

5<sup>th</sup> World Congress on  
**ADVANCED CLINICAL TRIALS AND CLINICAL RESEARCH**  
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### Clinical trial innovation: Drivers, trends and opportunities

Clinical Trials in the United States have been conducted in the traditional manner for decades, however in the last few years, with innovations and transformation in healthcare there is a unique opportunity to innovate clinical trial design and implementation. In this presentation, the main drivers, trends and opportunities for clinical trial innovation will be presented. Topics will include

**Varied Clinical Trial Design:** Umbrella Trials, Basket Trials, Adaptive design and Pragmatic Trials, In Silico Trials Expanded Data Utilization in Design and Implementation of Clinical Research, which includes Access to data through multiple platforms and cloud based systems, Reducing Data variability and enhancing data quality, Artificial Intelligence, Augmented Reality, Natural Language Processing, Predictive Modeling in Research, Clinical Decision Support.

**Digital Transformation in Health:** Patient Engagement, mHealth – mobile technologies, On demand services – convenience of care, Telehealth Technologies, Social networks and media, Health care transformation – mergers and acquisitions, Entry of “big players” – e.g. Amazon

**Regulatory Innovation:** Expanded FDA exemptions, Central IRB etc.

**Process Innovation:** Streamlined processes and better use of technology, Resource Management, Staffing and CROS Patient Centricity – and stakeholder input in trial design

### Biography

Dr. Vani Nilakantan is the Vice President, Research at Allina Health System, Minneapolis Minnesota. Dr. Nilakantan has over 25 years research experience in academic and hospital based settings. At Allina Health, she is the head of research for the health system, provides executive level leadership for clinical and basic research within an integrated hospital system environment and is the authorized organizational representative and signatory for system. Dr. Nilakantan Provides visionary perspective on the future of research at a major health care institution. She also sets strategic direction for research and reorganized research structure for Allina Health System.

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