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Advancing Acute Coronary Syndrome Management Through Precision Interventional Cardiology and Personalized Therapeutics

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Acute coronary syndrome (ACS) remains one of the most common causes of cardiovascular mortality despite substantial advances in diagnosis and treatment. Continuous improvements in interventional cardiology, precision medicine, and evidence-based pharmacological therapies have dramatically enhanced survival and reduced long-term complications in patients with myocardial infarction. This presentation examines recent developments in the diagnosis and management of ACS, including high-sensitivity cardiac biomarkers, intracoronary imaging, physiology-guided percutaneous coronary intervention (PCI), and individualized antithrombotic therapies.

Recent clinical trials have demonstrated the value of personalized treatment strategies based on patient-specific risk profiles, genetic factors, and advanced imaging findings. The presentation will review innovations in drug-eluting stents, mechanical circulatory support devices, and minimally invasive coronary interventions that continue to improve procedural safety and long-term clinical outcomes.

The session will further discuss secondary prevention strategies, including lipid-lowering therapies, cardiac rehabilitation, lifestyle modification, and digital monitoring technologies that reduce recurrent cardiovascular events. Future perspectives include artificial intelligence-assisted clinical decision support, precision risk prediction, and integrated multidisciplinary care models designed to optimize patient outcomes following acute coronary events.

Biography

Stefan James is Professor of Cardiology at Uppsala University, Sweden, and Senior Consultant Cardiologist at Uppsala University Hospital. His research focuses on acute coronary syndromes, coronary intervention, cardiovascular clinical trials, and antithrombotic therapies. He has led several international multicenter studies that have influenced modern guidelines for the management of myocardial infarction and ischemic heart disease.