practices, and hospitals to adopt advanced imaging capabilities at affordable costs.
- By combining intuitive interfaces with automation, we empower radiologists and technologists to focus more on patient care and less on operational complexity.

What innovative technologies or flagship solutions are you showcasing at IRIA 2026, and how do they address current gaps in diagnostic accuracy, workflow efficiency, or patient outcomes?

At IRIA 2026, Carestream is showcasing flagship innovations that address critical gaps in diagnostic accuracy, workflow efficiency, and



patient outcomes:

- **Automatic Long-Length Image Stitching (LLI):** Seamlessly creates composite images for scoliosis, spine, and long-leg exams, reducing exam time and improving accuracy.
- **Bone Suppression Software:** AI-driven companion images that suppress ribs/clavicles, enhancing soft tissue visualisation and improving pathology detection.
- **SmartGrid Technology:** Delivers grid-like image quality without a physical grid, reducing scatter radiation, lowering patient dose, and improving workflow.
- **Tube and Line Visualisation:** Provides clearer visualisation of PICC lines and tubes, ensuring accurate placement and boosting clinical confidence.
- **Cross-System Detector Sharing:** Enables cost-effective expansion by sharing detectors across systems,

enhancing flexibility and productivity.

Radiology is rapidly evolving with AI, automation, and advanced imaging platforms. How is your organisation integrating these advancements into your product roadmap for the Indian market?

Carestream's product roadmap for the Indian market is deeply aligned with AI and automation trends:

- AI-powered image processing algorithms are embedded across our solutions to deliver superior diagnostic confidence.
- Automation in workflow—from patient registration to image acquisition, stitching, and reporting—reduces turnaround times and improves efficiency in high-volume Indian healthcare settings.
- Scalable architecture allows tiered adoption: smaller clinics can start with core modules and expand to PACS, advanced measurement tools, or web viewers as demand grows.
- Our focus is on affordable innovation, ensuring advanced imaging reaches tier 2 and tier 3 cities without compromising quality.

What key insights or collaborations do you hope to gain from participating in IRIA 2026, particularly with radiologists, hospital decision-makers, and academic leaders?

Through IRIA 2026, Carestream aims to:

- Engage with radiologists and hospital

decision-makers to understand evolving diagnostic challenges and workflow needs.

- Collaborate with academic leaders to explore AI-driven research opportunities and clinical validation studies.
- Gain insights into regional healthcare priorities—such as affordability, accessibility, and digital transformation—to refine our roadmap for India.
- Strengthen partnerships that accelerate adoption of precision diagnostics and digital imaging ecosystems across diverse healthcare settings.

With the increasing demand for precision diagnostics and digital transformation in radiology, how do you see your technology shaping the future of imaging practices across India's tier 1, 2, and 3 healthcare settings?

Carestream's technology is designed to democratise access to advanced imaging:

- **Tier 1 cities:** Enable large hospitals and diagnostic centers to leverage advanced AI features, PACS integration, and multi-system detector sharing for high patient volumes.
- **Tier 2 cities:** Provide scalable, cost-effective solutions like Image Suite V4 with optional modules, ensuring mid-sized facilities can adopt advanced imaging without prohibitive costs.
- **Tier 3 towns and rural clinics:** Offer intuitive, affordable, and portable solutions that improve diagnostic reach, reduce patient travel, and support tele-radiology workflows.
- Across all tiers, our emphasis on workflow efficiency, diagnostic confidence, and cybersecurity ensures sustainable digital transformation in

Increased Diagnostic Confidence with Bone Suppression.

Visualizing soft tissue in a chest radiograph can be difficult when images of the ribs interfere with tissue image clarity. Leveraging powerful form of artificial intelligence, our Bone Suppression feature automatically generates a companion image that suppresses the appearance of bone while enhancing soft tissue visualization. The posterior ribs and clavicles suppressed increases clinical confidence in pathology assessments and allows clearer visualization and assessment of pathologies such as lung nodules. The software generates the companion image without any additional exposure for the patient or additional set-up for the technologist. The Bone Suppression feature is a major step forward in the clinical efficacy of chest radiographs.



Reduced risk of missed diagnoses and faster treatment with **Pneumothorax Visualization**. Save time and streamline workflow with software that automatically generates a companion image from the original exposure – optimized to accentuate the appearance of free air in the chest cavity.



Enhanced DR Image Quality. Lower Dose, Less Scatter, Better Workflow. **SmartGrid Technology**

SmartGrid processing delivers image quality comparable to that of traditional anti-scatter grids – without the need for a physical grid. This innovative feature enhances digital radiography (DR) images by reducing scatter radiation, enabling lower patient dose and improving overall workflow.



radiology.

Carestream's participation at IRIA 2026 underscores our commitment to empowering radiology through technology and innovation. With Image Suite V4 Software and advanced Focus/Focus HD detectors, we are

Enhanced Tube and Line Visualization

Companion image created provides clearer, easier visualization of PICC lines and tubes. It increases confidence that tubes and lines are placed correctly - and remain in position.



Long-Length Image Automatic Stitching Enhances Workflow.

Capturing high-quality long-length images of legs or spine can be challenging and time consuming for the radiographers. CARESTREAM Image Suite V4 software now allows automatic stitching of the captured images with high accuracy, saving exam time, speeding improving workflow, decreasing reducing repeats and allowing for a higher level of superior patient diagnosis. The image-processing algorithm stitches the individual images together to create a smooth and seamless composite image for diagnosis.

Images are captured individually and stitched automatically together by the software in 3 simple steps.



Composite image after processing complete.



delivering AI-powered imaging, automation-driven workflows, and scalable solutions that enhance diagnostic confidence while reducing costs and patient dose.

By combining innovative features—such as Bone Suppression, SmartGrid, Pneumothorax Visualisation, Tube & Line Visualization, and Automatic Long-Length Image Stitching—with flexible deployment options, we are shaping the future of imaging across India's tier 1, 2, and 3 healthcare settings. Our goal is clear: to make precision diagnostics, digital transformation, and superior patient care accessible to every facility, from large hospitals to smaller clinics, ensuring radiology continues to evolve as a cornerstone of modern healthcare.

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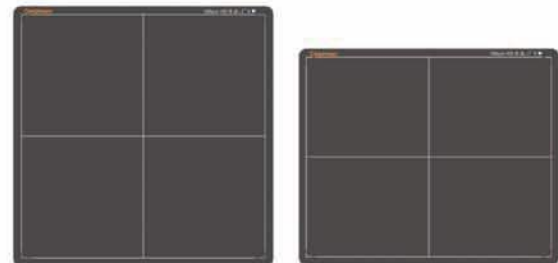
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Empowering radiology through accessible innovation: Sanrad Medical Systems at IRIA 2026

Ratish S Nair, CEO, Sanrad Medical Systems, outlines how the organisation is translating global innovation into practical, India-ready imaging solutions

IRIA 2026 focuses on ‘Empowering Radiology through Technology and Innovation’. How is your company contributing to this vision through your latest products or solutions?

At IRIA 2026, the theme of “Empowering Radiology through Technology and Innovation” resonates strongly with our company’s core vision. Our focus has consistently been on making advanced imaging technology more accessible, affordable, reliable, and clinically impactful for healthcare providers across India.

We are contributing to this vision through a combination of technology-driven imaging solutions, local capability building, and service innovation. In the CT and MRI domain, we are working towards systems that offer high diagnostic confidence with optimised dose, faster workflows, and improved patient comfort—leveraging intelligent automation, advanced reconstruction techniques, and robust system design.

Equally important is our emphasis on Make in India initiatives. By moving towards local assembly and manufacturing, we aim to deliver cost-effective, regulatory-compliant imaging



systems while ensuring long-term service sustainability and quicker response times for our customers.

Beyond hardware, we are investing in training, application support, and lifecycle service excellence, enabling radiologists and technologists to fully utilise technology in their daily practice. Our approach is holistic—combining innovation in products, processes, and support systems—to

truly empower radiology professionals and contribute meaningfully to the future of diagnostic imaging in India.

What innovative technologies or flagship solutions are you showcasing at IRIA 2026, and how do they address current gaps in diagnostic accuracy, workflow efficiency, or patient outcomes?

At IRIA 2026, we are showcasing a

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comprehensive portfolio of advanced CT, and MRI, solutions from Fujifilm, designed to address some of the most pressing challenges faced by radiology departments today—namely diagnostic accuracy, workflow efficiency, and patient-centric care.

From a diagnostic standpoint, these systems incorporate advanced detector technology, high-performance image reconstruction, and AI-assisted processing to deliver consistently high image quality, even at lower radiation doses or shorter scan times. This directly supports improved lesion detection, better tissue characterisation, and greater diagnostic confidence across a wide range of clinical applications.

In terms of workflow efficiency, the solutions on display are built around intelligent automation—streamlining patient positioning, protocol selection, and image processing. This helps reduce examination time, minimise repeat scans, and improve throughput, which is especially critical in high-volume imaging centers and tertiary care hospitals.

Equally important is the focus on patient outcomes and experience. The CT, MRI, and PET-CT platforms we are presenting emphasise faster scans, reduced radiation exposure, quieter MRI environments, and ergonomically designed systems that enhance patient comfort and compliance. These factors collectively contribute to better clinical outcomes by enabling accurate, timely diagnoses while ensuring a more positive patient experience.

Overall, the technologies we are



RADIOLOGY IN INDIA IS AT A PIVOTAL STAGE, WHERE THE ADOPTION OF AI, AUTOMATION, AND ADVANCED IMAGING PLATFORMS MUST BE BOTH CLINICALLY MEANINGFUL AND OPERATIONALLY PRACTICAL. OUR APPROACH TO INTEGRATING THESE ADVANCEMENTS INTO OUR PRODUCT ROADMAP IS GUIDED BY THREE KEY PRINCIPLES: CLINICAL RELEVANCE, SCALABILITY, AND LONG-TERM SUSTAINABILITY

showcasing at IRIA 2026 reflect our commitment to bridging current gaps in imaging—by combining innovation, clinical relevance, and operational practicality to support radiologists in delivering high-quality, efficient, and patient-focused diagnostic care.

Radiology is rapidly evolving with AI, automation, and advanced imaging platforms. How is your organisation integrating these advancements into your product roadmap for the Indian market?

Radiology in India is at a pivotal stage, where the adoption of AI, automation, and advanced imaging platforms must be both clinically meaningful and operationally practical. Our approach to integrating these advancements into our product roadmap is guided by three key principles: clinical relevance, scalability, and long-term sustainability.

We are working closely with our global technology partners, including Fujifilm, to introduce AI-enabled imaging solutions that enhance diagnostic confidence while remaining adaptable to the realities

of the Indian healthcare environment. These include AI-assisted image reconstruction, automated positioning and protocol optimisation, and intelligent post-processing tools that support radiologists in achieving consistent, high-quality outcomes.

Automation plays a crucial role in addressing challenges such as high patient volumes and workforce constraints. By embedding workflow automation into CT, and MRI platforms, we aim to reduce manual dependency, minimise variability, and improve turnaround times—without compromising on image quality or patient safety.

Importantly, our roadmap for India goes beyond technology adoption alone. We focus on localised validation, regulatory compliance, and structured training programs to ensure that advanced features are effectively utilised in day-to-day clinical practice. This includes application training for radiologists and technologists, as well as service teams trained to support increasingly software-driven imaging platforms.

By combining global innovation

with local insight, our objective is to deliver future-ready imaging solutions that are not only technologically advanced but also accessible, reliable, and impactful for the Indian radiology ecosystem.

What key insights or collaborations do you hope to gain from participating in IRIA 2026, particularly with radiologists, hospital decision-makers, and academic leaders?

IRIA 2026 provides a unique platform where clinical expertise, academic insight, and healthcare decision-making come together, and our participation is driven by a strong intent to listen, learn, and collaborate.

From interactions with practicing radiologists, we hope to gain deeper insights into evolving clinical needs, reporting challenges, and subspecialty requirements. These inputs are invaluable in shaping imaging solutions that are not only technologically advanced but also aligned with real-world diagnostic workflows and clinical priorities.

Engagement with hospital administrators and decision-makers allows us to better understand operational expectations around efficiency, lifecycle costs, scalability, and service reliability. Such dialogue helps us design solutions that balance clinical excellence with sustainable operational models, which is increasingly critical in today's healthcare environment.

Equally important are collaborations with academic leaders and teaching institutions, where we see opportunities for joint initiatives in research, training, and

skill development. These partnerships play a vital role in advancing evidence-based imaging practices, nurturing the next generation of radiologists, and accelerating the responsible adoption of emerging technologies such as AI and advanced imaging analytics.

Overall, IRIA 2026 serves as a catalyst for meaningful collaboration, and we view it as an opportunity to co-create solutions with the radiology community—ensuring that innovation is driven by shared knowledge, clinical relevance, and long-term impact.

With the increasing demand for precision diagnostics and digital transformation in radiology, how do you see your technology shaping the future of imaging practices across India's tier 1, 2, and 3 healthcare settings?

The future of radiology in India will be defined by two parallel imperatives—precision diagnostics and equitable access to advanced imaging. As digital transformation accelerates, our role is to ensure that technology is not confined to tier 1 institutions alone, but is scalable and impactful across tier 1, 2, and 3 healthcare settings.

In tier 1 centers, advanced CT, and MRI, platforms will continue to support highly specialised imaging, multi-modality integration, and data-driven clinical decision-making. Here, our focus is on enabling high-end diagnostics through AI-assisted imaging, advanced analytics, and seamless digital workflows that enhance accuracy and efficiency.

For tier 2 and tier 3 healthcare

facilities, the emphasis shifts to robust, cost-effective, and easy-to-operate systems that deliver consistent image quality with minimal complexity. By leveraging automation, optimised protocols, and remote service capabilities, we aim to empower smaller centers with technology that ensures reliable diagnostics, faster turnaround times, and reduced dependency on highly specialised manpower.

Digital connectivity is a key enabler across all tiers. Through integrated software platforms, remote monitoring, and standardised imaging workflows, we see a future where radiology services are more collaborative, data-driven, and resilient—supporting tele-radiology, continuous system uptime, and ongoing skill development.

Ultimately, our vision is to shape a radiology ecosystem where advanced imaging technology supports clinical excellence, operational sustainability, and improved patient outcomes, regardless of geography. By aligning innovation with local needs, we believe we can play a meaningful role in strengthening India's diagnostic infrastructure and advancing the future of radiology nationwide.

Finally –

Our mission is to ensure that advanced imaging technology translates into better clinical diagnosis and improved patient outcomes—irrespective of where care is delivered. Empowering radiology across every tier of India is central to our vision for the future.

Empowering radiology means making advanced diagnostic technology accessible to every healthcare facility

Brijesh Suneja, Managing Director, Phantom Healthcare, speaks to ***Express Radiology*** and shares insights on Phantom Healthcare's role in democratising advanced imaging through refurbished technology, AI-enabled solutions, comprehensive service support and regulatory expertise, while addressing the evolving needs of radiology across India's tier 1, tier 2, tier 3, rural and tribal healthcare settings

IRIA 2026 focuses on "Empowering Radiology through Technology and Innovation." How is your company contributing to this vision through its latest products or solutions?

At Phantom Healthcare, we firmly believe that empowering radiology means making advanced diagnostic technology accessible to every healthcare facility, regardless of location or budget constraints. Since 2011, we have been contributing to this vision by providing high-quality refurbished medical imaging equipment, including MRI Machines, CT Scanners, PET-CT Systems, Cath Labs, Gamma Cameras, SPECT-CT, and Bone Densitometers.

Our contribution extends beyond just equipment sales. We offer comprehensive service packages (AMC/CMC), repairs, upgrades, and one of India's largest spare parts inventories. We also provide regulatory support, including AERB approval assistance and PNDT documentation through our accredited labs. Our state-of-the-art refurbishment facility near Faridabad houses one of the largest warehouses among third-party vendors in India, enabling us to deliver quality-assured systems with quick turnaround times.



What truly sets us apart is our commitment to bridging the healthcare gap in rural and tribal areas of India. By offering cost-effective solutions without compromising on quality, we are enabling tier 2, tier 3, and remote healthcare facilities to

provide world-class diagnostics to patients who previously had limited access.

What innovative technologies or flagship solutions are you showcasing at IRIA 2026, and how do



Health Minister - Chhattisgarh at Phantom Healthcare's Stall in IRIA STATE Conference of Chhattisgarh, Raipur

they address current gaps in diagnostic accuracy, workflow efficiency, or patient outcomes?

At IRIA 2026, Phantom Healthcare is excited to showcase several innovative solutions that address critical gaps in Indian healthcare:

AI-powered remote monitoring:

Through our strategic collaboration with Glassbeam Inc., USA, we are introducing AI-driven predictive analytics and remote monitoring solutions. This technology enables real-time equipment health monitoring, predictive maintenance alerts, and reduced downtime — ensuring healthcare facilities maintain optimal operational efficiency and uninterrupted patient care.

Refurbished excellence display: We will be showcasing open-cut models and prototypes of MRI and console systems, providing an educational experience for students, radiologists, and potential buyers. Visitors can explore internal components, including crystals and advanced imaging hardware, understanding the technology behind superior diagnostics.

Comprehensive service ecosystem:

Our flagship AMC/CMC packages, rapid repair services, and extensive

spare parts network address the critical gap of equipment downtime that many facilities face. With 24/7 technical support and experienced service engineers across India, we ensure that diagnostic services remain uninterrupted.

Regulatory services: As an AERB and NABL-accredited agency, we offer complete regulatory compliance support, including NEMA testing, quality assurance, layout planning, and licensing for nuclear medicine and diagnostic radiology facilities.

Radiology is rapidly evolving with AI, automation, and advanced imaging platforms. How is your organisation integrating these advancements into its product roadmap for the Indian market?

The integration of AI and automation represents a paradigm shift in radiology, and Phantom Healthcare is strategically positioning itself to bring these advancements to the Indian market affordably.

AI integration: Our partnership with Glassbeam Inc., USA — a global leader in healthcare AI and machine analytics — enables us to offer AI-powered predictive analytics for equipment monitoring. This integration helps

healthcare facilities transition from reactive to proactive maintenance, significantly reducing unexpected breakdowns and operational costs.

Software upgrades and

modernisation: We specialise in upgrading legacy imaging systems with current software versions, advanced reconstruction algorithms, and enhanced visualisation tools. This approach allows existing facilities to access modern capabilities without the substantial investment required for new equipment.

Digital transformation support: We are helping facilities adopt cloud-based solutions, telemedicine compatibility, and digital workflow integration. Our refurbished systems are equipped with advanced connectivity features enabling seamless integration with hospital information systems and PACS.

Future-ready solutions: Our product roadmap includes scalable solutions that can accommodate future technological advancements. We are continuously evaluating emerging technologies like functional MRI (fMRI), spectral imaging, and hybrid modalities to integrate them into our offerings as they become viable for the refurbished market.

What key insights or collaborations do you hope to gain from participating in IRIA 2026, particularly with radiologists, hospital decision-makers, and academic leaders?

IRIA 2026 represents an invaluable platform for Phantom Healthcare to engage with India's radiology community and strengthen our mission of democratising advanced healthcare technology.

From radiologists: We seek to understand evolving clinical requirements, preferred imaging protocols, and workflow challenges. Their insights help us tailor our refurbishment processes and service offerings to meet real-world clinical demands.

From hospital decision-makers: We aim to explore partnership models that enable smaller hospitals and diagnostic centres to access advanced imaging technology. Understanding procurement challenges, budget constraints, and operational requirements helps us develop customised solutions for different facility types.

From academic leaders: Collaboration with academic institutions is crucial for training the next generation of radiologists and technicians. We hope to establish educational partnerships where our open-display models and prototypes can serve as learning tools for students.

Industry collaborations: We are actively seeking partnerships with AI and software technology leaders, research institutions, and international healthcare networks to expand our capabilities and bring global innovations to Indian healthcare.

Our recent recognition from

THE FUTURE OF INDIAN HEALTHCARE LIES IN ENSURING THAT PRECISION DIAGNOSTICS ARE NOT LIMITED BY GEOGRAPHY OR ECONOMIC CONSTRAINTS. PHANTOM HEALTHCARE'S TECHNOLOGY AND APPROACH ARE UNIQUELY POSITIONED TO SHAPE THIS FUTURE ACROSS ALL TIERS OF HEALTHCARE SETTINGS

Chhattisgarh's Health Minister, Shri Shyam Bihari Jaiswal, who praised our efforts in serving tribal and rural areas, reinforces our commitment to such collaborations that amplify healthcare accessibility.

With the increasing demand for precision diagnostics and digital transformation in radiology, how do you see your technology shaping the future of imaging practices across India's tier 1, tier 2, and tier 3 healthcare settings?

The future of Indian healthcare lies in ensuring that precision diagnostics are not limited by geography or economic constraints. Phantom Healthcare's technology and approach are uniquely positioned to shape this future across all tiers of healthcare settings.

Tier 1 cities: We provide cost-effective upgrades and comprehensive service support to established facilities, helping them maintain cutting-edge capabilities while optimising operational costs. Our AI-powered monitoring solutions ensure maximum uptime for high-volume centres.

Tier 2 and Tier 3 cities: This is where our impact is most transformative. By offering refurbished equipment at 40-60 per cent lower costs compared to new systems, we enable mid-sized

hospitals and diagnostic centres to establish advanced imaging capabilities. Our extensive service network ensures these facilities receive the same quality support as metropolitan centres.

Rural and tribal areas: We are particularly passionate about serving underserved regions. Our cost-effective solutions have enabled healthcare facilities in remote areas of states like Chhattisgarh to provide advanced diagnostics to patients who would otherwise travel hundreds of kilometres for basic imaging services.

Global expansion, local impact: With registered offices in India, UAE (Sharjah), and USA (Chicago). We have active operations across Africa, the Middle East, the Gulf, and Southeast Asian regions. We bring global expertise to local healthcare challenges. Our recently opened Pune office strengthens our presence in Western and Southern India.

At Phantom Healthcare, we envision a future where every patient, regardless of their location, has access to accurate and timely diagnostic imaging. By combining affordability with quality, sustainability with innovation, and global standards with local understanding, we are committed to making this vision a reality.

Making advanced radiology accessible through cloud, SaaS, and teleradiology

Navaneeth Krishnan, CEO, Sanrad Infotech, shares how the company's cloud-first infrastructure, SaaS-based radiology solutions, and focus on high availability and disaster recovery are supporting IRIA 2026's vision of empowering radiology through technology and innovation

IRIA 2026 focuses on 'Empowering Radiology through Technology and Innovation'. How is your company contributing to this vision through your latest products or solutions?

Our mission is strongly aligned with IRIA 2026's focus on "Empowering Radiology through Technology and Innovation." We help by developing our own datacenters and specialised cloud infrastructure, which allows for the smooth SaaS deployment of cutting-edge radiology software with no initial outlay for clients. Disaster recovery storage options and high-availability server configurations guarantee dependable, continuous access to imaging data, fostering innovation without financial constraints for healthcare providers across the country.

What innovative technologies or flagship solutions are you showcasing at IRIA 2026, and how do they address current gaps in diagnostic accuracy, workflow efficiency, or patient outcomes?

We are showcasing cloud platforms at IRIA 2026 that incorporate teleradiology solutions and partnered RIS-PACS fusion software, all driven by our scalable infrastructure. These improve workflow efficiency by automating report generation and



INTERVIEW

data syncing to reduce turnaround times by up to 50 per cent, address diagnostic accuracy through expert remote consultations, and improve patient outcomes through prompt interventions—particularly critical in understaffed or remote Indian hospitals.

Radiology is rapidly evolving with AI, automation, and advanced imaging platforms. How is your organisation integrating these advancements into your product roadmap for the Indian market?

By creating SaaS-ready cloud backends, datacenters, and reliable high-availability systems tailored for the Indian market, our company integrates AI, automation, and advanced imaging into the roadmap. Partnerships enable enterprise-grade diagnostics for hospitals of all sizes by bringing specialised radiology tools to life on our zero-CapEx platforms, utilising AI for automated image analysis and predictive disaster recovery to reduce downtime.

WE ARE SHOWCASING CLOUD PLATFORMS AT IRIA 2026 THAT INCORPORATE TELERADIOLOGY SOLUTIONS AND PARTNERED RIS-PACS FUSION SOFTWARE, ALL DRIVEN BY OUR SCALABLE INFRASTRUCTURE

What key insights or collaborations do you hope to gain from participating in IRIA 2026, particularly with radiologists, hospital decision-makers, and academic leaders?

In order to iterate more quickly, we hope to obtain useful insights from radiologists regarding deployment pain points, such as integration with legacy systems and other platforms. Our SaaS model's pilot projects will be

sparked by partnerships with hospital decision-makers, and academic leaders can co-shape research-driven features like improved data redundancy, which will enable customised, free scalability throughout India's diverse healthcare ecosystem.

With the increasing demand for precision diagnostics and digital transformation in radiology, how do you see your technology shaping the future of imaging practices across India's tier 1, 2, and 3 healthcare settings?

With rising demand for precision diagnostics, we believe our cloud datacenters and SaaS platforms will transform imaging by delivering teleradiology and RIS-PACS capabilities to tier 1 centers for high-throughput analytics, tier 2 hospitals for streamlined operations with minimal hardware needs, and tier 3 setups through affordable solutions with high-availability and disaster recovery options—bridging urban-rural divides for uniform, world-class radiology nationwide.



When it comes to nourishing this sector, experts prescribe a regular diet of Express Healthcare. The magazine has been the source of a healthy dose of expert information, incisive category analysis and remedies for industry ailments since 20 years, thereby earning the trust of industry professionals. It's no wonder then that the finest in the field trust the foremost in the field.

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Assistant Professor, PGIMER,
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Bridging the gap between innovation, affordability, and clinical excellence

Truevis Technologies is pioneering a manufacturing-as-a-service model to make advanced imaging and oncology technology accessible across India

IRIA 2026 focuses on 'Empowering Radiology through Technology and Innovation'. How is your company contributing to this vision through your latest products or solutions?

IRIA 2026's theme strongly aligns with our vision at Truevis Technologies. We are building a "Manufacturing as a Service" model in medical equipment to make advanced radiology and oncology technologies more accessible across India. Through partnerships with Neusoft Medical for high-end

imaging and Shinva Medical for oncology therapy, we are introducing CT, MRI, PET-CT, DSA, and Linear Accelerator systems tailored for Indian healthcare needs. Our journey starts with localized assembly and progresses toward full-scale manufacturing at our upcoming facility in AMTZ. By combining global technology, local manufacturing, and strong service infrastructure, we aim to democratise advanced diagnostics and cancer care nationwide.

What innovative technologies or flagship solutions are you showcasing at IRIA 2026, and how do they address current gaps in diagnostic accuracy, workflow efficiency, or patient outcomes?

At IRIA 2026, we are showcasing advanced PET-CT, CT, MRI, and DSA platforms, powered by technologies from Neusoft Medical. These solutions are designed to improve diagnostic accuracy, optimise workflows, and enhance patient outcomes. A key highlight is our PET-CT offering, where Truevis



is among the pioneers working toward bringing high-end PET-CT manufacturing to India. The systems offer high sensitivity, faster acquisition, and superior image clarity, particularly critical for oncology diagnosis and treatment monitoring. Across modalities, intelligent system design and optimised reconstruction algorithms help improve throughput without compromising image quality. Equally important is our focus on seamless after-sales service, ensuring long-term reliability and consistent clinical performance for healthcare providers.

Radiology is rapidly evolving with AI, automation, and advanced imaging platforms. How is your organisation integrating these advancements into your product roadmap for the Indian market?

AI and automation are core to our product roadmap at Truevis Technologies. Our upcoming facility at AMTZ is being developed as a unique experience center that integrates manufacturing, application training, sales, and service support. Our imaging platforms combine advanced hardware with AI-driven algorithms to enhance image quality, reduce operator dependency, and support faster, more accurate clinical decision-making. Innovation is a continuous process for us. Through our collaboration with Neusoft Medical, we consistently adapt global technological advancements to Indian clinical workflows, patient volumes, and operating environments. Our strength lies in technology depth and experienced teams, enabling us to deliver



AT IRIA 2026, WE ARE SHOWCASING ADVANCED PET-CT, CT, MRI, AND DSA PLATFORMS, POWERED BY TECHNOLOGIES FROM NEUSOFT MEDICAL. THESE SOLUTIONS ARE DESIGNED TO IMPROVE DIAGNOSTIC ACCURACY, OPTIMISE WORKFLOWS, AND ENHANCE PATIENT OUTCOMES

scalable, future-ready imaging solutions for the Indian market.

What key insights or collaborations do you hope to gain from participating in IRIA 2026, particularly with radiologists, hospital decision-makers, and academic leaders?

Our participation in IRIA 2026 is driven by our mission to ensure high-end medical technology reaches every region of India, including tier 2, tier 3, and remote areas, at an affordable cost. IRIA offers an excellent platform to showcase advanced imaging solutions from Truevis Technologies, backed by Neusoft Medical, while engaging directly with radiologists, senior clinicians, hospital leaders, and academic experts. We aim to gain practical insights into clinical requirements, workflow challenges, and service expectations, which will help refine our products and support models. We also see strong opportunities for collaboration in clinical validation, training, and long-term technology adoption. These interactions support our commitment to continuous improvement and customer-centric innovation.

With the increasing demand for precision diagnostics and digital transformation in radiology, how do you see your technology shaping the future of imaging practices across India's tier 1, 2, and 3 healthcare settings?

India's demand for advanced healthcare is immense, and a few metropolitan cities cannot meet the diagnostic needs of a population exceeding 1.4 billion. The growing complexity of cancer and critical diseases—along with gaps highlighted during COVID—has reinforced the need for advanced imaging across all regions.

At Truevis Technologies, we are focused on enabling high-end imaging infrastructure across tier 1, tier 2, and tier 3 healthcare settings. Radiology is undergoing a major transformation as advanced diagnostic centers expand beyond metros, driven by patient demand and corporate hospital growth.

We support this evolution with reliable imaging platforms, localised manufacturing, and a strong uptime- and service-focused model, ensuring consistent performance and sustainable healthcare delivery across India.

Innovative Imaging Technologies for a Stronger, Atmanirbhar Bharat

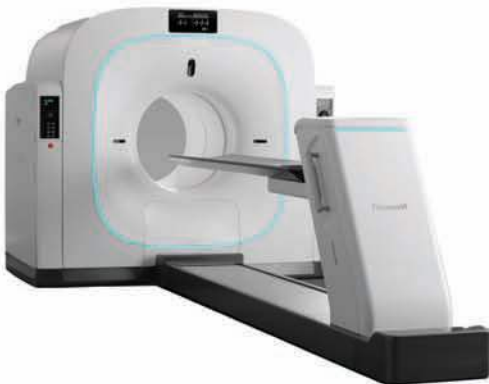
Truevis Technologies is transforming healthcare with world-class diagnostic imaging, designed and made in India. From PET-CT and DSA to high-speed CT and MRI, we make advanced care affordable and accessible beyond metros. Built at our Vizag AMTZ facility, we're driving innovation, reducing costs, and fueling Aatmanirbhar Bharat in MedTech.



NeuAngio Ceiling DSA



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NeuWin PET/CT



NeuMR Universal(3.0T)

World-class imaging solutions, proudly made in India for Indian healthcare.

Expanding India's MedTech Capabilities — From Imaging to Radiotherapy

Truevis Technologies is building an integrated MedTech portfolio spanning diagnostic imaging and radiotherapy. Through collaborations with Neusoft and Shinva, we localize advanced technologies at our AMTZ facility—reducing costs, improving access, and enabling hospitals beyond metros to deliver high-quality diagnostics and cancer care across India.



LINAC XHA600E



LINAC XHA1400



NeuWin PET/CT



NeuAngio Ceiling DSA



NeuAngio Floor DSA



NeuViz Epoch CT



NeuMR Universal(3.0T)



NeuMR (1.5T)



NeuViz 128 CT

Advancing Precision Imaging & Radiotherapy for an Atmanirbhar India

Adaptive radiotherapy fits well with India's need for timely and precise care

Dr Matthias Lampe, Radiation Oncologist and Partner at DTZ, Germany, speaks to **Kalyani Sharma** about the growing relevance of adaptive radiotherapy in the context of India's rising cancer burden. He explains how real-time treatment adaptation, AI-enhanced imaging and clinically versatile radiotherapy systems can support precision, equity and scalability in cancer care across diverse healthcare settings

India is witnessing a growing cancer burden. From your global experience, how do you see adaptive radiotherapy (ART) aligning with India's healthcare priorities—particularly the need for timely, precise and equitable cancer care?

India is facing a rising cancer burden, largely driven by ageing populations and unhealthy habits—similar to global trends. With many competing public-health priorities, the country needs solutions that support broad, equitable access rather than benefiting only a small segment. In this context, adaptive radiotherapy (ART) fits well with India's need for timely and precise care. ART enables far more accurate targeting, allows higher radiation doses beyond standard hypofractionation, improves tumor-control rates, and reduces harm to healthy tissue.

Highly advanced systems have shown just how powerful ART can be. However, to truly reach the masses who need radiotherapy the most, the challenge is to translate these benefits into forms that offer true clinical versatility. India needs radiotherapy solutions that combine precision with practicality. We require systems that enable clinicians to choose the most suitable radiation therapy technique for



each individual patient. This is particularly critical here, where many patients present with complex and advanced-stage diseases. For instance, systems that use AI-enhanced imaging to adjust radiotherapy based on daily anatomical changes can help high-volume centers treat more patients without compromising treatment quality. Such radiotherapy systems can deliver precise, high quality cancer treatment across our diverse.

Online adaptive radiotherapy is often described as a major leap in radiation

oncology. Could you explain how real-time treatment adaptation enhances precision and improves patient experience compared to conventional radiotherapy?

Online adaptive radiotherapy represents a true leap because it breaks with the old assumption that the patient's anatomy stays the same throughout weeks of treatment. Traditionally, we start with a planning CT, create a highly detailed plan, and then deliver that same plan every day—assuming the tumour and nearby organs remain in exactly the same position. But we all know by daily life that stomach, bladder or rectum change from hour to hour. Therefore, this traditional concept is far from reality. Traditionally, treatments are adapted offline to account for this change however now we have Linacs that allow one to do this online – simply put – while the patient is on the treatment couch.

Before AI-driven methods, we simply couldn't do better. Now, newer technologies have helped refine care. For example, advanced imaging systems integrated into online ART can Restrict Information and Basic Personal Data generate a daily “planning-quality” image from a simple fluoroscopic scan, and modern

software then adapts the treatment plan in real time to the patient's actual anatomy. This means greater precision: more dose to the tumour, less to healthy tissue. As a result, patients experience fewer side effects. Overall, online ART's dynamic, personalised approach supports timely, safe, and patient-centered therapy that adapts to individual responses, thereby raising the standard of care available to patients across clinical settings.

As India expands access to advanced oncology technologies, what role can ART play in reducing treatment disparities across diverse geographies, especially in tier 2 and tier 3 regions?

India already delivers world-class oncology care in its major centres, and as one of the world's leading science nations, it is well positioned to advance further. But the real challenge is not top-tier expertise—it is making sure that this level of medicine reaches patients where they actually live, including tier 2 and tier 3 regions. This is where adaptive radiotherapy (ART) can play a transformative role.

The core philosophy here is evolution, by taking capabilities first proven on highly specialised, niche systems and integrating them into versatile platforms that can be deployed widely. By enabling ART without the need for ultra-high-end infrastructure, these systems effectively democratise precision cancer care. This represents a true technological shift, as it moves advanced capabilities into everyday clinical workflows. For smaller cities and rural areas, this practical evolution offers clear advantages. Shorter, highly precise treatments reduce the travel burden, allowing patients to return to their families faster. Furthermore,

minimising side effects enables patients to continue supporting themselves and maintaining their daily lives, a critical factor in resource-constrained settings.

From a clinician's standpoint, how does ART improve accuracy, consistency and personalisation of treatment delivery? Are there specific cancer types where its impact is most transformative?

From a clinician's perspective, ART fundamentally strengthens the accuracy, consistency, and personalisation of radiotherapy. Tumours rarely stay static—head and neck cancers, for example, can shrink by 30–50 per cent within just a few weeks. At the same time, organs shift because of weight loss, changing swelling, or simple physiological variations such as bladder filling. ART allows us to respond to these changes daily, rather than continuing with a plan based on outdated anatomy.

Having had the privilege of being the first globally to use the Evo CT-Linac clinically, I have seen firsthand how this theory translates into practice. The system's high-definition, AI enhanced imaging allows us to visualise these minute daily changes with clarity, ensuring we can contour precisely and adapt the dose with confidence. This capability is most Restricted Information and Basic Personal Data transformative in cancers with high anatomical variability—such as head and neck, prostate, and lung cancer—where we can now prevent marginal misses and spare healthy tissue. Looking ahead, my experience with this platform convinces me that we will view today's non adaptive workflows much like the era of treating with simple X-rays and a ruler—useful once, but unthinkable in the future.

Given India's large and varied patient population, what key infrastructural, training or investment factors must be addressed to successfully integrate ART into routine clinical practice?

To successfully integrate ART into routine clinical practice across India, a few key factors must align—but India is exceptionally well prepared for this journey. What deeply impresses me is that India is not only a nation of science, but a nation of heart, dignity and extraordinary resilience. It is a country that cares for over 15 per cent of the world's population, embraces all major religions with genuine respect, and continues to grow with remarkable speed and confidence. Calling India a “developing country” does not diminish it; it simply acknowledges that India is developing faster, smarter and more dynamically than almost any other nation.

Yes, radiotherapy capacity is currently stretched, and demand rises daily with increasing life expectancy, a true marker of societal progress. But precisely for this reason, ART-capable treatment units are essential: they elevate quality while making advanced care accessible to the broader population.

And this is where India's strength shines. Nowhere else do knowledge, clinical ambition and national passion come together with such force. With focused investments, modern infrastructure and dedicated training programs, India is poised not only to adopt ART—but to lead the world in its implementation.

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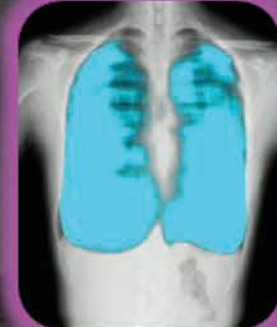
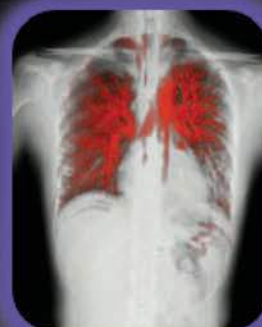
Motion Visualization

Visualization of motion and kinetics of ROI



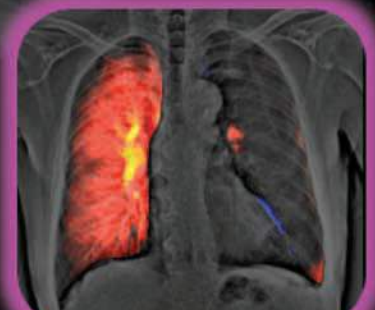
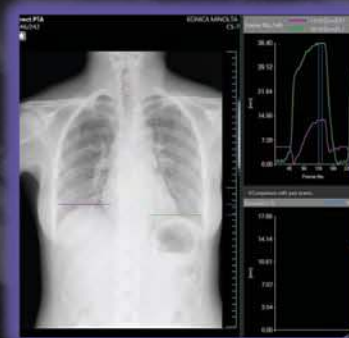
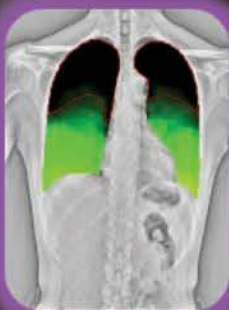
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IRIA 2026 to bring together the global radiology community in Hyderabad

Dr K Prabhakar Reddy, Organising Chairman, IRIA 2026, says Hyderabad is ready to welcome the global radiology community as it hosts the 78th Annual National Conference of the Indian Radiological & Imaging Association

Hyderabad is set to host IRIA 2026, the 78th Annual National Conference of the Indian Radiological & Imaging Association (IRIA), one of the largest and most prestigious gatherings of radiologists in India. Hosted by the Telangana State Chapter, the conference will be held from 29 January to 1 February 2026 at the International Convention Centre, HITEX, Hyderabad.

The four-day conference is expected to witness the participation of around 4,500–5,000 delegates from across the country and several nations worldwide. IRIA is a premier body for radiology and imaging professionals and one of the largest medical associations in India, with a membership base of over 27,000 radiologists.

Theme: Empowering radiology through technology and innovation
Inspired by Alfred P. Sloan's belief that

progress is driven by intelligent innovation aligned with human purpose, the theme for IRIA 2026-“Empowering Radiology through Technology and Innovation” reflects radiology's transformative journey in the digital age. As technology and artificial intelligence redefine diagnostic precision, workflow efficiency, and patient-centred care, radiology stands empowered to lead healthcare into a future of greater accuracy, accessibility, and impact.

Key highlights of IRIA 2026

IRIA 2026 will feature a comprehensive and high-impact scientific programme, including:

- Keynote address by Dr Minerva Becker, President, European Society of Radiology
- Plenary sessions by luminary radiologists
- Inter-society symposiums
- IRIA and ICRI orations

- Film reading sessions
- National and international residents' quiz with participation from 20 countries
- Radiology–pathology vignettes
- Panel discussions and big fights
- Case of the day quiz
- Digital and conventional scientific exhibitions
- Proffered paper presentations and e-posters
- Meet the professor sessions
- Eight sub-specialty workshops

To encourage academic excellence among young radiologists, complimentary accommodation for three nights and four days will be provided to the best 25 paper presenters, 25 poster presenters, and 10 selected residents for the final All-India Residents' Quiz.

Spotlight on innovation, education and skill development
IRIA 2026 will strongly emphasise



continuous medical education (CME), skill-building workshops, and cross-learning opportunities with global experts. IRIA's core focus remains on CME, resident training, and research programmes.

During the conference, around 1,245 e-posters and 821 scientific papers, primarily by residents, will be presented. Eight sub-specialty workshops, quizzes, and film-reading sessions are being planned to enhance practical learning and academic engagement.

Global participation and academic excellence

The IRIA Annual Conference has long served as the premier platform for Indian radiologists to exchange scientific and professional experiences, discuss recent advances, and learn about state-of-the-art radiology technologies. IRIA 2026 will host 130 international faculty members from 30 countries and around 400 national faculty, offering an excellent scientific and educational programme covering Diagnostic Imaging, Interventional Radiology, and Molecular Imaging.

Industry and technology exhibition

The conference will feature participation from around 70 healthcare industry companies related to radiology and imaging. These companies will showcase the latest technologies, advanced equipment, and innovative digital solutions shaping the future of radiology practice.

IRIA's legacy, mission and ethical commitment

The Indian Radiological & Imaging Association (IRIA) stands as a proud legacy institution dedicated to advancing the science and practice of

radiology in India. Since its inception, IRIA has nurtured generations of radiologists, strengthened academic and clinical frameworks, and upheld the dignity of the profession.

Its mission is to promote the highest standards of radiology education and practice, encourage research and innovation, and ensure ethical conduct and professional integrity. Through annual conferences, workshops, and CME programmes, IRIA has consistently provided platforms for knowledge sharing and skill development, while its journals and guidelines have set benchmarks for academic excellence and clinical quality.

IRIA has also taken significant initiatives in structured training programmes, sub-specialty workshops, and mentorship for young radiologists, ensuring the profession remains future-ready. By advocating uniform quality standards, accreditation, and peer-review mechanisms, IRIA safeguards safety and consistency in radiological practice. The ethics session, a key component of IRIA 2026, reinforces the importance of balancing technological advancement with humane medical practice and professional responsibility.

Strengthening global collaboration

A major highlight of IRIA 2026 will be meetings with 15 international radiological societies, aimed at strengthening mutual exchange training programmes, fellowship opportunities, and academic collaboration. Participating societies include:

European Society of Radiology, Taiwan Radiological Society, Royal College of Radiologists, Italian Society of Radiology, Russian Society of Radiologists and Radiological

Surgeons, Sri Lanka College of Radiologists, Nepal Radiologists Association, Singapore Radiological Society, Uzbekistan Radiology Society, Pan Arab Association of Radiological Societies, Society of French Radiologists, Radiology Society of Kazakhstan, African Society of Radiology, Serbian Society of Radiology, and the International Cancer Imaging Society.

Expectations from IRIA 2026

IRIA 2026, Hyderabad, is envisioned as a forward-looking and impactful conference highlighting the rapid evolution of radiology in India and globally. The focus will be on innovation, collaboration, and education, bringing radiologists, residents, researchers, and industry leaders onto a common platform.

Strong emphasis is expected on artificial intelligence, advanced imaging techniques, and precision diagnostics, supported by practical sessions demonstrating safe and effective integration into clinical practice. High-quality academic sessions, workshops, and hands-on training will support skill development, particularly for young radiologists.

The conference will also promote research, ethics, standardisation, and patient-centred care, while addressing challenges such as workload, reporting accuracy, and professional sustainability. Overall, IRIA 2026 promises to be a balanced blend of academic excellence, technological advancement, and professional growth, shaping the future of radiology in India.

Registration and website

For more details and registration, visit the official conference website: www.iria2026.com

Radiology in the age of tech

Express Radiology focuses on 'Empowering Radiology through Technology and Innovation', inspired by the IRIA 2026 theme, and explores how digital tools and emerging technologies are shaping the future of imaging in India

By Kalyani Sharma

When the radiology community gathers in Hyderabad for the 78th Indian Radiological and Imaging Association (IRIA) 2026, the conversations will extend far beyond scanners, software, and algorithms. They will centre on a much larger

question—how radiology, as a discipline, is redefining its role in an Indian healthcare system under pressure to deliver accuracy, access, and equity at scale.

India's disease burden is rising, specialist shortages persist, and healthcare infrastructure remains unevenly distributed. Yet, diagnostic imaging sits at the heart of clinical

decision-making. From emergency rooms to oncology boards, radiology increasingly determines the direction, speed, and quality of patient care. Technology, once an enabler at the margins, is now becoming the backbone of this transformation.

As Dr Sunitha Palasamudram, Senior Consultant and Lead in Diagnostic Neuroradiology, Aster



Radiology is a very important and interesting branch of medicine—it is truly the backbone of any hospital

Dr Sunitha Palasamudram
Senior Consultant and Lead in Diagnostic Neuroradiology, Aster Whitefield Bangalore



The development of portable ultrasound devices will enable medical facilities to perform imaging procedures in various settings including clinics and ambulances and rural healthcare centres

Dr Aakaar Kapoor
Founder and Designated Partner, City Imaging & Clinical Labs



Radiology is transitioning from traditional image interpretation to a more integrated, technology-driven specialty

Dr Purendra Bhasin
Founder and Director, Ratan Jyoti Netralaya

Whitefield Bangalore, observes, “Radiology is a very important and interesting branch of medicine—it is truly the backbone of any hospital. Once a patient is admitted, beyond the clinical history, we need objective confirmation of what is happening inside the body.”

This centrality explains why the IRIA 2026 theme—“Empowering Radiology through Technology and Innovation” resonates so strongly across the profession.

From volume-driven imaging to data-driven care

For decades, radiology in India has been defined by volume—more scans, faster reporting, growing workloads.

Today, that model is being challenged. Digital tools, cloud platforms, and AI are shifting radiology toward precision, collaboration, and patient-centric care.

According to Dr Aakaar Kapoor, Founder and Designated Partner, City Imaging & Clinical Labs, “The theme demonstrates how India is transitioning to a healthcare system that relies on data-driven precise patient-centred care.”

Technology, he notes, is helping bridge expertise shortages, improve operational efficiency, and expand advanced imaging beyond traditional urban strongholds.

This transition is particularly critical in a country where specialist

access remains uneven. Dr Purendra Bhasin, Founder and Director, Ratan Jyoti Netralaya, frames it as a structural shift, “Radiology is transitioning from traditional image interpretation to a more integrated, technology-driven specialty.”

Technology enters the reading room

Inside radiology departments, the impact of innovation is already visible. AI tools assist with triage, highlight abnormalities, automate measurements, and standardise reporting. Cloud-based PACS and teleradiology platforms allow expertise to travel where radiologists cannot.



The AI tools help flag subtle findings, prioritise critical cases, automate measurements, and reduce transcription errors, improving accuracy and reducing reporting time

Dr Bharat Aggarwal

Principal Director-Radiology Services,
Max Super Speciality Hospital,
Saket



Decision-support tools that combine imaging, clinical and lab data, plus structured, voice-driven reporting with embedded AI, will redefine how radiologists work day-to-day

Dr Rajeev Sivashankar

Director-Neurovascular
Interventional Radiology,
Fortis Hospital,
Mulund



Empowerment also means equipping radiologist with the help of intelligent tools that strengthens confidence efficiency and reach allowing interpretation of high-quality imaging to extend beyond urban centres to undeserved regions

Dr Kamlesh Kumar

Associate Consultant-Radiology,
Regency Hospital, Gorakhpur



AI will primarily augment—not replace—radiologists. It will automate repetitive tasks, prioritise urgent cases, and enhance accuracy, allowing radiologists to focus on complex interpretation, clinical correlation, and multidisciplinary collaboration

Dr Avik Bhattacharya
Interventional Radiologist,
CK Birla Hospitals,
CMRI Kolkata



Regular updates in curriculum, CME credits focus on emerging technologies and good hands-on exposure to AI tools will somewhere helps radiologist to adapt easily

Dr Indresh Desai
Lead Consultant – Radiology,
SPARSH Hospital, RR Nagar,
Bangalore

Dr Bharat Aggarwal, Principal Director-Radiology Services, Max Super Speciality Hospital, Saket, explains how these tools are altering daily workflows, “The AI tools help flag subtle findings, prioritise critical cases, automate measurements, and reduce transcription errors, improving accuracy and reducing reporting time.”

Yet, the adoption of technology is far from uniform. As Dr Palasamudram points out, “Some technologies are being used, but they are not standardised globally. What works well for one hospital may not be easily extrapolated to another.”

This variability underscores the complexity of translating innovation

into consistent clinical practice.

The next wave of imaging innovation

Beyond workflow tools, the imaging ecosystem itself is evolving. Low-dose CT, faster MRI sequences, AI-native scanners, and portable ultrasound devices are redefining where and how imaging can be delivered.

Dr Kapoor highlights the patient-safety and access implications, “The development of low-dose CT scanners will continue to produce high-quality images while using minimal radiation to create safer scanning procedures. The development of MRI technology leads to faster operations with reduced noise and non-contrast

imaging capabilities which enhance patient comfort during procedures.”

“The development of portable ultrasound devices will enable medical facilities to perform imaging procedures in various settings including clinics and ambulances and rural healthcare centres.”

From a clinical integration standpoint, Dr Rajeev Sivashankar, Director-Neurovascular Interventional Radiology, Fortis Hospital, Mulund, sees decision-support as transformative, “Decision-support tools that combine imaging, clinical and lab data, plus structured, voice-driven reporting with embedded AI, will redefine how radiologists work day-to-day.”

In subspecialties such as neuroradiology, innovation is even more targeted. Dr Palasamudram notes, “In neuroimaging, multimodality fusion software is a very promising innovation, particularly in epilepsy care. It integrates PET, SPECT, MRI, and EEG data to localise the epileptogenic focus.”

Taking innovation beyond metros

Perhaps the most critical test of empowerment lies outside India's major cities. Tier 2 and tier 3 regions continue to face gaps in infrastructure, manpower, and specialist availability.

As Dr Aggarwal stresses, “This requires building infrastructure first - digital equipment, reliable connectivity, and cloud storage so that centres in tier 2 & 3 regions can plug into regional or national teleradiology hubs.”

From a regional hospital perspective, Dr Kamlesh Kumar, Associate Consultant – Radiology,

Regency Hospital, Gorakhpur, adds that empowerment is also about confidence and consistency, “Empowerment here also means equipping radiologist with the help of intelligent tools that strengthens confidence efficiency and reach allowing interpretation of high-quality imaging to extend beyond urban centres to undeserved regions.”

Dr Bhasin stresses, “Expanding access requires a coordinated approach involving government investment, public-private partnerships, and scalable technological solutions. Portable and low-cost imaging devices, cloud-based PACS, and AI-driven preliminary reads can enable high-quality diagnostics even in resource-limited settings. Incentivising radiologists to work in smaller cities, improving digital infrastructure, and establishing regional teleradiology hubs can strengthen the ecosystem. Training local healthcare staff and creating standardised protocols are essential to ensure safe and accurate image acquisition. Ultimately, accessibility will improve when innovations are designed with affordability, scalability, and simplicity at their core.”

AI and the human radiologist

Despite the growing presence of automation, experts are clear that radiology remains a human-led discipline.

As Dr Palasamudram puts it, “AI is similar to an autopilot—you still need a pilot.”

Dr Avik Bhattacharya, Interventional Radiologist, CK Birla Hospitals, CMRI Kolkata also believes that, “AI will primarily augment—not replace—radiologists. It will automate

repetitive tasks, prioritise urgent cases, and enhance accuracy, allowing radiologists to focus on complex interpretation, clinical correlation, and multidisciplinary collaboration. The radiologist’s role will evolve from image reader to clinical consultant and decision-support expert.”

AI is expected to handle repetitive tasks, but responsibility, interpretation, and clinical correlation will continue to rest with radiologists. Dr Indresh Desai, Lead Consultant – Radiology, SPARSH Hospital, RR Nagar, Bangalore, sees this as an opportunity, “This shift allows radiologist to get evolve into clinical consultants, integrating imaging insights with the history of patients and treatment planning.”

Building skills, safeguards, and trust

Empowerment through technology also demands sustained investment in training, collaboration, and governance. Radiologists must learn not only how to use tools, but how to question, validate, and ethically deploy them.

Dr Kapoor emphasises continuous upskilling, while Dr Sivashankar cautions that innovation must be balanced with responsibility, “Balancing innovation with privacy and ethics requires clear data-governance policies, robust consent and de-identification, strict cybersecurity, and limits on secondary data use. Ethical AI demands bias checks, continuous monitoring, explainability where feasible, and “human-in-the-loop” models where radiologists retain final responsibility.”

Dr Desai also shares, “Regular updates in curriculum, CME credits

focus on emerging technologies and good hands-on exposure to AI tools will somewhere helps radiologist to adapt easily. Most importantly training should emphasise clinical judgement alongside technology in order to maintain diagnostic accountability.”

A connected future

Looking ahead, the vision for Indian radiology is one of connectivity and equity. As Dr Bhattacharya envisions, “I envision a connected, AI-enabled radiology ecosystem where high-quality diagnostics are accessible across geographies. Radiologists will play a central role in multidisciplinary care teams, supported by intelligent tools that enhance accuracy and efficiency. With the right policies and partnerships, India can emerge as a global leader in technology-driven, patient-centric radiology.”

Dr Sivashankar, highlights, “Over the next decade, a desirable vision is a hub-and-spoke, AI-enabled imaging network linking primary centres, district hospitals, and tertiary hubs on a common cloud platform. Radiology would become a proactive, population-health tool—powering national screening, precision therapy, and outcome analytics—while offering the highest levels of imaging expertise to every patient, regardless of location.”

Technology is no longer an accessory to radiology. It is the means through which the specialty will expand its reach, deepen its clinical relevance, and play a decisive role in shaping the future of healthcare in India.

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Contrast injection systems: Powering connected, precise and safe contrast delivery

Rahul Pandey, Country Head Radiology-South Asia, Bayer India, shares insights into how advanced, intelligent injection systems are transforming contrast delivery, supporting clinicians in high-volume environments, and strengthening the foundation of safe, reliable and efficient diagnostic imaging in India's rapidly evolving healthcare landscape

In India, the contrast media market is expanding, driven by various factors such as the accelerated adoption of technology in healthcare institutions, the rise in chronic diseases and an increase in the volumes of CT and MRI scans. This rising demand for contrast media necessitates advanced injection systems that can reliably deliver contrast agents with precision, safety, and speed.

Today, modern injection systems are essential tools in diagnostic imaging and have evolved into intelligent, efficient, and connected platforms that enable automated and precise contrast delivery. They have become an indispensable part of modern imaging by ensuring consistent image quality, improving patient safety, and enhancing workflows.

Why injection systems matter?

Contrast Enhanced Imaging depends on accurate timing, precise flow rate, and reproducible delivery of contrast media.

Legacy Injectors, once common, can no longer meet the demands of modern imaging protocols. Modern



injection systems such as MEDRAD® Centargo CT injection system address these challenges with advanced connectivity, personalised patient care and optimized workflows.

Centargo CT Injection System: Precision, Performance & Productivity

The Centargo CT Injection System is a multi-patient connected injector that offers future-ready solution for

the Indian healthcare landscape. It is designed to address the real-world challenges of high patient volumes, limited resources, cost-efficiency, and the need for consistency.

With automated processes, rapid priming, and intuitive design, it helps to deliver high throughput and reduce downtime. Its unique safety features, flexible contrast options, DualFlow technology, and fluid optimization create a great impact on patients, minimizing contrast waste and reducing per procedure cost. Its connected workflows, remote support and data driven performance help radiology teams to focus on what matters most—delivering timely, high quality diagnostic care to patients.

Centargo CT injection system with Cortenic Connectivity

Cortic™ Connectivity is the backbone of Bayer's Centargo that helps in maximizing efficiency, automating workflow, and redirecting time to patient care. It is a platform that seamlessly integrates CT scanners, hospital networks, Picture Archiving and Communication System (PACS),

and Radiology Information System (RIS).

Cortenic™ Connectivity is a comprehensive solution that ensures:

1. Workflow efficiency

Healthcare centres in India face increasing pressure with a large volume of patients, complex exams, and tighter timelines. Delays in patient preparation, protocol selection, or injector setup can cascade into longer waiting times.

With Centargo's automated features, intuitive daily set up, and quick-change time between patient scans, the patient waiting times can be significantly reduced. This allows healthcare professionals to focus more on patient care.

2. Data integration

The direct scanner and injector integration helps in aligning injection parameters with scan protocols, avoiding delays, minimising human errors, and simplifying workflows.

Integration with the RIS and PACS helps in automatically capturing and transferring contrast related data. This enables interoperability across different systems and provides comprehensive insights that enhance patient outcomes.

3. Personalised patient care

Centargo features smart protocols that are pre-configured and evidence-based templates designed to optimise contrast delivery for specific clinical indications. It enables automated parameter selection such as flow rate, volume based on patient weight, indication and imaging



EVERY PATIENT IS IMPORTANT AND EVERY SCAN IS A CRITICAL OPPORTUNITY TO DELIVER AN ACCURATE DIAGNOSIS SAFELY. BAYER INJECTION SYSTEMS HAVE BEEN ENGINEERED WITH THIS OBJECTIVE. BY COMBINING PRECISION ENGINEERING, WORKFLOW INTELLIGENCE AND ADVANCED CONNECTIVITY, OUR INJECTION SYSTEMS ACTIVELY SUPPORT CLINICIANS IN DELIVERING SAFER AND RELIABLE CONTRAST DELIVERY

objectives. This ensures there is standardised and reproducible contrast delivery.

In high-volume environments, smart protocols significantly reduce variability, improve consistency, reduce repeat scans, and enhance efficiency.

Our commitment: See the possible, create the future

Modern connected injection systems are strategic enablers of clinical excellence and operational efficiency in modern medical imaging. In India, where patient volumes are high and

the need for precision is critical, these intelligent injection systems are no longer a luxury but a necessity.

At Bayer Radiology, we have been striving to build a safe, smart, and more efficient diagnostic landscape for more than 100 years.

With our advanced injection systems such as Bayer Medrad MRXperion MR injection system and Centargo CT injection system, we are empowering healthcare teams to see the possible and create a future of diagnostic excellence.

Taking radiology innovation to the remotest corners of the world

Rochi Nargotra, CEO and Director, Phantom Healthcare, discusses how the company is bridging the diagnostic gap by making advanced imaging affordable and accessible for hospitals in India's tier 2 and tier 3 cities, rural regions and emerging global markets—ensuring quality diagnostics reach patients beyond metros

Phantom Healthcare's mission: Bridging the diagnostic divide across continents

In the world of medical diagnostics, geography should never determine the quality of care a patient receives. Yet, for millions living in India's tier 2 and tier 3 cities, rural villages, tribal belts, and across developing nations in Africa, the Middle East, and South-East Asia, access to advanced diagnostic imaging has long been a distant dream. Phantom Healthcare was founded on a simple yet powerful belief: every patient, regardless of where they live, deserves access to accurate, timely, and affordable diagnostic imaging.

The challenge: Healthcare's last mile

India's tier 2 and tier 3 cities, along with rural and tribal areas, face a perfect storm of healthcare challenges. Limited budgets, lack of infrastructure, shortage of trained personnel, and the prohibitive cost of new medical equipment create insurmountable barriers for local healthcare facilities. Patients in these regions often travel hundreds of kilometres to urban centres for basic diagnostic procedures like



MRI or CT scans — a journey that is not only physically exhausting but can delay critical diagnoses and treatment.

The situation in many African, Middle Eastern, and Southeast Asian countries mirrors these challenges. With healthcare budgets stretched thin and infrastructure still developing, advanced diagnostic imaging remains largely concentrated in major cities, leaving vast populations underserved.

Phantom Healthcare's solution: Affordable excellence

Since 2011, Phantom Healthcare has specialised in providing high-quality refurbished medical imaging equipment at 40-60 per cent lower

costs compared to new systems. This cost-effectiveness is not just about affordability — it's about making the impossible possible for smaller hospitals and diagnostic centres.

Our refurbished MRI Machines, CT Scanners, PET-CT Systems, Cath Labs, Gamma Cameras, and Bone Densitometers undergo rigorous quality checks and meet international standards. Each system is meticulously restored, tested, and certified before installation. Healthcare facilities get the same diagnostic capabilities as metropolitan hospitals, but at a fraction of the investment.

Real impact: Stories from the field

India's heartland: Our work in Chhattisgarh exemplifies the transformative impact of accessible imaging technology. This state, with significant tribal populations and remote areas, has long struggled with access to healthcare. Our installations here have enabled local hospitals to provide advanced diagnostics without requiring patients to travel to Raipur or other major cities.

This commitment was recently

recognised when Shri Shyam Bihari Jaiswal, Hon'ble Health Minister of Chhattisgarh, visited our stall at the IRIA Chhattisgarh 2025 conference. He praised our AI-powered predictive analytics, cost-effective solutions, and most importantly, our dedication to serving tribal and remote areas. His words — "Companies like Phantom Healthcare reaching tribal areas of Chhattisgarh are vital for the nation's healthcare" — affirm our mission and inspire us to expand further.

Expanding across Africa: Many African nations are investing in healthcare infrastructure, but they face budget constraints that make procuring new equipment difficult. Phantom Healthcare has been actively expanding across the continent, providing refurbished imaging solutions that enable hospitals and diagnostic centres to establish or upgrade their radiology departments. The combination of affordability, quality, and reliable after-sales service has made us a trusted partner, helping African healthcare facilities leapfrog infrastructure gaps.

Middle East and Gulf presence: Through our registered office in Sharjah (UAE), we serve the Gulf and Middle Eastern markets with comprehensive service packages, repairs, spare parts, and technical support. Our AERB and NABL-accredited regulatory expertise helps facilities in these regions maintain compliance while optimising operational efficiency.

South-East Asian outreach: Our expanding footprint in South-East Asian countries addresses similar challenges of healthcare



OUR REFURBISHED MRI MACHINES, CT SCANNERS, PET-CT SYSTEMS, CATH LABS, GAMMA CAMERAS, AND BONE DENSITOMETERS UNDERGO RIGOROUS QUALITY CHECKS AND MEET INTERNATIONAL STANDARDS. EACH SYSTEM IS METICULOUSLY RESTORED, TESTED, AND CERTIFIED BEFORE INSTALLATION

accessibility in smaller cities and rural areas, providing cost-effective alternatives to expensive new equipment.

Global standards, local expertise: With our registered office in Chicago, USA, we leverage American technology partnerships — notably our collaboration with Glassbeam Inc. for AI-powered remote monitoring — bringing global innovations to local healthcare challenges worldwide.

Beyond equipment: Building sustainable healthcare ecosystems

Our approach goes beyond selling equipment. We provide:

Comprehensive service support: AMC/CMC packages, repairs, and 24/7 technical assistance ensure uninterrupted operations

Training and capacity building:

We train local technicians and radiologists on equipment operation and maintenance

Spare parts availability: One of India's largest spare parts inventories means minimal downtime, even in remote locations

AI-powered monitoring: Real-time equipment health monitoring and predictive maintenance reduce downtime globally

The road ahead

With over 500+ installations across India, registered offices in India, UAE, and USA, and a growing presence across Africa, the Middle East, the Gulf, and South-East Asia, our mission is clear: continue expanding the reach of quality diagnostic imaging to every corner where it's needed. Our recently opened Pune office strengthens our ability to serve Southern and Western India's tier 2 and tier 3 cities more effectively.

Conclusion: Healthcare without boundaries

At Phantom Healthcare, we measure our success not in units sold, but in lives impacted — the tribal patient in Chhattisgarh who no longer needs to travel 200 kilometres for an MRI, the small-town hospital in Africa that can now offer PET-CT scans, the diagnostic centre in rural India that can finally compete with urban facilities.

Taking radiology innovation to the remotest corners isn't just our business model — it's our responsibility, our passion, and our commitment to a future where quality healthcare knows no boundaries.

The Digital PET-CT represents the future of medical imaging

It boasts time-of-flight PET technology with 1:1 SiPM coupling, ensuring unparalleled sensitivity and accuracy in detecting minute anatomical details and metabolic activity within the body

Introducing the latest breakthrough in medical imaging technology, the Digital PET-CT, This cutting-edge technology system represents a significant advancement in diagnostic capabilities, combining state-of-the-art features to deliver unprecedented precision and efficiency in medical imaging.

The Digital PET CT boasts Time-of-Flight PET technology with 1:1 SiPM coupling, ensuring unparalleled sensitivity and accuracy in detecting minute anatomical details and metabolic activity within the body. With its lightning-fast scan capabilities, this system reduces examination times, minimises patient discomfort, and optimises clinical workflow.

But that's not all – the, Digital PET CT sets new standards for patient care and safety by delivering exceptionally low radiation doses, making it a preferred choice for both physicians and patients. Its precise imaging capabilities allow for early and accurate diagnosis, aiding in the timely treatment of various medical conditions.

Furthermore, the system offers an array of intelligent features, such as Smart Data analytics and Intelligent Scan protocols, enhancing the overall diagnostic process. With an impressive axial field of view (FOV) measuring 20.1 cm, it covers a broad range of applications and ensures comprehensive patient evaluations.

The Digital PET-CT represents



the future of medical imaging, promising to revolutionise healthcare by providing clinicians with the tools they need to make more informed decisions, while prioritising patient comfort and safety.

Sanrad Medical System is a specialist distributor of state-of-the-art Computed Tomography (CT) systems from leading global OEMs including Digital PET CT. Sanrad deliver end-to-end solutions tailored to the dynamic needs of healthcare providers across India. Whether

you are setting up a new radiology department or upgrading existing diagnostic infrastructure, we bring the right expertise, products, precision, reliability and support services every step of the way. From importing and installing to servicing CT scanners, we deliver complete, reliable imaging solutions tailored for Indian healthcare providers. Lease options are also available for our existing customers, established diagnostic Centres/clinics/hospitals.

Seeing the unseen: How advanced breast imaging is transforming early diagnosis and surgery

Dr Jyoti Arora, Senior Consultant and Lead, Department of Radiology, Apollo Athenaa Women's Cancer Centre, explains how advances in breast imaging are changing the way cancers are detected, diagnosed, and treated—often before symptoms appear

“I never thought a routine scan would change my world upside down,” says Anita Thakur, a 42-year-old working mother who came in for a breast MRI after her mammogram showed a faint shadow. “I felt perfectly healthy, no lump, no pain, but the doctors said there is something they needed to look at more closely.” She never forgot the fear that followed. “My mind delved straight into the worst scenarios – cancer, surgery, scars,” she recalls.

Stories like Anita's are becoming more common because today, advanced imaging and diagnostic technologies allow us to see what the eye, the hand, and even traditional scans might miss. Yet, many women remain unaware of how far breast cancer detection has come. For most, the word cancer still triggers terrifying memories of surgery, pain, fear and the unknown.

These newer technologies are helping replace that fear with clarity, confidence, and immediate answers.

A gentle, accurate path to diagnosis

In the past, detecting tiny or deep-seated breast abnormalities often required surgery. Today, MRI-guided VABB (Vacuum-Assisted Breast Biopsy) offers a far more



comfortable alternative. This minimally invasive technique uses MRI to guide a fine, specialised needle exactly to the area of concern. A gentle vacuum then draws in small samples of tissue often removing the lump entirely without the need for stitches or general anaesthesia. This could essentially mean quick and precise diagnosis, minimal discomfort and no visible scarring – same-day recovery and no radiation exposure.

Context and scale: Why this technology matters now

Breast cancer remains the most common cancer among Indian women. Current data[1] shows 1 in 28 Indian women is likely to develop breast cancer in her lifetime. However, many early cancers hide within dense tissue, subtle patterns,

or multifocal disease especially among women ranging between 35-45 years of age. Nearly half of the cancer cases in India are still diagnosed at a later stage. These, when caught early, can pave the way for survival rates exceeding 90 per cent. That's where technologies like MRI-guided VABB make all the difference, detecting and tracking even the smallest or hardest-to-see changes. Eventually, diagnosis becomes more precise, surgery becomes accurate, ultimately reducing chances of local recurrence.

Precision tumour mapping: Clarity before the cut

For women, who require surgery, precision tumour mapping brings the same level of accuracy to the operating table. It combines multiple imaging techniques, digital mammography, ultrasound, MRI, and advanced 3D scans to create a detailed map of the tumour and its surroundings. This helps identify even tiny satellite lesions that might otherwise go unnoticed. Using these insights, the radiologist places fine localisation markers that guide the surgeon to remove exactly what's necessary. No more, no less. This means the entire tumor is removed with clear margins, reducing

recurrence. Healthy tissue is preserved for better cosmetic results and fewer women need a second surgery.

Care beyond cure

Technology is only as powerful as the

compassion behind it. Every scan, every biopsy, every procedure is guided by one purpose – to make breast cancer care easier and gentler with earlier detection for every woman. Because the best outcomes don't just come from what

we treat, but from how early we begin to look for what's latent.

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1. *Statistics – ICMR – National Institute of Cancer Prevention and Research*

Precision radiation therapy: How TomoTherapy is revolutionising cancer treatment

Dr Sanjay MH, Director-Radiation Oncology, Sahyadri Super Speciality Hospital, Hadapsar, Pune, explains how TomoTherapy is redefining precision radiation therapy and improving outcomes for cancer patients across a wide range of clinical scenarios

Cancer incidence in India have been rising steadily. More than 14 lakh new cases are registered every year, and studies suggest that one in nine Indians may face cancer at some point in their life. With numbers like these, the demand for radiation treatments that are sharp, safe and tailored to each patient has only grown. Over the past decade, radiation therapy has shifted from broad fields to techniques that can shape the dose around the tumour with remarkable accuracy. Among these advances, TomoTherapy has stood out as a technology that genuinely changes how we treat cancer.

New level of image-guided accuracy

One of the most important features of TomoTherapy is that it takes a megavoltage CT scan before every treatment session. This daily scan helps us see the tumour and nearby organs exactly as they are on that day. Tumours can move, shrink or change shape during the course of treatment. Weight loss, swelling or even normal



breathing can shift things inside the body. Traditional machines depend on the initial planning CT, which cannot track these changes. TomoTherapy fills this gap by giving us real-time images, so we can correct the patient's position by a few millimetres if needed and make sure the radiation hits the exact target every time. This greatly reduces the chance of missing the tumour,

especially in areas like the head and neck or spine where even small shifts matter.

Helical delivery that wraps the dose around the tumour

What makes TomoTherapy different from a regular linear accelerator is its helical delivery. Instead of treating from a few fixed angles, the machine rotates fully around the patient while the couch moves through the gantry. The radiation is delivered in a spiral pattern. This allows us to shape the dose very closely around the tumour, even if the tumour has an irregular form. It also lets us protect nearby organs more effectively. The dose is smoother and more even, which helps in complex areas where planning is usually difficult.

Safe option for re-irradiation

Re-irradiation is one of the toughest decisions in cancer care. Once an area has been treated before, the surrounding tissues reach their

tolerance limits. Treating the same region again without damaging healthy tissue becomes extremely difficult. TomoTherapy helps us navigate this situation with better control. Its ability to sculpt the dose so precisely allows us to treat recurrent disease near sensitive structures while keeping the risk of toxicity low. This has opened doors for many patients with head and neck recurrences, spine relapses or pelvic failures who previously had very limited options.

Ideal for treating long or complex areas

Some cancers require treatment across long stretches of the body. Craniospinal irradiation, long paraspinal tumours, wide lymph node regions or total marrow irradiation are examples. Most machines cannot cover such lengths in one go. They need multiple fields, which creates the challenge of matching those fields accurately. Poor matching can lead to higher or lower doses at the junctions. TomoTherapy solves this by treating the entire length in a single continuous run. There are no field junctions and no risk of uneven dose at the borders. This is especially helpful in paediatric CNS tumours and many complex adult cancers.

Fewer side effects and better quality of life with adaptive treatment

Better precision translates directly into fewer side effects. For head and neck cancers, TomoTherapy helps protect the salivary glands, so patients are less troubled by dryness of mouth. In pelvic cancers, it reduces the dose to the bowel and bladder, which means fewer gastrointestinal



WHAT MAKES TOMOTHERAPY DIFFERENT FROM A REGULAR LINEAR ACCELERATOR IS ITS HELICAL DELIVERY. INSTEAD OF TREATING FROM A FEW FIXED ANGLES, THE MACHINE ROTATES FULLY AROUND THE PATIENT WHILE THE COUCH MOVES THROUGH THE GANTRY. THE RADIATION IS DELIVERED IN A SPIRAL PATTERN

problems. For thoracic tumours, it keeps lung dose low and reduces the risk of radiation pneumonitis. For abdominal tumours, it protects the liver, kidneys and stomach more effectively. These improvements help patients stay more comfortable during treatment and maintain their daily routines.

Since TomoTherapy takes images every day, it fits very well into adaptive radiation therapy. As the tumour shrinks or the body changes during the course of treatment, we can adjust the plan at the right time. This keeps the dose accurate from start to finish. Weight loss, reduction in swelling or movement of organs are all changes we can adapt to. This kind of real-time correction is becoming increasingly important as treatments

become more personalised.

Strong match for India's patient needs

In India, cancers often present late and with large tumour volumes. Patients may have nutritional variations or complex recurrences that make treatment planning more challenging. Tomotherapy's ability to handle irregular shapes and long disease segments makes it very useful in these situations. It works particularly well for head and neck cancers, which are common in India. It is also valuable for prostate and gynaecological cancers, paediatric tumours, CNS cancers and thoracic malignancies. The technology helps balance strong tumour control with safe organ protection.

Radiation therapy is rapidly moving towards AI-assisted planning, automation and data-driven decision-making. TomoTherapy already has the kind of architecture that supports this shift. With daily imaging, detailed dose data and strong computational systems, it can integrate well with upcoming AI tools such as automated contouring or AI-based adaptive planning. TomoTherapy has brought a major shift in how precision radiation therapy is delivered. With daily imaging, helical dose delivery and strong adaptive potential, it gives clinicians the ability to treat cancers more accurately while protecting normal tissues more effectively. In a country like India, where cancer cases are diverse and often complex, TomoTherapy can become a reliable and forward-looking option. It not only addresses current clinical challenges but also sets the stage for the next phase of personalised cancer care.

Empowering radiology with technology and innovation: An Indian perspective

Dr Mary Anne Joseph, Consultant–Nuclear Medicine and Head of Nuclear Imaging, S.L. Raheja Hospital, Mumbai (A Fortis Associate), outlines how technology is reshaping radiology in India at a pivotal moment of change

Radiology in India is at the crossroad of a significant transformation. The rapid advances in technology and the growing requirement to equitably distribute high-quality healthcare across a vast, geographically spread, and diverse population are driving this change. The theme "Empowering Radiology through Technology and Innovation" reflects not only the adoption of advanced tools but also a fundamental shift in how imaging services are delivered, integrated, and accessed. In the Indian context, empowerment through technology means expanding capacity, strengthening capability, and enhancing patient-centric care by extending specialist expertise across geographies and caseloads, while improving diagnostic sensitivity, specificity, and speed.

Advanced radiology services have conventionally been concentrated in urban centres, hindering access for patients in smaller towns and rural areas. Technology now allows a shift from isolated, high-end radiology hubs to a connected digital continuum. For the first time, the combination of tertiary expertise, AI-assisted edge devices, and national digital health infrastructure can provide timely, standardised imaging



diagnostics to tier-2 and tier-3 regions. Instead of a separate diagnostic step, this approach integrates imaging into an affordable, longitudinal digital care pathway.

Several of these emerging technologies are already having a real effect on clinical practice. From concept to reality, edge computing has combined with AI-enabled scanners. The experience from AI-enabled digital PET-CT systems presented the immediate benefits of on-device intelligence, which included enhanced signal acquisition, reduced image noise, reconstructed images faster, and optimised

radiation dose. Taken together, all these enhancements improve the quality of images, minimise repeat scans of patients, and enhance the safety of the patients of all modalities, including mammography, CT, MRI, and ultrasound, including molecular imaging like PET and SPECT.

Equally transformative are cloud-based PACS and interoperable digital health platforms that allow for central storage of images with web-based access. This allows for remote reporting, second opinions, and unhindered integration into electronic health records, facilitating continuity of care. Artificial intelligence further empowers radiologists through deep learning for the automated detection of critical findings, prioritisation of urgent cases, and structured reporting, which reduces inter-reader variability and omission errors. Such tools, integrated into the workflow of PACS, HIS, and RIS, thus enhance efficiency without compromise on clinical oversight.

Natural language processing and generative AI also have an early start in radiology reporting, standardising the terminology and reducing errors in transcription, while the extraction of structured data from narrative reports is also possible. Though these

technologies are still evolving, there is a promise the technologies hold for personalised care pathways, especially in oncology and chronic disease management. In parallel, ultra-low-cost digital detectors paired with cloud analytics are shifting, for the better, the economic feasibility of imaging in smaller centres by shifting costs from capital-

intensive models to operational ones. In addition, to make access equitable, this innovation should be built on robust network architecture, portable and point-of-care imaging solutions, enhanced connectivity, novel financing models, and workforce augmentation through tele radiology. AI will continue to augment but not replace radiologists by

releasing time for complex interpretation, multi-disciplinary collaboration, and governance of AI systems. A technology-enabled radiology ecosystem based on local innovation, national interoperability, and trustworthy governance can ensure that high-quality imaging is available to patients throughout India in the coming decade.

Radiology in 2026 is no longer a "back-office" function

Dr Natasha Nanda, Consultant Radiologist, Department of Radiology, Dr L H Hiranandani Hospital, outlines how advancements in AI, advanced visualisation, interventional radiology, and data-driven imaging will redefining radiology's role in future

As we move through 2026, radiology has moved from the periphery to the centre of the healthcare ecosystem, evolving into a proactive "intelligence hub" that drives precision medicine, critical role in prevention, treatment planning, patient monitoring and invasive treatment.

The intelligence hub-AI as a patient advocate: The most visible transformation in 2026 is the full integration of Artificial Intelligence (AI) into the imaging workflow. Far from replacing the radiologist, AI has become a critical "copilot." Today's algorithms perform real-time triage, instantly flagging urgent cases like strokes or pulmonary embolisms to the top of the worklist, ensuring that the most critical patients receive attention in seconds.



3D and advanced visualisation: Techniques like 3D reconstruction and virtual reality simulations help patients and clinicians better understand conditions and treatment options, fostering shared decision-

making.

Opportunistic screening: This has emerged as a cornerstone of preventive care. When a patient receives a routine CT scan for abdominal pain, AI-powered tools simultaneously analyse bone density for early signs of osteoporosis or measure coronary artery calcium to predict cardiovascular risk. This allows to catch silent killers years before they manifest as clinical crises, shifting the department's role from diagnosis to proactive health management.

From diagnosis to comprehensive patient care-treatment planning and integration into multidisciplinary ecosystems:

Advances in imaging have enabled radiologists to contribute unprecedented precision to treatment

planning. Modalities such as functional MRI, molecular imaging and AI-enhanced detection systems provide information that extends beyond anatomical visualisation to reveal metabolic processes, blood flow patterns and molecular signatures of disease.

Radiologists work alongside clinicians to provide imaging insights that shape collective decision-making.

In oncology, radiologists contribute to tumour boards, helping determine staging, treatment options, and prognosis.

- In cardiology, advanced imaging such as cardiac MRI or CT angiography guides interventions like stent placement or bypass surgery.

- In neurology, functional MRI and diffusion tensor imaging support surgical planning for epilepsy or brain tumours.

Precision imaging and the digital twin:

The role of radiology has also expanded into the realm of prediction. By combining imaging data with genomics and lab results - a process known as multimodal data fusion - radiologists are creating "Digital Twins" of patients. In oncology, for example, molecular imaging (such as the latest PET/CT systems) allows clinicians to see how a specific tumour will likely respond to a drug before the first dose is even administered. This level of precision ensures that patients are not subjected to the "trial and error" of ineffective treatments. We no longer just see where a disease is; we understand what it is at a molecular level and how it will behave. This shift toward radiomics (the extraction of thousands of data points from images) means the radiology report of 2026 is no longer

just a description of a mass - it is a roadmap for the patient's entire therapeutic journey.

Radiation risk: By reducing radiation exposure through AI-enhanced image reconstruction, we are making life-long diagnostic monitoring safer for paediatric and chronic-disease.

From diagnosis to cure-The interventional revolution:

Perhaps nowhere is radiology's patient care impact more visible than in interventional radiology. Using catheters, needles, and advanced imaging technologies, interventional radiologists treat conditions that once required major surgery, offering faster recovery times, reduced complications and often superior outcomes.

From delivering targeted cancer treatments directly to tumours, to opening blocked blood vessels, draining abscesses and treating fibroids, interventional radiologists provide therapeutic options that preserve quality of life while addressing serious medical conditions. For many, this could be a crucial alternative to traditional surgery. The result in "walk-in, walk-out" experience and preserves the patient's quality of life. In 2026, the IR suite has become the preferred alternative for a growing list of complex conditions, placing the radiologist at the bedside as a primary treating physician.

In the clouds: Cloud-based imaging platforms and patient portals allow access to images along with annotations and explanations. This transparency empowers patients to understand their conditions visually, share images easily when seeking second opinions and maintain personal health records.

Challenges and ethical considerations

As radiology evolves, it faces challenges that must be addressed to maintain patient-centred care:

- Data overload: Advanced imaging generates vast amounts of data.

- Equity of access: Cutting-edge imaging technologies are often concentrated in urban centres, leaving rural and underserved populations at risk of delayed diagnosis.

- Radiation safety: While imaging is invaluable, minimising exposure remains a priority, especially for repeated scans.

- Cost and sustainability: Balancing technological innovation with affordability is essential to ensure equitable patient care.

Sustainability and the path forward

As we look to the future, the "Green Radiology" movement is also making its mark. The industry is moving toward helium-free MRI systems and low-dose CT protocols that prioritise both environmental sustainability and patient safety.

Conclusion

Radiology in 2026 is no longer a "back-office" function. It is a high-tech, high-touch specialty that sits at the intersection of data science and patient care. By leveraging AI to find the invisible, using IR to treat the unreachable, radiologists have become the ultimate navigators of modern healthcare ecosystem.

Ultimately, radiology is no longer just about seeing inside the body - it is about seeing the patient as a whole and ensuring that every image contributes to better health and healing.

How digital transformation is reshaping radiology practices

Dr Ashok Singal, Consultation Radiology, HCG Cancer Centre, Borivali explains how technology is enhancing diagnostic accuracy, improving efficiency, enabling collaboration across geographies, and strengthening the radiologist's role within multidisciplinary care teams, particularly in complex areas such as oncology

Radiology is one of the key areas in the overall digital transformation of modern medicine. Both as a catalyst of this transformation and as a specialty of medicine. Over the past decade, there has been a tremendous digital transformation in the manner in which radiology units operate, image interpretation takes place, results are shared, and finally in the way radiologists impact patient outcomes.

From film to digital: A foundational shift

A decade ago, it was common for us to be dealing exclusively with analog images, such as physical X-rays, CT images, and other images that were stored, archived, and redistributed manually. The introduction of the Digital Imaging and Communications in Medicine standards (DICOM) and the Picture Archiving and Communication System (PACS) marked a turning point.

Perhaps it is easy to realise now, but the changeover from film-based to digital imaging was revolutionary. Not only did digital imaging make it possible for radiologists to breakaway from the constraints of film and adopt an efficient and flexible working paradigm, but it also made it possible



to store and readily access images from radiological studies remotely and instantly.

Today, radiologists can:

- Get immediate access to imaging studies from multiple locations and healthcare networks
- Review past and current scans concurrently without having to look for them manually
- Manipulate images digitally through contrast, zoom, planes reconstruction, and advanced post-processing operations

It has led to improved diagnostic

accuracy, faster turnaround times in reporting, and enhanced clinical confidence in more challenging areas of healthcare, such as oncology, trauma, and neurological issues.

AI: Augmenting, not replacing, radiologists

The most revolutionary development in recent years has been the integration of AI and machine learning into radiology workflows. Algorithms of AI can rapidly analyse huge volumes of imaging data and find patterns that are difficult to perceive or may go unnoticed by human interpreters. AI-powered systems now support the radiologists in the following functions:

- Determination of early or subtle abnormalities, including lung nodules, microfractures, and intracranial bleeds
- Quantifying lesions by size, volume, and progression over time.
- Prioritising urgently/critically required cases for faster clinical attention

Most importantly, AI systems are not replacements for radiologists, but rather highly complementary tools. While computer systems target data recognition, routine tasks, and optimised processing; human capabilities in clinical insight,

interpretation and decision-making are still unmatched. Moreover, the ability to shift routine tasks to the computer allows radiologists to spend more time on complex interpretations, conferences, and direct communication with referring physicians and patients.

AI-driven imaging analytics has a growing presence in oncology-focused centers, including cancer hospitals, to help establish the treatment response of the disease and observe its progression as part of personalised care planning.

Cloud computing and teleradiology: Breaking geographic barriers

Cloud imaging solutions have also been key factors in expanding digital transformation in the radiology domain. It allowed image processing and accessibility as well as image sharing in minutes, thereby eliminating distance limitations in radiology.

These platforms enables:

- Radiologists to interpret radiology scans from distant locations, offering patients better access to radiology interpretations.
- Multidisciplinary teamwork that would allow cancer specialists and surgeons to view images simultaneously, irrespective of their geographical locations
- Data aggregation for research and AI model training, while ensuring patient privacy and data security

The cloud system provides better scalability, disaster recovery features, and less dependence on costly in-office servers. For the large chain of hospitals and diagnostic centres, each one of these factors adds up to more efficient running and cost savings.

Digital workflow optimisation and reporting

Digital transformation has made possible the efficient implementation of the tasks in the radiology department, right from the scheduling of patients to the production of reports afterwards. Latest versions of Radiology Information Systems (RIS) work in perfect harmony with the PACS and hospital information system.

Reporting templates, speech recognition systems, and automated extractors have also made reporting more consistent and clear. This has lessened inconsistencies in reporting and minimised inaccuracies, and made reporting more useful for referring physicians.

Faster turnaround times improve satisfaction levels in clinicians, and there is a direct correlation with patient outcomes in specialties such as emergency medicine, oncology and critical care.

Increasing patient engagement with technology

The digital transformation in radiology is not only taking place in back-end systems, but it is in turn affecting the patient side. Patients are now being allowed to view their imaging reports and some images through secure portals. This helps patients understand their diagnoses and actively participate in the treatment processes.

In specialised centers, technology such as 3D imaging, virtual reconstruction and virtual reality is being employed to:

- Assist surgeons in planning complex surgical operations with enhanced precision
- Improve explanation of disease

processes and treatment available to patients

- Enhance patient confidence and informed consent

Innovations of this kind are all the more necessary in cancer treatment, wherein planning of therapy can often incorporate complicated anatomical factors.

The changing role of the radiologist

With increasing advancements in digital tools and technology, there is a corresponding transformation in the radiologists' role. Radiologists' responsibilities not only encompass interpreting images; instead, radiologists themselves are now an important part of a network of healthcare teams.

Digital transformation has actually heightened radiology's role in a hospital. Radiology is no longer a supporting function; it is a strategic function that utilises technology and analytics in collaboration with people to improve patient care.

The future of radiology will be characterised by increased synergy with AI technology, greater connectivity to the overall healthcare system, and the ongoing need for care to be focused on the patient. The key issue that will emerge with advancements in technology is the balance that must be struck among ethics and security.

In the end, digital transformation has not reduced the need for radiologists, it has increased it. By leveraging technology in a smart way, practices in radiology can keep improving the accuracy of diagnosis and remain key in delivering high-quality, value-based health care.

Role of radiology in modern healthcare

Dr Pranav Mahadeokar, Consultant Radiologist and HOD, Ruby Hall Clinic explores how radiology has evolved into a proactive, patient-centric specialty, driving better clinical decisions, enabling preventive care, and setting new benchmarks for efficiency and outcomes in contemporary medicine

In the past decade, radiology has shifted from a peripheral diagnostic service to a central pillar of patient-centered care. Advances in imaging technology, coupled with powerful artificial-intelligence (AI) tools, are reshaping how clinicians detect disease, guide treatment and monitor outcomes. Today, radiology not only answers clinical questions but also anticipates them, turning the discipline into a proactive guardian of health.

Preventive radiology is perhaps the most striking illustration of this transformation. Modern scanners can reveal pathology long before symptoms appear, enabling early intervention that can alter the course of many diseases. Coronary CT angiography offers a non-invasive view of the coronary arteries with high diagnostic accuracy; the latest scanners deliver this information with a fraction of the dose used a few years ago. By identifying atherosclerotic plaques at an early stage, clinicians can initiate lifestyle modifications or targeted therapy, potentially averting myocardial infarction. Magnetic resonance elastography of the liver quantifies hepatic stiffness, detecting fibrosis before irreversible cirrhosis develops, allowing timely management of underlying liver disease. Ultra-low-dose lung CT brings routine lung-



cancer screening to high-risk populations, reducing radiation exposure while maintaining image quality and catching tumors when cure is still possible. Whole-body MRI extends the preventive reach further; a single, radiation-free scan can screen for metastatic disease, musculoskeletal abnormalities, and occult malignancies across multiple organ systems, providing a comprehensive risk profile for personalised follow-up.

AI is the new buzzword everywhere, yet the real value emerges not from merely 'having AI', but from how seamlessly it integrates into clinical processes and radiology workflows, how it adapts to user behavior, and how it translates into actual clinical outcomes. AI implementation isn't just a technological step it's a design challenge, a workflow challenge, and an optimisation challenge. Because in

healthcare, effectiveness isn't about using AI; it's about using it well. Perhaps it's time we start talking more about AI optimisation not just AI adoption.

Achieving this requires a holistic approach. Radiologists, data scientists, technologists, and front-line staff must co-design solutions that fit existing workflows rather than forcing clinicians to adapt to rigid algorithms. Continuous monitoring of performance metrics—such as turnaround time, false-positive rates, and user satisfaction provides feedback loops that refine the system. Training programmes should emphasise critical judgment alongside technical proficiency, ensuring that AI serves as a trusted assistant rather than a replacement.

Forward momentum, however, demands caution. Overexposing trainees to AI can erode rational reasoning, turning thinkers into automatons; curricula must prioritise critical judgment. India's Digital Personal Data Protection (DPDP) Act mandates rigorous ethical standards: robust data anonymisation, explicit patient consent, and transparent AI audits are non-negotiable. Non-compliance not only invites legal risk but also undermines patient trust, potentially stalling the very innovation the law seeks to protect. Will insurers

accept AI-generated reports without radiologist sign-off? Hybrid models—AI drafts vetted by experts preserve accountability amid cost pressures.

In summary, radiology today is a dynamic, forward-looking specialty. Through preventive modalities CT coronary angiography, MRI liver elastography, ultra-low-dose lung CT,

and whole-body MRI and AI-driven workflows that boost efficiency, radiology delivers earlier diagnoses, personalised treatment, and better outcomes.

When AI is thoughtfully optimised and scanners deliver high-quality images with markedly reduced radiation dose, radiologists amplify

their expertise, driving measurable improvements in patient care and shaping the future of modern healthcare. The challenge ahead is not simply to adopt new tools, but to embed them intelligently, ensuring technology enhances rather than eclipses the clinical judgment at the heart of medicine.

Radiology's role in early detection of vision-threatening disorders

Dr Kasu Prasad Reddy, Founder & Co-Chairman, Maxivision Super Speciality Eye Hospitals talks about the pivotal role of radiology and advanced imaging in ophthalmology—highlighting how timely, high-resolution imaging is transforming diagnosis, reducing delays, and enabling proactive, sight-saving interventions across India's growing at-risk population

On a daily basis, I review scans of patients for diseases that can be detected prior to them reporting symptoms. In ophthalmology early detection is a major aspect of providing care to patients. There are approximately 12 million people in India with glaucoma; there are over 77 million with diabetes who are at risk of developing diabetic retinopathy; and, there are millions of patients with age-related macular degeneration as well as optic nerve disorders. A major cause of vision loss in India is not related to the number of people receiving treatment, but rather it is from the lack of timeliness in identifying the patient's problems. The use of



radiology and advanced imaging is instrumental in solving this issue.

Why early imaging matters in eye disease

Several eye diseases that can lead to

blindness develop without showing any symptoms. In the case of glaucoma, the optic nerve gets irreversibly damaged even before the patient can notice any change in vision. Diabetic retinopathy can develop silently without the patient feeling any pain, and it only becomes painful when there is bleeding or retinal detachment. Orbital tumours, optic nerve inflammation, and vascular anomalies may remain clinically subtle until damage is advanced. Radiological imaging enables clinicians to detect structural and vascular changes early, often before visual function is affected, allowing timely intervention and preservation of sight.

Imaging as an extension of clinical examination

Modern ophthalmic radiology no more consists of traditional scans. Among other things, optical coherence tomography, fundus fluorescein angiography, MRI of the orbit and CT imaging facilitate ultra-high resolution visualisation of retinal layers, optic nerves, extraocular muscles, and orbital vasculature. In glaucoma suspects, imaging studies demonstrate the nerve head alterations at the very early stage. It is by imaging that very small retinal edema and microvascular leakage are detected in diabetics even before their vision is affected. For post, infectious or inflammatory conditions, imaging guides the understanding of the level of inflammation that can be reversed versus the level of damage that is permanent.

Reducing diagnostic delays and misdiagnosis

One of radiology's most significant but often overlooked aspects is that it provides diagnostic clarity to patients with complex visual symptoms. Blurred vision, eye pain, or double vision have many different causes and sometimes clinically difficult to differentiate whether it is due to neurological conditions, inflammation, vascular problems, or structural problems. The radiologists could differentiate between these causes using advanced imaging techniques like MRI, CT scans, and angiography which provides unique and accurate insight as to whether the patient's condition is caused by optic neuritis, compressive lesions, ischemia, vascular issues or malignancy. With

access to advanced imaging rapidly expanding in India, emphasis on early diagnosis becoming increasingly critical, radiology is playing a central role in facilitating timely, accurate interventions for clinicians to make informed decisions that significantly increase their ability to preserve patient vision.

Improving outcomes through timely intervention

Radiology plays a transformative role in shifting eye care from symptom-driven treatment to early, image-guided intervention. High-resolution OCT, MRI, and targeted CT imaging allow clinicians to detect structural changes in the retina, optic nerve, and surrounding tissues long before irreversible damage occurs. Early imaging identification of macular edema enables timely medical management, often reducing the need for repeated invasive injections. Similarly, prompt radiological detection of compressive optic neuropathy allows for surgical or medical intervention before permanent nerve damage sets in. By revealing disease at a subclinical stage, radiology directly contributes to better visual outcomes, fewer complications, and long-term preservation of functional sight.

Integrating imaging into routine eye care

Modern radiology is redefining how eye diseases are screened, assessed, and monitored. Advanced technologies like retinal imaging, orbital MRI, and targeted ultrasound provide objective, layered insights that go beyond what

clinical examination alone can reveal. For high-risk patient groups that includes diabetics and glaucoma patients who show up with unexplained visual disturbances, and those with systemic inflammatory conditions timely imaging enables early risk stratification and precise treatment planning. When included into routine eye care pathways, radiology becomes a proactive clinical tool rather than a last resort, it supports early decision-making, reducing uncertainty, and strengthening the overall vision care.

Radiologists play a decisive role in sight preservation, often identifying disease long before it disrupts daily life. With each early scan, detection of subtle abnormality, and precise interpretation has the power to alter a patient's visual future. Strengthening collaboration between ophthalmologists, physicians, and radiologists is essential to embed imaging into preventive care pathways rather than reserving it for advanced disease. In a country where vision directly influences independence, productivity, and quality of life, early radiological detection is not merely an advantage it is a standard of care that must be consistently upheld to safeguard vision at every stage.

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Trends that will define the radiology industry in the next decade

Dr Abhijit Raut, Director, Radiology & Imaging, Sir H.N. Reliance Foundation Hospital shares a comprehensive and forward-looking perspective on how innovations such as AI, photon-counting CT, advanced MRI, teleradiology and precision imaging are redefining diagnostics and interventions

The field of radiology has witnessed extraordinary transformation over the past three decades. From analogue film-based imaging to today's sophisticated AI-driven diagnostic platforms, the journey has been nothing short of revolutionary. Standing at this pivotal juncture in 2025, with technologies like photon-counting CT, artificial intelligence integration, and molecular imaging becoming clinical realities, I can confidently state that the next decade will fundamentally redefine our specialty. The future is truly promising, with innovations poised to reshape diagnostic and interventional radiology more profoundly than ever before.

The persistent challenges

Despite technological advances, fundamental challenges remain. Radiation exposure continues to concern us, particularly in paediatric and pregnant patients. Image quality in uncooperative patients—children, trauma victims, those with movement disorders—remains concerning. While modern technologies have addressed these to a certain extent, we still have a long way to go.

In Indian circumstances, disparity between urban and rural radiology presents unique challenges. Equipment cost and, critically, the man behind the machine—skilled



radiologists and technologists—remain barriers. Urban centres may have photon-counting CT, but rural India often lacks basic facilities. Bridging this gap will define our success.

Plain radiography: AI-enhanced foundation

Plain radiography remains diagnostic imaging's workhorse. In the next decade, AI will serve as an adjunct to both radiologists and clinicians, providing real-time detection of fractures, pneumothorax, and critical findings. Digital dynamic radiography represents functional imaging where motions can be captured—diaphragmatic movement, swallowing dynamics, joint mobility—enabling more physiological imaging with low radiation and better soft tissue resolution compared to static films. This technology transforms traditional X-rays into dynamic

studies, revealing function alongside structure.

Ultrasonography: Revolution in accessibility

Ultrasonography evolution has been remarkable. 3D and 4D ultrasound has revolutionised fetal medicine, now obtaining images comparable to MR brain studies in utero. Small portable ultrasound machines—some smartphone-sized—democratise access, particularly in rural settings and emergency situations where traditional imaging is unavailable. Contrast-enhanced ultrasound (CEUS) represents a significant advancement, especially valuable for patients with renal failure who cannot receive iodinated or gadolinium contrast.

CEUS enables real-time perfusion assessment of liver lesions, kidney masses, and vascular pathology with excellent safety, making it invaluable in patients with compromised renal function. Improved resolution with cost-effectiveness makes ultrasound increasingly relevant across all healthcare levels.

Elastography enables better tissue characterisation, differentiating benign from malignant lesions in liver, breast, and thyroid without invasive biopsy. Portability and safety position

modern ultrasound as critical for bridging urban-rural healthcare disparities.

CT: The Photon-Counting revolution

At Sir H N Reliance Foundation Hospital, India's first photon-counting CT (PCCT) represents computed tomography's future. Spectral imaging provides better tissue resolution and characterisation with lower radiation doses. We achieve unprecedented plaque analysis detail, enabling precise cardiovascular risk stratification.

High-speed acquisition eliminates motion artifacts, imaging beating hearts to characterise various cardiomyopathies without cardiac gating. In orthopedic imaging, 0.25mm resolution reveals trabecular bone architecture and subtle vascular pathologies previously invisible. Temporal bone imaging using PCCT has revolutionised the way we analyse temporal bone pathologies. Intrinsic spectral data provides color-coded material decomposition in every scan.

MRI: AI-driven efficiency and molecular insights

MRI is transforming through AI. Algorithms dramatically reduce scan times through real-time acquisition optimisation, addressing claustrophobia and motion artifacts. What used to take 45 minutes now takes 15-20 minutes without compromising quality.

Functional imaging—fMRI, perfusion, diffusion—provides physiological information beyond anatomy. Contrast development trends toward molecular imaging with targeted agents binding specific receptors. This enables earlier disease detection and personalised treatment monitoring.

Multimodality hybrid imaging—PET-MRI—combines metabolic and anatomical information in single sessions, revolutionising oncology and neurology diagnostics.

Teleradiology: Bridging the divide

Teleradiology represents a big leap for the Indian continent. Cloud platforms enable real-time subspecialty consultations, allowing rural clinics to obtain expert opinions within hours. AI-powered triage ensures critical cases receive immediate attention regardless of location. This democratisation addresses the “man behind the machine” challenge. While we cannot immediately train thousands of subspecialists, technology makes expertise universally accessible. Virtual tumor boards connecting institutions foster collaborative care and education.

Precision radiology

Radiology is embracing precision medicine. Radiomics—extracting quantitative features using AI—enables tumor characterisation and outcome prediction. Combined with genomics, imaging becomes a non-invasive biomarker for personalised therapy and assists in reducing side effects.

Interventional radiology: Minimally invasive future

Interventional radiology expands from diagnosis into therapy. Image-guided ablations, embolisations, and biopsies replace open surgeries. Fusion imaging—combining real-time ultrasound with CT or MRI—enables precise targeting of lesions invisible on single modalities. The next decade will see interventional radiologists performing increasingly complex

procedures: tumor ablations, stroke interventions, cardiac valve replacements—all through millimeter incisions under imaging guidance.

Green radiology

Modern equipment is becoming economical and sustainable. Manufacturers develop systems with lower radiation, reduced helium consumption in MRI, and minimal waste. This “green radiology” aligns with sustainability goals while reducing costs—critical for rural India.

The man behind the machine

Technology—photon-counting CT, AI algorithms, teleradiology platforms—advances rapidly. However, the man behind the machine remains paramount. Radiologists must evolve from image interpreters to diagnostic orchestrators, integrating AI insights with clinical expertise and humanistic patient care.

The challenges are substantial: radiation exposure, image quality in uncooperative patients, cost barriers, and workforce distribution across urban and rural settings. Yet the future is genuinely promising. AI will be our adjutant, not our replacement. Teleradiology will democratise expertise. Precision radiology with 3D printing will personalise care. Green technology will make advanced imaging sustainable and accessible.

By embracing these innovations while maintaining our core clinical competence, Indian radiology can lead globally. The next decade will be defined not by technology alone, but by how wisely we deploy it to serve every patient—urban or rural, wealthy or economically disadvantaged. That is the future worth building, and one I'm privileged to help create.

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