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Comparing Education Methodology in the Emergency Department.

Nicole J. Bensel BSN, RN Lehigh Valley Health Network, Nicole_J.Bensel@lvhn.org

Karen N. Brunner BSN, RN Lehigh Valley Health Network, Karen_N.Brunner@lvhn.org

Michelle J. Henne BSN Lehigh Valley Health Network, Michelle_J.Henne@lvhn.org

Ashley D. Roman BSN, RN Lehigh Valley Health Network

Amanda M. Tarantino BSN, RN Lehigh Valley Health Network, Amanda_M.Tarantino@lvhn.org

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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

Comparing Education Methodology in the Emergency Department

Nicole Bensel BSN, RN; Karen Brunner BSN, RN; Michelle Henne BSN, RN; Ashley Romano BSN, RN; Amanda Tarantino BSN, RN

Lehigh Valley Health Network, Allentown, Pennsylvania

Evidence

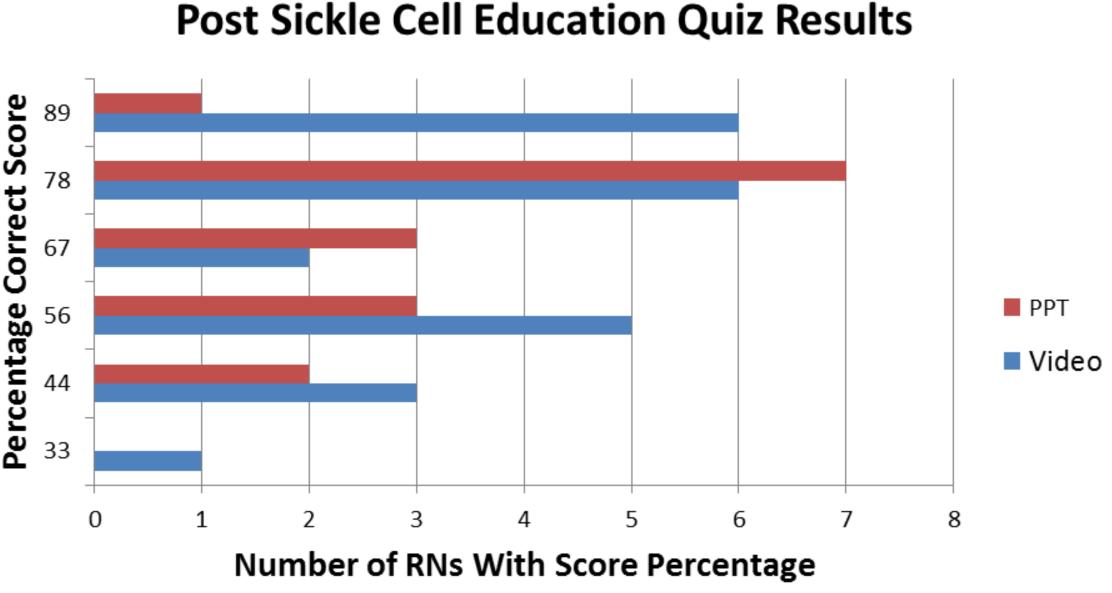
- "PowerPoint presentations rank among the most dreaded presentation platforms" (Spiva et. al 2012)
- Using videos helps to engage viewers and promote critical thinking and decision making (Spiva et. al 2012)
- 4 essential e-learning designs needed to engage the learner (Spiva et. al 2012)
 - Structure, 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.

- PowerPoint: 68.82%
- instances of scoring above 70%
- Limitations:

 - and not equal for all
 - properly



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Results

 Average Post-education Quiz Scores 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 12 Video RNs, 8 PowerPoint RNs

 Time between education and quiz was <1 month Not all computers used could play the videos

• Future Considerations (Lessons Learned): Easier access to video education opportunities A motivation aspect for the learning topics

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