What’s Next in Healthcare: An Exploration

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Today’s Agenda

• Macro trends and design imperatives
  - Light, health & wellness
  - Aging population
  - Evolution of patient experience
  - Influencing outcomes in the built environment
  - Sustainability
  - Fiscal challenges & O&M improvements

• Changes in lighting system design
  - Non-institutional design
  - Technology integration
  - Beyond lighting
Trends in Healthcare
Light, Health & Wellness

- Designing for non-visual impacts of lighting
- Research & application – growing knowledge base & enabling informed specifications
The Wellness Movement...

- WELL Building Standard® is gaining traction
- Refinements in lighting section required

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Source: WELL Building Standard v1 with May 2016 Addenda
Aging Population

→ Reduced biological stimulus
→ Rhythm problems

Adapted from van de Kraats 2007

Courtesy: Osram Sylvania
Assessing Patient Experience…

HCAHPS "Top Box" Scores – July 2016 Public Report
(10/1/2014 - 9/30/2015 Discharges)
Implications for Lighting System Design
Can Smarter Buildings make us Healthier?

- Wireless Control
- Tunable Lighting
- Predictive Maintenance
- Unified Lighting & HVAC
- Search/Wayfinding, Asset Tracking, & Space Utilization
- Mobile Apps
- Outdoor Video Analytics
What’s Important in Healthcare Design?

- Patient Experience
- Caregiver & Staff Performance
- Environmental Sustainability