Building Engineering Considerations

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Reducing hospital-acquired infections is a major initiative currently in US hospitals. The objectives of this talk is to understand how design of hospitals air handling affects nosocomial infection risk specifically and, more broadly, the risk of infectious disease transmission in the build environment. Potential benefits of newer and innovative strategies to reduce infection risk within the built environment will also be discussed. Five key ideas will be presented: The microbiome in hospitals, outdoor air supply ventilation, natural ventilation, UVGI in air handlers, and use of negative pressure ward.