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- Partnered with the National Database of Nursing Quality Indicators (NDNQI[®]) and the University of Utah with 326 other hospitals
- A national translational research study designed to test strategies to improve the management of pain in



hospitalized patients. Two Phases of Data Collection April 2011 and December 2011: All inpatient Adult Medical Surgical Units and Mom/Baby

 One unit chosen for Phase II Intervention: Medical Surgical Oncology Unit (Red Unit)



Setting:

- Denver Health Medical Center
- Rocky Mountain Regional Trauma Center
- 525 beds urban public safety net hospital
- . 42% of Denver Health clients are uninsured
- In 2011, \$460 million of uncompensated care was provided to patients who could not pay for their care

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Methods:

Project consisted of two phases:

Phase I: units

- Adult Medical
 Adult Surgical
 Adult Medical-Surgical
 Adult Step Down
 Adult Rehab
 Obstetric/Post Partum
- Pain Quality Indicator survey provided by a NDNQI^{\otimes} was used to evaluate baseline data
- Data was analyzed by NDNQI $^{\odot}$ and included aggregate responses at the unit level including percentiles, median, mean, standard deviation, and number of units

Included April 2011 survey of patients on nine acute care

- A Medical-Surgical oncology unit was chosen by NDNQI $^{\odot}$
- Team leader was interviewed to gather information regarding unit understanding of quality improvement and perception of pain management



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- Nursing Educati
 Pain Order Set
 Pet Therapy
- Nurse Team Leader was interviewed after Phase II
- Re-surveyed in December 2011 of same units





Interventions:

Education included:

- Pain assessment principle's:
- Accept patients complaint of pain
- complaint of pa
- History of pain
- Assessment of nonverbal patients
- Patient centered goals





Education done Sept 2011





Interventions:

Pet Therapy

 Pain scores before and after
 Patient comments
 Observation





Education dor Sept 2011 First visit 9/12/2011

Patient survey (NDNOI®)

- Patient survey (NDNQ1*)
- Nurse pre and post education
- Order Set

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- Pet Therapy
- Focusing on control unit
- Interventions were over a 3 month period:
 September 2011 through November 2011
- Unclear on what intervention affected results
- Statistical difference vs. clinical difference







Benchmark Comparison: • Pre – significantly higher prior to intervention • Post – slightly below













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Survey consisted of:	b. And succession of a sector and the sector and the		
Test Questions			
Multiple Choice	quantity in Annu and provide start as the Annual		
True/False	E state of an information of the late of the		
Yes/No Opinions	 Next and generalizes of the second additioned A result and provide on grades of herein additioned A three hard to be and and and the second additioned to a three hard to be an additioned or additioned to additioned additioned on additioned and the second additioned additioned additioned on additioned additioned additioned additioned additioned additioned additioned additioned additioned additioned additioned additioned additioned additioned additioned addit		
# of Nurses Surveyed:	 Note the state B. divide top could be income the state 		
• Pre - N=24	A. Program (Pine Trac Trac 1) A. Program (Pine Trac 1)		
• Post - N= 23		 representation and an annual sector of the se	
Red denotes correct answer	A Product operation		
Staff Description of beliefs about gender and pain distre	55	Pre	Post
	Men have greater distress related to their pain than do women.		13.0%
	Women have greater distress related to their pain than do men		13.0%
There are generally no differences in pain distress betw	ween men and women	70.8%	73.9%
Staff perception of how gender influences willingness	to report pain	Pre	Post
Men tend to be stoic and under-report their pain more	Men tend to be stoic and under-report their pain more so than women		27.3%
Women tend to be stoic and under-report their pain more so than men		8.3%	9.1%
Neither of the above		75.0%	63.7%





Pain Order Set Comments:

- Total 197 patients received Pain Order Set from June to December 2011
- Providers:
 - "This does not fit every patient's needs"
 "It's early in the process, so it is sometimes hard to know which to use, but it gives you a lot of choices"
- RN's:
 - "I don't have to call the Dr. as much and my patient gets their pain medicine faster"
 - "It gives me options. If the first medication doesn't work, then I can move to something else right away"
- This needs further analysis





Pet Therapy:

- · Total of 62 patients seen
- Total of 8 days approximately 2 hours per day (once a week for 2 months)
- Pain scores did not significantly change after the visits
- The effects were seen and heard from patients AND staff



Pet Therapy Results:

Sue: "I overheard many nurses ask there patients what they thought of Coppers visit- many of them really enjoyed it and said it helped their pain and made here day brighter- many asked if he was comin back soon."

patient was in hospital for a gtime due to need for IV iotics. Copper accompanied on her daily walk around the . She hield his leash as she ed her IV pole around- She "It was nice to have such a dog to keep her company on walk. She would be in the al for a few weeks and would to vsit with Copper again".



her: Patient use to be a Vet Tech and has not been able to keep that job since she got sick – Copper and 1 were in there tor 40 minutes while she looked in hit ears, teeth – massaged him and brushed him. At one point she got on the ground with him. She states "He helped



Pet Therapy Comments:

We do use the second se

y pleasant young femalee saw Copper from the r-way and yelled out-"A tog- Come here!" She wind us immediately- She d on him saying that he her smile and that made net happy after being mixized after a few days-



A non-English speaking man – comfort care. RN's concerned he would not understand pet therapy because of his language barrier. We walked in and he said in English "DOG" and attempted to get up to visit with Copper. He sat on the edge of the bed and pet Copper not saying a word for 10 minutes. He hugged him good-bye and said "Thank You"







Conclusions / Lessons Learned:

Small Ns for the study

- Need more frequent data collection
- Target data collection to specific interventions with pointed objectives

Patients in severe pain (constantly) decreased, relief from pain medication increased, average pain score of 10 in last 24 hours decreased

Pain Order Set in early stage, positive direction so far Continuing education for Patients, RNs, and Providers •

Pet Therapy has benefits for both patients and staff

Future Direction

· Access to the Pain Toolkit

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- RPE for Pain Management at Denver Health
- Upgrading Physician Ordering System
- Planning video for the inpatient channel • Include in care planning conversation with the patient

 - Realistic patient goals
 Should we use the 1-10 scale?
 Discuss options with the patient
- Continue to utilize Pet Therapy • Future projects/data collection/further research

