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Cervical Collar Awareness and Safety through RN initiated Patient Education

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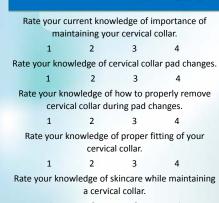
BACKGROUND / INTRODUCTION

- Unsafe cervical collar placement and daily care observed on patients admitted onto TTU. Safety issues: importance of neck stabilization (Aceron, 2005) (Ivancic, 2013) and area of high risk for skin breakdown (Jacobson, et al., 2008)
- New cervical collar teaching video released for staff to watch and implement on unit to improve patient's safety and daily care.

HYPOTHESIS

Do awake, alert, and oriented patients 18 years of age or older, who are admitted to TTU in which hard cervical collars are a necessary part of treatment and are being discharged to home, report having a knowledge increase of cervical collar placement and daily care after viewing the cervical collar educational video compared to their reported knowledge prior to viewing the cervical collar educational video?

METHODS



1 No knowledge
2 Some Knowledge
3 Knowledgeable
4 Very

Cervical Collar Survey Responses 4 3.5 3 2.5 1.5 1 0.5 0 Maintaining Pad Changes Removal Proper Fittting Skin Care Mean Pre-Survey Knowlegde Mean Post-Survey Knowledge

	Pre-Survey	Post-Survey	\bar{d}	S_d
Maintaining	,1,1,1,2,2,2, 2,2,2,2,2,2,3		-1.954545	0.652998
Pad Changes	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	4,4,4,4,4,4	-2.000000	0.308607
Removal	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,2,2,2,2,2,3,3		-2.136364	0.560226
Proper Fitting	,1,1,1,1,1,1, 1,1,1,1,1,1,1		-2.136364	0.639602
Skin Care	,1,1,1,1,1,1, 1,1,1,1,1,1,2		-2.545455	0.800433

RESULTS

- Paired T-Test performed for each categorical response, with α = 0.05
- H_0 : $\mu_d = 0$

 $=\frac{\bar{d}-\mu_0}{S_d\sqrt{n}}$

- H_A: μ^{*}_d ≠ 0
 From the da
- From the data collection and analysis, patients showed a statistically significant knowledge increase in all categories after seeing the cervical collar teaching video compared to their knowledge before viewing the video (at a 5% significance level, 95% CI of µ_D).

CONCLUSIONS

- As a result of this study, significant data suggests the cervical collar teaching video is effective at increasing patient's knowledge regarding maintenance, pad changes, proper removal, proper fitting, and necessary skin care.
- Although evidence suggests a combination of video, conversation, hands-on demonstration, and etcetera allows for best retention of education (Helding, 2009), the cervical collar teaching video can be used as an effective education tool for patients and staff to improve patient safety, encourage patients' to act as self advocates, and protect patients' from skin breakdown.
- By doing so, hospital stays may be shorter and less costly, and quality of patients' care may improve.

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