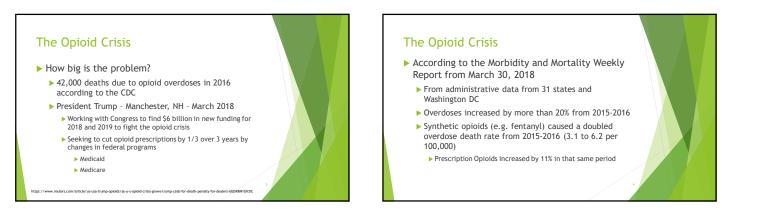
The Opioid Crisis: How it is Manifesting Itself in Pain Management

Presented by Rob Leffler, R.Ph. VP of Clinical Services PCA Pharmacy

Objectives

- Discuss myths that surround treating pain
- Describe various types of pain
- Discuss the opioid crisis and obstacles it creates
- Describe pain management techniques





Risks of Opioid Use

- Falls and Death in Older Adults
 - Canadian Medical Association Journal linked falls and death in older adults is linked to opioid use
 - Opioid use 2 weeks before an injury in 65 years and older
 - Increased risk of falling by 2.4 times
 - Falls linked to opioid use were also more likely to die in the hospital

https://eurekalert.org/pub_releases/2018-04/cmaj-oul041718.ph

QUIZ

1) According to the National Center for Health Statistics, in 2006, what percent of Americans suffered from pain lasting longer than 24 hours?

Definition

According to Merriam-Webster

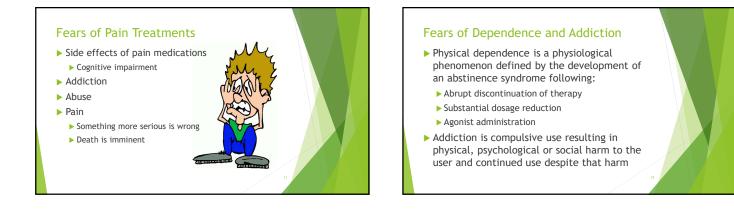
Pain -

- usually localized physical suffering associated with bodily disorder (such as a disease or an injury)
- A basic bodily sensation induced by a noxious stimulus, received by naked nerve endings, characterized by physical discomfort (such as pricking, throbbing, or aching), and typically leading to evasive action

https://www.merriam-webster.com/dictionary/pain, Accessed 10/2/17

What is pain?

- Unpleasant
- Subjective
- > Pain is what the resident says that it is
 - But in facilities, residents are notorious for not verbalizing their pain
 - Actions speak louder than words



Fears and Other Misconceptions

Tolerance has not been proven to be a prevalent limitation to long-term opioid use. Respiratory depression is less important than treating pain adequately.

Factors that cause greater risk of respiratory depression:

•Opioid naïve •Advanced Age •Rapid infusion rates •Respiratory disease •Using of accumulating agents

Diversion Concerns

Less likely with long-acting medications

▶ Regulations

- Shift-shift count sheets
- Policies and Procedures



Non-Verbal Communication of Pain Restlessness Resisting Care ▶ Frowning, ▶ Grimacing, Poor appetite Changes in gait Changes in behavior Fearful look Poor sleep Grinding of Sighing teeth Groaning ▶ Bracing, And the list Crying goes on ▶ Guarding,

 Heavy breathing

Rubbing

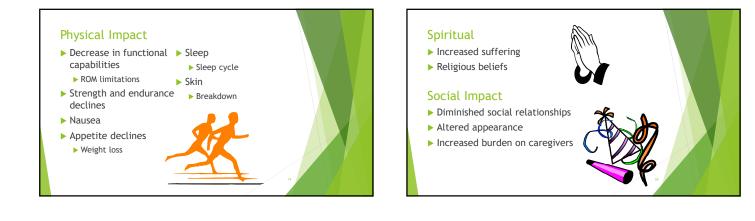
Fidgeting

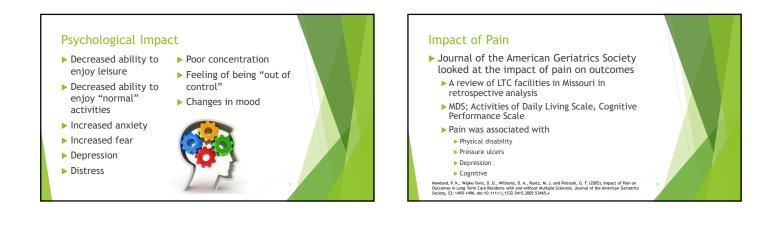
Agitation

- Decreased
- activity

goes on











Types of Pain - Chronic or Persistent

- Chronic Pain
 - May be considered a disease state Or associated with a disease state
 - ▶ Pain that lasts longer than the normal time of healing (usually >3 months)
 - May arise from a psychological state
 - Serves no purpose
 - ► Has no recognizable endpoint

Types of Pain - Chronic or Persistent

- Musculoskeletal problems
 - Arthritis
 - Wounds
 - Dental problems
- Bone
 - Pain increases with movement
 - Osteoporosis Fractures
 - Cancer

Types of Pain - Chronic or Persistent Severity of Pain Nerve ▶ Mild - Treat with 1st line therapies ► Acetaminophen ▶ Neuropathy Herpes zoster ► NSAIDs ► Hydrocodone combinations ▶ Spasms ▶ Moderate Long-acting opioids with/without adjuvants Severe Long-acting opioids with/without adjuvants

Severity of Pain

Mild Pain

- ▶ Nagging/annoying
- Doesn't interfere with most ADL
- ► Able to adapt to pain with psychological methods (think of something else, go to happy place) and pain medication

Severity of Pain

Moderate Pain

- Interferes significantly with ADL
- ► Lifestyle changes are required, but still able to function independently
- ► Unable to adapt/cope with pain without intervention (medication, other treatment modalities)

Severity of Pain

- ► Severe Pain
 - ► Unable to perform ADL
 - ► Unable to engage in normal activities
 - Disabled/unable to function independently

What's the big deal?

- Quality of life
- More awareness about pain
- Liability for inadequate treatment of pain
- ▶ Fifth Vital Sign

Assessing and Following Up

- There are wide variations in the amount of pain that is experienced in response to a particular insult.
- There are also wide varieties in response to therapy
- Assessment and follow-up are essential to successfully managing pain.

Assessing and Following Up

- Patient report
- Where does it hurt?
- Severity
- Description of the pain
- Aggravating/Relieving factors
- Previous therapy experiences
- Use "Yes" and "No" questions when possible
- Include family members

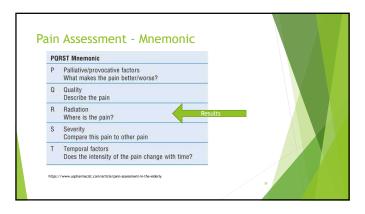
Assessing and Following Up

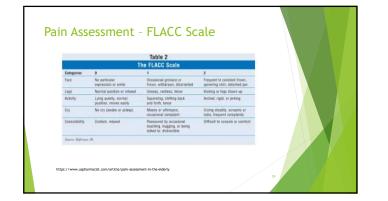
- Pain is subjective (it is what the patient says it is)
- Pain is different from patient to patient (pain tolerance)
- Multiple Scales available to assess pain
 1 to 10 scale
 - ▶ Face Scale

Pain Assessment

- How should pain be assessed?
- Consistently (numeric rating system, verbal descriptor, non-verbal indicators)
- ▶ When should pain be assessed?
 - Upon Admission
 - With each quarterly/annual review
 - Significant decline or change
 - When administering PRN medications for pain

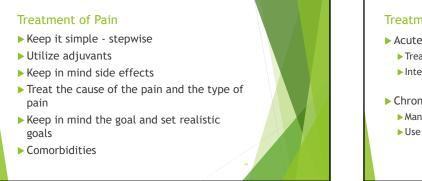






Barriers to Effective Pain Management

- Anxiety or Depression
- Decreased mobility or impairment from normal functions
- · Agitation or Aggression
- Patient concerns regarding controlled medications
- Patient knowledge, preferences and expectations
- Weight loss
- Sleep disturbances



Treatment Goals

- ► Acute Pain Treatment Goals
 - Treat cause of pain
 - Interrupt pain signals (pain relief)
- Chronic Pain Treatment Goals
 - Manage Pain
 - ► Use a multidisciplinary approach

Route Selection

- Oral simple, cost effective, long-acting forms
- Rectal easy alternative to oral, minimal options, patient preferences
- Transdermal Poor titratability, slow onset
- Parental Expensive, invasive, fast

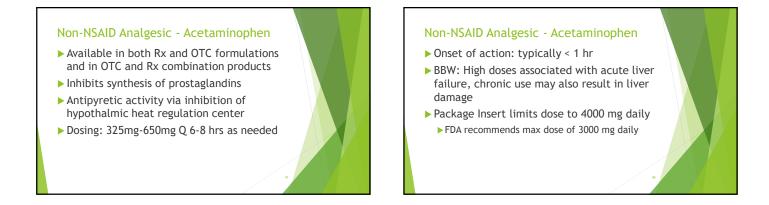
WHO Pain Ladder

- ► Three step ladder
- Designed for treating cancer pain
- ▶ Step 1: non-opioids
- Step 2: mild opioids (codeine)
- Step 3: Strong opioids (morphine)

WHO Pain Ladder Adjuvants used at each step to calm fears and anxiety Drugs should be given "by the clock"

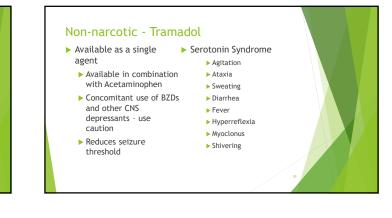
Pain Treatment

- > 100% Relief may not be possible > Or desirable
- Work with patient/prescriber to have specific goals of treatment
 - Be able to walk to go to the bathroom with minimal pain
 - Uninterrupted sleep pattern (sleep better)
 - Be able to have meaningful conversation without being too sedated



Non-NSAID Analgesic - Acetaminophen

- Often found in combination products ▶ Read the labels especially cough/cold combinations (acetaminophen, APAP)
- ▶ 2014 Changes
 - Vicodin 5/500 and Vicodin ES 7.5/750mg FDA Limited the amount of APAP allowed in combination products to try and reduce the potential of accidental APAP toxicity



NSAIDS

- Available as Over the Counter vs Prescription
 - ► OTC (Ibuprofen, Naproxen)
 - Rx (Celebrex, Mobic, Voltaren, Toradol)

NSAIDS

- Work by inhibiting cyclooxygenase which reduces the precursors for prostaglandins which creates analgesic, anti-inflammatory, antipyretic effects
- COX-1: involved in protecting stomach lining, kidney and platelet function
- COX-2: primarily found at sites of inflammation/injury OTC NSAIDS Inhibit both COX-1 and COX-2
 Risk of stomach ulcers, decreased kidney function, increased
 - bleeding time
 Lower doses available OTC, higher doses available by Rx

OTC NSAIDS Ibuprofen > OTC Dosing: 200-400mg Q 4-6 hours as needed (max of 1200mg daily for 10 days) Rx Dosing: 400-800mg Q 6 hrs as needed (max of 3200mg daily) Naproxen • OTC Dosing: 200mg Q 8-12 hrs as needed, maximum of 400mg in 8-12hr period and 600mg/24hrs Rx Dosing: 250mg Q 6-8hrs or 500mg Q 12 hrs, maximum of 1000mg/24hr

Rx NSAIDS

- ▶ Some can selectively bind COX-2
 - ▶ Try to reduce the side-effects of non-selective COX inhibition
- Black Box Warnings
 - Increased risk of CS thrombotic events (MI, Stroke)
 - Increased risk of GI bleeding (can happen at any time in treatment)

Rx NSAIDS - Continued

- ► Mobic (meloxicam) non-selective
 - Dosing: 7.5-15mg daily
 - Use not recommended with CrCl < 20ml/min</p>
 - Common Side Effects: GI upset, diarrhea, edema
- Celebrex (celecoxib) Cox2 Inhibitor
 - ▶ Dosing: 100-200mg BID
 - ▶ Monitor renal function, edema
 - Common Side-Effects: GI upset, diarrhea, edema

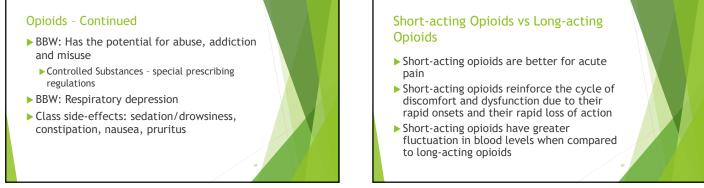
Rx NSAIDS - Continued

- Voltaren (diclofenac) non-selective
 Available oral and topical gel/patch
 - 100-200mg oral in 3-4 divided doses
 - Apply 1 patch twice daily to affected area
 - \circ Gel: Max total body dose not to exceed 32g per day
 - Lower Extremity: 4g per dose 4 times/day, max of 16g per joint/day
 - ► Upper Extremity: 2g per dose 4 times/day, max of 8g per joint/day



Opioids

- Bind to opiate receptors in CNS causing inhibition of the pain pathway
- > Alters the perception and response to pain
- Causes generalized CNS depression



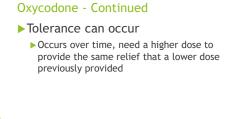
Opioid Side Effects

- Constipation
- Nausea/vomiting
- Respiratory Depression
- Allergies



Oxycodone

- All doses should be titrated to appropriate effect
- Available as immediate release and extended release formulations
 - Immediate release Dosing: 5-15mg Q 4 6 hrs PRN, use lowest dose possible to control pain
 Extended Release Dosing: 10mg 80mg Q 12 hrs
 - routine > Doses > 40mg/dose or 80mg/day are only for opioid tolerant patients
 - Opioid Tolerant Pts: 60mg PO morphine daily, 30mg PO oxycodone daily, Fentanyl Patch 25mcg/24hr or another equivalent opioid dose for at least 1 week



Fentanyl Patch

- Active Drug: Fentanyl (available in multiple different preparations)
- Very Potent drug (mcg dosing vs mg dosing for other opioids)
- Dosing: 12mcg to 100mcg patches available
 - Titrate to effect
 - Apply patches every 72 hrs, REMOVE old patch before placing new patch

Fentanyl Patch - Continued

- Medication is absorbed through the skin, so you do not need to place patch "where it hurts"
- Clip (do no shave) excess hair before application
- Apply to intact, non-irritated skin on chest or upper/outer arm
- Press patch on skin for 30 sec to ensure adhesion

Fentanyl Patch - Continued

- Apply a new patch if the old one falls off
- Can cover with First Aid Tape or Tegaderm if patch has trouble staying on
- ▶ Do not cut patch
- Some patients may require patches to be changed Q 48 hrs
- Avoid external heat sources (heating pads, electric blankets, hot tubs, heat lamps)
 - Could cause increased absorption

Opioid Induced Constipation

- Monitoring
- Prevention
 - ▶ Water
 - ▶ Fiber
 - Laxatives
 - Relistor (methylnaltrexone)
 Indicated for Opioid induced constipation
 Once daily oral or injectable

Adjuvants

General Principles

- Use the right one
- Titrate one medication at a time
- Watch of additive side effects
- Increase slowly

Adjuvants - continued

- Anticonvulsants
 Antihistamines
 - Gabapentin
 - Pregabalin
 - Carbamazepine
- Antidepressants
 - Duloxetine
 - Amitriptyline
- HydroxyzineMiscellaneous
 - BaclofenBisphosphonate
 - Calcitonin
- - Corticosteroids



Specialized Pain Treatments Muscle Spasms and Spasticity Diazepam Baclofen Local Anesthetics/Topicals EMLA Lidoderm Sprays/Creams Capsaicin - Counterirritant

Agents to avoid Talwin - low activity, hallucinations, delirium, agitation Meperidine (Demerol) - short duration of

action, seizures, erratic and variable absorption orally

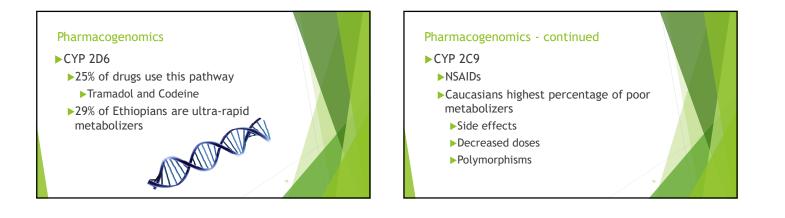
WRONG

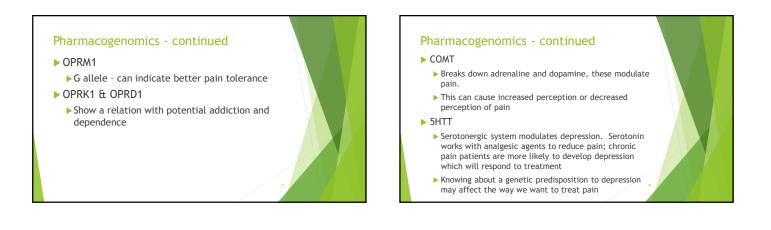
WAY

GO BACK

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Non-Pharmacological Treatments Non-Pharmacological Treatments ▶lce/Heat ► Music ▶ Pet Therapy Coping techniques ►Massage Aromatherapy ► Virtual reality Education ►PT ► TENS Meditation ► Art ► Acupuncture ▶ Repositioning ▶ Yoga ►Chiropractor ▶ Distraction Dry needling ▶ Relaxation Spiritual Support and comfort







Solutions for Everyone

- Display a caring attitude
- > Talk to the resident (regardless of comprehension)
- ▶ Talk **TO** the resident
- Communicate about what works
- Take care of basic needs

Conclusion and Other Caveats

- Use non-pharmacological treatments
- ▶ Be clear about the use of multiple PRNs
- ▶ Watch for Side Effects
- ► Assess & Document
- ► Who's responsible?

