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The spectrum of simulation

by Nora Colman

In the past several years there has been a major boom in the rates of hospital construction to replace aging facilities, support population shifts, and accommodate advancing healthcare technologies. Despite advances in technology and design, healthcare errors continue to be one of the leading causes of patient deaths. Many of these errors are linked, at least in part, to the built environment.

One of the best ways to mitigate these issues is via simulation-based evaluation. Simulation can help identify flaws and opportunities in the regular operation of a healthcare facility, at design through all the way through occupancy. From identification of inefficiencies during design development to evaluating a working system, proactive identification and early mitigation can reduce the potential for harm.

This white paper includes:

- The business case for simulation-based testing
- Simulation-based testing methodology
- Types of simulation-based testing and case studies

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