



Dull

Tasks that are repetitive and tedious





Dangerous

Tasks with health and safety concerns





Dirty

Tasks that have an icky of filth factor





Dear

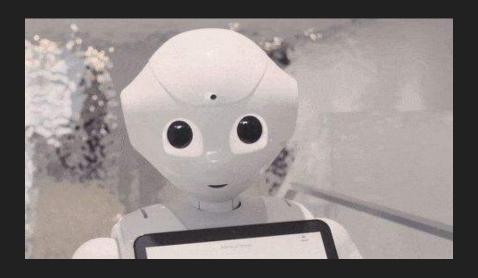
Tasks that have strict quality requirements or cost savings





Indirect: More Efficient Hospitals Through Robotics







Direct: More Effective Care Through Innovation







Key Drivers

Declining and Aging Population

Fewer people able to work and more people needing support

Job Market Fluctuations

Labour market tightening and labour shortages since the onset of the pandemic

Human Environments

Most jobs are in unstructured environments

A growing worker shortage gap will require new technology



Staffing shortages to cost U.S. care facilities \$19.5B this year



Case Study: Cleveland Clinic

- Purchased 81 service robots when it expanded in 2008
 - \$100K per robot
 - \$300K per year service contract
- Replaced the need for 120 employees
 - \$5M per year in savings
- Two year payback period





Value and Vision



"Robots can work around the clock to disinfect areas, thus relieving healthcare staff and reducing person-to-person contact."

Service Robots in the Healthcare
Sector (Holland et al., 2021)



"Robots are not to replace nurses but to augment and empower the nursing profession."

Robotics And The Impact On Nursing Practice (Tietze & Mcbride, 2020)



"Study from UCLA finds a visit from human-controlled robot encourages a positive outlook and improves medical interactions for hospitalized children"

— UCLA Health, 2021



"[Child life specialists] reported significant [...] benefits of the social robot for patients, [including a] greater display of intimacy and interactivity during play, increased control over their hospital experience, and the formation of a new, trusting friendship."

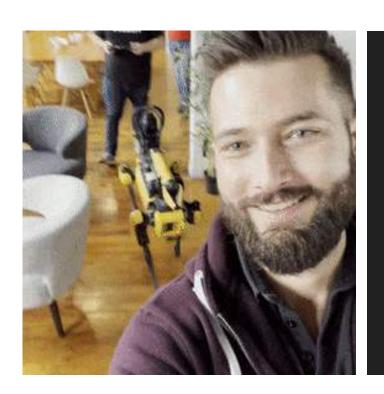
— Robot Telepresence Operated by Child Life Specialists in Healthcare Settings (Wertz et al., 2022)



"Social robots like Robin may improve the hospital experience among pediatric patients."

— Robot Telepresence for Children in Healthcare Settings (Oland et al., 2022)





Thank You!

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