

# N<sup>2</sup>: Never Never Fall Detection System

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# Hospital Falls

## ► Facts

- 84% of all adverse events are falls
- Most falls happen at night: toileting
- Complications include fractures, head injuries, death
- > \$31,000 per fall

## ► IOM Patient Safety Focus



# The N<sup>2</sup> System – Preventing the Fall

- ▶ Existing Technology to Monitor
  - Motion
  - Sleep State
- ▶ Feedback
  - Escalating Prompt
    - Awakening state
    - Stirring in bed
    - Movement out of bed
- ▶ Prevention of Fall
  - Healthcare worker intervention



# Market

- ▶ Primary: Hospital
  - Save money
  - \$150 for unit vs \$31 000 per falling incident
  - No payment “never–never” event
  - Higher payment from insurers
- ▶ Secondary Markets:
  - Nursing facilities
  - Personal homes

# \$\$\$ = Fall Prevention

- ▶ Comparable devices
  - BedAlarm – \$200 per unit
  - LG1 System – \$15 a day per bed
- ▶ N<sup>2</sup> Fall Prevention
  - \$150 per unit
  - \$3 per day disposables

# Development

- ▶ Design and prototype the device
    - HRSA Funding
  - ▶ Pursue patent
  - ▶ Begin FDA medical device approval process
  - ▶ Partner with hospital system
  - ▶ Preliminary pilot study/clinical trials
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