

Adoption Challenges in Pressure Injury Prevention: A Qualitative Analysis of Nursing Home Staff Perceptions of Subepidermal Moisture Technology

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PURPOSE

- Evaluate implementation of SEM scanning technology for pressure injury prevention in nursing homes
- Explore factors influencing adoption of technology designed to detect early skin damage regardless of skin tone

METHODS

- Seven focus groups were conducted across five nursing homes (2 were interviewed in months 1 and 8)
- Nursing staff (N=50) who used SEM during the 8-month intervention
- Directed qualitative content analysis was performed using six a priori codes derived from Diffusion of Innovation theory: observability, trialability, compatibility, relative advantage, complexity

RESULTS

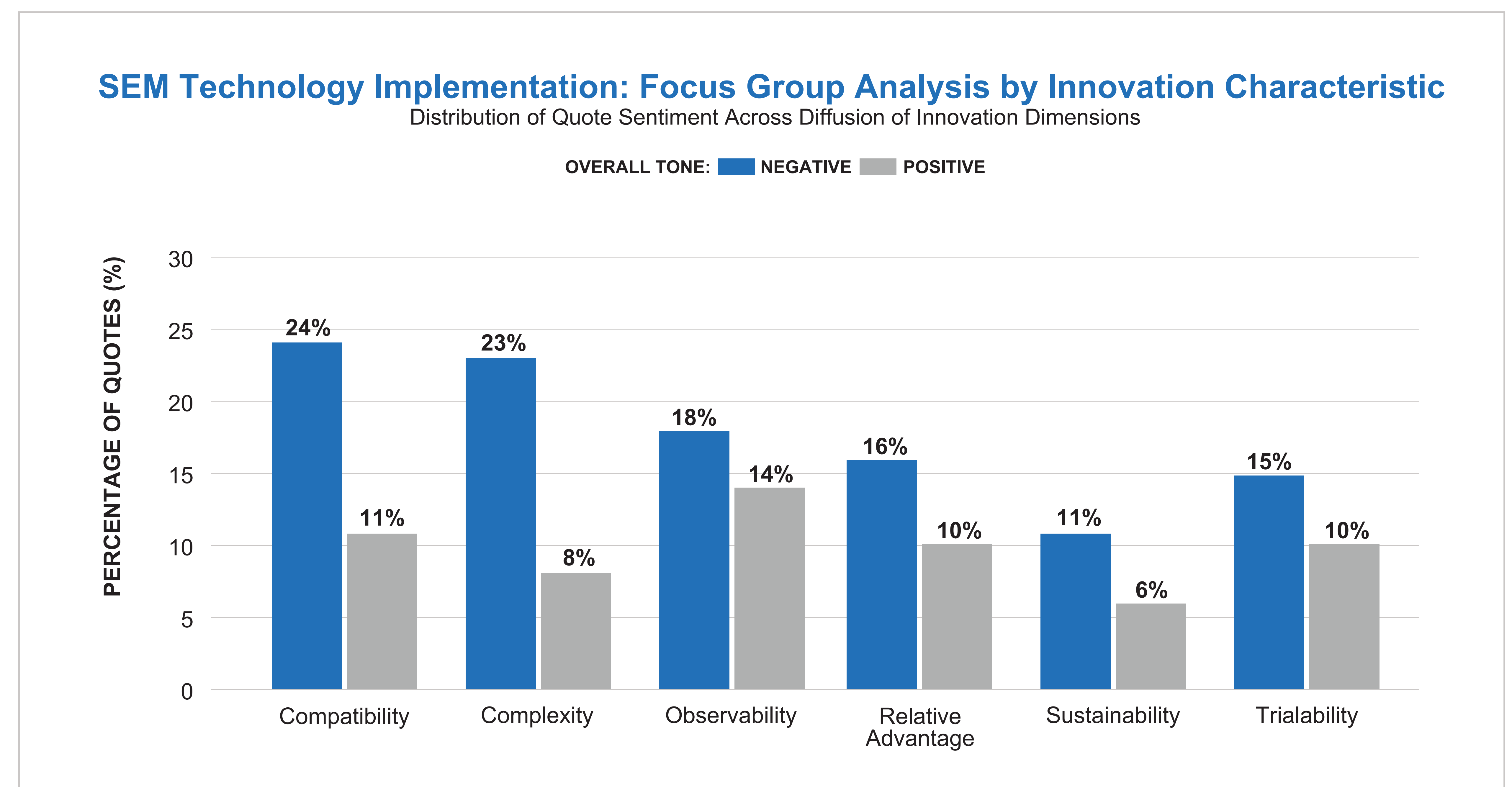
- **Strong resistance observed:** 90/132 (68%) of participant feedback quotes were negative, showing unusual resistance compared to typical healthcare technology adoption
- **Major implementation barriers:** Workflow compatibility issues, operational complexity, unclear benefits, and resource constraints created significant obstacles
- **Poor long-term viability:** Technology inflexibility and sustainability concerns indicated the intervention lacked durability and adaptability

CONCLUSIONS

- **Key Barriers:** SEM technology adoption was hindered by workflow integration challenges, organizational constraints, and increased staff burden in resource-limited nursing homes.
- **Future Strategies:** Implementation approaches must address resource constraints through support systems that minimize workflow disruption while maintaining technology effectiveness.

POLICY IMPLICATIONS

- **Require comprehensive adoption frameworks:** Integrate staff education, workflow protocols, change management, and systematic barrier removal beyond basic device training



Note: Sum of 166% due to multiple coding methodology where individual quotes could exemplify several characteristics. Based on 80 unique participant quotes generating 132 coded instances.