ECG Memento^o – An Innovative Approach to Adult Bereavement Care

A Pilot Study

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BACKGROUND

- 20% of Americans take their last breath in the intensive care unit (ICU). Prior to the 20th century, people used to die at home. Patient/family members prepared for death, said good-bye, completed end-of-life closure tasks and created memories.
- Most of the bereavement interventions for families come from the pediatric world. The concepts of Continuing Bonds, Object Linking and Attachment Theory have been used to aid the mourning process. Yet, there is no clinical-based research to support many of these interventions.
- This study addresses the gap in adult bereavement care trialing a novel intervention to improve end-of-life care for dving patients.

STUDY PURPOSE

 Determine effectiveness of the ECG Memento[®] as a transitional object for families, who have experienced the loss of a loved one in the Intensive or Intermediate Care — as they transition from anticipatory to bereaved status and evaluate it's effect on nurses' satisfaction with the expression of the grief process and the integration of the ECG Memento® as part of the bereavement care.

STUDY AIMS

- Evaluate integration of ECG Memento® as an tool to aid families in the bereavement process. • Examine the effect of ECG Memento® as a transitional object on the continuing bonds on the
- bereavement experience of the family.
- \bullet Examine the impact of ECG Memento $^{\circ}$ on staff and family satisfaction.

SECONDARY

- Examine the role of the RN and their experience /satisfaction facilitating the use of the ECG Memento® as a mediating object to facilitate and meet the emotional and psychosocial needs of families experiencing the death of a loved one.
- Examine the role staff nurse explanatory variables (demographic; experience with death and dying) that may influence the death experience.

METHODOLOGY

- Prospective, descriptive study used a posttest survey design, to evaluate and describe the effect of the ECG Memento[®] on the anticipated bereavement process among families, in the critical care/intermediate cardiac monitoring units who anticipate the loss of a loved one or have lost a loved one in the units.
- Convenience sample (N=50) of ICU patients, who were actively dving with a Do Not Resuscitate (DNR) or Comfort Care order/ recently deceased patients were study eligible.

ECG Memento® (3"ECG Strip) Laminated/Mounted inside a Note Card Signed by Nursing Staff



MEASUREMENT

- 1. Investigator Developed Demographic Log
- . Satisfaction with Bereavement Experiences Questionnaire (SBEQ)
- 3. Quality of Dying and Death in the Intensive Care Unit-Survey for Nurses (OODD)
- 4. Charlson Comorbidity Index Score (CCI)

Characteristics of patient who died:	N=50
Male, %	56.0%
Age, mean (SD)	72.0 years (11.0), range 45-89 yrs.
Religious affiliation, %:	
Catholic	44.0%
Protestant	42.0%
Other	4.0%
None, Not Religious	10.0%
Race, %:	
African-American	12.0%
Asian/Pacific Islander	16.0%
Caucasian	48.0%
Hispanic	18.0%
Other	6.0%
Hospital days, mean (SD), median [IQR]	13.3 d (12.6), 8 d [4-16]
>7 days in hospital, %	54.0%
ICU days, mean (SD), median [IQR]	9.5 d (9.5), 7 d [3-13]
>3 days in ICU, %	70.0%
CCI age adjusted, mean (SD)	9.4 (4.0), range: 2-17

SBEQ - Subscale score

STUDY RESULTS

Characteristics:	N=28
Female, %	89.3%
Age:	
<40 years	10.7%
40-49 years	21.4%
50-59 years	21.4%
60-69 years	32.1%
70-79 years	14.4%
Race:	
African-American	7.1%
Asian/Pacific Islander	17.9%
Caucasian	50.0%
Hispanic	17.9%
Other	7.1%
College graduate, %	42.9%
Children, Yes %	82.1%
Number of children, mean (SD)	1.8 (1.2)
Perform acts of prayer daily, %	57.1%
Death of family member/friend unexpected	50.0%
Person who died was:	
Parent (or parent-in-law)	46.4%
Spouse/Partner	46.4%
Sibling	7.1%

	9.5 d (9.5), 7 d (3-13) 70.0% 9.4 (4.0), range: 2-17		Person who died was:				
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			Spouse/Partner Sibling				
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s:	action with Bereave	ement Exp	erience Questi Mean (SD)	ionnaire (SBEQ) Median (IQR)			
s:	ery dissatisfied]						
s: =v	ery dissatisfied]	N	Mean (SD)	Median (IQR)			

24 1.9 (1.0) 1.6 [1.0-2.8]

- Families reported the ECG Memento® (25%) extremely helpful; (35.7%) very helpful; (14.3%) somewhat helpful; and (25%) found it slightly or not at all helpful.
- (39.3%) viewed it daily and found comfort; (10.7%) viewed ECG
- 2-3 days week; (14.3%) viewed ECG 1-day/wk; and (21%) rarely; (14.3%) never viewed the ECG.

	d those who responded "Don't Know," missing):	N	% Nurses* Score=10	Mean (SD)	Median (IQR
1.	Having control of his/her pain	25	8.0%	7.6 (2.0)	8 (7-9)
2.	Having control over what was going on around him/her	21	28.6%	7.2 (2.7)	7 (5-10)
3.	Breathing comfortably	34	17.6%	7.4 (2.7)	8 (6-9)
4.	Keeping his/her dignity and self-respect	35	48.6%	8.7 (2.1)	9 (8-10)
5.	Spending time with his/her spouse or partner	25	52.0%	8.8 (1.9)	10 (9-10)
6.	Spending time with his/her children	29	58.6%	9.0 (2.1)	10 (9-10)
7.	Spending time with other family and friends	32	59.4%	9.3 (1.2)	10 (9-10)
8.	Being touched or hugged by loved ones	33	60.6%	9.1 (1.3)	10 (8-10)
9.	Having one or more visits from a religious or spiritual advisor	21	52.4%	9.1(1.5)	10 (9-10)
10.	Having a spiritual service or ceremony	14	57.1%	9.0 (1.5)	10 (8-10)

DESCRIPTION OF NURSE'S CHARACTERISTICS OF QUALITY OF DYING

38.9% 8.5 (1.5) 8.9 (7.7-9.6) 84.8 (15.4) 88.6 (76.9-96.3)

- Total of 38 RNs completed the QODD, yet only 27 had complete data; 16.1 years (range of 1-35 yrs) as RN; and 11.3 yrs ICU experience (range 0-34 yrs); 63% Baccalaureate; 7.4% Masters
- (40.7%) report no training on End of Life (EOL) topics; (40.7%) had FLNEC training/other FOL
- (100%) 33/33 RNs felt the ECG Memento was very well received by families/significant others

CONCLUSIONS

- The ECG Memento® provides a tangible

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