

RSNA Archives on Ovid®

100 years of imaging innovation

Tracing a century of how imaging and radiology knowledge developed together

X-rays opened a new way to see inside the body in 1895. Since then, advances in imaging have created a growing body of research that records how radiology has developed.

The foundations: 1920s–1980s



1923

RSNA gives radiology a permanent scientific record

The Radiological Society of North America (RSNA) published the first issue of *Radiology*® to document imaging research advances.²

Why it matters: Preserved scholarly record of radiology's development



1950s

Ultrasound brings radiation-free imaging to medicine

Pulse-echo techniques enabled radiation-free imaging.³

Why it matters: Safer option for frequent monitoring



1971

A scanner that sees what X-rays can't

The first CT scan opened the era of cross-sectional imaging.⁴

Why it matters: Enabled non-surgical diagnosis



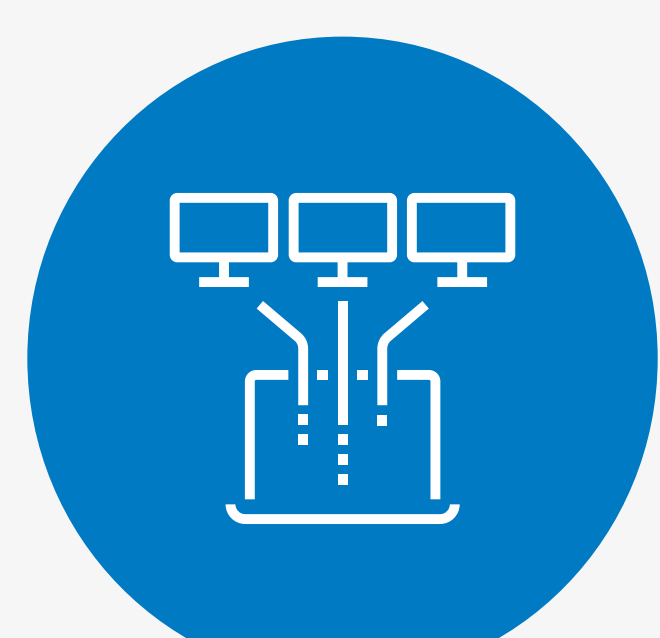
1980s

MRI opens another view of anatomy

Clinical MRI brought about radiation-free soft-tissue imaging.⁵

Why it matters: New option for repeat monitoring

Radiology goes digital: 1980s–2009



1980s–2000s

Standardized data and access

Digital Imaging and Communications in Medicine (DICOM) and picture archiving and communication system (PACS) replaced film with connected systems.⁶

Why it matters: Faster reads and remote collaboration



2007–2009

Measurable and portable imaging

RSNA launched Quantitative Imaging Biomarkers Alliance (QIBA)⁷ and patient-facing Image Share.⁸

Why it matters: Standardized data for research and AI

Radiology in the AI era: 2017–today

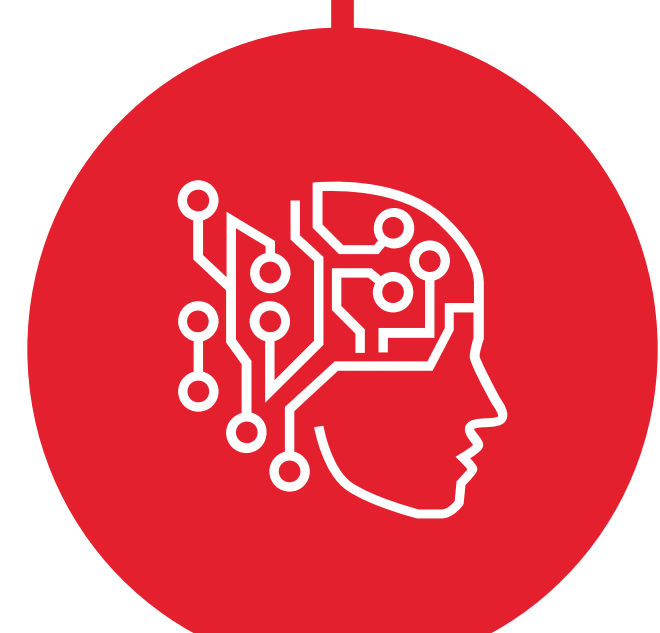


2017–2018

AI research takes hold

RSNA convened stakeholders to set priorities for AI in medical imaging research.⁹

Why it matters: Supported a systematic evaluation of AI methods in radiology



2019

AI gets a flagship radiology journal

RSNA launched *Radiology: Artificial Intelligence*®.¹⁰

Why it matters: Gave imaging AI research a dedicated scholarly forum



Today

A new chapter in access to one connected radiology archive

In 2026, RSNA and Wolters Kluwer Health entered a 10-year agreement covering five RSNA journals: *Radiology*®, *RadioGraphics*®, *Radiology: Artificial Intelligence*®, *Radiology: Cardiothoracic Imaging*®, and *Radiology: Imaging Cancer*®.¹¹

The RSNA Archives on Ovid provide institutions with perpetual access to the complete published history of RSNA's two foundational journals — *Radiology*® and *RadioGraphics*® — creating a comprehensive historical record of radiology research and education.

The collaboration is designed to connect more than century of accumulated radiology knowledge with researchers, educators, and clinicians working in an increasingly data- and AI-driven field.¹²

References:

1. American Physical Society, "November 8, 1895: Roentgen's Discovery of X-Rays," <https://www.aps.org/apsnews/2001/11/1895-roentgens-discovery-xrays>
2. RSNA, "RSNA Flagship Journal 'Radiology' Celebrates Centennial," January 30, 2023, <https://www.rsna.org/news/2023/january/radiology-celebrates-centennial>
3. Radiological Society of North America. (2015). The history of US: From bats and boats to the bedside and beyond: RSNA Centennial article. *RadioGraphics*, 35(5). <https://doi.org/10.1148/rg.2015140300>
4. McCollough, C. H., & Prabhakar Rajiah. (2023). Milestones in CT: Past, Present, and Future. *Radiology*, 309(1). <https://doi.org/10.1148/radiol.230803>
5. Geva, T. (2014). The history of MRI as seen through the pages of *Radiology*. *Radiology*, 273(2 Suppl.), S181–S200. <https://doi.org/10.1148/radiol.14140706>
6. Ramsoft, "A Brief History of the PACS: Past, Present, & Future," <https://www.ramsoft.com/blog/brief-history-pacs>
7. RSNA, "QIBA," <https://ektron.rsna.org/QIBA/>
8. Radiological Society of North America. (2009, November). RSNA to create imaging sharing network with NIBIB grant. RSNA News. https://www.rsna.org/uploadedFiles/RSNA/Content/News/PDF/2009/RSNA_News_Nov2009.pdf
9. RSNA, "AI Challenges," <https://www.rsna.org/artificial-intelligence/ai-image-challenge>
10. RSNA, "RSNA Launches *Radiology: Artificial Intelligence*," January 30, 2019, <https://www.rsna.org/news/2019/january/radiology-ai-journal-launch>
11. Radiological Society of North America. (2026, May 27). Wolters Kluwer and RSNA establish 10-year agreement to advance global access to leading radiology research journals. <https://www.rsna.org/news/2026/may/wk-rsna-journalshttps://www.rsna.org/news/2026/may/wk-rsna-journals>
12. Radiological Society of North America. (n.d.). Radiology Legacy Collection. <https://www.rsna.org/journals/radiology/legacy-collection>