

Breaking Down Language Barriers Teaching Anesthesia Providers Focused Medical-Spanish Phrases

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INTRODUCTION

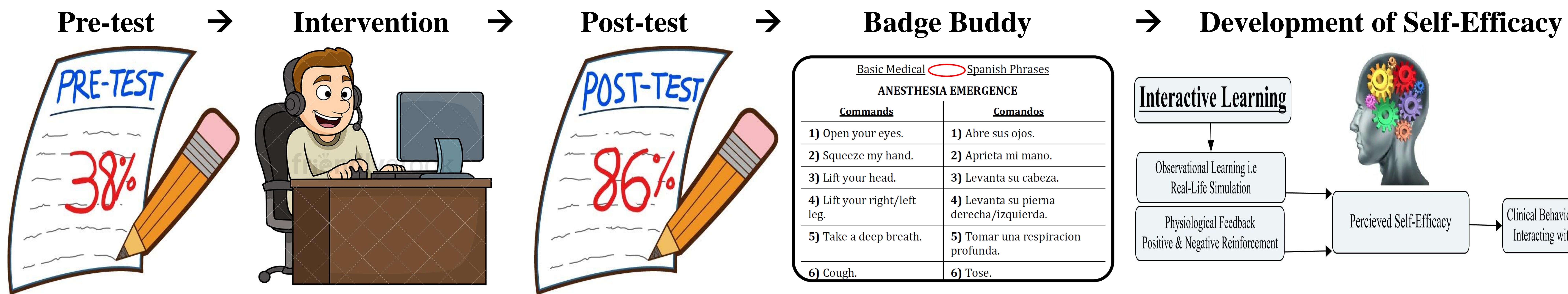
- Pew Research Institute: By 2021 50% of newly insured individuals will likely have limited English proficiency (LEP) → Increased frequency of encounters between providers & LEP patients
- LEP patients are more likely to be admitted to the hospital, have longer stays, receive insufficient anesthesia, are subjected to unnecessary diagnostic testing, & have increased exposure to medical errors

BACKGROUND & SIGNIFICANCE

- Language translation services, such as by phone or in-person translator, are not always readily available and underutilized
- Active learning methods are superior for knowledge retention compared to passive learning methods in various subjects such as science, mathematics, & language
- Implementation of an interactive e-Learning course for focused medical-Spanish terms & phrases → efficient learning & increased provider self-efficacy when caring for a patient of limited English proficiency (LEP)

METHODS & RESULTS

- INTERVENTION:** Active learning derived from a developed interactive e-Learning course: Engages the learner's visual, auditory, and tactile cognitive domains. Subject-matter of the online course: medical-Spanish terminology utilized during anesthesia emergence (44 subjects)
- RESULTS:** Average scores → Pre-tests: 38.24% Post-tests: 85.52% → 47.3% improvement following the intervention (e-Learning course). 30-day post-intervention provider self-efficacy survey results in communicating with LEP patients: Positive correlation identified between the e-Learning course & enhancement in provider self-efficacy



DISCUSSION

- Perception → Improving provider communication abilities → Increased efficiency of care provision, enhanced patient safety, & improvement of provider & patient satisfaction
- Expansion → Other languages, supplementary assessments (Pre-op, Post-op, standardized assessment tools i.e. STOP-BANG, Glasgow Coma Scale), & Procedural guides i.e. Epidural placement
- Augment Accessibility → Utility for CEUs, supplementation of academic curriculums i.e. core class versus elective course, & multi-platform support i.e. phones, tablets, computers.

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