

The Problem • Delirium is a serious and common medical condition affecting hospitalized patients. • Delirious patients often display agitated behavior. • Agitated behaviors can be detrimental to patients and increase healthcare costs. Hartford Hospital

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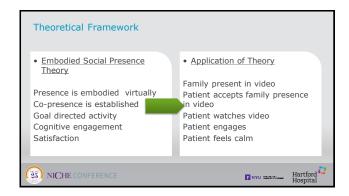
The Purpose • The purpose of this study is to examine the effect of a family video message on the agitation level of hospitalized, delirious, acutely agitated patients Video messaging = simulated family presence= pre-recorded video message one minute in length featuring family offering verbal reassurance and familiar information to their loved one • Shown to patient on a lap top computer at the bedside during an episode of agitated delirium 25 NICHE CONFERENCE NYU SSSSSizes



Research Questions • Is there a significant difference in agitation levels in hospitalized patients experiencing hyperactive or mixed delirium before, during, immediately after and 30 minutes after viewing a personalized family video, a nature video or usual care? • What are the patient and family responses to the videos? 25 NICHE CONFERENCE

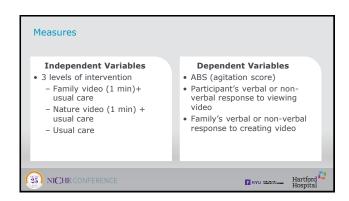
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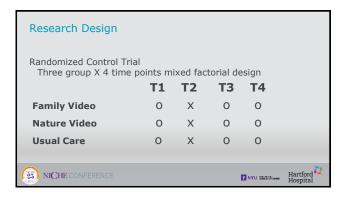
Review of the Literature/Background • Delirium treated with medications and/or physical restraints often leads to **complications** like falls, aspiration, and functional decline. • Non-pharmacological interventions and family involvement are evidence based strategies to improve outcomes for persons with delirium. • Simulated family presence with video is effective in decreasing agitation in persons with dementia in long term care • Pilot work has shown a decrease in agitation in hospitalized delirious patients with family intervention and simulated family presence via video. 25 NICHE CONFERENCE NYU SSSSSizes



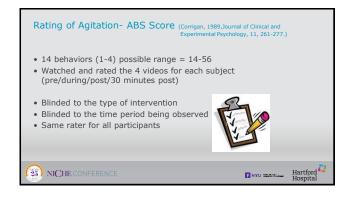
Setting 850 bed inner city level one trauma center hospital Patients located on any inpatient unit (medical/surgical/ICU/step down) BY NICHECONFERENCE Hartford Hospital

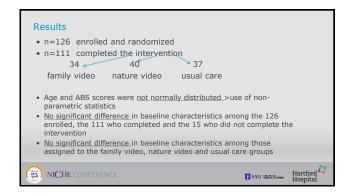
Sample • Target population: All hospitalized patients experiencing hyperactive or mixed delirium • Accessible population: All hospitalized patients assigned to continuous observation for behavioral reasons (suicide excluded) n=422 • Eligible participants: age 18+; CAM+; RASS>0; English speaking family member willing to visit; free of severe hearing or vision loss; not experiencing substance withdrawal, exacerbation of a psychiatric disorder or terminal illness n=136 • Consecutive sampling 7/1/15- 3/2/16 Total enrolled = 126 • Block randomization to one of the 3 interventions • Family video n=42 Nature video n=42 Usual care n=42 (Inouye et al, 1990, Annals of Intermal Medicine; Sessier et al, 2002, American Journal of Respiratory Critical care Medicine) NICHE CONFERENCE

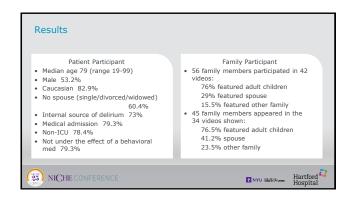










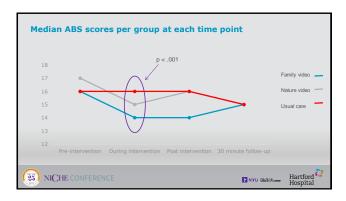


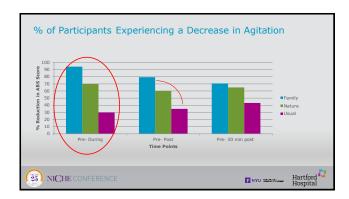
Analysis Multiple non-parametric tests needed to be run on the same data to answer the research questions Friedman Test: within group differences (ABS) Kruskal-Wallis: among group differences (ABS) Wilcoxon Ranked Sum: between group differences (ABS) Pearson Chi-Square: between and among group differences (proportion/percentage) Bonferroni correction was applied to keep the overall alpha at .05 while setting the alpha to .0125 for each individual test.

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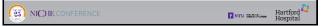
Findings • The family video and nature video groups displayed a significant change in agitation scores over the 4 time periods (p<.001; p<.001) where the control group did not (p<.042) • There is a significant difference among the 3 groups during the intervention period with the family video group displaying the lowest agitation scores (p<.001) ■ NICHE CONFERENCE





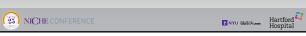
Additional Findings:

- The majority of the participants displayed a positive or neutral response to both the family and nature video.
- The family members were generally open to creating the family video. The majority (86%) of the family videos in this study were rated as having positive content



Conclusions

- Hyperactive delirious patients can acknowledge and attend to a video.
- Patients in the video groups showed significant decrease in agitation over the 30 minute time period.
- Patients shown a video had lower agitation scores during the intervention period than the control group
- Patients shown the family video showed significantly greater decrease in agitation during and immediately following the intervention than those shown the nature video
- The significant effect of the videos was not present at 30 minutes



Practice Implications Implement Simulated Family Presence in hospitals to decrease agitation in patients with hyperactive or mixed delirium Consider the use of a nature video as an alternative intervention if creating a family video is not possible RICHECONFERENCE

• Can videos be used to prevent delirium in high risk patients? • Does the intermittent showing of a one minute video (every 15 minutes while awake) decrease and sustain decreased agitation levels in hospitalized delirious patients? • What is the effect of making and using a family video on the stress level of the family? | INTU MARKET | Hartford | Hospital | Hartford

