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Promoting Comfort During CT-Coronary Angiogram

Margo Archer, RN1, Dawn Arevalo, BSN, RN, CPAN1, Kelly Vazquez, RN, CMS, ONC1

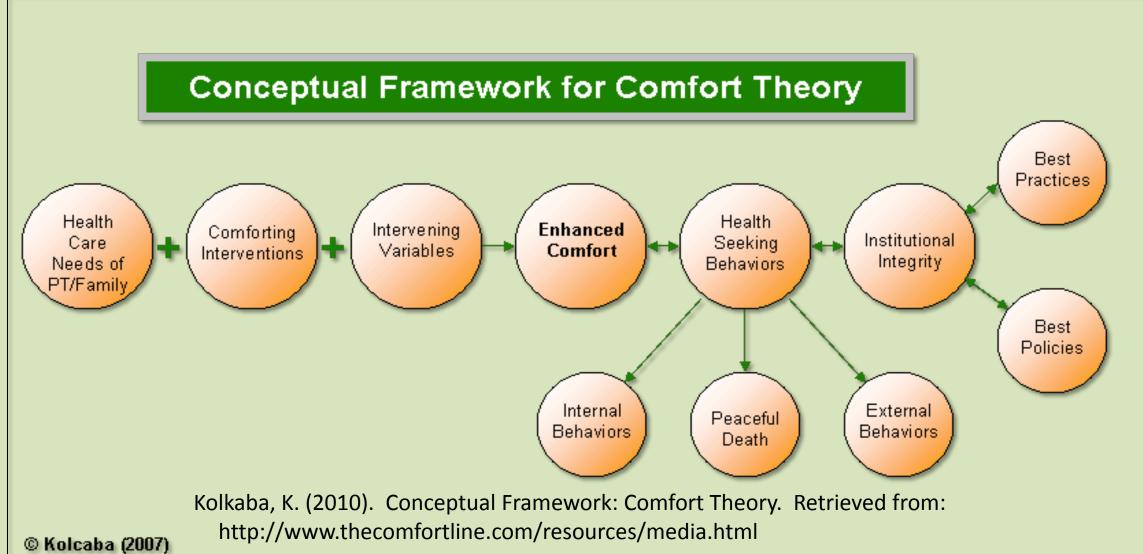


¹Homestead Hospital

Introduction /Background

- CT coronary angiogram (CTA) is a non-invasive scan visualizing the coronary arteries.
- Though CTA is a painless procedure, patients were exhibiting anxiety related to the procedure and as a result experience an increase in their heart rate.
- Beta-blocker (Lopressor) pharmacological agents, are frequently administered to decrease patients' heart rate allowing for a more defined image.
- Using Kolcaba's Comfort Theory to guide our approach and the Clinical Evidence Through Evidence-based Practice model to guide our process, we sought to reduce patients' fear and anxiety during CTA procedures through the use of non-pharmacological comfort nurse-driven measures.







Define Clinical Practice Question

 Will the use of non-pharmacological comfort strategies, the need for beta-blocker administration among patients undergoing CTA procedures at Homestead Hospital when compared to those who did not receive non-pharmacological comfort measures?

Assess

- We examined the research evidence regarding the use of nonpharmacological comfort measures during CTA and during magnetic resonance imaging and found evidence supporting the effectiveness of music (Munn & Jordan, 2014; Nilsson, 2012; Nilsson, Lindell, Eriksson & Kellerth, 2009; Weeks & Nilsson, 2011).
- To address patient preferences, it was determined that other forms of non-pharmacological comfort measures, perhaps less well-studied should be included in our intervention.

Plan

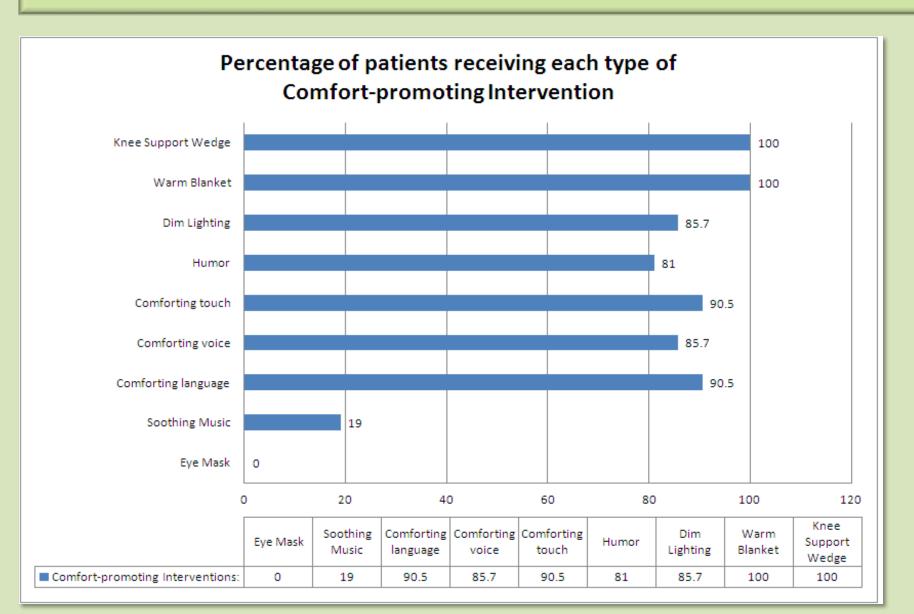
- The Resource Unit Practice Council planned the implementation of this evidence-based practice project.
- The target group was identified as patients: age 18 70 years, TIMI score < 3, ability to hold breath > 20 seconds, normal sinus rhythm (no PVC or PAC's), BMI < 50. Exclusion criteria were: significant hearing loss, uncontrolled psychiatric illness, and severe dementia.
- In order to assess the effectiveness of the non-pharmacological comfort measures, nurses caring for patients were also instructed to observe and record the objective signs of anxiety, nervousness, fear, pain, or sadness throughout each procedure.
- The amount of beta-blocker administered would also be tracked.

Implement

- Data was collected on twenty adult patients undergoing CTA between September 2013 and June 2014, before and after the implementation of the use of non-pharmacological comfort measures.
- Patients were offered their choice of non-pharmacological comfort measures during the CTA experience, participation was voluntary.

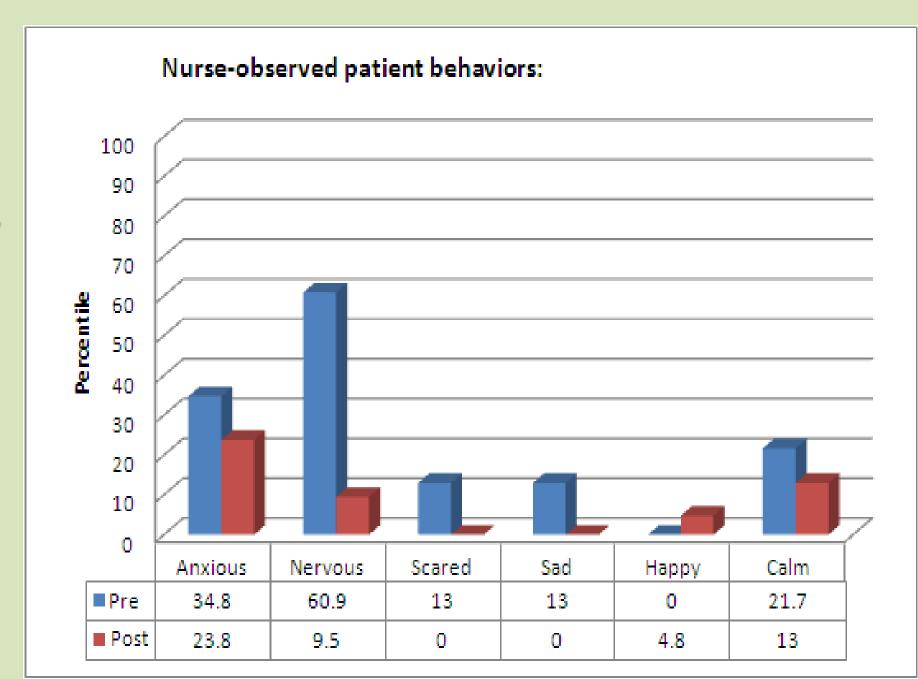


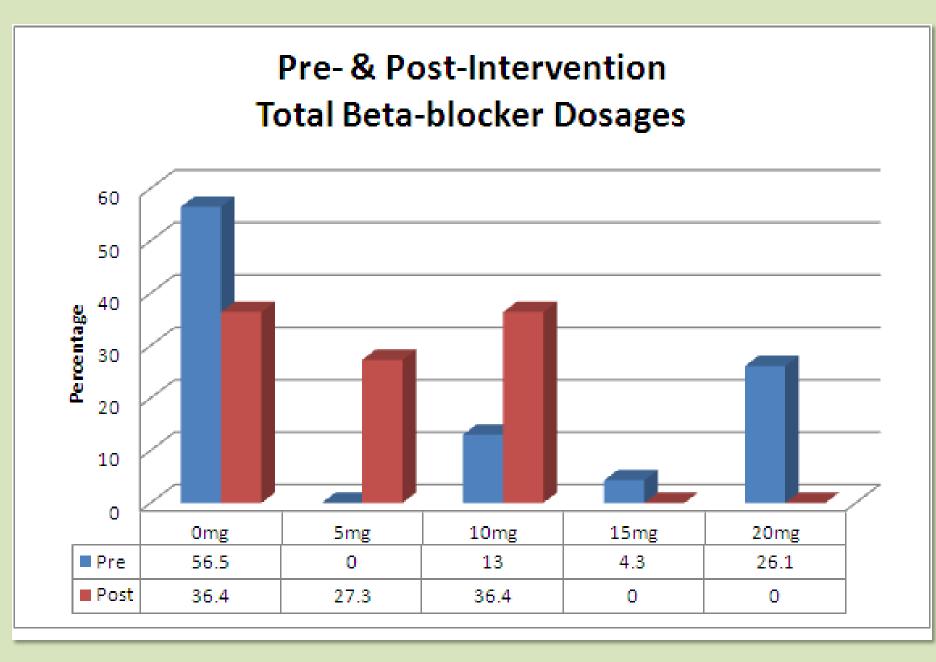
Evaluate



This use of nonpharmacological
measures for patients
undergoing CTA
illustrates nursing
autonomy and their
influence in shaping
the patient care
environment.

Patients displayed fewer signs of anxiety & appeared more comfortable after the implementation of non-pharmacological nurse-driven comfort measures.





Rendering comfort interventions decreased patients' level of anxiety as evidenced by a need for lower doses of betablockers during CTA.

References

■Munn, Z., & Jordan, Z. (2014). The effectiveness of non-pharmacologic interventions to reduce anxiety and increase patient satisfaction and comfort during nuclear medicine imaging. *Journal of Medical Imaging and Radiation Sciences*, 45(1), 47-54.

■Nilsson U. Effectiveness of music interventions for women with high anxiety during coronary angiographic procedures: a randomized controlled. European Journal of Cardiovascular Nursing, 11(2), 150-153. doi: 10.1016/j.ejcnurse.2010.10.006.

■Nilsson, U., Lindell, L., Eriksson, A., Kellerth, T. (2009). The effect of music intervention in relation to gender during coronary angiographic procedures: a randomized clinical trial. *European Journal of Cardiovascular Nursing*, 8(3), 200-206. doi: 10.1016/j.ejcnurse.2009.01.001.

■Weeks, B.P., Nilsson, U. (2011). Music interventions in patients during coronary angiographic procedures: a randomized controlled study of the effect on patients' anxiety and well-being. European Journal of Cardiovascular Nursing, 10(2), 88-93. doi: 10.1016/j.ejcnurse.2010.07.002.

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