ECR 2026

AI-powered patient pathways, sustainable imaging and interventional advances

With its new clinical pathways, sustainable imaging technologies and next-generation interventional systems, Siemens Healthineers showcased how radiology departments can elevate precision, efficiency and patient experience at the European Congress of Radiology (ECR) at the beginning of March.

1 Clinical pathways highlight AI solutions along the patient journey

A centerpiece of the company's booth in Vienna were its new **AI-Powered Pathways**, which map out clinical care journeys in cancer, cardiovascular, neurovascular and Alzheimer's disease. Guided by experts along each step of the journey, visitors experienced how AI can help radiologists and clinicians achieve more consistent scanning, faster reading and confident decision-making.

Siemens Healthineers sponsored three prominent events at ECR dedicated to clinical topics and AI: Cancer Care Day brought together leading experts and innovators to explore the future of oncology, including how AI is transforming screening, diagnosis and treatment planning. A lively opening panel discussion included the future role of agentic AI in augmenting multi-disciplinary teams as well as the need to ensure AI leads to equitable access to imaging at an expert level.

↗ **Watch the recordings here.**

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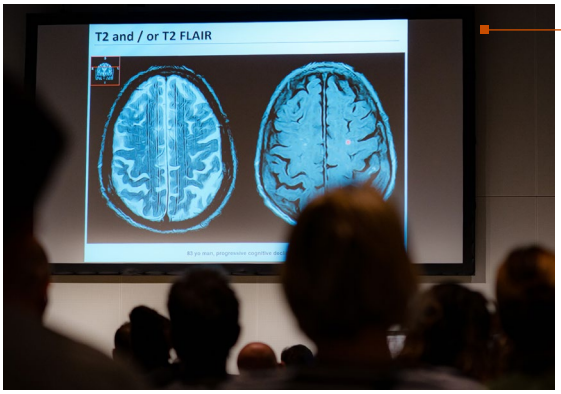

The inaugural **Alzheimer's Day** examined how imaging is transforming in the age of disease modifying therapies. The day brought together radiologists and neurologists in sessions ranging from the role of imaging to support in the diagnosis of the disease, the promise of new biomarkers to slow cognitive decline in the early stages of the disease, and the question of which patient groups are likely to be covered for these new treatment options by their healthcare systems.

↗ Watch the recordings here.

Throughout the week, **AI Theatre sessions** shared how artificial intelligence impacts clinical care pathways across clinical fields and modalities. Topics included how AI-powered reading and reporting can shape personalized cancer care, the impact of deep learning algorithms on productivity and clinical precision, and the risk-benefit analysis of human-machine collaboration.

↗ Watch the recordings here.

2 Radiology – Ready for Tomorrow

The booth's second major theme, Radiology – Ready for Tomorrow, spotlighted innovative solutions enabling radiology departments to close skill gaps, expand access to imaging and advance toward the ESR's **↗ Green Imaging Department** certification.[1] Plus solutions for fleet management. These benefits were made tangible using augmented reality glasses in four immersive innovation experiences: Enhancing productivity with **↗ Deep Resolve** and AI-powered prostate contouring; Improving ease of use with **↗ myExam Companion**; Innovating in education with **↗ ExpertGuidance** for **↗ Ysio X.pree**; Staying fit for the future with **↗ Fit Upgrades**.

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3 Breakthrough technologies across modalities

Siemens Healthineers highlighted new and upcoming technologies spanning MRI, CT, interventional, women's and enterprise imaging, as well as ultrasound.

MRI: Sustainability meets interventional capability

Two MRI systems took center stage this year.

↗ MAGNETOM Flow, a 70 cm 1.5T system, the company's most sustainable and intelligent MRI to date, is now FDA cleared.

↗ MAGNETOM Free.XL[2] will offer exceptional accessibility and comfort thanks to its unprecedented >100 cm flared XL bore.

Photon-Counting CT and AI-driven planning

↗ NAEOTOM Alpha.Prime demonstrated how PCCT is converging with streamlined workflow tools to bring precision and consistency to both diagnostics and intervention, highlighting ↗ *syngo*.CT Coronary Cockpit[3], the new AI powered tool for plaque analysis and whole plaque burden assessment to support PCI planning.

Interventional imaging

The ↗ new angiography platform (ARTIS icono.vision, ARTIS pheno.vision, ARTIS icono.explore and ARTIS genio)[3] offers an advanced imaging chain that automatically optimizes parameters to deliver high-quality, low-dose images across interventional radiology, cardiology and minimally invasive surgery.

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Enterprise imaging and reporting

At the ↗ Syngo Carbon[4] Experience Center, guided reading sessions demonstrated real-life cases of enhanced automation, sped-up reporting and GenAI-supported report creation. Visitors also saw ↗ Syngo Flexinity[5], designed to streamline workflows and support future-proof imaging capability.

Women's imaging

↗ MAMMOMAT B.brilliant with new ↗ ClearCEM and ClearCEM Biopsy[3] delivers enhanced lesion conspicuity in contrast-enhanced mammography.

Ultrasound

Supporting non-invasive liver assessment, UDFF[6] technology is now also available with ↗ ACUSON Juniper and ↗ ACUSON Redwood systems. The expanding role of AI in ultrasound is exemplified by the AI Abdomen solution on the ↗ ACUSON Sequoia for faster, more ergonomic exams.

[1] *https://www.myesr.org/greenid/*
[2] *MAGNETOM Free.XL is currently under development; it is not for sale in the U.S.A. Its future availability cannot be guaranteed.*
[3] *syngo.CT Coronary Cockpit, ARTIS icono.vision, ARTIS pheno.vision, ARTIS icono.explore floor, ARTIS genio floor, and ClearCEM are pending 510(k) clearance; not yet commercially available in the U.S.A. and other regions.*
[4] *Syngo Carbon consists of several products which are (medical) devices in their own right. Some products are under development and not commercially available. Future availability cannot be ensured.*
[5] *Syngo Flexinity is a sales package, consisting of several (medical) devices in their own right. Some products are under development and not commercially available. Future availability cannot be ensured.*
[6] *Ultrasound Derived Fat Fraction*

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