





Background

- > Pain hastens death through physiological means.
- > Pain contributes to the development of delirium.
- Evidence is lacking related to pain screening in delirious patients

(Ferrell at al, 2015; Coyle at al., 1994; Morrison et al., 2013; Pasero et al., 2003)

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Toll of Delirium

- 15% to 30% of elderly patients will have delirium on admission to hospital and up to 56% will develop delirium during their stay
- Delirium Mortality in 1 year is 35-40%
- > Delirium affects up to 60-80% mechanically ventilated patients
- > US hospitals spend over \$8 billion annually on delirium
- > 30% of patients with delirium STILL HAVE SYMPTOMS 6 months later

(Wass et al. 2008, Inouye, 2006)

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Toll of Pain

- > 100,000,000 Americans suffer from chronic pain
- > Cost for the U.S. (in 2010) between \$560 \$635 billion annually
- > 50 75% of patients die in moderate to severe pain
- > Pain disrupts circadian rhythm

(The American Academy of Pain Medicine, 2016)

Pain in the Cognitively Impaired

- Physical suffering or discomfort caused by illness or injury
- Cognitively impaired patients have an inability to appropriately communicate their discomfort levels
- Often pain is difficult to characterize secondary to memory, language, and speech deficits and consciousness alterations

(Buffman, Hutt, Chang, Craine, & Snow, 2007)





Pain Assessed

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Pain is assessed and reassessed in non-verbal, pre-verbal patients or in patients with cognitive or hearing impairment using behavioral or physiologic signs and symptoms as appropriate at rest and with activity.





Critical Care Pain Observation Tool

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- Facial Expression
- Body Movement
- Vocalization
- Muscle Tension











Procedures

- > Baseline screening for pain by 2 providers.
- > If pain screen (+) intervention provided.

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- All patients screened again 30 minutes after baseline assessments.
- > Data recorded entered into SPSS version 21 for analysis

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	Ca	ies	Con	trols			
	M (SD)	n (%)	M (SD)	n (%)			
Age	85.3 (9.3)		83.2 (10.7)		.38		
Length of Stay, Days	4.7 (5.0)		4.3 (4.5)		.72		
Gender					.06		
Male		22 (52.4)		10 (30.3)			
Female		20 (47.6)		23 (69.7)			
Actively Infected		17 (41.5)		17 (51.5)	.39		
Sedating Meds		8 (19.5)		3 (9.1)	.21		
History of Dementia		26 (72.2)		20 (60.6)	.31		
History of Pain		26 (61.9)		14 (42.4)	.09		
Required Anesthesia		6 (14.3)		6 (18.2)	.65		
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	Scale Psychometrics						
	"Did the scales	show satisfac	tory internal co	onsistency & reli	ability?"		
		Pain	-AD	СР	от		
		Baseline	30-Minute Follow-Up	Baseline	30-Minute Follow-Up		
	Cronbach's Alpha	.8182	.86	.8083	.8687		
	Inter-rater Reliability (ICC two-way, random)	.99	.99	.99	.99		
	30-minute Test Retest Reliability	.4956 .4246					
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