RADIOLOGICAL SOCIETY OF NORTH AMERICA
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NEWS

RSNA 2026: At the Center of Translational Research

Translational research turns laboratory discoveries into practical tools that improve patient care. Radiology is especially central to translational research, because imaging connects biological mechanisms with measurable changes in patients—often noninvasively. This allows researchers to track disease progression and treatment response while accelerating the path from discovery to routine care.

RSNA 2026 offers a special science focus session, featuring breakthroughs in translational research.

T3-STCE2 Science Focus Session:
From Clinical Innovation to Healthcare Transformation: Translational Research in Practice
Tuesday, December 1, at 10 a.m. CT
Learning Center Theater 2

David Mankoff, Ph.D., M.D., is the keynote speaker for this exciting session featuring two important clinical trials. Dr. Mankoff is Matthew J. Wilson Professor and Vice-chair for Research in Radiology at the Perelman School of Medicine at the University of Pennsylvania. He also serves as the associate director for education and training for Penn's Abramson Cancer Center. He will present **"From Clinical Innovation to Healthcare Transformation: Translational Research in Practice."**

In the first presentation, "**The CRYSTAL-SIX Trial (CrYoablation for Small Tumors As Local Treatment): A Phase III Randomized Multicenter Trial Evaluating a De-escalation Strategy with Practice-Changing Potential for Early-Stage Breast Cancer**," Vanessa M. Sanvido, Ph.D., M.D., outlines how The CRYSTAL-SIX trial, the first randomized phase III study evaluating omission of breast surgery in early-stage breast cancer, provides initial evidence that an outpatient strategy based on ultrasound-guided cryoablation is feasible, safe, and associated with favorable short-term oncologic outcomes.

If confirmed with longer follow-up, this practice-changing approach has the potential to redefine local treatment strategies for selected patients with early-stage breast cancer by reducing surgical morbidity without compromising cancer control.

Next, in "**Interim Results of a Prospective Randomized Controlled Trial: AI-Enabled Chest Radiography for Assisting Detection of Actionable Pulmonary Nodules Across Northeast Ohio Multi-Center Tertiary Health System,**" Natally AlArab, M.D., M.Sc., evaluates the clinical impact of integrating an artificial intelligence (AI)-based computer-aided detection algorithm into routine chest X-ray workflow for identifying actionable pulmonary nodules that may be missed during routine radiologist interpretation.

Interim results show AI implementation as a second reader identified actionable pulmonary nodules missed during routine chest X-ray interpretation, prompting additional evaluation and early lung cancer detection without disrupting workflow.