

# PAIN AS THE 5<sup>TH</sup> VITAL SIGN

TRAINING MODULE FOR PRIMARY CARE



- **2008:**
  - Implemented as a policy nationwide



PEKELILING KETUA PENGARAH KESIHATAN BILANGAN 9 TAHUN 2008;

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**PELAKSANAAN TAHAP KESAKITAN SEBAGAI TANDA VITAL  
KELIMA (*PAIN AS FIFTH VITAL SIGN*)  
DI HOSPITAL-HOSPITAL KEMENTERIAN KESIHATAN**



- **Currently:**
  - one of the requirements  
for PAIN FREE HOSPITAL / CLINIC



# OBJECTIVES OF THIS TRAINING MODULE:

- Better awareness of pain
- Better pain management
- Train doctors, nurses and all health care personnel in
  - pain assessment
  - approach to pain management
- ➔ Implement pain as 5<sup>th</sup> vital signs
- ➔ Working towards pain free clinic



# OUTLINE

- Introduction & rationale for Pain as the 5<sup>th</sup> Vital Sign
- Definition of pain
- Classification of pain
- Pain physiology: The Pain Pathway
- Pain Assessment
- Management of acute pain
- Summary: Assessment & Management of pain
- Pain in Paediatric patients

# INTRODUCTION AND RATIONALE

# PRIOR TO 2008- 4 VITAL SIGNS

- Prior to 2008 ( Pain as 5<sup>th</sup> Vital Sign implementation)
- 4 vital signs were routinely monitored:
  - Temperature (T)
  - Pulse rate (PR)
  - Respiratory rate (RR)
  - Blood pressure (BP)

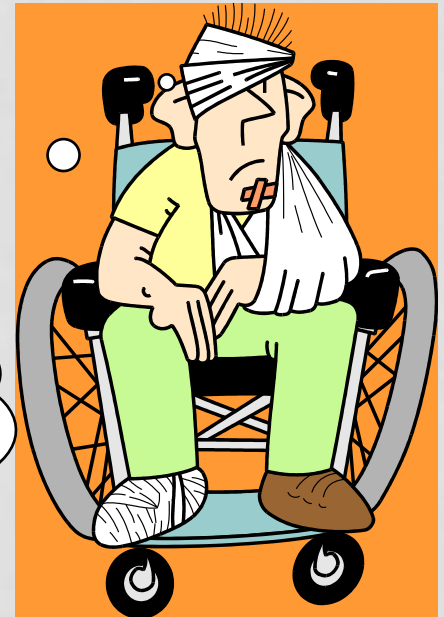


# ARE 4 VITAL SIGNS ADEQUATE?

He is quiet and comfortable.  
BP, PR, RR are normal  
He has no fever



I expect them to  
know that I am in  
severe pain



**4 VITAL SIGNS = ZERO COMMUNICATION**



# BARRIERS TO PAIN MANAGEMENT

- **Inadequate pain assessment**

- identified as the greatest barrier to pain management

(Von Roenn JH, Cleeland CS, Gonin R, et al. Ann Intern Med, 1993)

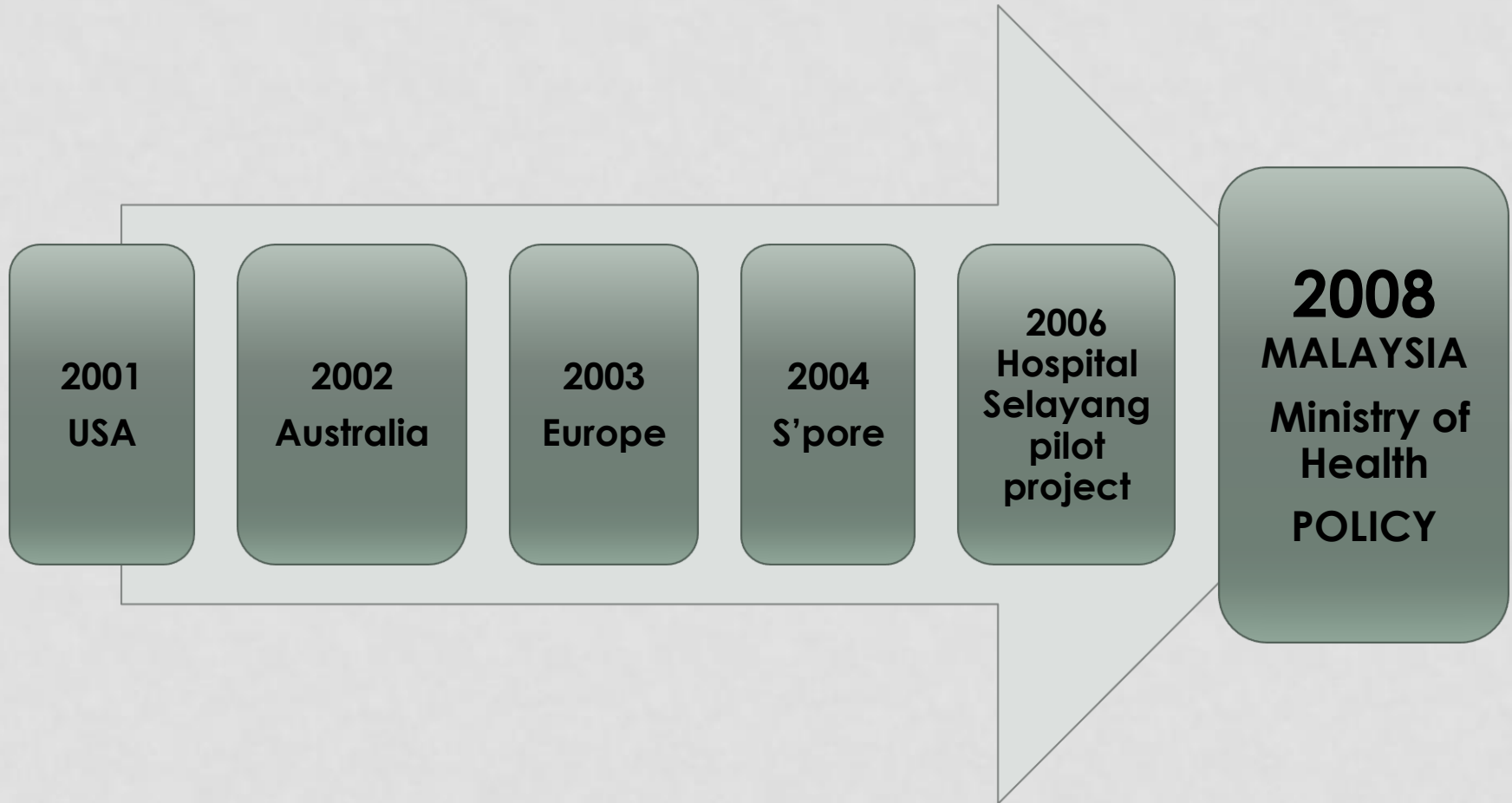
- **Lack of awareness**

- If you don't ask, you won't know





# JCAHO / JCI STANDARDS: PAIN AS THE 5TH VITAL SIGN



# BENEFITS OF PAIN AS 5<sup>TH</sup> VITAL SIGN

- **Promote interaction between healthcare providers and patients**
  - Better communication
  - Better patient satisfaction
- **Provide better patient care**
  - Priority to pain assessment
  - Individualized care
- **Better awareness of pain**
  - Better management of pain
  - Faster recovery



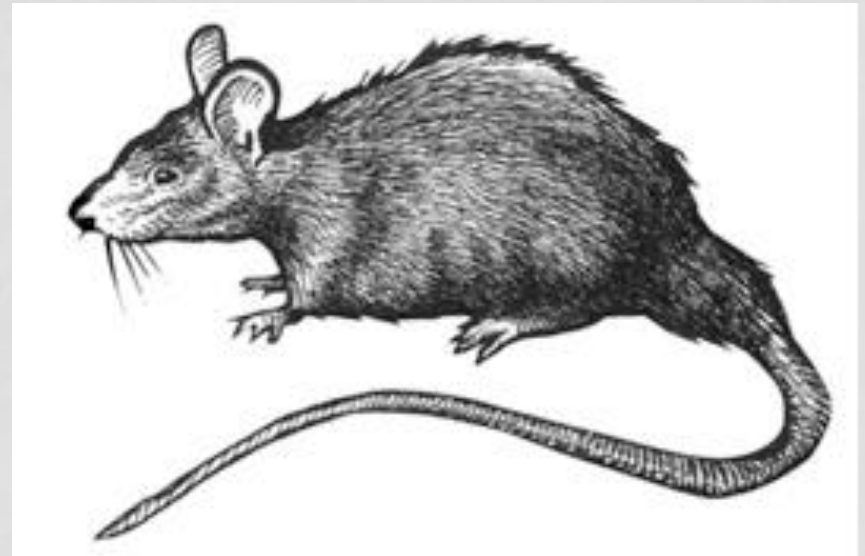
# INCORPORATING ESSENTIAL PAIN MANAGEMENT (EPM) IN THE P5VS TRAINING MODULE

- **EPM program**
  - developed by Dr. Roger Goucke and Dr. Wayne Morris
  - designed to improve pain management worldwide at "grassroots" level.
  - Supported by the Australian and New Zealand College of Anaesthetists (ANZCA)
- **Aims of EPM:**
  - To improve understanding of pain
  - To teach a simple framework for managing pain
  - To reduce pain management barriers
- **Aims of incorporating EPM into KKM P5VS training:**
  - To use a basic, standardised approach for managing pain in KKM – hospitals and clinics

# A BASIC APPROACH TO PAIN

- **R-A-T** model (approach)

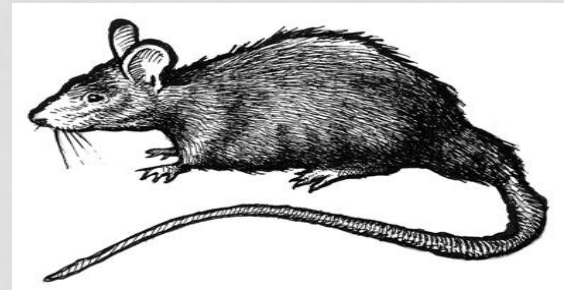
- **R**ecognise
- **A**ssess
- **T**reat



# APPROACH TO PAIN

## Recognise

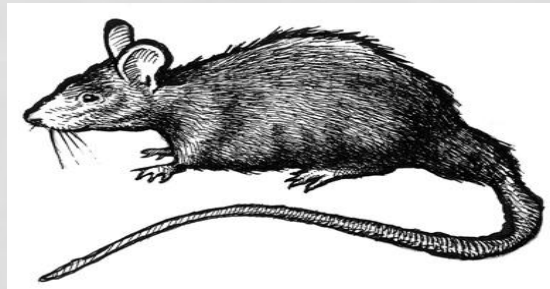
- Does the patient have pain?
- Do other people know patient has pain?



# APPROACH TO PAIN

## **Assess:**

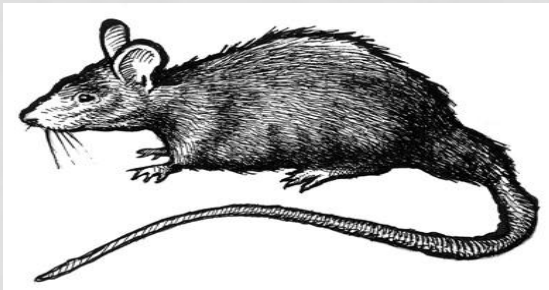
- How severe is the pain
- What type of pain is it?
- Are there other factors?



# APPROACH TO PAIN

## Treat

- What non drug treatment can I use?
- What drug treatment can I use?





# DEFINITION OF PAIN

# WHAT IS PAIN?

- **Definition:**

- Pain is an unpleasant sensory and emotional experience associated with actual or potential tissue damage, or described in terms of such damage
- International Association for the Study of Pain (IASP)  
(Bogduk & Merskey 1996 IASP)

- **Questions:**

- WHAT does this mean?
- Are there any other definitions?

# WHAT DOES THAT MEAN?

What we (health care provider) understand ....

- Unpleasant
- Emotions are important
- The cause is not always visible

Other definitions:

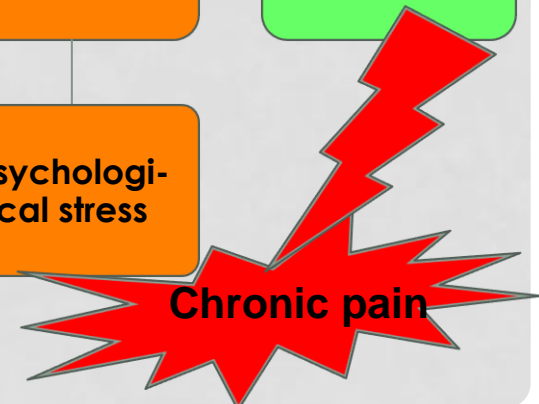
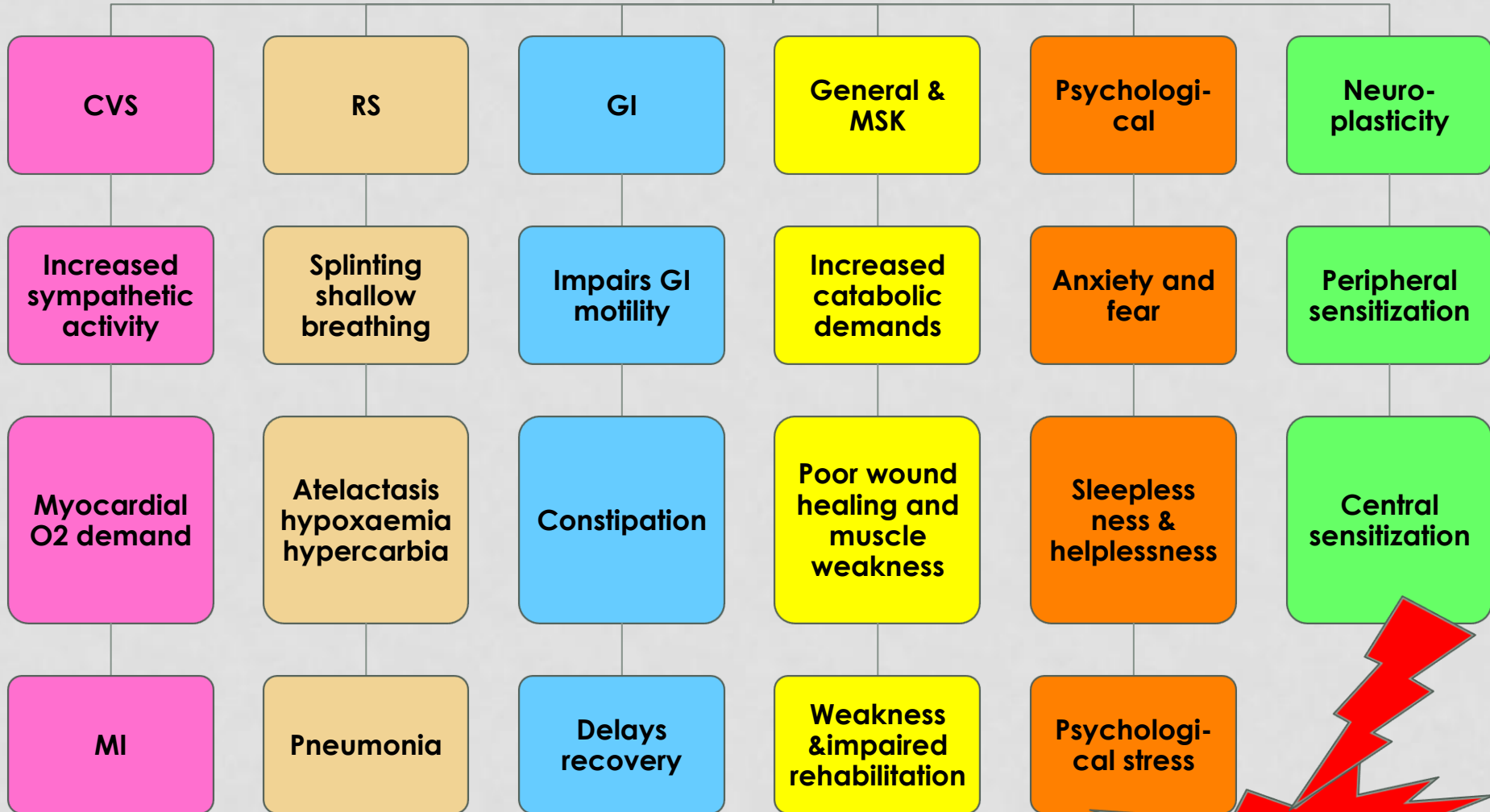
For the patient.....

PAIN is what the patient says **HURTS**  
**“SAKIT!!!”**



What are the  
consequences of not  
treating acute pain?

# Adverse effects of severe acute pain



# Pain can affect...

**ANYONE**

Rich and poor  
Young and old  
Educated and illiterate  
Urban and rural  
Doctors, nurses  
and other healthcare providers

# CLASSIFICATION OF PAIN



# DIFFERENT TYPES OF PAIN

## DIFFERENT LOCATION



Injection



Neck pain



Cancer



Trauma



Low back  
pain



Post op  
pain



Arthritis



Labour

# CLASSIFICATION OF PAIN

- **NOT ALL PAIN IS THE SAME**
- 3 main questions:
  - How long has the patient had pain? (duration)
  - What is the cause?
  - What is the pain mechanism?

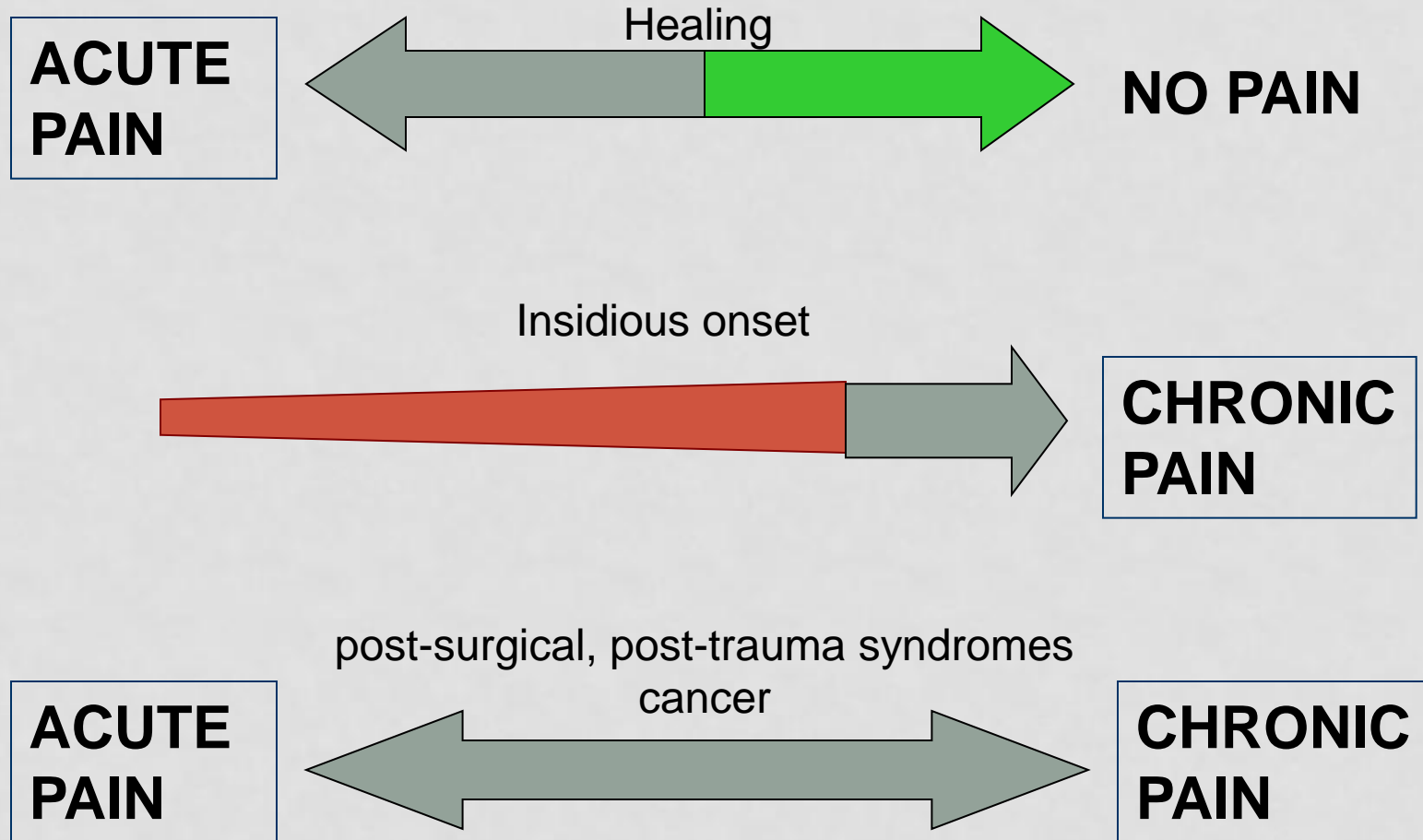
# CLASSIFICATION OF PAIN

Type	Descriptions	
<b>Acute</b>	Pain of recent onset/sudden onset	<b>Duration</b>
<b>Chronic</b>	Last for more than 3 months, cannot identify cause Pain persist even after wound is healed	
<b>Cancer</b>	Progressive; many different cause May be a mixture of acute and chronic pain	<b>Cause</b>
<b>Non cancer</b>	Acute or chronic	
<b>Nociceptive /physiological pain</b>	Obvious tissue injury or illness Somatic = bones and tissues = well localized, sharp Visceral pain: abdomen, thoracic cavity, diffuse, colicky Nature of pain: sharp or dull	<b>Mechanism</b>
<b>Neuropathic/ pathological pain</b>	Nervous system damage or abnormality; May not see tissue injury Nature of pain: shooting ± numbness, pins and needles, not well localized	

# DIFFERENCES BETWEEN ACUTE AND CHRONIC PAIN

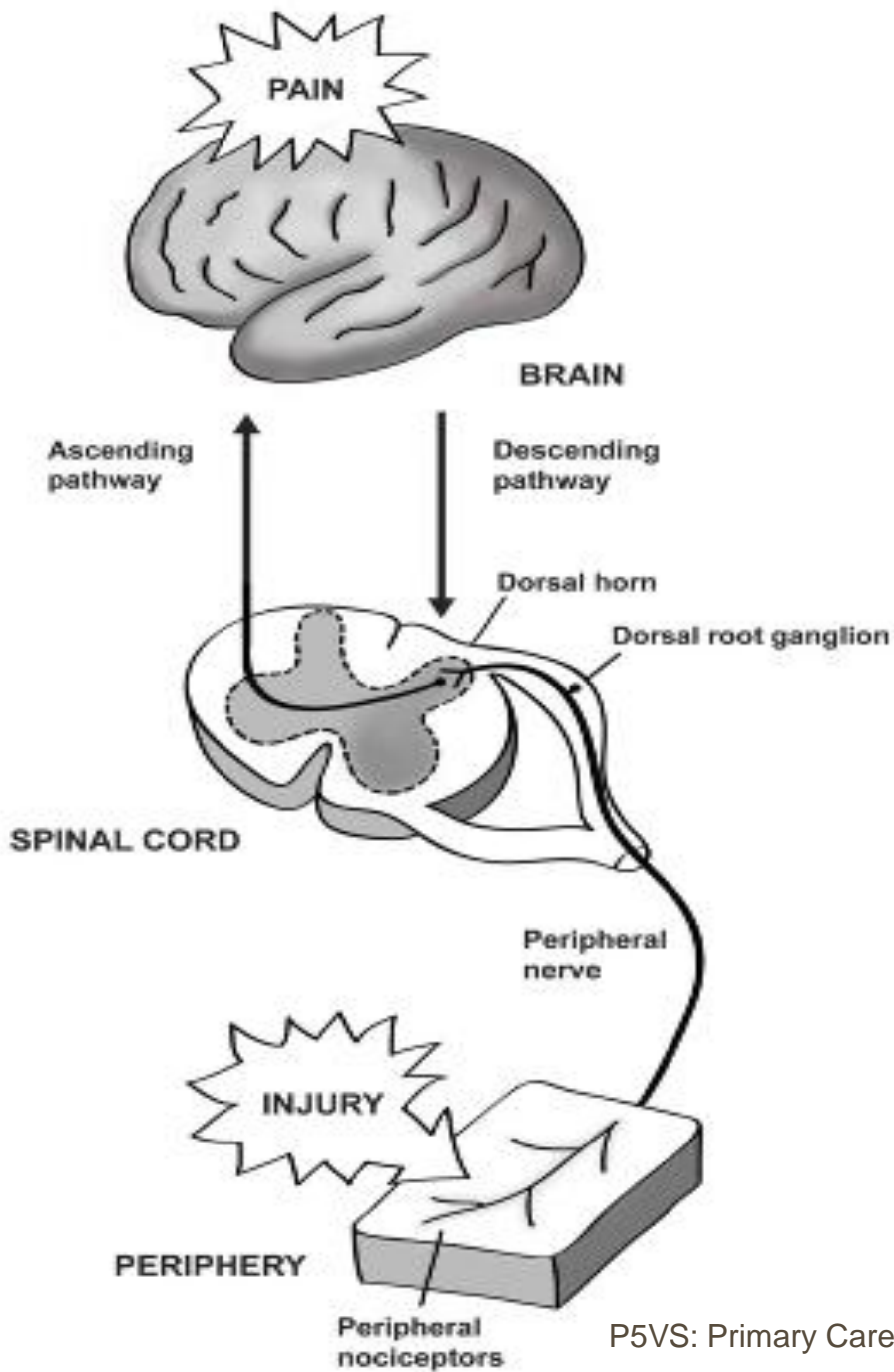
	<b>Acute pain</b>	<b>Chronic pain</b>
<b>Onset &amp; timing</b>	Sudden, short duration Resolves /disappears when tissue heals	Insidious onset Pain persists despite tissue healing
<b>Signal</b>	Warning sign of actual or potential tissue damage	Not a warning signal of damage False alarm
<b>Severity</b>	Correlates with amount of damage	Severity not correlated with damage
<b>CNS involvement</b>	CNS intact- acute pain is a symptoms	CNS may be dysfunctional- chronic pain is a disease
<b>Psychological effects</b>	Less, but unrelieved pain → anxiety and sleeplessness (improves when pain is relieved)	Often associate with depression, anger, fear, social withdrawal etc.

# SPECTRUM OF PAIN



# COMMON CAUSES

ACUTE PAIN	CHRONIC PAIN
<p>Trauma/fracture/Surgery</p> <p>Burns</p> <p>Arthritis</p> <p>Abscess</p> <p>Myocardial infarction</p> <p>Labour pain &amp; child birth</p>	<p>Chronic headache</p> <p>Chronic low back pain</p> <p>Chronic abdominal pain</p> <p>Chronic pelvic pain</p> <p>Cancer pain</p>
NEUROPATHIC PAIN	
<p>Acute shingles</p> <p>Post spinal cord injury</p> <p>Brachial plexus injury</p>	<p>Post herpetic neuralgia</p> <p>Diabetic peripheral neuropathy</p> <p>Post stroke pain</p>



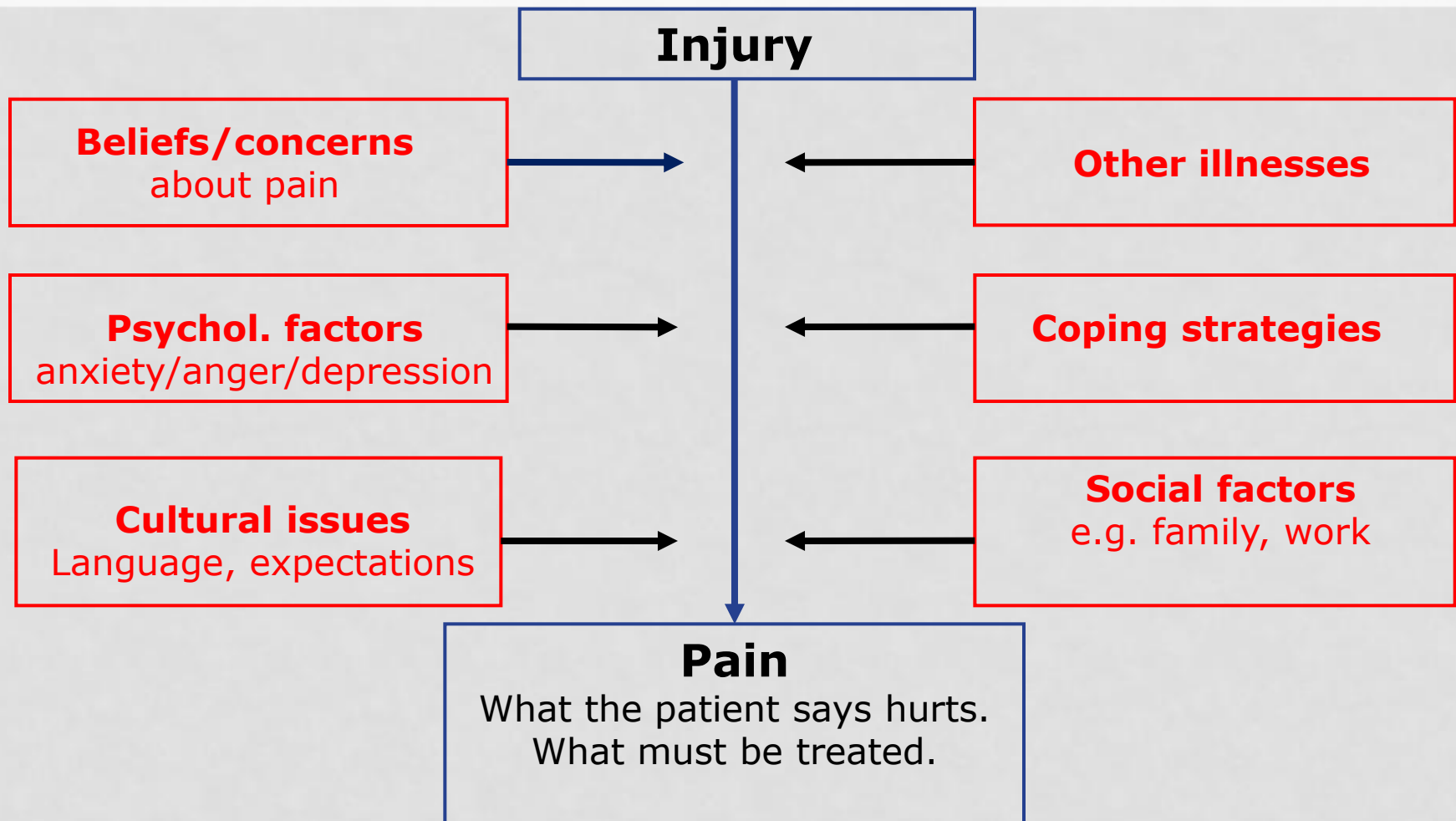
# Pain physiology: the Pain Pathway



# WHY IS PAIN PHYSIOLOGY IMPORTANT?

- **Many factors affect how we 'feel' pain**
  - Psychological factors are very important
- **Different pain treatments works on different parts of the pain pathway**
  - More than one treatment may be needed

# NOCICEPTION IS NOT THE SAME AS PAIN!

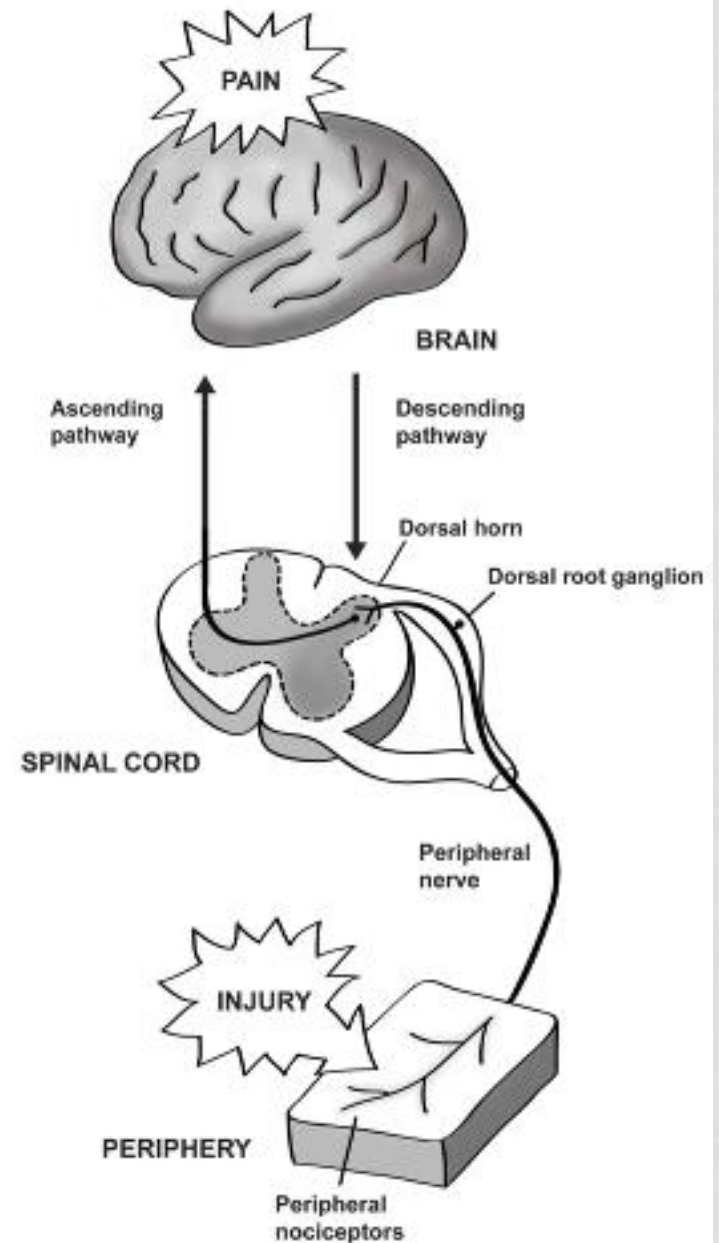


# PAIN PATHWAY

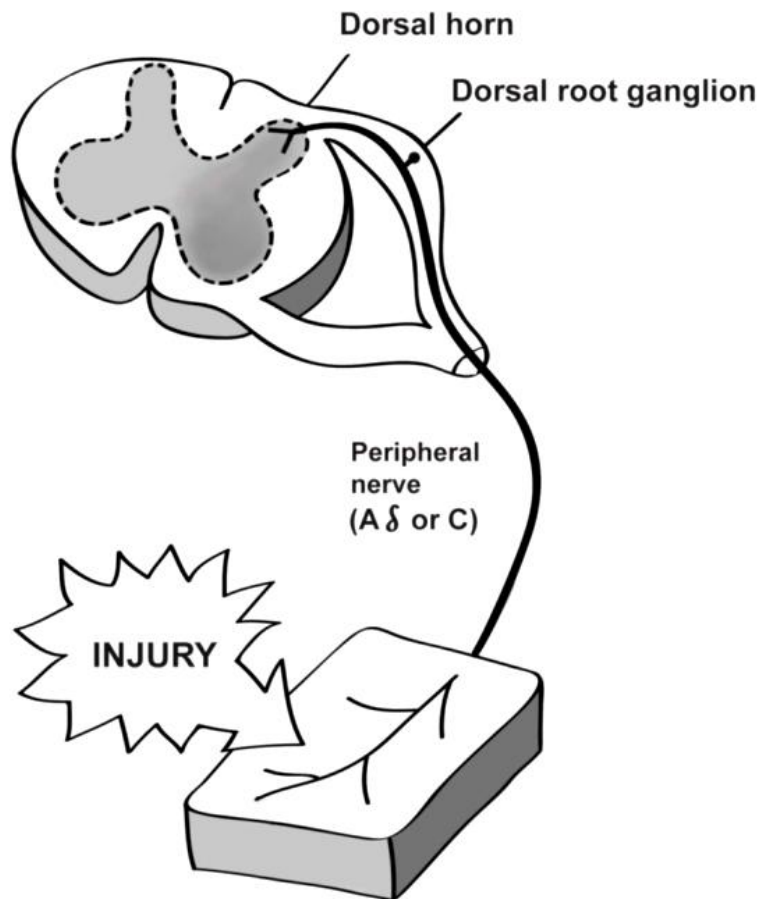
- **4 steps:**

- Periphery
- Spinal cord
- Brain
- Modulation

Let's look at each step



# PERIPHERY (1<sup>ST</sup> STEP)



Tissue injury



Release of chemicals

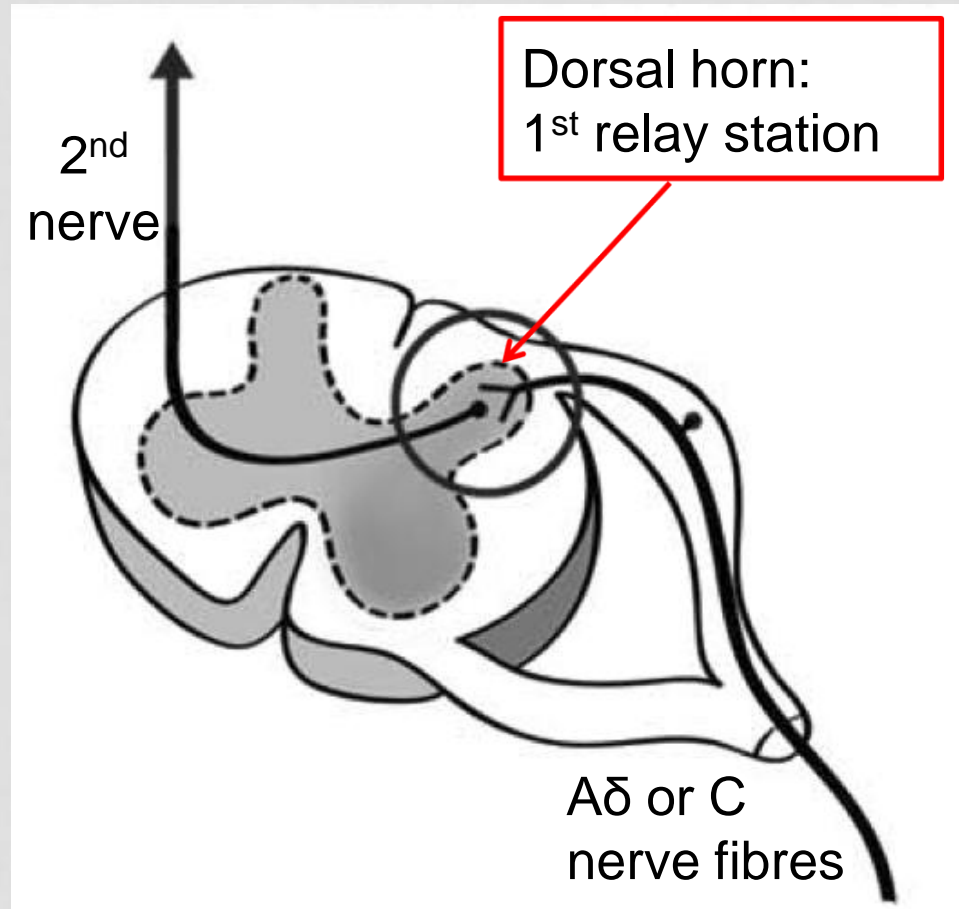


Stimulation of pain receptors (nociceptors)



Signal travels in A $\delta$  or C nerve fibres to spinal cord

# SPINAL CORD ( 2<sup>ND</sup> STEP)

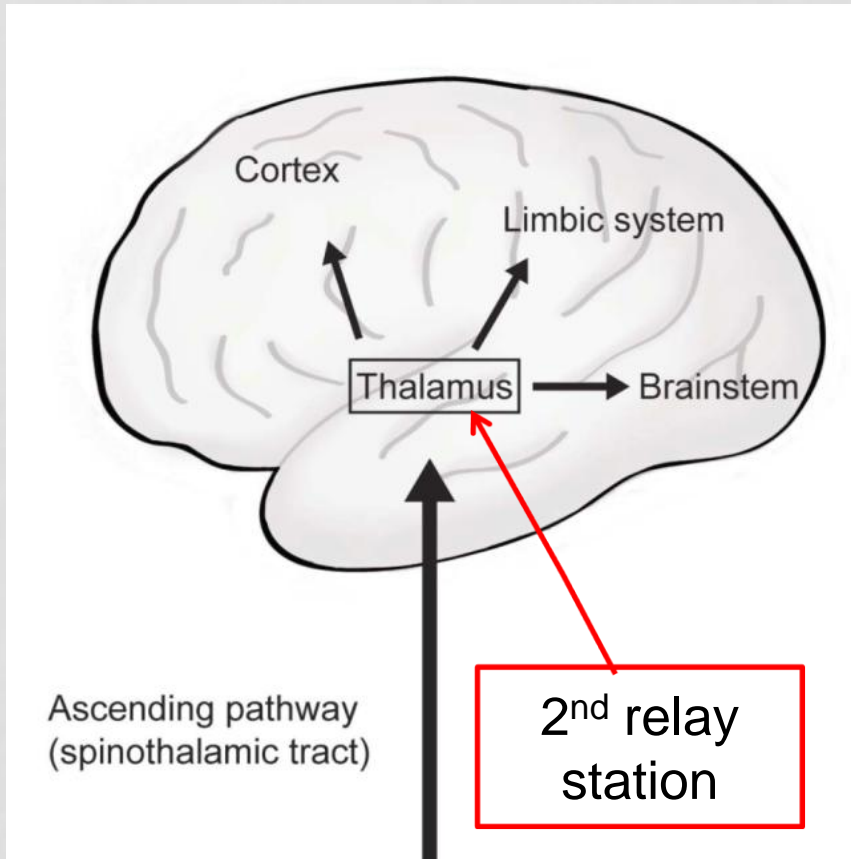


Aδ or C nerve fibres  
synapse (connect) with  
second nerve



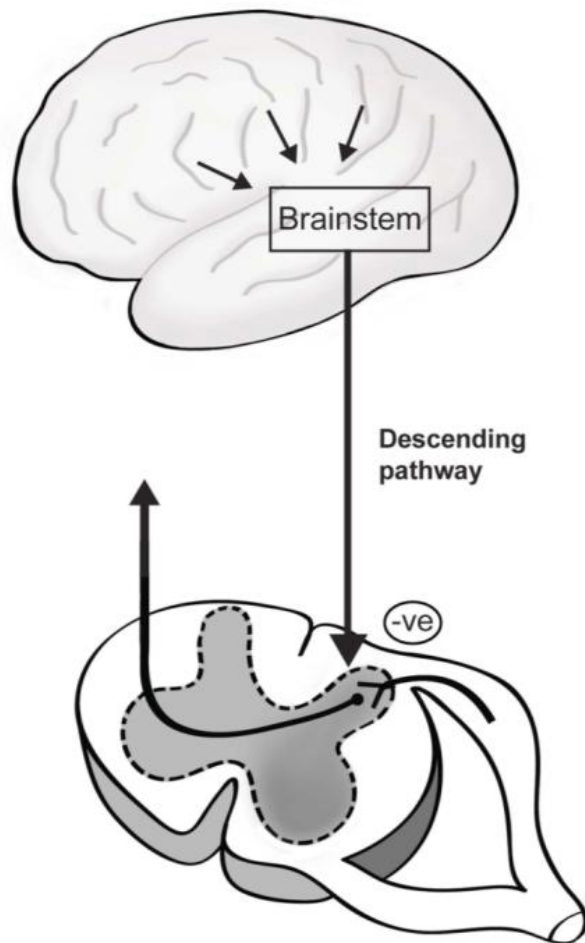
Second nerve travels up  
opposite side of spinal  
cord

# BRAIN (3<sup>RD</sup> STEP)



- Thalamus is the 2<sup>nd</sup> relay station
- Connections to many parts of brain
  - Cortex
  - Limbic system
  - Brainstem
- Pain perception occurs at the cortex

# MODULATION (4<sup>TH</sup> STEP)



- Descending pathway from brain to dorsal horn
- Usually decreases pain signal



# SUMMARY

- Nociception is not the same as pain
  - Many factors affects how we feel pain
- Knowing the pain pathway is important because different treatments work on different parts of the pain pathway
- It is important to differentiate between different types of pain
  - **Neuropathic** pain & **nociceptive** pain are different and need different treatments

# SUMMARY

- **Acute** pain & **chronic** pain are not the same;
  - **Acute pain is a symptom of tissue damage**
  - **Chronic pain is a disease of the nervous system; there is no ongoing tissue damage**
- Pain has to be managed using a **multidisciplinary, multimodal** approach;
  - Treatment for **acute pain** is **short term** and can stop when the injury heals and the pain resolves
  - Treatment for **chronic pain** is **long term** and aim is improvement of function and quality of life

# PAIN ASSESSMENT

# WHY ASSESS / MEASURE PAIN?

- Produce a baseline to assess therapeutic interventions e.g. administration of analgesic drugs
- Facilitate communication between staff looking after the patient
- For documentation



# HOW TO ASSESS PAIN:

- Important to
  - Listen and believe the patient
- Take a pain history
  - “Tell me about your pain.....”



# HOW TO ASSESS PAIN

## **P:** Place or site of pain

“where does it hurt?”

Record on a body chart



## **A:** Aggravating factors

“what makes your pain worse?”

## **I:** Intensity

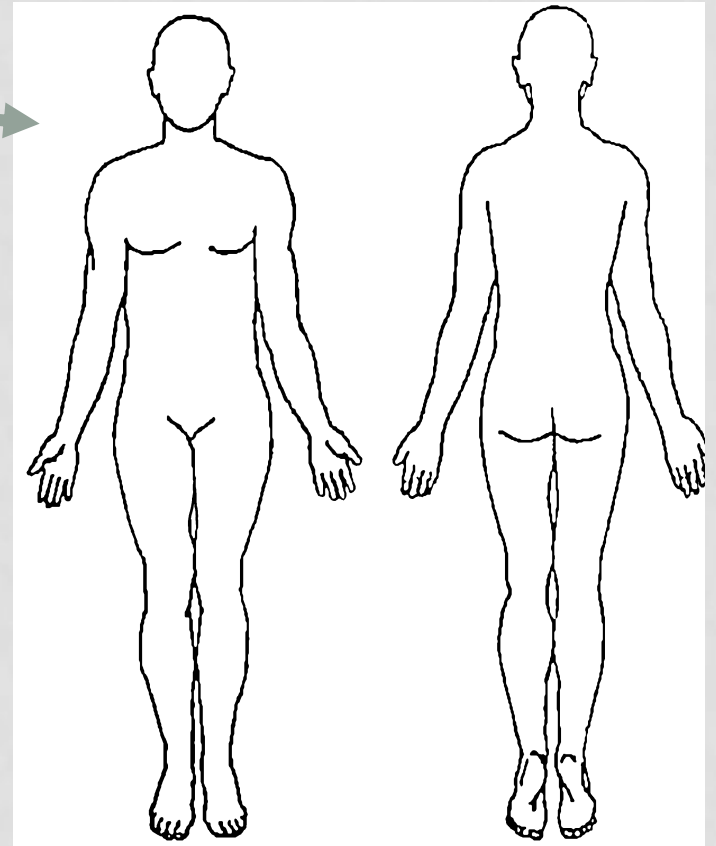
“How bad is the pain?”

“What is the pain score?”

## **N:** Nature and neutralising factors

“what does it feel like?”

“What makes the pain better?”



# CLINICAL TECHNIQUES FOR MEASUREMENT OF PAIN

- **Self reporting by the patient**
  - Gold standard
  - Best method
- **Observer assessment**
  - Observation of behaviour and vital signs
  - Functional assessment

# MOH pain scale

(Combined Visual Analogue / Numerical Rating scale):

used for adults and children >7yrs



On a scale of '0' to '10' (show the pain scale).

If '0' = no pain, and 10 = worst pain you can imagine, what number would you give your pain?

Patient is asked to slide the indicator along the scale to show the pain score, which is recorded as a number (0 to 10)



# OTHER PAIN SCALES

- **Wong Baker Faces** scale (self-report pain scale)
- **FLACC** scale (observational pain scale)
- May be used in children/infants and in cognitively impaired adults

# WONG BAKER FACES PAIN RATING SCALE

## Wong-Baker FACES® Pain Rating Scale



**0**

No  
Hurt



**2**

Hurts  
Little Bit



**4**

Hurts  
Little More



**6**

Hurts  
Even More



**8**

Hurts  
Whole Lot



**10**

Hurts  
Worst

[www.wongbakerFACES.org](http://www.wongbakerFACES.org)

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Explain to the child that each face is for a person who has no pain (hurt) or some pain or a lot of pain.

Ask the child to choose the face that best depicts the pain he/she is experiencing.

# FLACC SCALE

F  
L  
A  
C  
C

Category	Scoring		
	0	1	2
Face	No particular expression or smile	Occasional grimace or frown, withdrawn, disinterested	Frequent to constant quivering chin, clenched jaw
Legs	Normal position or relaxed	Uneasy, restless, tense	Kicking or legs drawn up
Activity	Lying quietly, normal position, moves easily	Squirming, shifting back and forth, tense	Arched, rigid or jerking
Cry	No cry (awake or asleep)	Moans or whimpers; occasional complaint	Crying steadily, screams or sobs, frequent complaints
Consolability	Content, relaxed	Reassured by occasional touching, hugging or being talked to, distractable	Difficult to console

Each of the five categories (F) face, (L) legs, (A) activity, (C) cry and (C) consolability is scored from 0-2, resulting in total range of 0-10

# SELECTION OF PAIN ASSESSMENT TOOL

- Recommendation by Ministry of Health, Malaysia

Age	Scale
<b>Adult</b>	MOH pain scale (Combined Visual Analogue / Numerical Rating scale)
<b>Paediatrics</b>	
1 month-3 years	FLACC scale
3 -7 years	Wong Baker faces scale
> 7 years	MOH pain scale

\*Always use the same tool for the same patient

# WHEN SHOULD PAIN BE ASSESSED?

1. **As the 5<sup>th</sup> vital signs during routine observation of BP, HR, RR, and temperature**
2. ½ to 1 hour after administration of analgesics and nursing intervention for pain relief
3. During and after any painful procedures in the ward e.g. wound dressing
4. Whenever the patient complains of pain



# WHOSE PAIN SHOULD BE ASSESSED?

INPATIENTS  
OUTPATIENTS  
AMBULATORY PATIENTS  
BEDRIDDEN PATIENTS  
**ALL PATIENTS!**



# WHERE IS PAIN ASSESSMENT DONE?

HOSPITALS  
KLINIK KESIHATAN  
PROCEDURE ROOM  
HOME (HOME VISIT)

**EVERYWHERE!**



# WHO DOES PAIN ASSESSMENT?

NURSES

DOCTORS

STUDENTS: MEDICAL & NURSING

MEDICAL ASSISTANTS

PHYSIOTHERAPISTS

OCCUPATIONAL THERAPISTS

PHARMACISTS

**EVERYONE!**





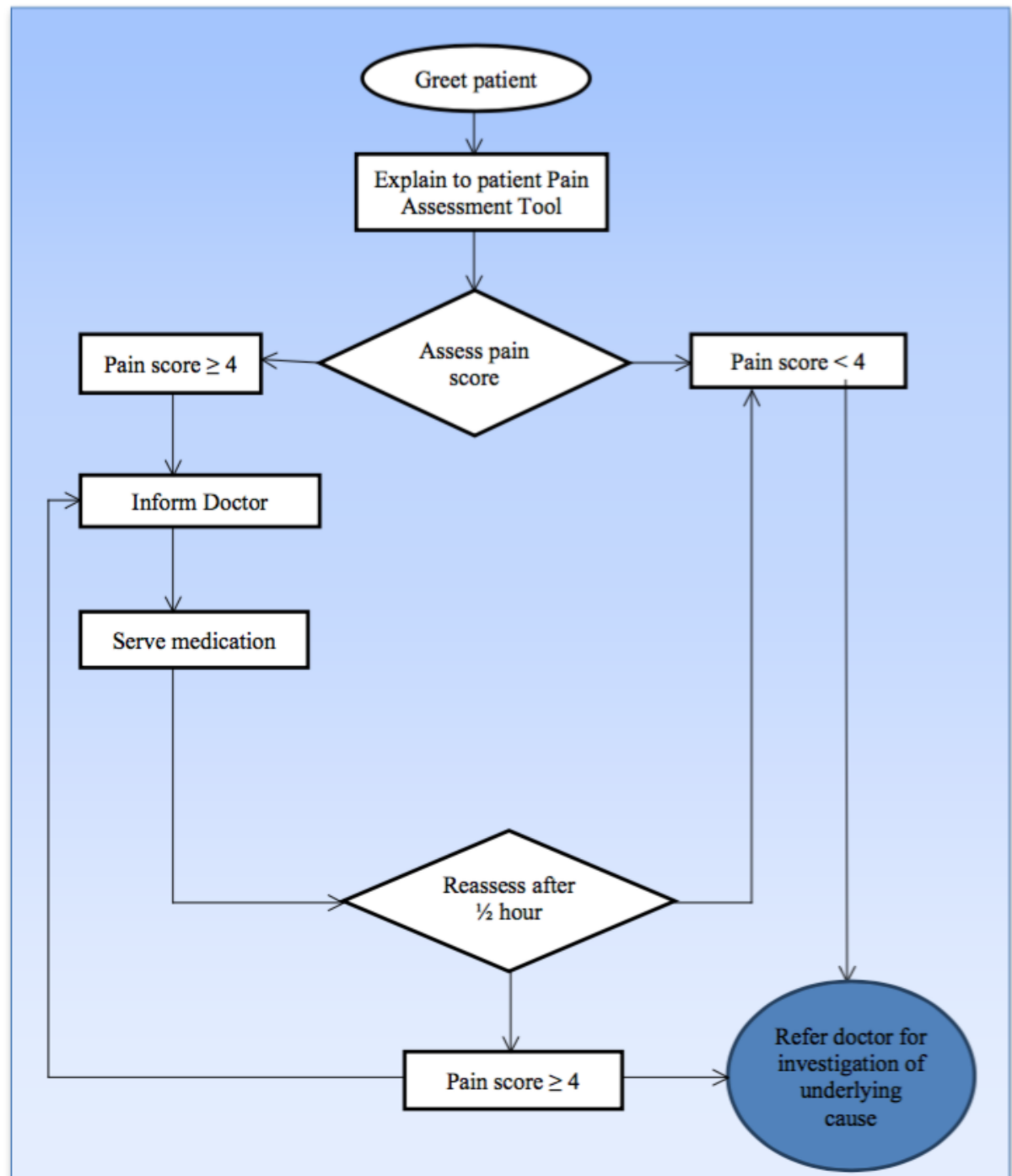
# Everywhere... everyone...



P5VS: Primary Care training module

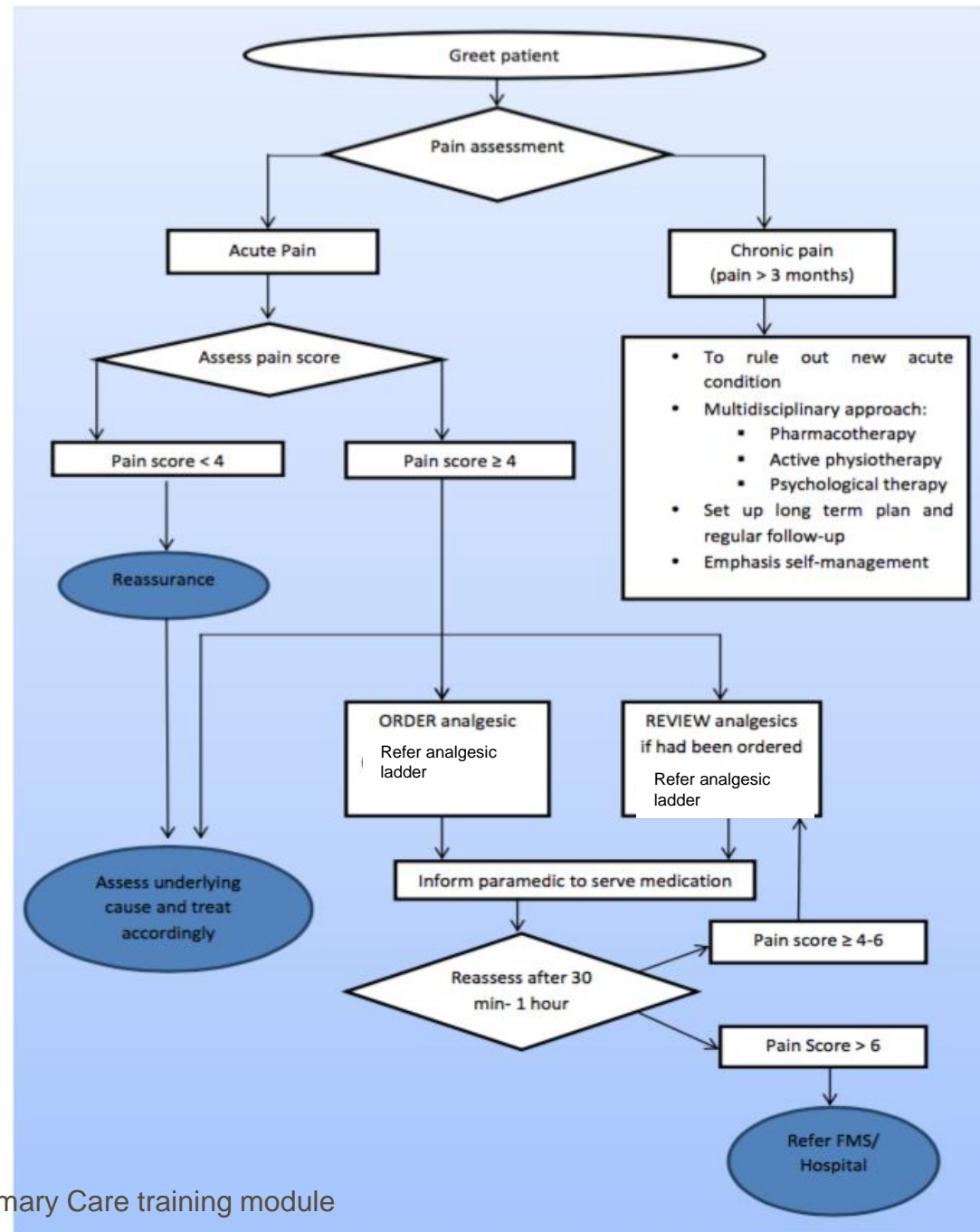
# PAIN AS THE 5TH VITAL SIGN:

## FLOW CHART FOR PAIN MANAGEMENT IN ADULT PATIENTS (PARAMEDICS)



# PAIN AS THE 5TH VITAL SIGN:

## FLOW CHART FOR PAIN MANAGEMENT IN ADULT PATIENTS (DOCTORS)



# MANAGEMENT OF ACUTE PAIN

# OVERVIEW OF PAIN MANAGEMENT

- Types of pain treatments:
- Non-pharmacological (Non-drug)
- Pharmacological (Drug)

# NON- DRUG TREATMENTS

- Physical :
  - Rest, Ice, Compression, Elevation (RICE)
  - Surgery
  - Physiotherapy
  - Acupuncture, massage
- Psychological
  - Explanation; Patient and caregiver education and support
  - Reassurance
  - Counselling
  - Deep breathing / relaxation



# SOME EXAMPLES OF NON-DRUG TREATMENTS



Relaxation



Relaxation



Distraction



Distraction



Music



Guided imagery



Guided imagery

# PHYSICAL METHODS



Ice



Massage



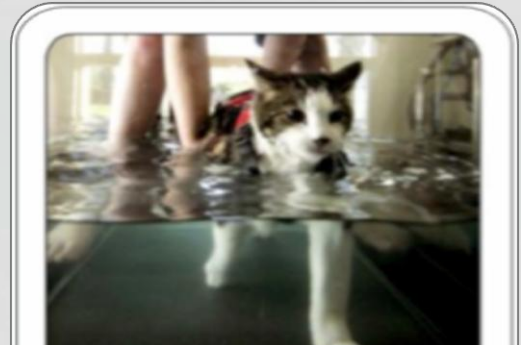
Acupuncture



TENS



Elevation



Hydrotherapy



# MEDICATIONS: NON-OPIOIDS

- Simple analgesics
  - Paracetamol
- NSAIDs
  - Non specific
    - Diclofenac
    - Ibuprofen
    - Naproxen
    - Mefenamic acid
  - Cox 2 inhibitors
    - Celecoxib
    - Etoricoxib
    - Parecoxib

# MEDICATIONS: OPIOIDS

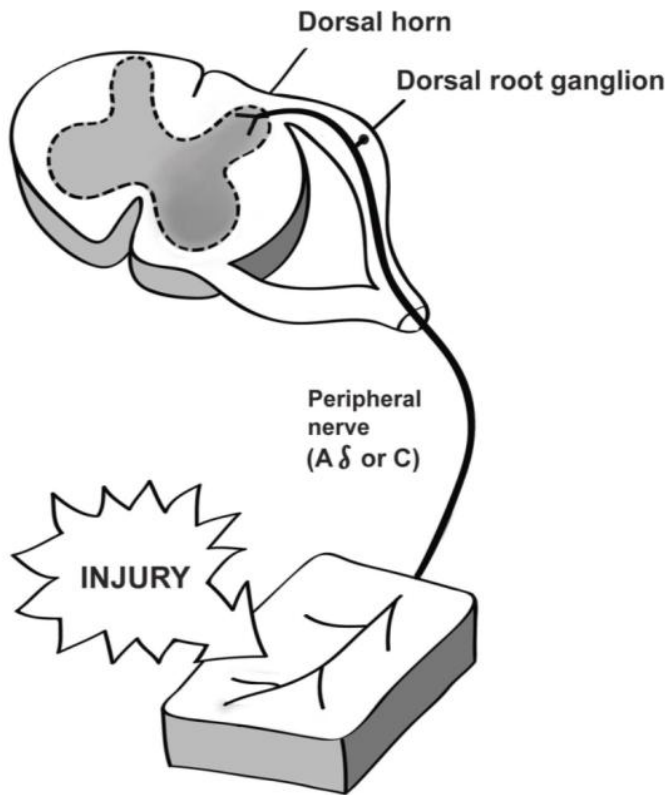
- Opioids
  - Weak opioids:
    - DF 118
    - Tramadol
  - Strong Opioids:
    - Morphine
    - Pethidine
    - Oxycodone
    - Fentanyl
- Opioid antagonist:
  - Naloxone

# ANTINEUROPATHIC AGENTS

- Antidepressants:
  - Tricyclic antidepressants (TCA)
    - Amitriptyline
    - Nortriptyline
  - SNRI
    - Duloxetine
    - Venlafaxine
- Anticonvulsants
  - Gabapentin
  - Pregabalin
  - Carbamazepine
  - Phenytoin
- Others
  - Ketamine
  - Entonox ( O<sub>2</sub>/N<sub>2</sub>O)
  - Local anaesthetics

# WHERE DO THE TREATMENTS WORK?

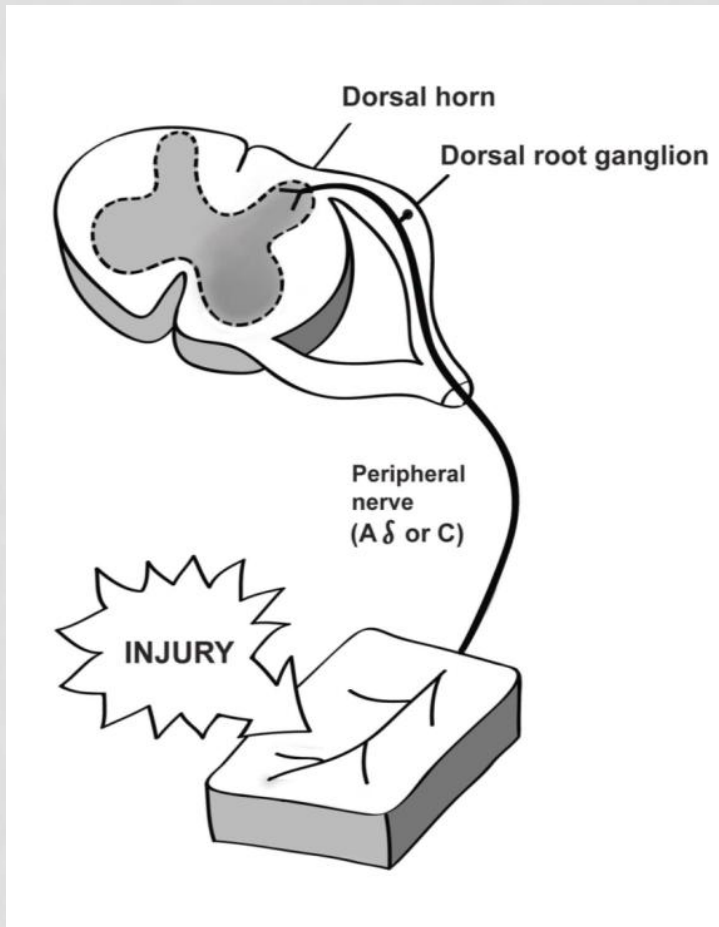
## PERIPHERY



- Non drug treatment (RICE)
  - Rest
  - Immobilisation
  - Cold compression
  - Elevation
- Drug treatment:
  - Anti-inflammatory drugs
    - NSAIDS/ COX 2 inhibitors
  - Local anaesthetic agents

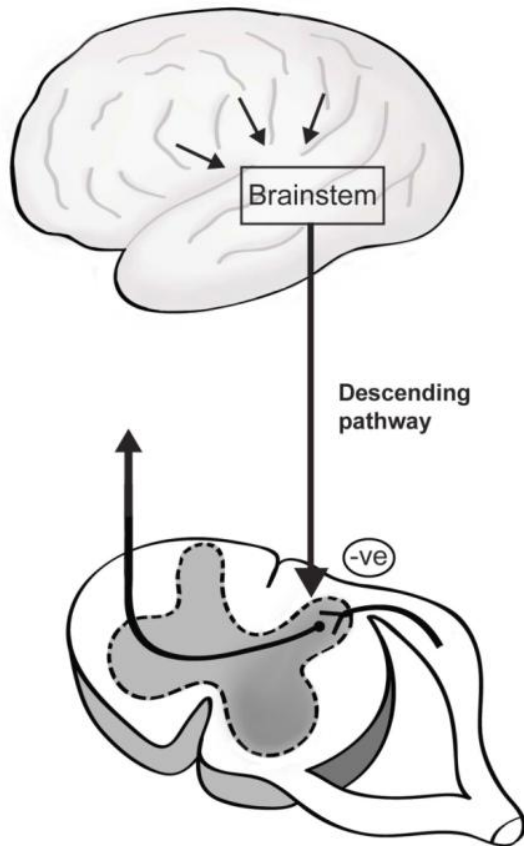
# WHERE DO THE TREATMENTS WORK?

## Spinal cord



- Non drug treatment:
  - Acupuncture
  - Massage
- Medications:
  - Local anaesthetics
  - Opioids
  - Ketamine

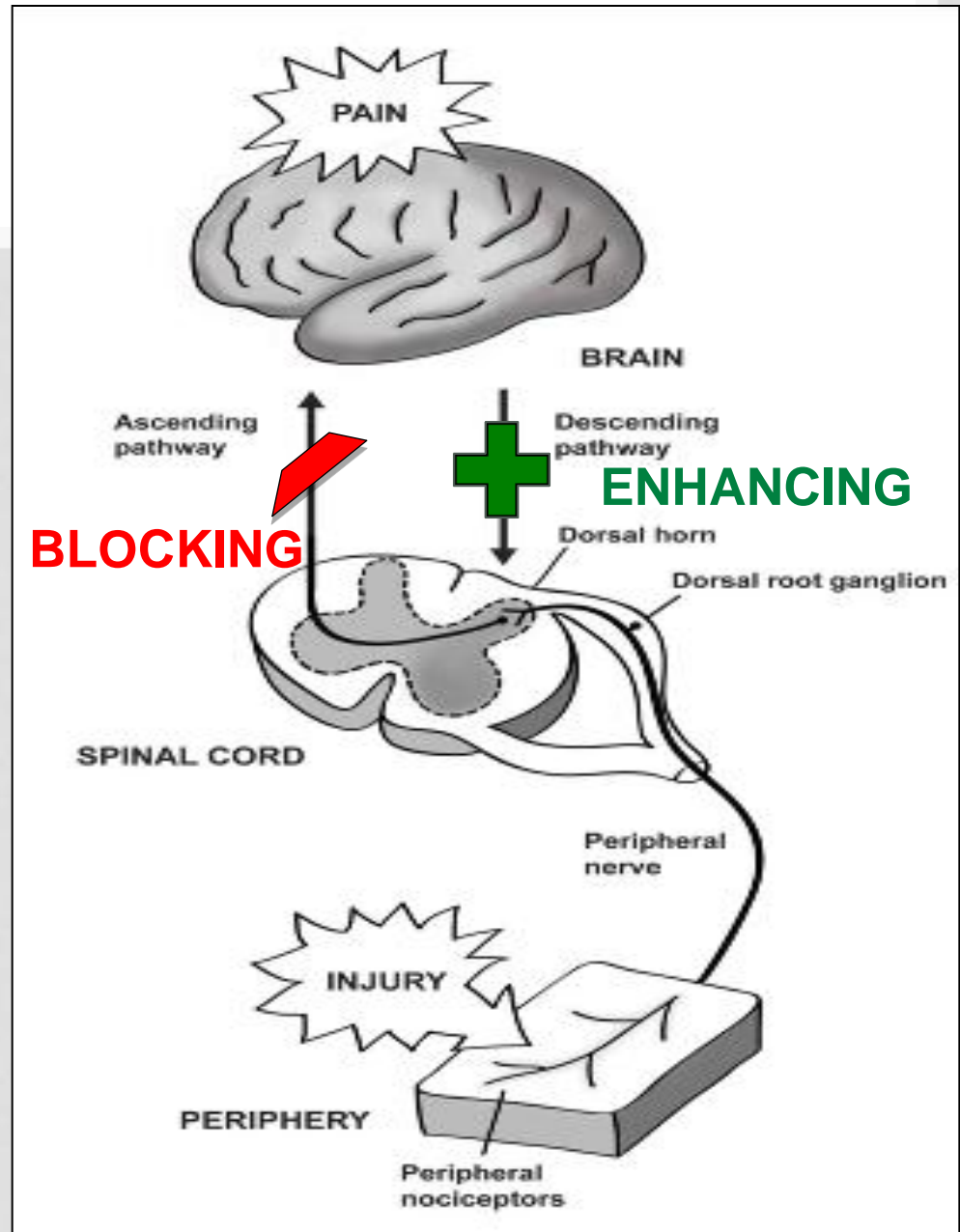
# WHERE DO THE TREATMENTS WORK? BRAIN



- Non drug treatment
  - Psychological
- Drug treatment:
  - Paracetamol
  - Opioids
  - Amitriptyline

# SUMMARY OF ANALGESIC STRATEGIES:

- Inhibit
  - ascending pain signal
- Enhance
  - descending inhibition



# Analgesic Ladder for Acute Pain Management

Prescribe the analgesic according to the pain score

				SEVERE		UNCONTROLLED
				7 - 10		Refer to hospital for further management
				Regular IV/SC Morphine 5-10mg 4H or	PRN IV/SC Morphine 5-10mg or	
				Aqueous Morphine 5-10mg 4H or	Aqueous Morphine 5-10mg or	
				IR Oxycodone 5-10mg 4-6 H	IR Oxycodone 5-10mg	
				+ PCM 1g QID +NSAID/ COX2 Inhibitor		
MODERATE						
4 - 6						
		Regular Opioid Tramadol 50-100mg tds-qid	PRN Additional Tramadol 50-100mg (max total dose: 400mg/day)			
		+PCM 1g QID +NSAID/ COX2 Inhibitor				
MILD						
1 - 3						
Regular	PRN					
No medication	PCM &/or NSAID/ COX2 Inhibitor					
Or PCM 1g QID						

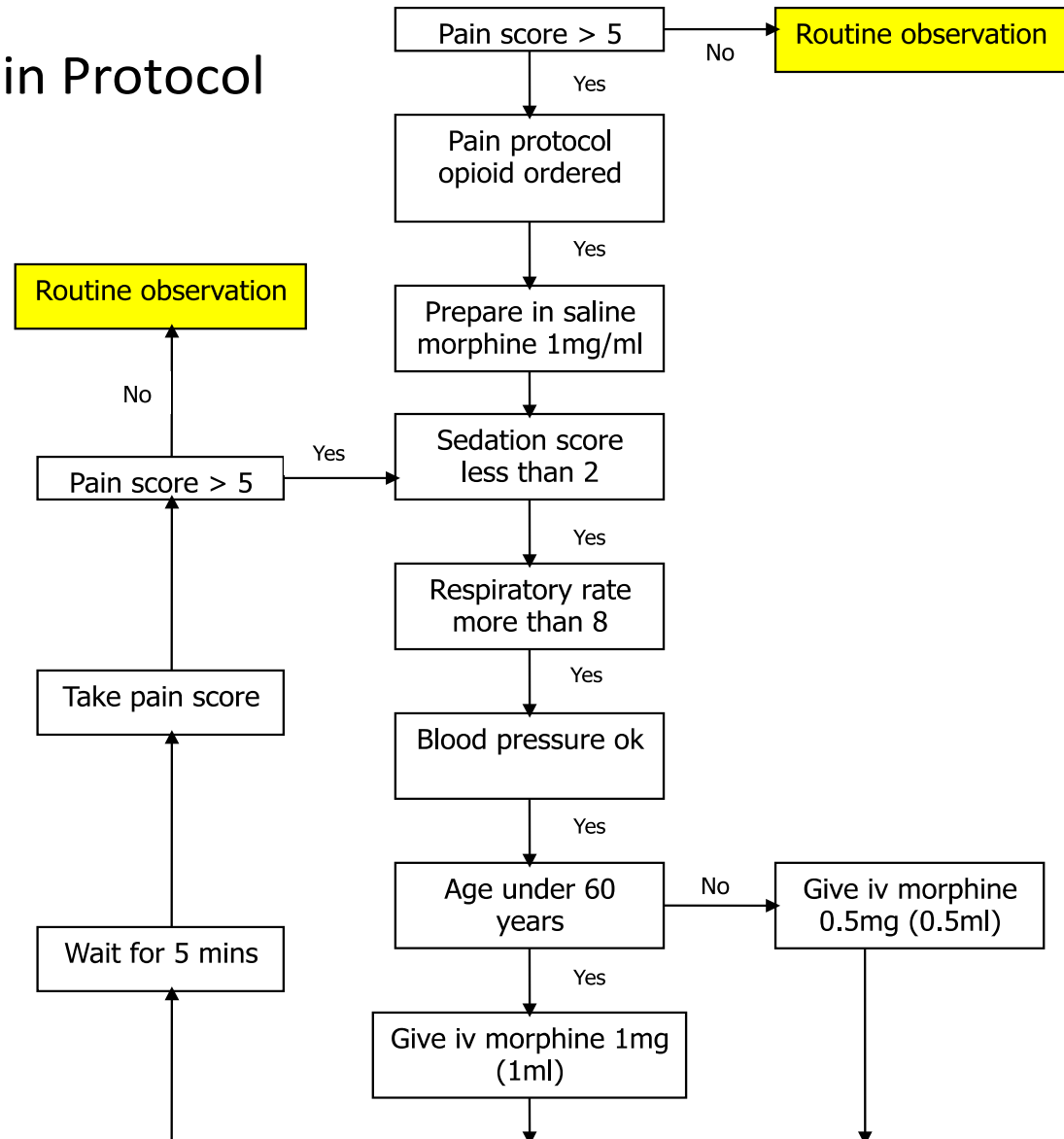


# MORPHINE PAIN PROTOCOL

- Use for rapid control of severe acute pain
- Route: IV
- Morphine dilution: 10 mg/10 ml (1mg/ml)
- Monitoring (every 5 minutes)
  - Pain score
  - Sedation score
  - Respiratory rate

# Morphine Pain Protocol

*Adapted from the Acute Pain Service, Royal Adelaide Hospital, South Australia*



# SUMMARY

## ASSESSMENT AND MANAGEMENT OF PAIN

# KEY POINTS



For Pain as the 5<sup>th</sup> Vital Sign to have an impact in improving pain management in our clinics we need:

- Proper pain assessment, using the appropriate tool
- Proper pain diagnosis
  - Acute or chronic? cancer or non-cancer?  
nociceptive or neuropathic?
- Use of both non-drug and drug treatments
- Good understanding of analgesic medications
  - What to use (what drug, what dose)
  - When to use (according to Analgesic ladder)

# KEY POINTS

- When using analgesic medications, we must monitor **Pain score and side effects**
- Aim: to **achieve reasonable pain relief without unacceptable side effects**
- When managing patients with chronic pain, we also need to focus on **functional improvement** and achievement of **goals**, not just on pain reduction
  - Often functional improvement can occur even without much reduction in pain score

THANK YOU FOR YOUR  
ATTENTION

# PAIN IN PAEDIATRIC PATIENTS

# FACTS WE KNOW TODAY

- Neonates and even premature babies can and **DO** feel pain
- Pain experienced by children is **NO** less and may even be more than that experienced by adults
- Children react to and report pain in different ways e.g. becomes quiet or withdrawn instead of crying
- Pain in children is still under-recognised and undertreated
- Lots of unwarranted fears on the use of pain medication in children especially opioids



# ASSESSING PAIN IN CHILDREN

<b>Q</b>	<b>Q</b> uestion the child
<b>U</b>	<b>U</b> se pain rating scales
<b>E</b>	<b>E</b> valuate behavioural and physiological changes
<b>S</b>	<b>S</b> ecure the parents' involvement
<b>T</b>	<b>T</b> ake the cause of pain into account
<b>T</b>	<b>T</b> ake action and evaluate results

# 1. QUESTION THE CHILD

- Important to listen and believe the child
- Taking a pain history:

**P:** Place or site of pain

“where does it hurt?”

**A:** Aggravating factors

“what makes your pain worse?”

**I:** Intensity

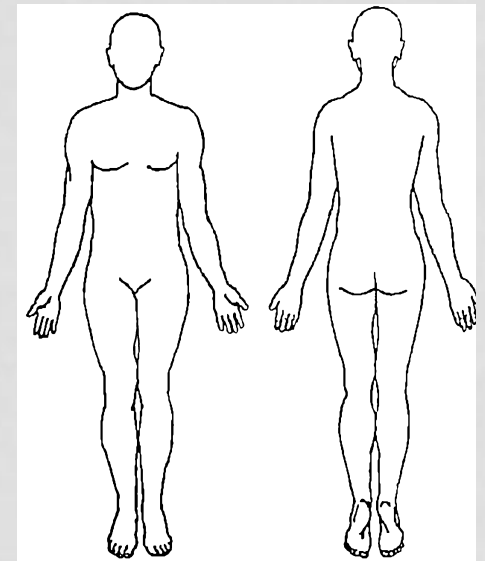
“How bad is the pain?”

**N:** Nature and neutralising factors

“what does it feel like”

(a body chart might help children describe their pain)

“What makes the pain better?”



## 2. USE PAIN RATING SCALES

- The tool chosen to assess must be individualised
- Children >4 years can reliably self report pain
- In younger children or infants, assess behavioural and physiological changes
- Children >7 years can use a visual analogue scale
- These tools should never be used singly but in conjunction with parent's and physician's assessment.

### 3. EVALUATE BEHAVIOURAL AND PHYSIOLOGICAL CHANGES

- These can be used as proxy measures for pain in younger children, infants and neonates who are not able to self report
- They should never be used singly
- **Behavioural:**
  - E.g: Facial expression, crying, body posture, activity
- **Physiological:**
  - E.g. heart rate, respiratory rate, blood pressure, Oxygen saturation, palmar sweating

## 4. SECURE THE PARENTS INVOLVEMENT

- Get parents involvement in management of their child's plan
- Parents are often good judges of their child's pain
- However, if there is a discrepancy between the child and parents' report, do not over rule a child's response

## 5. TAKE THE CAUSE OF PAIN INTO ACCOUNT

- Search for any possible simple reversible causes of pain
  - e.g. A tissued line
- Anxiety may also be a cause of pain
  - Sometimes a child might cry due to separation anxiety and not pain

## 6. TAKE ACTION AND EVALUATE THE RESULTS

- Do not ignore any complaints
- If pain is present, check with patient/care giver if intervention required
- Intervention is not necessarily a medication, it can just be touching, gentle massage or hot or cold packs
- Always evaluate response after any intervention

# KEY CONCEPTS IN PAIN MANAGEMENT

- **1. 'By the ladder'**

Enabling stepwise approach to treatment (refer WHO analgesic ladder)

- **2. 'By the clock'**

Regular scheduling ensures a steady blood concentration, reducing the peaks and trough of *pro re nata* (prn) dosing

- **3. 'By the appropriate route'**

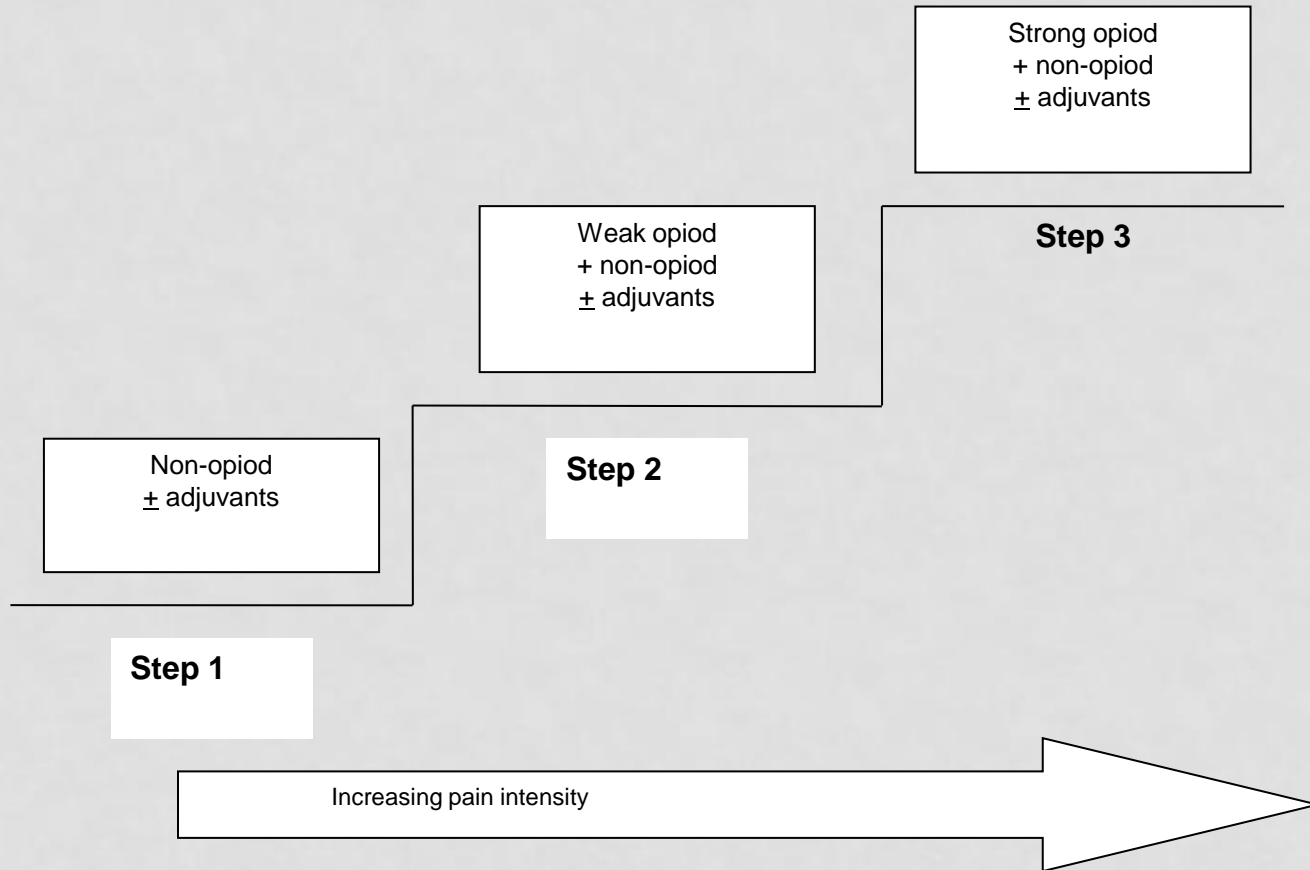
Use the least invasive route of administration. The oral route is convenient, non invasive and cost effective

- **4. 'By the child'**

Individualise treatment according to the child's pain and response to a treatment



# WHO ANALGESIC LADDER



# METHODS OF PAIN RELIEF

- **Pharmacological**
- **Non pharmacological**
  - Suitable environment
  - Distraction
  - Guided imagery
  - Information before a painful procedure
  - Music
  - Heat and cold packs
  - Massage and physical therapy

# PHARMACOLOGICAL

## **Non Opioid analgesics:**

- Paracetamol
- NSAIDS
  - Ibuprofen, Naproxen, Diclofenac, Meloxicam

## **Opioid analgesics:**

- Weak opioids: Tramadol
- Strong Opioids: Pethidine, Morphine

# PARACETAMOL

- The most commonly used analgesic in children
- Excellent safety profile and lack of significant side effects
- Used for mild to moderate pain
- For more severe pain, can be combined with an opioid analgesic
- Total daily dose not to exceed
  - 90 mg/kg/day in children and
  - 60 mg/kg/day in infants
- Avoid more frequently than 4 hourly dosing
- Oral better than rectal
  - absorption of rectal paracetamol slow
  - somewhat variable
  - comparatively inefficient

# NSAIDS

- Ibuprofen
  - Indicated for mild to moderate pain
- Children appear to have a lower incidence of renal and gastrointestinal side effects when compared to adults even with chronic administration

# OPIOIDS

- Very useful for treatment of pain in patients of all ages
- Provide excellent analgesia with a wide margin of safety for a vast majority of children
- Routes of administration: oral , IV, rectal, transdermal or transmucosal
- Oral and IV route preferable
- Avoid intramuscular injections unless absolutely necessary as children will deny they are in pain to avoid a shot.

# CONCLUSION

- Infants and young children can and do feel pain
- Untreated pain can have a negative impact and long term consequences
- Pain in paediatric patient needs to be recognised and managed
- Tools for assessment is dependent not only on age of the child but also other factors
- We need to treat children in a more humane manner and be responsible to eliminate or assuage pain

THANK YOU FOR YOUR  
ATTENTION