



# **Assessment & Management of Pain For CHO/SN**

































### LEARNING **OBJECTIVES**

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- What are the causes of pain and concept of "PQRST" of pain
- pain
- Describe various drugs for managing pain
- Describe the use of opioids pain in management

#### • What is pain and concept of "Total Pain"

What are the methods for assessment of

















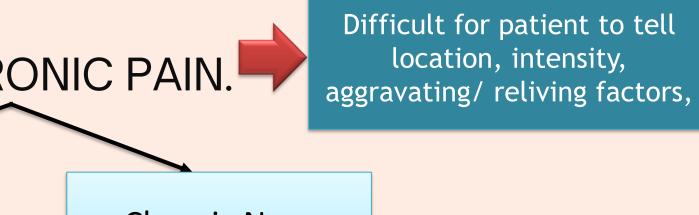
## WHAT IS PAIN?

 An unpleasant sensory and emotional experience <u>associated with</u>, or resembling that associated with, actual or potential tissue damage.

- Onset- sudden/ slow; intensity- mild to severe, course- constant/ recurring, with predictable/ without predictable end.
- If duration of pain is more than 6 months- CHRONIC PAIN.







Chronic Nonmalignant Pain



# PRINCIPLES OF PAIN MANAGEMENT

1. Consider 2. Evaluate 3. Effective patient as a symptoms communication "whole" thoroughly 5. Keep drug 6. Review and 7. Use nontreatment pharmalogical adjust treatment simple regularly treatment too 9. Ask for help



### 4. Correct the correctable

8. Plan in advance and keep staff informed

















### FACTORS

THAT "ENHANCE"

& "RELIEF"

### THE PAIN

#### Enhance

Disease Progression- not taking treatment, improper treatment, wrong treatment,

Exhaustion

loss of sleep

Anxiety

Despair

Anger

Feeling of isolation

Loneliness

Fear

#### Relief

#### Seeking proper treatment with adherence to treatment

#### Adequate sleep, rest, family support, follow-up, "TOTAL CARE"



#### PQRST of pain















#### P = Provokes/Precip itating/Palliating

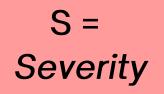
Q = Quality

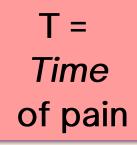
R = *Radiates* 



What does your
pain feel like?
What words would
you use to describe
your pain?
Is it sharp?
Dull?
Stabbing?
Burning?
Crushing?

Where does the pain radiate? Is it in one place? Does it go anywhere else? Did it start elsewhere and now localised to one spot?





On a scale of 0 to
10 with 0 being no
pain and 10 being
the worst pain you
can imagine, how
much does it hurt
right now?
How much does it
hurt at its worst?
How much does it

When did your
pain start?
How often does it
occur?
Has its intensity
changed?
How long does it
last?



















- During your house visit, you came across Mohan, 35 year male, suffering from Oral Cancer (Stage III, metastases to lung, kidney and brain). Before asking "how do you feel today" he kept his hand on his face and cried and told you it is "better to be dead" then this suffering. He also adds that chewing/ drinking increases the pain and only sleeping relived it. He also adds that the pain is as sharp as someone is pricking him needles whole day, which also radiated to neck and ear region. Now no medicine is working on it and usually pain is up and down whole day.
- His wife adds sometimes the pain is so severe that he woke up crying and shouting from his bed.
- On asking history you got to know that initially the pain was started from buccal mucosa and eventually tongue, palate, neck and ear got involved.





# **CONCEPT OF TOTAL PAIN- PAIN BASKET ACTIVITY**







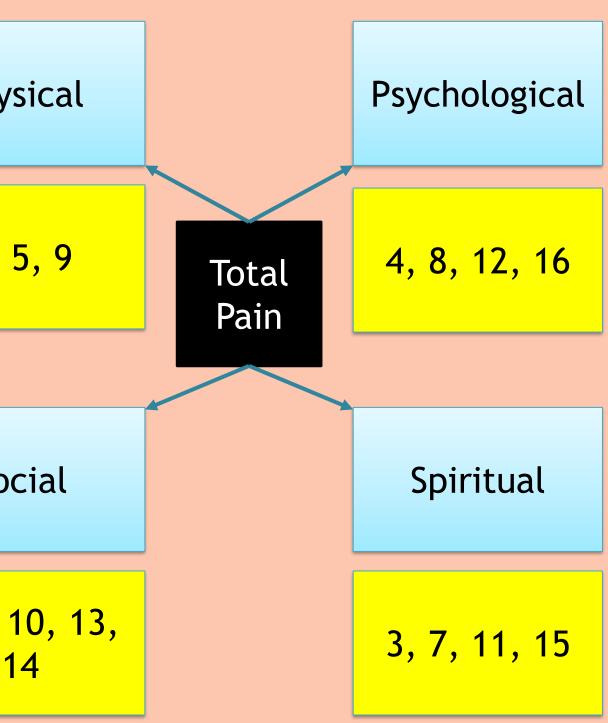






<ol> <li>Comorbid causes</li> <li>Loss of job</li> <li>Loss of faith</li> <li>Depression</li> </ol>	Phy
<ol> <li>5. Caused by treatment</li> <li>6. Loss of role and social status</li> <li>7. Finding meaning</li> <li>8. Anxiety</li> </ol>	1,
9. Caused by cancer	
10. Financial concern 11. Anger at fate/ God 12. Fear of suffering	So
<ul><li>13. Worries about future</li><li>14. Dependency</li><li>15. Fear of unknown</li></ul>	2, 6,

16. Past experience of illness



















What is your previous experience of pain and illness?

When pain start

Where is it, and does it move to any other region?

What are your expectations of treatment?

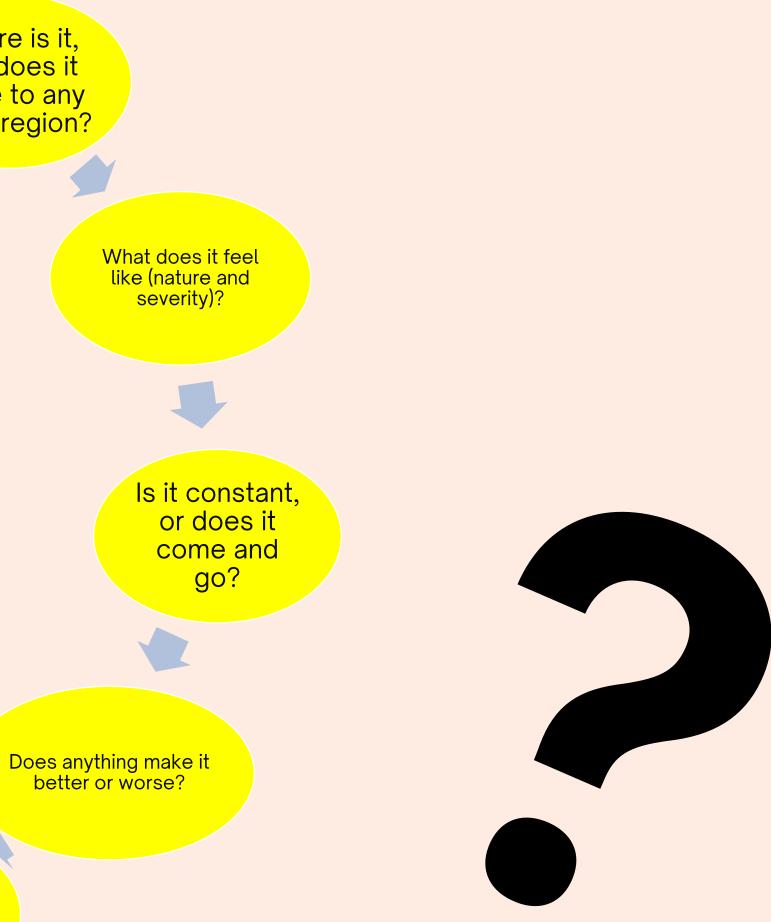
What do you feel and fear about the pain

#### Assessment of Pain (QUESTIONS)

What do you think the pain is due to?

Is it limiting your activities?

Are there any associated symptoms?















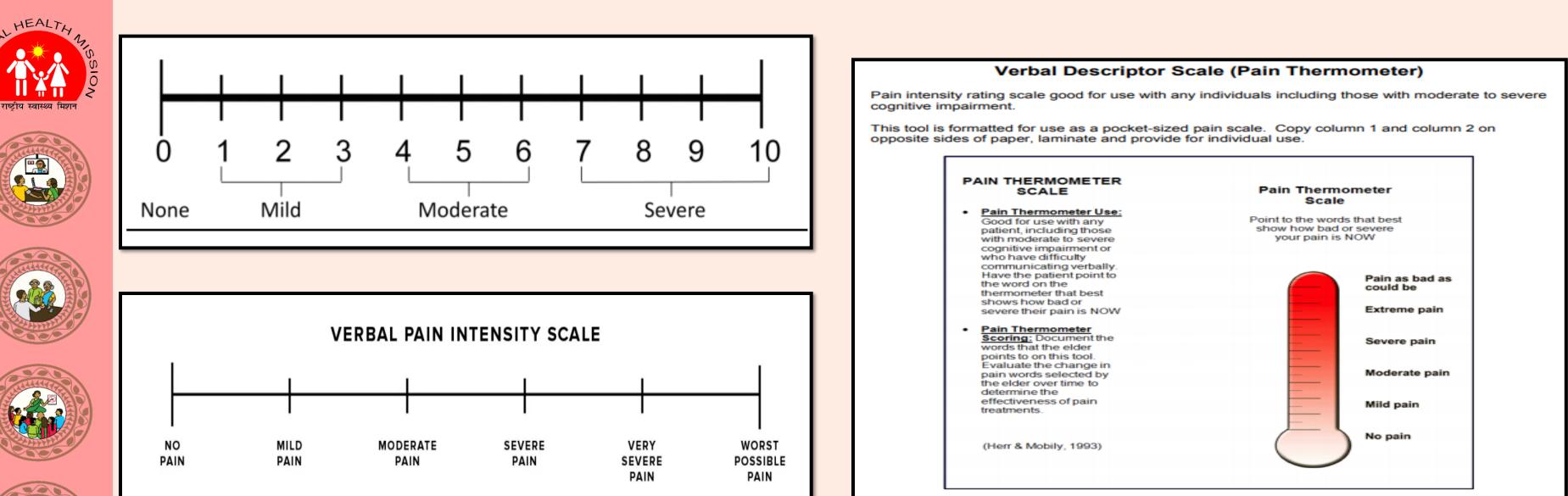




### PAIN SCALES FOR MEASUREMENT OF INTENSITY OF PAIN

- Two types
- Multidimensional- explores all dimension of pain, time consuming, not suitable at OPD setting
- Unidimensional- assess the intensity of in quick time.
   They are of many types like:
  - Numeric Rating Scale
  - Verbal Rating Scale
  - Visual Analog Scale
  - Verbal Descriptor scales
  - Faces Pain Rating Scale















### **TYPES OF PAIN**



|--|









Nociceptive Pain	
Usually acute in nature	Usually o
Develops in response to a specific situation for e.g. Pain due to broken ankle	Develops for e.g. sole in d
Goes away as situation improves e.g. when ankle heals pain goes away	Seen ir stroke, c
	Usually underlyi glucose i



#### **Neuropathic Pain**

chronic in nature

s due to damage to nervous system numbness, burning sensation of diabetic patient

n diabetes, multiple sclerosis, cancer etc.

controlled by controlling the ing disease like controlling blood in case of diabetes.

















# LET US TALK ABOUT DRUGS -MANAGEMENT OF PAIN



















### **MANAGEMENT PRINCIPLES**

1. By Clock: Prescribe round the clock doses in contrast to SOS doses for effective pain relief.

2. By **Mouth**: Start with oral immediate-release opioids, titrate to effective dose before switching to sustained-release opioids.

3. By the Ladder: Once the patient is started on the analgesic ladder, they must be reviewed regularly to titrate the exact dose requirements and to assess for side effects, change of pain quality etc.

STEP I - (MILD PAIN): Non-opioid (Paracetamol), NSAID (Diclofenac or ibuprofen) STEP II – (MODERATE PAIN): Weak opioids: Codeine, Tramadol STEP III - (SEVERE PAIN): Strong Opioids: Morphine, Fentanyl, Buprenorphine











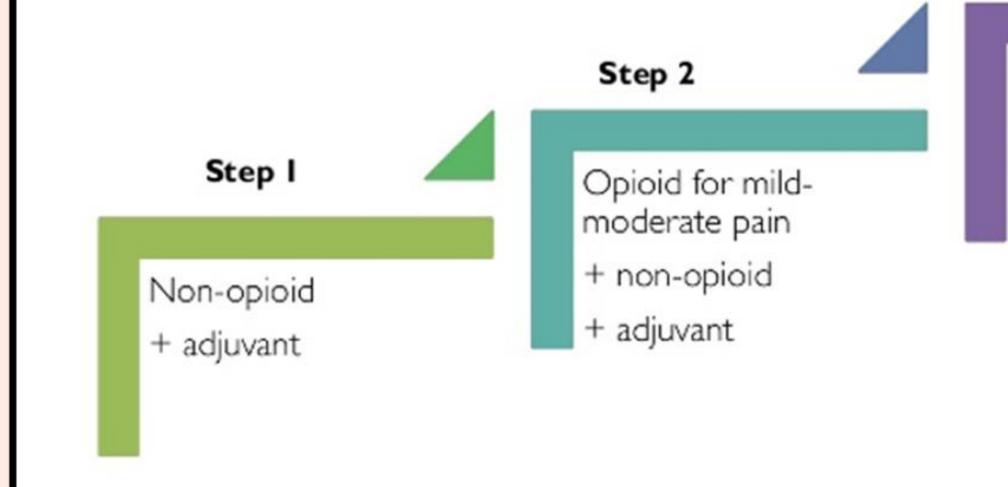






### WHO PAIN RELIEF LADDER

### WHO's Pain Relief Ladder





#### Step 3

Opioid for moderatesevere pain

+ non-opioid

+ adjuvant

















### **ADJUVANT ANALGESICS (CO-ANALGESICS)**

An adjuvant analgesic is a drug, which is not an analgesic in its prime function but, in combination with an analgesic, can enhance pain control. E.g.

- Anti-emetics
- Anti-depressants
- Anti-convulsant
- Muscle relaxant
- Antispasmodic
- Antibiotics
- Anxiolytics
- Antacids



















### **CONCEPT OF BREAKTHROUGH PAIN**

- When pain breaks through a baseline level of analgesia, for instance, while changing wound dressings, body movement, defacation, rectal examination, manual evacuation.
- Drugs that can be used during that period are:
  - 1. Sublingual Ketamine 10-25 mg (approximately 0.2-0.5 mg/kg)
  - 2. Nitrous oxide (Entomox) inhalation
  - 3. An extra dose of oral or subcutaneous Morphine sulphate 20 minutes prior to the procedure (s.c injections to be used for patients unable to swallow on their own)
  - 4. Midazolam 2.5-5 mg s.c/Lorazepam 0.5 mg sublingually to alleviate anxiety.
  - 5. Sublingual Fentany

















# **CLASSES OF DRUGS USED IN NEUROPATHIC PAIN**

#### 1. Tricyclic Antidepressants

- The mechanism of analgesic action occurs principally by facilitation of descending inhibitory pathways. E.g. Amitriptyline, Imipramine.
- Lower doses than the dose commonly required for depression will be effective in neuropathic pain.

#### Anticonvulsants 2.

Gabapentin is the only anticonvulsant licensed for treating neuropathic pain

#### 3. Anaesthetic Agen

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Agents				
Anaestheti	agent			
like ketamine causes				
dissociative				
anaesthesia	1	and		
shown	to	be		
analgesic	at	sub-		
anaesthetic doses.				

#### 4. Other Drugs

Topical Lignocaine / **Bupivacaine**: Topical lignocaine or bupivacaine may be useful for superficial localized areas of pain such as fungating wounds for short periods Capsaicin cream (0.75%) may be used for the pain from postherpetic neuralgia.







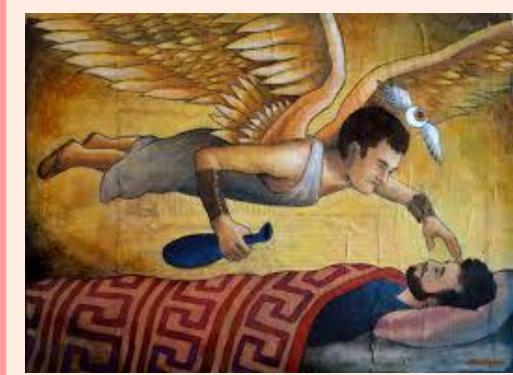












## **ORAL MORPHINE**

- Morphine administered by oral route is the choice for cancer pain.
- It is administered as tablets (i.e., 10 mg, 20 mg)
- No standard dose for chronic cancer pain, the correct dose is that which controls pain with minimal side effects
- Dose to be titrated for each patient.
- Do not forget to prescribe a laxative and antiemetic for constipation and nausea/vomiting



Myths about Morphine:

- Only for patients with cancer
- Only when the end of life is near
- Addiction/dependen ce is always present
- Respiratory depression is very common.
- Can't be used for children

















### **GUIDELINES FOR STARTING A PATIENT ON ORAL MORPHINE**

- 1. Indicated in patients with pain who do not respond to the optimized combined use of a nonopioid and a weak opioid.
- 2. The starting dose of morphine is calculated to give a greater analgesic effect than the medication already in use
  - If the patient was previously receiving a weak opioid, give 10 mg QID or 20-30 mg BD.
  - If changing from an alternative potent opioid (such as fentanyl, methadone), a much higher dose of morphine may be needed
  - If the patient is frail and elderly, a lower dose could help to reduce initial drowsiness, confusion and unsteadiness, i.e., 5 mg QID

3. Because of accumulation of an active metabolite, a lower and/or less frequent regular dose may be preferable, especially in renal failure, i.e., 5-10 mg TDS

If the patient takes two or more p.r.n. doses in 24 hours, the regular dose should be increased by 30-50% every 2-3 days.

















### **GUIDELINES FOR STARTING A PATIENT ON ORAL MORPHINE**

4. Upward titration of the dose of morphine stops when either the pain is relieved or intolerable or undesirable effects supervene.

5. Because of poor absorption, morphine may not be satisfactory in patients troubled by frequent vomiting or those with diarrhoea or an ileostomy.

6. Supply an antiemetic in case the patient becomes nauseated, such as ondansetron, metoclopramide, domperidone, haloperidol.

7. Prescribe stimulant laxatives. Adjust the dose as necessary. Suppositories and enemas remain necessary in about 1/3rd of patients.

8. Warn patients about the possibility of initial drowsiness.

9. If swallowing is difficult or there is persistent vomiting, morphine may be given PR by suppository; the dose is the same as PO.

For outpatients, write out the drug regimen in detail with time, name of drug and amount to be taken and arrange for follow-up

















## **ORAL MORPHINE- DRUG DOSING**

- Morphine is given QID regularly 'by the clock' with once p.r.n. doses of an equal amount
- After 1-2 days, adjust the dose upwards if the patient still has pain or using two or more p.r.n. doses per day. Keep a watch on "Over Sedation" & "Constipation"- MC SIDE EFFECTS
- Continue QID regularly with once p.r.n. doses of an equal amount
  A double dose at bedtime obviates the need to wake the patient up for a 6
- A double dose at bedtime obviates the need hourly dose in early morning
- Morphine does not cause acidity or heartburn so that it can be taken before or after food.

















## **MORPHINE SIDE EFFECTS**

- 1. Constipation- Rx: Tablet Bisacodyl 10 mg HS or Syrup Lactulose 15-20 ml HS
- 2. Nausea and vomiting- Rx: Usually self-limiting within 1 week. Prescribe Tablet Metoclopramide 10 mg TDS or Tablet Haloperidol 1.5-2.5 mg HS.
- 3. Drowsiness- Rx: Initial drowsiness may be a sign of effective pain relief in a sleep-deprived patient. Stimulants such as dextroamphetamine may be helpful if sedation persists
- 4. Delirium- Rx: Assess for reversible causes like hypercalcemia and UTI. If no other cause apparent consider haloperidol 2.5-5 mg HS
- 5. Myoclonus: May respond to benzodiazepines but may be a sign of opioid toxicity requiring hydration, opioid dose reduction or switching
- 6. Pruritus- Rx: Ondansetron

















### NON MEDICAL (DRUG) INTERVENTION FOR PAIN

- 1. Cold applications: Cold reduces pain, inflammation, and muscle spasticity by decreasing the release of pain-inducing chemicals and slowing the conduction of pain
- 2. Heat applications: Heat reduces pain through improved blood flow to the area and reduction of pain reflexes
- **3**. Massage of the painful area: Massage interrupts pain transmission, increases endorphin levels, and decreases tissue oedema
- 4. Progressive relaxation, imagery and music: These centrally acting techniques for pain management work by reducing muscle tension and stress
- 5. Others: Acupressure, Transcutaneous electrical nerve stimulation (TENS)











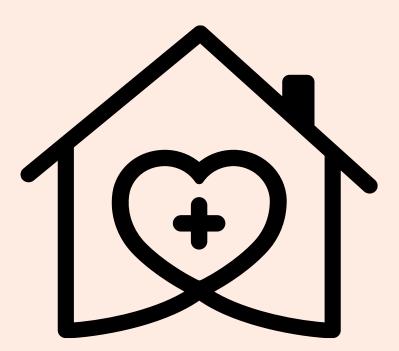






## HOME CARE TEACHING

- Teach the patient and family how to take/ give pain medications.
- Explain the patient and caregiver about each analgesic's time of intake, duration, route, expected side effects and importance of PRN dose.
- 3. Write out the instructions clearly on the medicine envelope.
- Encourage the patient to use complementary therapies like distraction, music, imagining a peaceful scene, as much as possible.
- Explain the importance of drug compliance in pain management and discourage to stop any self-prescribed medications



















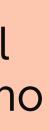
## **HOME CARE TEACHING**

5. Teach the family how to give oral Morphine.

6. Teach the patient and family about the rectal route for Morphine administration in patients who can't take orally.

7. Advise family on additional methods for pain control-emotional support, physical method (touch, hot and cold application).

8. Give adequate information on managing side effects of Analgesic at home (Eg. Constipation-T. Dulcolax 5mg, dry mouth—ice chips, lemon pieces.





















- 1. For pain management it is always preferable to initiate with oral morphine as compare to NSAIDS. T/ F
- 2. Ibuprofen is categorizes in "adjuvant analgesic" T/ F
- 3. Mention 3 side effects of morphine to look for \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- 4. Morphine dose should be increased at least 20% in case of renal failure. T/ F
- 5. If the patient takes two or more p.r.n. doses in 24 hours, the regular dose should be increased by 30-50% every 2-3 days. T/ F
- 6. \_\_\_\_\_ is the only anticonvulsant licensed for treating neuropathic pain



















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# Thank You















