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American Heart Association®
Center for Health
Technology & Innovation



Scientific Sessions — Sparking Innovation

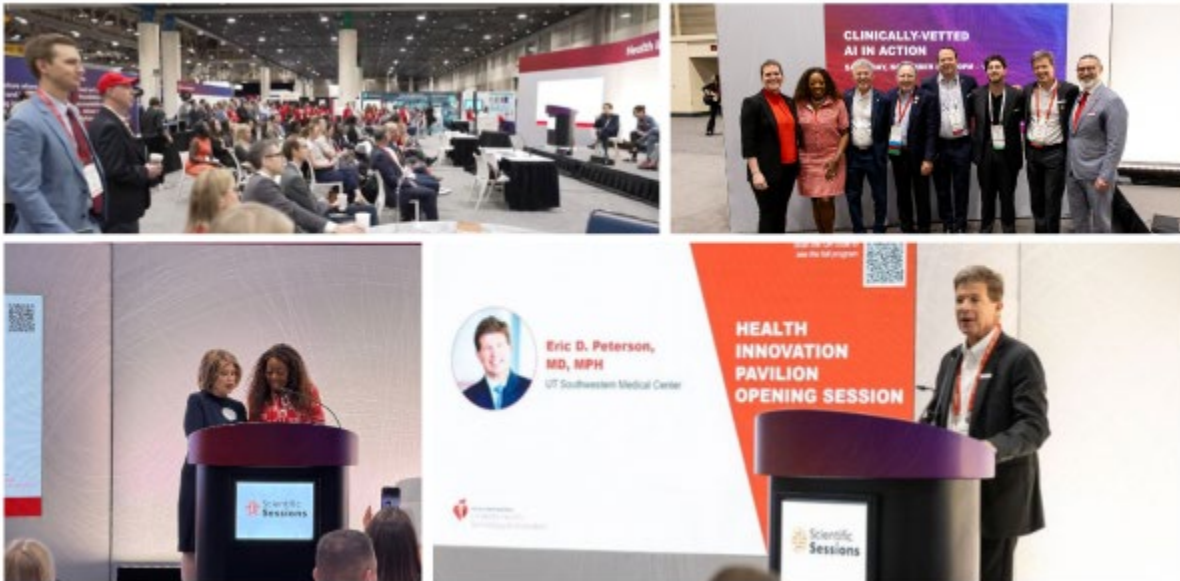
The Health Innovation Pavilion (HIP) at Scientific Sessions convened innovators, clinicians, researchers, startups, and industry leaders shaping the future of cardiovascular and brain health.

Across three high-energy days, the HIP delivered interactive panels, live demos, “Stump the Doctor” challenges, fireside chats, and innovation showcases that spotlighted how digital tools, AI, virtual care, and data are transforming prevention, diagnosis, and treatment.

Home to the Health Tech Competition, CarePlan Challenge and the Innovators’ Network Showcase, the HIP hosted emerging companies and founders developing solutions to improve guideline-driven care, streamline workflows, advance access and reduce clinician burden.

A key theme was collaboration — between scientists and engineers, clinicians and technologists, payers and providers and early-career leaders and seasoned experts.

Watch the Health Innovation Pavilion [Sizzle Video](#).



Scientific Sessions Sets New Pace for Innovation with 188 Health Tech Abstracts

The 98th Scientific Sessions brought together 13,800 professionals from 90 countries, showcasing 4,432 abstracts across 21 scientific communities — including 188 submissions in health tech and AI, a record-setting signal of where the field is headed.

From breakthroughs in gene therapy to evidence that “food is medicine,” the conference highlighted innovations shaping the next era of cardiovascular care. And with a surge of digital health and AI research, Scientific Sessions underscored a shift toward smarter prevention, earlier detection and more personalized treatment.

- [Session Title: Advances in AI/ML Model Development for Biomedical and Clinical Applications](#)
- [Session Title: Advancing Cardiovascular Care with Machine Learning and AI: Real-Time Diagnostics, Risk Stratification, and Precision Tools](#)

- [Session Title: Advancing Personalized and Policy-Driven Cardiovascular Care: AI, Decision Support, and Sex-Specific Insights](#)
- [Session Title: AI and Digital Tools in CVD Research](#)
- [Session Title: AI and Biomarker-Driven Approaches to Atrial Fibrillation and Stroke Risk Stratification](#)
- [Session Title: AI Under the Hood: Performance, Precision, and Model Accuracy](#)
- [Session Title: AI-Powered Multimodal Imaging and ECG for Disease-Specific Diagnostics](#)

See more late-breaking science in digital health, health tech and AI [here](#).



American Heart Association National Volunteer Star Jones and CEO Nancy Brown recognized winners of the Health Tech Competition at Scientific Sessions. Pictured with them are Dr. Davide Carone and Dr. Michael Papadakis of Brainomix, which won Best Science Pitch. (Photo by CNTV)

Winners named in annual Health Tech Competition

Houston-based PolyVascular and Oxford, England-based Brainomix took top honors in the annual Health Tech Competition, presented by the American Heart Association [Center for Health Technology & Innovation](#) at Scientific Sessions. Following presentations Nov. 8-9, an expert panel of volunteer judges selected the winners based on the validity of the working prototype, scientific rigor and the potential impact on patient outcomes.

PolyVascular was named overall winner, placing first in the Best Business Pitch category for its minimally invasive pulmonary valve and delivery system to help

children with congenital heart disease avoid repeated open-heart surgeries. The company will receive membership to the Center for Health Technology & Innovation [Innovators' Network](#), a consortium that connects entrepreneurs, providers, researchers and payers to advance cardiovascular and brain health.

Brainomix won Best Science Pitch for its artificial intelligence-powered software designed to help doctors make faster, more accurate treatment decisions for stroke and lung fibrosis. This recognition opens opportunities for the company to connect with scientific and business leaders after Scientific Sessions.

Congratulations to this year's winners and thank you for bringing science to life.



Meet the CarePlan Challenge Champions Transforming Heart Health

The American Heart Association's Center for Health Technology & Innovation launched its first-ever CarePlan Challenge at Scientific Sessions to spark innovation and expand access to guideline-based cardiovascular care.

Developers, digital health teams and AI innovators were invited to build digital prototypes using the Association's CarePlans and digital content — with the goal of improving patient engagement, personalizing care and driving better outcomes.

From a competitive pool of applicants, three CarePlan Challenge Champions earned the chance to present in the Health Innovation Pavilion at Scientific Sessions in New Orleans. They shared their prototypes with expert judges and a

live audience, gaining real-time feedback to help propel their ideas forward.

The CarePlan Challenge Champions

ConneQT – A mobile, CarePlan-guided wellness program that connects daily tasks, biometrics, and personalized goals to help patients build heart-healthy habits and give clinicians better visibility.

Porter Health – A web tool that combines one-click PREVENT and CKM risk scores with an LLM-assisted, expert-vetted CarePlan tailored to each patient and ready for use on any device.

OneVillage – A virtual cardio-primary care platform for women that turns CarePlans and PREVENT risk into an 80-day guided pathway combining clinical visits, rehab, education, and daily tracking.



AI vs. Clinicians: A Fast-Paced, Standing-Room-Only Showcase at the Health Innovation Pavilion

In one of the most energetic and packed sessions of the Health Innovation Pavilion, moderator Pierre Elias, MD led an electrifying live challenge that put clinicians head-to-head with one of the latest general-purpose large language models (LLMs).

Joining him on the panel were Effie Andrikopoulou, MD MBA FACC FASE, Alexander Blood, MD, MSc, FACC, ABOM and Timothy Poterucha, MD—a powerhouse of clinical expertise across cardiology and imaging.

The session unfolded as a rapid-fire competition answering ECG interpretations, echocardiography assessments and complex clinical vignettes. The takeaway was clear: AI is a powerful tool that can support clinician reasoning, synthesize large amounts of data, and improve administrative, operational, and clinical efficiency.

But equally important: AI cannot replace clinical judgment. Not the moral reasoning, contextual awareness, accountability or compassionate decision-making at the heart of patient care.



On the scene at Scientific Sessions 2025

Caught on camera! Peek into our [photo gallery](#).

You can browse all past issues in our [newsletter archive](#) to catch up on key stories and insights. Make sure you're in the loop— [don't miss our news and updates section](#).

We are eager to hear from you. Send Darcy Barrett, darcy.barrett@heart.org, your ideas for what you want included in the monthly newsletter.

Know someone who wants to join our mailing list? Forward the "sign up for our mailing list" [link](#).

Until next month!



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