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[]MM College of Nursing

The Ones who Can't Complain: Recognizing and Alleviating Pain in Persons with Dementia

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BEHAVIORS ASSOCIATED WITH DEMENTIA

- Dementia-Biological Model
- Behavioral Models
- Environmental Vulnerability Models
- ▶ Unmet Needs Models



FIGURE 1 C-NDB MODEL

Consequences of Need-Driven Dementia-Compromised Behaviors

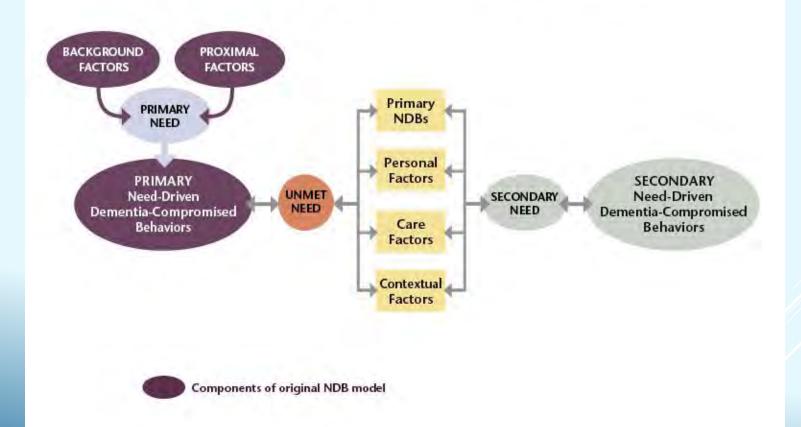


TABLE 1A The Cascade Effect

PROXIMAL/ BACKGROUND FACTOR	PRIMARY NEED	PRIMARY NDB	OUTCOME	SECONDARY NEED	SECONDARY NDB
THIRST	FLUIDS	Repetitive movement	Constipation & abdominal discomfort	Increased fiber & stool softener	Aggression



EXAMPLE 3 Cascading Effects

PROXIMAL/ BACKGROUND FACTOR	PRIMARY NEED	PRIMARY NDB	ОИТСОМЕ	SECONDARY NEED	SECONDARY NDB
UNSTIMULATING	THERAPEUTIC	Pacing	Loneliness	Increased socialization	Withdrawal
DAILY SCHEDOLE	PAILY SCHEDULE ACTIVITY		Depression	Antidepressant and/or counseling	



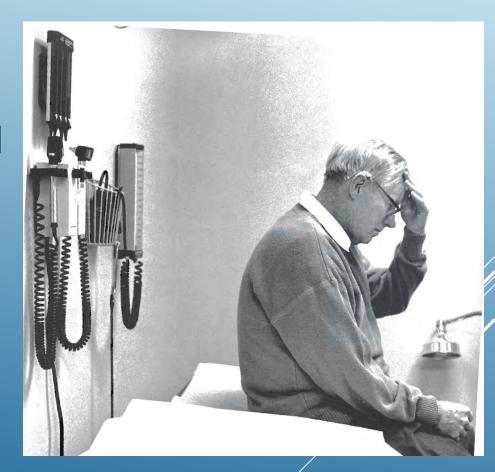
EXAMPLE 2 Cascading Effects

PROXIMAL/ BACKGROUND FACTOR	PRIMARY NEED	PRIMARY NDB	оитсоме	SECONDARY NEED	SECONDARY NDB
CIRCADIAN RHYTHM DISTURBANCE	PACE ACTIVITY & REST, LIGHT & DARKNESS throughout the day	Sundowning with calling out	Social ostracism	Increased socialization	Repeated apprehensive queries



BACKGROUND RESEARCH ON DEMENTIA

- Pain inadequately assessed
- Pain under treated
- Early and some moderate
 dementia can still accurately report pain symptoms.





DECREASED REPORT OF PAIN

- Decreased ability to cognitively process painful sensations-to experience pain as threatening
- Emotional component of pain may be diminished but that the actual physical sensation of pain is not altered

IMPLICATIONS

- Self-report scales will not accurately assess both components of pain
- Both self-report and observational scales be used to target both the sensory and affective aspects of pain



COMMON PAIN BEHAVIORS

- Facial: grimacing, frightened, sad
- Vocalization: groaning, calling out
- Body: Rigid, tense, restless, guarding, resistiveness
- Activity: withdrawal, poor sleep, poor appetite, exiting behavior, crying, distressed

97-YEAR OLD NON-COMMUNICATIVE PWD YELLING OUT WITH MOVEMENT

- full ROM lower extremities, denies pain repeatedly
- bilateral knee pain controlled with scheduled Vicodin
- Hx anxiety, scheduled lorazepam
- "help me," "No, No No" or "ooh, ooh ooh,"
- resistive to care and looked frightened when approached

Interpretation: anxiety





- Give care slowly
- Explain actions and the reason for the care
- Positive feedback every time she was
 - "cooperative with cares"
- Reassured that "she will be all right and not fall" when transferred
- Day 13: when asked about pain, responded "yes" and touched her upper left leg
- Day 21: Vicodin and lorazepam 1 h before am care
- Day 22: right leg touched → she yells out
- Day 23: X-ray left intertrochanteric FX



91-YEAR-OLD PLEASANT, PERSISTENTLY SMILING

- Verbally communicates her back pain regularly
- Well controlled scheduled acetaminophen, prn tramadol
- Day 8: c/o hemorrhoid pain → med and cushion
- Day 11: clear change in condition, smile, withdrawn, refused meals, spit out meds
- Day 12, 13: "spitting out yellow phlegm." VS normal, afebrile, lungs clear, no cough
- Day 14: fell
- Day 15: restless, spitting up larger amounts of "yellow phlegm."





- Day 16, 17: smiling while grabbing staff Clothing and jabbing them
- Day 18, c/o fatigue, refused to open mouth, no c/o pain
 - nurse looked into her mouth, multiple "pus pockets"
 - Started on antibiotic \rightarrow daughter orders hospice, all meds stopped
- Day 22: dentist DX acute abscess
 - antibiotic and opioid injections,
 - clonazepam orally disintegrating tablets and viscous lidocaine for the jawline
- Day 23: Much weaker
- Day 25: Died



PHYSICAL PROBLEMS OVER 6 WEEKS (149 PROBLEMS IN 61 PARTICIPANTS)

DDADLEM	f	%
PROBLEM		
Musculoskeletal	35	23
Skin	17	11
Neurological:	17	11
Gastrointestinal	17	11
Genitourinary	16	10
Respiratory	15	10
Other	12	8
Eye, Ear, Nose and Throat:	11	7
Cardiovascular	9	6



FREQUENCY OF BEHAVIORS ACCOMPANYING NEW INFECTIONS AND OTHER NEW PHYSICAL PROBLEMS N = 134 NEW PROBLEMS *

New Problem	R	esistive	"Soi	Telp Me" mething is Vrong"		essed Facial epression	Res	stlessness
	f	%	f	%	f	%	f	%
Infection n = 36	17	47	14	39	9	25	7	19
Other Physical n = 98	38	39	15	15	35	36	29	30

^{*}Problems of severe psychosis and unresponsiveness were omitted from this analysis



PREDICTORS OF TIME TO IDENTIFY NEW PROBLEMS

Variable	Estimate	SE	t	CI
Assessment	-0.43	0.09	-4.62*	(-0.62,-0.24)
Ratio of new to standard interventions	-1.35	0.40	-3.38*	(-2.16,-0.54)
Specific physical symptoms	-0.82	0.30	-2.78*	(-1.42,-0.22)
Length of Stay	0.013	0.006	2.40*	(0.002, 0.025)



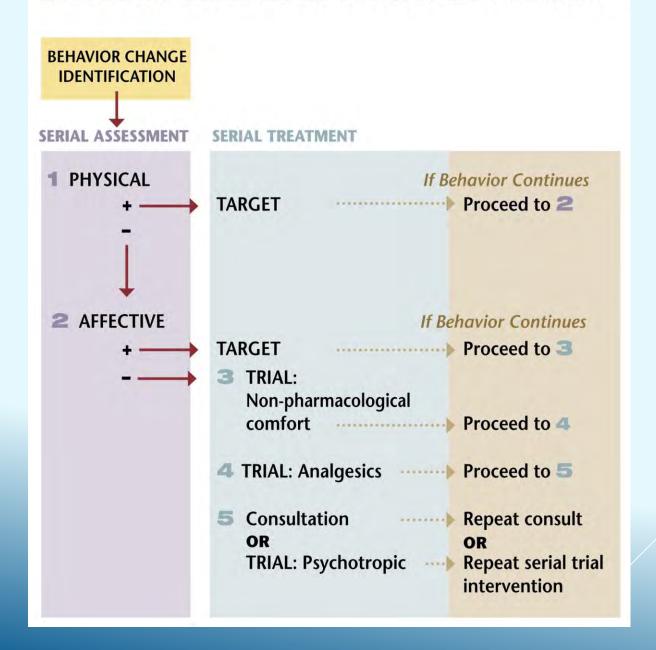
SUMMARY

Staff nurses' skills in assessment of behavior and physical conditions may be key factors in timely identification and treatment of new physical problems

Solution: Serial Trial Intervention



SERIAL TRIAL INTERVENTION





WHY USE THE STI?

Time: 5.7 to 201.5
 minutes (mean = 23.1 minutes) to
 manage
 disruptive
 behavior.





WHY USE THE STI?





WHY USE THE STI?

Satisfaction: Your competence, person's comfort.

4. Primary reason for transfer out of home



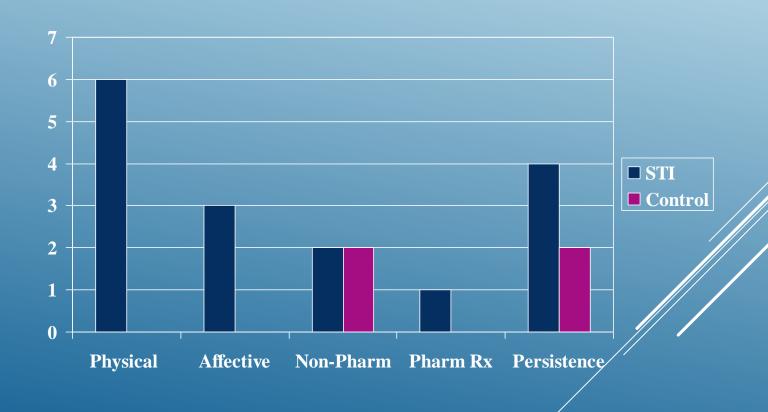


TABLE 1. DESCRIPTION OF BEHAVIOR INITIATING STI (57 SUBJECTS HAD 98 BEHAVIORS)

f	%
23	40.35
16	28.07
15	26.32
9	15.79
8	14.03
7	12.28
5	8.77
3	5.26
3	5.26
2	3.51
2	3.51
2	3.51
1	1.75
1	1.75
1	1.75
	16 15 9 8 7 5 3 3 2 2

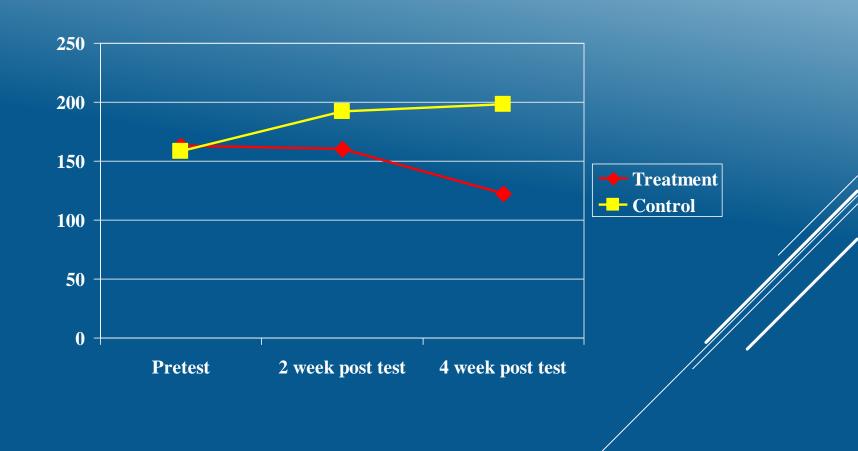


DIFFERENCES IN PROCESS VARIABLES



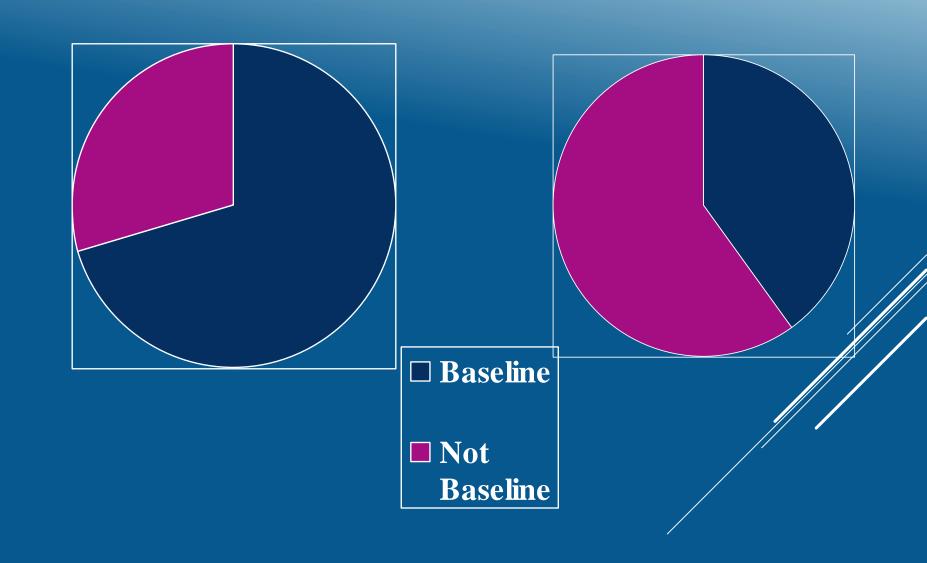


DIFFERENCES IN DISCOMFORT BETWEEN TREATMENT AND CONTROL GROUPS





RETURN OF BEHAVIORS TO BASELINE STI CONTROL





CHRONIC PAIN IS MOST COMMON

- > Arthritis (70%)
- ▶ Old fractures (13%)
- Neuropathies (10%)
- Malignancies (4%)



- Sensory adjectives used by patients: electricshock, burning, tingling, cold, prickling, itching
- Evoked pain: either by a stimulus that does not usually evoke pain (allodynia) or increased response to a stimulus that is normally painful (hyperalgesia)

NEUROPATHIC PAIN ASSESSMENT

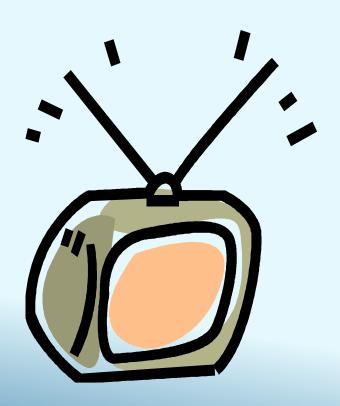


Balancing Activity Controls Excesses





WHY DO WE NEED BACE?



Agitation and resistive behaviors are often caused by environmental factors which can be controlled.

DOES THE PERSON HAVE A BALANCE OF SENSORY STIMULATING AND SENSORY CALMING ACTIVITIES FOR THE DAY?

Are there periods of sustained "up" or "down" activity in the person's day? Most people don't tolerate > 1.5 hours sustained "up" or "down" time.

Subject	Codo:	
Subject	Code.	

AFFECTIVE ASSESSMENT

BACE Assessment Form Worksheet

Sustained Null Activity (↓) is highlighted in yellow. Sustained Mobile Aroused Activity (↑) is highlighted in pink.

	Activity	Social Interaction	Environmental Press: Auditory, Visual, Tactile	Diagnostic Narrative: Activity Pacing, Environmental Press, Socialization
7:30-7:59				
8:00-8:29				
8:30-8:59	-			
9:00-9:29				
9:30-9:59				
10:00-10:29				
10:30-10:59				
11:00-11:29				
11:30-11:59				
12:00-12:29				
12:30-12:59				
1:00-1:29				
1:30-1:59				
2:00-2:29				
2:30-2:59				
3:00-3:29				
3:30-3:59				
1:00-4:29				
1:30-4:59				
5:00-5:29			+	
:30-5:59				
:00-6:29				
:30-6:59				
:00-7:29			=	
30-8:00				

2. DOES THE PERSON HAVE REGULAR MEANINGFUL HUMAN INTERACTION?

Everyone needs meaningful human interaction - it provides feelings of comfort and safety.

If necessary, order 10 minutes of 1:1 time two times/day as a nursing order.



3. HOW STRESSFUL IS THE PERSON'S ENVIRONMENT?

When environmental stressors exceed the person's stress threshold, the result is stress.

This may \(^1\) agitation.





WHAT ARE ENVIRONMENTAL STRESSORS?

<u>Noise</u>

- TV on all day
- > Pounding pill crushers
- Background conversations
- Phones turned too loud
- Echoes in bathrooms or other tiled areas
- Public address systems





WHAT ARE ENVIRONMENTAL STRESSORS?

Tactile

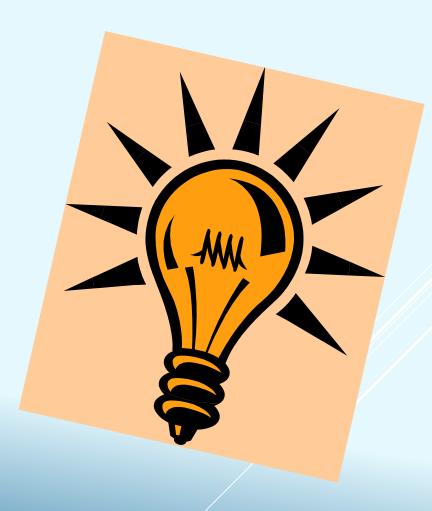
- Itchy skin conditions
- Rough handling
- Room temperature too cold or too warm
- Vinyl furniture
- > Hard, unpadded chairs
- Wrinkled bed linens or clothing
- Poorly fitted shoes or clothing



WHAT ARE ENVIRONMENTAL STRESSORS?

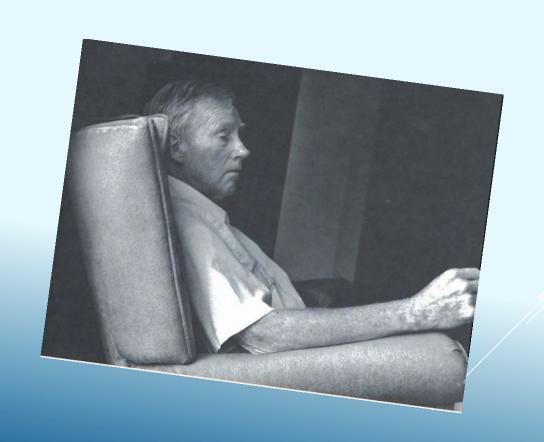
Visual

- Glare from lights
- > Shiny floors
- Clutter
- Spaces that are too big or too small
- Unfamiliarenvironments or people



4. ARE THERE ANY OTHER PSYCHOSOCIAL FACTORS THE NURSE FEELS MAY BE AFFECTING A PERSON'S BEHAVIOR?

UWM





STEP 3 NONPHARMACOLOGICAL TREATMENT TRIAL

Please do this step if the behavior is still occurring, even if the assessment done in step 2 is negative.



- These treatments were found useful by nurses.
- Try 2-3 things in a row (do not move onto step 4 for 30-60 minutes).

NON-PHARMACOLOGICAL TREATMENTS



- Therapeutic Communication
 - Calm approach
 - Use name often
 - Eye contact
- Quiet environment/quiet time
- Relaxation
- Change environment





- Hugging
- Cueing/Redirecting
- Gentle touch
- Massage/warm foot soak
 - Provides distraction,relaxation, and increasessuperficial circulation



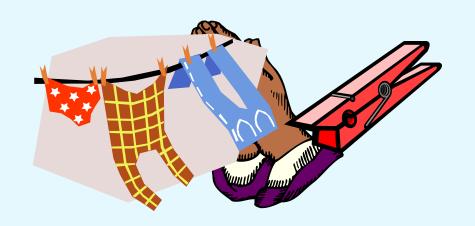


- Repositioning/movement
 - Exercise may improve circulation, reduce joint stiffness
 - Rummage boxes
 - *** No items small enough to choke on secondary to hyperorality ***
 - Handballs
 - Bean bags
 - Ambulating with staff
 - ▶ Up in wheelchair





- Normalization "workbased" activity
 - Folding laundry
 - Cooking
 - Scrubbing vegetables
- Cognitive activities
 - Reminiscence
 - Poetry readings
 - ➤ 1:1 visiting/therapeutic communication
- Spiritual intervention



- Which of these can you do now with the resources you have?
- Which could be done in under one minute?
- Which could be done in ten minutes or less?
- Which could you do if you had a few extra resources?

Cubinat	Cada	
Subject	Code.	

AFFECTIVE ASSESSMENT

BACE Assessment Form Worksheet

Sustained Null Activity (1) is highlighted in yellow. Sustained Mobile Aroused Activity (1) is highlighted in pink.

	Activity	Social Interaction	Environmental Press: Auditory, Visual, Tactile	Diagnostic Narrative: Activity Pacing, Environmental Press, Socialization
7:30-7:59				
8:00-8:29				
8:30-8:59				
9:00-9:29				
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10:00-10:29				
10:30-10:59				
11:00-11:29				
11:30-11:59				
12:00-12:29				
12:30-12:59				
1:00-1:29				
1:30-1:59				
2:00-2:29				
2:30-2:59				
3:00-3:29				
3:30-3:59				
4:00-4:29				
1:30-4:59				
5:00-5:29			*	
:30-5:59				
:00-6:29				
:30-6:59				
:00-7:29				
:30-8:00				



BEGIN A TRIAL OF ANALGESICS...

Start low and go slow



ACETAMINOPHEN (APAP)

- For mild to moderate pain
- Routine dosing up to 2000 3000 mg/day maximum in older adults
- Avoid in hepatic compromise
- With renal disease, useq 6 h dosing rather than q 4h
- Be aware of "hidden" doses of APAP in combination products



NSAIDS

- Indicated for pain from <u>acute</u> <u>inflammatory</u> process (such as gout)
- Effective for mild to moderate pain
- Too many adverse effects





ADJUVANTS

- Anticonvulsants: Gabapentin (Neurontin®), Lamotrigine (Lamictal®), Pregabalin (Lyrica®)
 - Adverse effects: unclear thinking, forgetfulness, and other CNS side effects
- Tricyclic Antidepressants
 - Adverse effects: anticholinergic effects (Desipramine and nortiptyline are preferred over amitriptyline or doxepin), morning grogginess, postural hypotension, can cause blood levels of other drugs to be much higher
- Newer Antiglepiessents, expensive, duloxetine (Cymbalta"), venlafaxine (Lilexa").
 - work better, fewer side effects

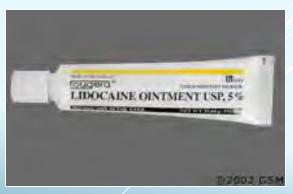


TOPICAL AGENTS

- Local action with minimal systemic side effects
- Indicated for neuropathic pain but can be effective in musculoskeletal pain as well









OPIOIDS

- Addiction-Tolerance-Physical Dependence
- Side effects:
 - Sedation (→ falls, ↓appetite)
 - Nausea, vomiting, dry mouth
 - Constipation
 - Urinary retention
 - Confusion
 - Dysphoria, hallucinations
 - Respiratory depression (rare)



OPIOIDS: USE INFO

- Residents with regular recurring pain should have scheduled dosing rather than prn dosing
- Residents requiring multiple doses of short-acting combination or straight opioids should be switched to long-acting opioids
- Always start on bowel regime



COMBINATION DRUGS

- Acetaminophen With Codeine (constipation, nausea, not that effective)
- Oxycodone (Percocet) combination contains 325 mg acetaminophen
- Hydrocodone (Vicodin, Lortab) combination contains 500 mg acetaminophen
- Tramadol (Ultram)

- Inexpensive
- Widely available
- Short-acting
- Be aware of acetaminophen limits
- Which drug working or causing adverse effects?



LONG ACTING OPIOIDS

- Morphine Sustained Release (MS Contin®, Kadian®, Avinza®)
- Oxycodone Sustained Release (Oxycontin®)
- Transdermal Fentanyl (Duragesic®)
- Methadone
- Tramadol (Ultram ER®)
- Oxymorphone (Opana ER®)





PHYSICAL NON-DRUG TECHNIQUES

- Massage→↑ relaxation, ↑blood flow
- Cold→ numbs nerve endings (itch), ↓ inflammation, muscle spasm
- Heat → ↓ inflammation, soreness, sensitivity to pain, ↑blood flow
- $ightarrow Vibration
 ightarrow \downarrow$ painful feeling \uparrow pain threshold
- Positioning/movement → correct body alignment helps muscles, movements and fluid, blood flow



NON-DRUG TECHNIQUES

Pain → Stress → Pain

- Distraction
- Relaxation
- Music
- Comfort Foods
- Imagery
- Controlled Breathing





WHAT IF ANALGESICS ARE INEFFECTIVE?

Fork in the road





NEXT STEP: CONSULTATION PSYCHOTROPIC ?

- Consult with the MD/DO/APNP
- Is a psychotropic drug indicated?
 - Antidepressants
 - Antipsychotics
 - Sedatives/hypnotics



PROBLEM: TIME & INFORMATION OVERLOAD

Decision Support Tools

Efficient Use Assessment & Diagnostics





