

Comparing Education Methodology in the Emergency Department.

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Comparing Education Methodology in the Emergency Department

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Background/Purpose

- Emergency Department nurses expressed a desire for an increase knowledge of sickle cell disease
- What is the best way to provide education on sickle cell disease? Is a slide presentation the best method?

PICO

• PICO Question:

When emergency room nurses are educated on Sickle Cell Disease in the pediatric population, does the use of PowerPoint versus video increase the overall retention of information?

- **P:** Emergency Department nurses
- **I:** Education on pediatric sickle cell disease using a slide presentation
- **C:** Education on pediatric sickle cell disease using a video
- **O:** Increase nurse retention of information

Evidence

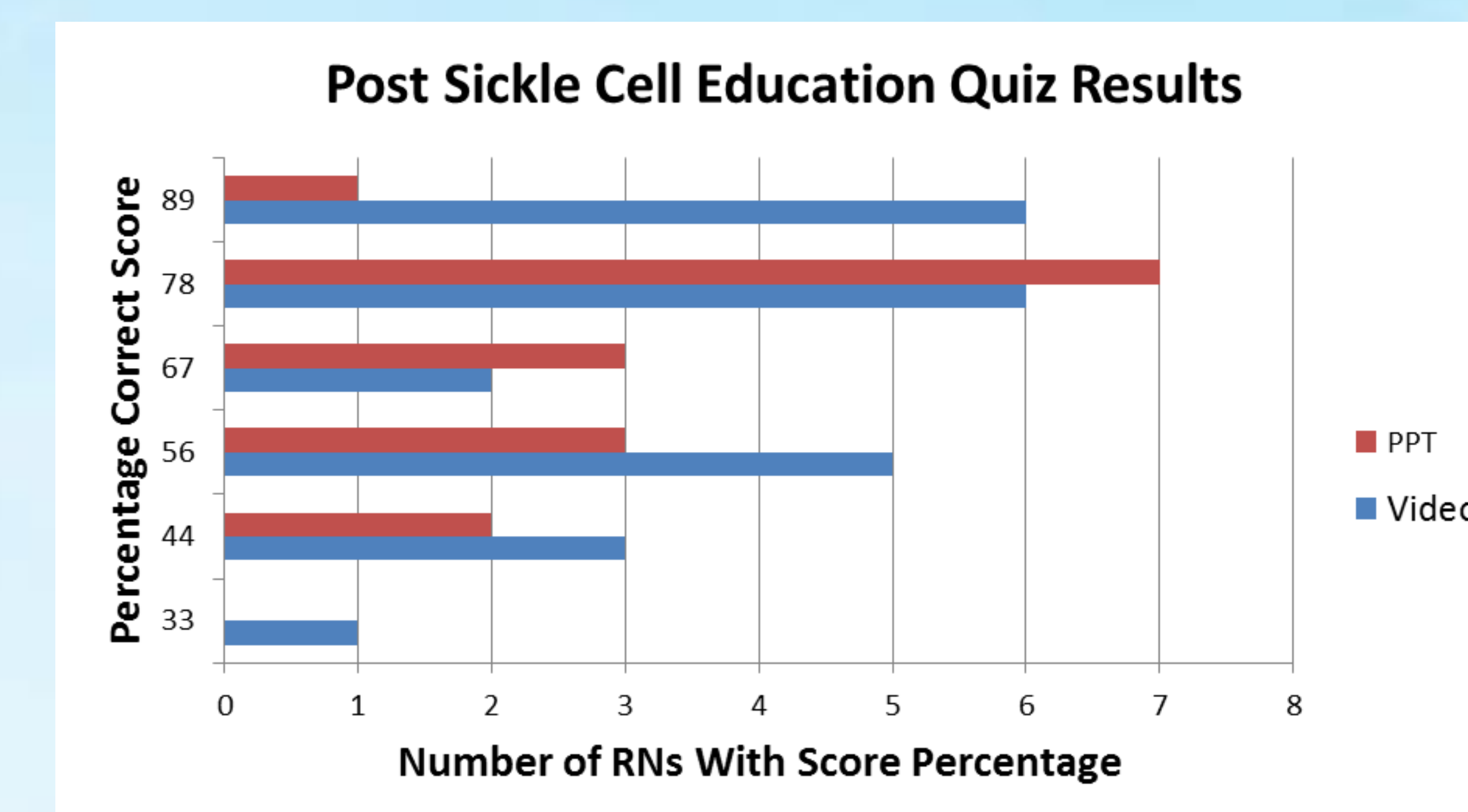
- “PowerPoint presentations rank among the most dreaded presentation platforms” (Spiva et. al 2012)
- Using videos helps to engage viewers and promote critical thinking and decision making (Spiva et. al 2012)
- 4 essential e-learning designs needed to engage the learner (Spiva et. al 2012)
 - Structure, Visual Interest, Emotion, Storytelling
- To increase learner motivation (Spiva et. Al 2012)
 - Grab their attention, Show them why they need to learn, Build their confidence, Bring satisfaction

Implementation Plans/Method

- Two educational approaches were created on sickle cell disease in children using standard PowerPoint and video. Each education contained the same information. The slide presentation and the video were uploaded into TLC.
- The PowerPoint and video were randomly assigned to the emergency room nurses using The Learning Curve.
- One month following the education a quiz was handed out in person and through email. Nurses were asked which educational method was utilized. The quiz was the same for both methods.

Results

- Average Post-education Quiz Scores
 PowerPoint: 68.82% Video: 68.31%
- While the average scores are very close and seem to show little difference in nurse retention, the nurses that were given the video education had higher instances of scoring above 70%
 - 12 Video RNs, 8 PowerPoint RNs
- Limitations:
 - Time between education and quiz was <1 month and not equal for all
 - Not all computers used could play the videos properly
- Future Considerations (Lessons Learned):
 - Easier access to video education opportunities
 - A motivation aspect for the learning topics



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