



GORDON'S FUNCTIONAL HEALTH PATTERNS

An expression of biopsychological integration; thus, no one pattern can be understood without knowledge of the other patterns.

[1] Mas (proponent)

A theoretical framework for health assessment that captures an individual's holistic health status and promote health.

[2] Functional Pattern represents a healthy set of behaviors

[3] Dysfunctional Pattern (described by Nursing Diagnoses) may occur with disease and may also lead to disease.

The judgment of whether a pattern is functional or dysfunctional is made by comparing the assessment to one or more of the following:

1. Individual baseline
2. Established Norms for Age Group
3. Cultural, Social, or other Norms

[4] Health Perception - Health Management Pattern

Describes the client's perceived pattern of health and well-being and how health is managed.

Including:

- Perception of health status and its relevance to current activities and future planning
- Individual's health risk management and general healthcare behavior

Questions:

- How has general health been? Perception
- Any colds in the past year? If appropriate, absences from work/school? Perception
- Most important things done to keep healthy? Did these things make a difference to health (include family folk remedies, if appropriate)? Breast self-examination? Use cigarettes? Drugs? Ever had a drinking problem? When was your last drink? Management
- Accidents (home, work, driving)? Falls? Perception
- In past, easy to find ways to follow suggestions of doctors or nurses?
- If appropriate, what do you think caused this illness? Action taken when symptoms perceived? Results of action?
- If appropriate, what is important to you while you are here? How can we be most helpful?

[5] Nutrition - Metabolic Pattern

Pattern of food and fluid consumption relative to metabolic need and pattern indicators of local nutrient supply

Including:

- Daily eating types
- Type and quantity of food and fluids consumed
- Food preferences
- Use of nutrient or vitamin supplements
- Breastfeeding and infant feeding patterns
- Reports of skin lesions, ability to heal

- Measures body temperature, height, and weight
- General appearance of well-being and the condition of skin, hair, nails, mucous membranes, and teeth

Questions:

- Typical daily food intake? Describe. Supplements?
- Typical daily fluid intake? Describe.
- Weight loss/gain? Amount? Height loss/gain? Amount?
- Appetite?
- Food or eating discomfort? Swallowing? Diet restrictions? If appropriate, breastfeeding? Problems with breastfeeding?
- Heal well or poorly?
- Skin problems, such as lesions, dryness?
- Dental problems?

[6] Elimination Pattern

Patterns of excretory function (bowel, bladder, and skin)

Includes

0.5-1ml/kg/hr
↳ Normal Urine Vol.

- Perceived regularity of excretory function
- Use of routines or laxatives for bowel elimination
- Changes or disturbances in time, pattern, mode of excretion, quality, or quantity of elimination.
- Devices used to control excretion

Questions:

- Bowel elimination pattern? Describe. Frequency? Character? Discomfort? Problem in control? Laxatives?
- Urinary elimination pattern? Describe. Frequency? Discomfort? Problem in control?
- Excess perspiration? Odor problems?

[7] Activity- Exercise Pattern

Pattern of exercise, activity, leisure, and recreation

Includes:

- Activities of daily living requiring energy expenditure (hygiene, cooking, shopping, eating, working, and home maintenance)
- Type, quantity, and quality of exercise (sports)
- Leisure patterns and activities the client undertakes as recreation with a group or as an individual
- Limitations in performing activities
- Factors that interfere with desired or expected activities
 - o Neuromuscular deficits
 - o Dyspnea
 - o Angina
 - o Muscle cramps

Questions:

- Sufficient energy for desired/required activities?
 - Exercise pattern? Type? Regularity?
 - Spare time (leisure) activities? Child's play activities?
 - Perceived ability for the following (code level according to Functional Levels Code below)
- | | | | |
|--------------|-------|------------------|-------|
| Feeding | _____ | Grooming | _____ |
| Bathing | _____ | General Mobility | _____ |
| Toileting | _____ | Cooking | _____ |
| Bed Mobility | _____ | Home Maintenance | _____ |
| Dressing | _____ | Shopping | _____ |



| Functional Levels Code | |
|------------------------|--|
| Level 0 | Full self-care |
| Level I | Requires use of equipment or device |
| Level II | Requires assistance or supervision of another person |
| Level III | Requires assistance or supervision of another person and equipment or device |
| Level IV | Is dependent and does not participate |

[8] Sleep - Rest Pattern

Patterns of sleep, rest, and relaxation

Includes:

- Perception of the quality and quantity of sleep during the 24-hour day
- Energy level after sleep
- Sleep disturbances
- Aids to sleep, such as medications or nighttime routines

Questions:

- Generally rested and ready for daily activities after sleep?
- Sleep-onset problems? Aids? Dreams (nightmares)?
- Early awakening?
- Rest/relaxation periods?

[9] Cognitive Perceptual Pattern

Sensory-perceptual and cognitive pattern

Includes:

- Adequacy of sensory modes (vision, hearing, taste, touch, and smell)
- Compensation or prostheses currently used
- Reports of pain perception and how pain is managed
- Cognitive functional abilities: language, memory, judgment, and decision-making

Questions:

- Hearing difficulty? Aid?
- Vision? Wear glasses? Last checked?
- Any change in memory lately?
- Easy/difficult to make decisions?
- Easiest way for you to learn things? Any difficulty learning?
- Any discomfort? Pain? How do you manage it?

[10] Self - perception - self - concept - pattern

Self-concept pattern and perception of mood state

Includes:

- Individual's attitudes about self, perception of abilities (cognitive, affective, or physical), body image, identity, general sense of worth, and general emotional pattern
- Body posture and movement, eye contact, voice, and speech pattern

Questions:

- How would you describe yourself? Most of the time, do you feel good (not so good) about yourself?
- Changes in your body or the things you can do? Are these problematic for you?
- Changes in way you feel about yourself or your body (since illness started)?
- Find things frequently make you angry? Annoyed?
- Fearful? Anxious? Depressed? What helps?
- Ever feel you lose hope? Not able to control things in life? What helps?

[10] Role - Relationship Pattern

Pattern of role engagement and relationship

Includes:

- Perception of major role and responsibilities in the current life situation
- Satisfaction or disturbances in family, work, or social relationships and responsibilities

Question:

- Live alone? Family? Family structure? Draw diagram.
- Any family problems you have difficulty handling (nuclear/extended)?
- How does the family usually handle problems?
- Family depend on you for things? How are you managing?
- If appropriate, how do family/others feel about your illness/hospitalization?
- If appropriate, problems with children? Difficulty handling?
- Belong to social groups? Close friends? Feel lonely (frequency)?

[11] Sexual - reproductive pattern

Pattern of satisfaction or dissatisfaction with sexuality and the reproductive pattern

Includes:

- Individual's perceived satisfaction or reports of disturbances in his or her sexuality
- Female's reproductive stage (premenopause or post menopause) and perceived problem

Question:

- If appropriate to age/situation, sexual relationships satisfying? Changes? Problems?
- If appropriate, use of contraceptives? Problems?
- For females, when menstruation started? Last menstrual period? Menstrual problems? Para? Gravida?

[12] Coping - stress - tolerance pattern

General coping pattern and the effectiveness of the pattern in terms of stress tolerance

Includes:

- Individual's reserve or capacity to resist challenge to self-integrity
- Modes of handling stress
- Family or other support systems
- Perceived ability to manage stressful situations



Question:

- Any big changes in your life in the last year or two? Crisis?
- Who's most helpful in talking things over? Available to you now?
- Tense a lot of the time? What helps? Use any medicines, drugs, alcohol?
- When (if) problems occur in your life, how do you handle them?
- Most of the time, is this ways) successful?

[13] Value - belief pattern

Patterns of values, goals, or beliefs (including spiritual)

Including:

- What is perceived as important in life
- Quality of life
- Perceived conflicts in values, beliefs, or expectations that are health-related

Question:

- Generally get things you want out of life? Important plans for the future?
- Religion important in your life? If appropriate, does this help when difficulties arise?
- If appropriate, will being here interfere with any religious practices?

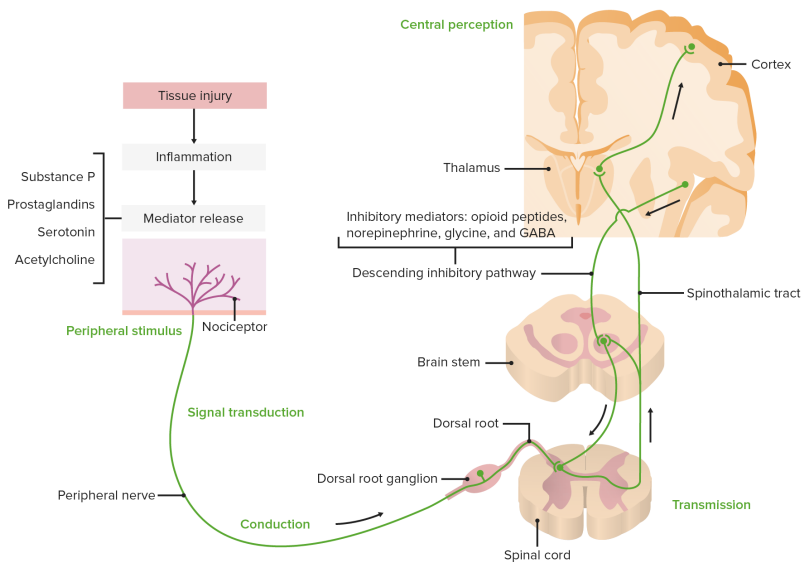
ASSESSING PAIN

'Whatever the person says it is, whenever they say it does.'

- The **[14] 5th** vital sign
- A symptom; subjective
- An **[15] Unpleasant** sensory and emotional experience associated with actual or potential tissue damage

Structure and Function of Pain

[16] Pain – the process of transmission and perception of pain



- a. **[17] Transduction**
- Response to a noxious stimulus
 - Can be mechanical, thermal, or chemical

- **[18]** _____ – receptors (in skin, subcutaneous tissue, joints, walls of arteries, and most internal organs) that respond to painful stimuli
- **[19]** _____ – activate or sensitize the nociceptors
 - o Bradykinin
 - o Prostaglandin
 - o Substance P
 - o Histamine
 - o Serotonin
 - o Cytokines

b. **[20] Transmission**

Transmission of nerve impulses to the spinal cord and brain

- Impulses travel through primary afferent nerve fibers
 - o **[21] C-fibers** _____ – unmyelinated, slow-conducting fibers that transmit dull, aching pain (mechanical, thermal, and chemical stimuli)
 - o **[22] A delta fibers** _____ – myelinated, fast-conducting fibers that transmit sharp, localized, pain (mainly mechanical)
- Neurotransmitters and Neuropeptides**
 - Excitatory amino acids: Glutamine and aspartate
 - Excitatory Neuropeptides: Substance P
 - Facilitate transmission of impulse to the dorsal horn
 - Inhibitory Amino Acid: GABA
 - Inhibitory Neuropeptide: Endogenous opioids
 - Inhibit transmission of impulse

III. **Dorsal horn of SC then to the**

- Thalamus
 - The thalamus acts as a central relay station, receiving, integrating, and transmitting pain (nociceptive) information from the body to the cerebral cortex.
- Reticular Formation
 - To initiate immediate alertness, initiate behavioral defense mechanisms, and regulate autonomic responses to noxious stimuli
- Mesencephalon/Midbrain
 - Pain is transmitted to the midbrain primarily for processing, modulation, and generating emotional or behavioral responses to noxious stimuli.
- Hypothalamus
 - This pathway facilitates essential survival functions, including stress responses, changes in temperature regulation, sleep disturbances, and the



affective (emotional) suffering associated with pain.

- IV. Somatosensory Cortex
 - a. Perceives and interprets physical sensation
- V. Limbic System
 - a. Allows for emotional response to stimuli
- VI. Frontal Cortex
 - a. Thought and reason, and perception of pain

c. [23] Perception
Awareness of pain involves both the cortical and the limbic system structures

[24] Pain Threshold – Painful stimulus is perceived as painful, consistent from one person to the next

[25] Sensitization – the amount of pain one can endure, varies greatly
Hyperalgesia (increased response to painful stimulus)
Allodynia (painful response to non painful stimuli)
 Psychosocial and cultural factors and past experiences influence pain perception

- d. [26] Central Sensitization
Nerve transmission from the dorsal horn is modulated by descending *inhibitory input*:
- o Peripheral
 - o Spinal
 - o Supraspinal

Inhibitory substances bind to primary afferent receptors and dorsal horn neurons to inhibit the transmission of impulse.

Gate-control Theory of Pain Modulation
proposes that impulses can be blocked by non-painful somatic stimuli. Impulses compete for transmission.

- e. [27] _____
Peripheral sensitization occurs with prolonged exposure to noxious stimuli. The result is a lower threshold of pain, leading:
- o hyperalgesia (increased response to painful stimuli)
 - o allodynia (painful response to nonpainful stimuli).

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| <i>Duration</i> | Persists beyond expected healing time Continuous, intermittent, with or without acute exacerbation |
| <i>Effects</i> | Parasympathetic response; Normal vital signs; Dry, warm skin Depressed and Withdrawn No protective behaviors |
| [30] <u>Cancer/Malignant Pain</u> | Pain associated with cancer Cancer pain arises from complex mechanisms, primarily tumor-induced tissue destruction, inflammation, and nerve damage (neuropathic) or compression. It is driven by tumor-released chemicals, acidosis, and immune cell interaction that sensitize sensory nerves, leading to persistent, often severe pain. Intractable pain – Pain that is resistant to treatment |
| <i>Cause</i> | Associated with underlying malignancy, diagnostic procedure, or disease treatment |
| <i>Duration</i> | May be acute or chronic Pain level strongly correlates with the degree of pathology |
| <i>Effects</i> | Variable depending on location and duration |
| [31] <u>Non Cancer Chronic Pain</u> | Persistent pain not associated with malignancy; |
| <i>Cause</i> | Associated with chronic disease or no identifiable cause Osteoarthritis, chronic low back pain, and neuropathic disorders |
| <i>Duration</i> | Prolonged Possibly lifelong |
| <i>Effects</i> | Pain, ranging from mild to excruciating and possibly affecting any system or region |
| [32] <u>Chronic Pain Syndrome</u> | the patient can no longer function and her or his entire life is centered on finding pain relief (palliation) |
| <i>Cause</i> | Chronic pain that consumes and incapacitates patient |
| <i>Duration</i> | Prolonged Possibly lifelong |
| <i>Effects</i> | Psychosocial dysfunction (anger, depression, anxiety, substance abuse) May stress personal and work relationships |

Pain Classification

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| [28] <u>Acute Pain</u> | lasts the expected recovery time and serves as a protective mechanism in response to an actual or potential threat to injury <i>CNS</i> |
| <i>Cause</i> | Injury or pathology Nociception and/or sensitized central neurons |
| <i>Duration</i> | Self-limiting, resolves with healing |
| <i>Effects</i> | Activates autonomic nervous system Protective responses |
| [29] <u>Chronic Pain</u> | defined as pain enduring for 6 months or longer. Chronic pain endures beyond expected recovery time. <i>PNS</i> Complication: Depression |
| <i>Cause</i> | May or may not be associated with pathology |

Nociceptive and Neuropathic Pain

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| [33] <u>Nociceptive</u> Results from exposure to noxious stimuli, causing visceral or somatic pain | | |
| | [34] <u>Visceral Pain</u> | [35] <u>Somatic Pain</u> |
| <i>Cause</i> | Overdistension, spasms, ischemia, inflammation, or traction of organs <i>Diffuse neurons</i> | Superficial Somatic: <i>A delta fibers</i> Originates in the skin or mucous membranes from external stimuli such as sunburn; chemical and thermal burns; or injury to the skin, such as lacerations or contusions Deep Somatic: <i>C-fiber</i> muscles, bones, and joints from overuse, |



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| | | injury ischemia, cramping, or inflammation; arthritis, tendinitis, and sprains |
| Characteristics | <p>Pain can be localized or diffused; can be deep or sharp</p> <p><u>[36] Referred Pain</u> – pain felt at a site other than at the site of origin</p> <p><u>[37] Radiating Pain</u> – Pain beginning in one area and extend to others</p> | <p><u>Superficial Somatic:</u> Very localized; Sharp, pricking, or burning</p> <p><u>Deep Somatic:</u> localized or diffuse and radiating and described as dull, achy, or cramping</p> |
| Associated Symptoms | Nausea, Vomiting, Malaise, Sweating, Tenderness, and Muscle spasm | <p><u>Superficial Somatic:</u> Hyperalgesia, hyperesthesia, allodynia</p> <p><u>Deep Somatic:</u> autonomic response (increase pulse, blood pressure, and respiratory rate; sweating; pal- lor; dilated pupils; nausea; vomiting; dry mouth; and increased muscle tension)</p> |

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| | | <ul style="list-style-type: none"> - Burning - Cramping - Crushing - Aching - Stabbing - Shooting |
| | <u>[42] Sympathetically maintained pain</u> pain mechanism that results from sympathetic nervous stimulation | <p>Causes:</p> <ul style="list-style-type: none"> - Peripheral nerve damage - Sympathetic efferent innervation - Catecholamines <p>Characteristics:</p> <ul style="list-style-type: none"> - Constant - Burning - Stinging - Tearing |
| | <u>[43] Central Pain</u> primary lesion or dysfunction of the CNS | <p>Causes:</p> <ul style="list-style-type: none"> - Ischemia - Tumors - Trauma - Syrinx - demyelination <p>Characteristics:</p> <ul style="list-style-type: none"> - Burning - Numbing - Tingling to a shooting sensation |

Developmental Considerations

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| <u>[39] Neuropathic Pain</u> results from injury to the peripheral or central nervous system. Neuropathic pain serves no adaptive purpose and therefore is "pathological" pain. | |
| <u>[40] Mono/polyneuropathies</u> pain along one or more damaged peripheral nerves | <p>Causes:</p> <ul style="list-style-type: none"> - metabolic disorders (diabetic neuropathy) - toxins (alcoholic neuropathy or chemotherapy) - infections (human immunodeficiency virus [HIV]) - postherpetic neuralgia - trauma - compression (compartment syndrome, carpal tunnel syndrome) - Autoimmune and hereditary diseases |
| Neuroma- | <p>Characteristics:</p> <ul style="list-style-type: none"> - Continuous - Deep - Burning - Aching or bruised - Paroxysmal shock like - Abnormal skin sensitivity |
| <u>[41] Deafferentation pain</u> with loss of afferent input from damage to a peripheral nerve, ganglion, or plexus, or the CNS. | <p>Causes/ Associated condition:</p> <p><u>Phantom limb pain</u> Pain that is experienced in a missing limb</p> <p>Characteristics:</p> |

| INFANT | |
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| <i>Since the infant cannot verbalize pain, physiological and behavioral indicators are used to assess for pain in the infant.</i> | |
| PHYSIOLOGICAL CHANGES | BEHAVIORAL CHANGES |
| <p>Integumentary System: Pallor or flushing, diaphoresis, palmar sweating.</p> <p>Cardiovascular: Increased heart rate, increased blood pressure.</p> <p>Respiratory: Rapid, shallow respirations, decreased arterial oxygen saturation, and transcutaneous oxygen saturation.</p> <p>Musculoskeletal: Increased muscle tone.</p> <p>Neurological: Increased intracranial pressure, dilated pupils, decreased vagal nerve tone.</p> <p>Endocrine (hormonal release): Increased catecholamines, growth hormones, glucagon, cortisol, corticosteroids, and aldosterone.</p> <p>Metabolism: Increased plasma lactate, pyruvate, ketone bodies, and fatty acids.</p> <p>Laboratory values: Increased blood glucose (hyperglycemia)</p> | <p>Vocalization: Intense, sustained crying, whimpering, and groaning.</p> <p>Facial expression: Eye squeeze, brow bulge, open mouth, taut tongue, chin quivering, and grimaces.</p> <p>Body movements: Limb withdraw, thrashing, rigidity or flaccidity, and fist clenching.</p> <p>Sleep/wake cycle: Increased wakefulness and irritability.</p> <p>Feeding: Loss of appetite, vomiting, loss of interest and/or energy in sucking.</p> <p>Activity level: Decreased activity level; fussiness, irritability, and listlessness.</p> |



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| and corticosteroid levels and decreased pH. | |
| CHILDREN | |
| [44] | Self-report is the most accurate means for assessing pain |
| [45] | Be sure to select one that is age appropriate for your patient |
| [46] | If the child is nonverbal and unable to describe pain, detecting behavioral and/or physiological changes is essential. |
| [47] | Parents are more attuned to subtle changes in their child's behavior. <i>How do you know your child is having pain?</i> |
| [48] | Consider the pathophysiology of the underlying problem when you evaluate the child's pain. |
| [49] | After assessing the pain, develop a plan to treat the pain. |
| OLDER ADULT | |
| Assessing pain in the older patient can be challenging because of the misconceptions both patients and healthcare providers have surrounding pain and the elderly. | |
| Untreated pain increases the risk for complications such as <ul style="list-style-type: none"> - Pneumonia - Constipation - deep vein thrombosis - impaired immune function - sleep disturbances, weight loss - social isolation - depression. | Keep questions simple, specific, and in the here and now. If the patient is unable to verbally communicate, rely on physiological signs associated with pain, such: <ul style="list-style-type: none"> - increased blood pressure, heart rate, and respirations - diaphoresis - behavioral changes, such as agitation, restlessness - facial expression of pain - vocal sounds (moaning and groaning) |

| PERFORMING THE PAIN ASSESSMENT | |
|---------------------------------------|--|
| Health History | |
| Biographical Data | Patient's age, ethnicity, and religion may affect her or his perception and behavioral response to pain; Occupation may be a direct cause of the pain |
| Current Health Status | Perform a symptom analysis. The mnemonic PQRST provides a thorough description of pain. [50] What were you doing when the pain started? Does anything make it better, such as medication or a certain position? Does anything make it worse, such as movement or breathing? |

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| | <p>[51] <i>What does it feel like?</i></p> <ul style="list-style-type: none"> - Superficial somatic pain is sharp, pricking, or burning. - Deep somatic pain is dull or aching. - Visceral pain is dull, aching, or cramping. - Neuropathic pain is burning, shock-like, lancing, jabbing, squeezing, or aching. - How often are you experiencing it? <p><i>To what degree is the pain affecting your ability to perform your usual daily activities?</i></p> <p>[52] <i>Can you point to where it hurts? Does the pain occur or spread anywhere else?</i></p> <ul style="list-style-type: none"> - Localized - Referred - Projected (Transmitted) - Dermatomal - Nondermatomal <p><i>Do you have any other symptoms?</i> <u>Visceral pain</u> – related symptoms include:</p> <ul style="list-style-type: none"> - sickening feeling - nausea - vomiting - autonomic symptoms <p><u>Neuropathic pain</u> – related symptoms include:</p> <ul style="list-style-type: none"> - hyperalgesia - allodynia <p><u>Complex regional pain syndrome</u> related symptoms include:</p> <ul style="list-style-type: none"> - hyperalgesia - hyperesthesia - allodynia - autonomic changes - shin, hair, and nail changes. <p>[53] Use appropriate pain scale.</p> <p>[54] When did the pain begin?</p> <p>How long did it last?</p> <ul style="list-style-type: none"> - Brief flash: Quick pain as with needle stick. - Rhythmic pulsation: Pulsating pain as with migraine or toothache - Long-duration rhythmic: As with intestinal colic. - Plateau pain: Pain that rises then plateaus such as angina. - Paroxysmal: Such as neuropathic pain. <p>How often does it occur? Do you have times when you are pain free?</p> |
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| <p>Numeric Scale</p> | <p>The numeric scale ranges vertically from 0 to 100, with 0 being “no hurt” and 100 being “biggest hurt”</p> <ul style="list-style-type: none"> - 0 – no hurt - 1–29 – little hurt - 30–69 – middle hurt - 70–99 – big hurt - 100 – biggest hurt <p>Ages 5 years and older. uses a horizontal linear scale with numbers from 0 to 5 or 10, with 0 being “no pain” and 5 or 10 being “worst pain.”</p> |
| <p>[62]</p> | <p>Poker Chip Tool assesses pain in children 4 years of age and up.</p> <p>The nurse places red poker chips horizontally in front of the child, with the poker chips denoting “pieces of hurt.”</p> |
| <p>Word-Graphic Rating Scale</p> | <p>ages 4 to 17 years. It uses words on a horizontal linear scale to assess pain</p> <p>[_____]</p> <p>No Pain Little Pain Medium Pain Large Pain Worst Pain</p> |
| <p>Visual Analogue Scale</p> | <p>Children age 4 1/2 and older</p> <p>identify her or his pain level by marking the line in the area that represents her or his level of pain as young as 4 years</p> |
| <p>[63]</p> | <p>The child creates a body outline using colored markers or crayons.</p> |

PERFORMING THE PAIN ASSESSMENT

Physical Assessment

Purpose:

- Identify underlying cause
- Identify the complications associated with untreated pain

| <p>Use: When patients are unable to verbally communicate or who are cognitively impaired</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <p>Behavioral Pain Assessment Scales for Infants</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>[64]</p> | <p>assesses postoperative pain from 32 weeks' gestation to 20 weeks' post-term</p> <p>A score of 10 equates to the worst pain, and any score greater than 4 identifies significant pain</p> <table border="1" data-bbox="1031 473 1502 647"> <thead> <tr> <th colspan="4">CRIES Scale</th> </tr> <tr> <th></th> <th>0</th> <th>1</th> <th>2</th> </tr> </thead> <tbody> <tr> <td>Crying</td> <td>None</td> <td>High-pitched</td> <td>Inconsolable</td> </tr> <tr> <td>Requires O₂</td> <td>None</td> <td><30% FiO₂ needed</td> <td>>30% FiO₂ needed</td> </tr> <tr> <td>Increased vital signs</td> <td>Normal HR & BP</td> <td>Increased HR & BP <20%</td> <td>Increased HR & BP >20%</td> </tr> <tr> <td>Expression</td> <td>Normal</td> <td>Grimace</td> <td>Grimace & grunt</td> </tr> <tr> <td>Sleeplessness</td> <td>None</td> <td>Wakes frequently</td> <td>Awake constantly</td> </tr> </tbody> </table> | CRIES Scale | | | | | 0 | 1 | 2 | Crying | None | High-pitched | Inconsolable | Requires O ₂ | None | <30% FiO ₂ needed | >30% FiO ₂ needed | Increased vital signs | Normal HR & BP | Increased HR & BP <20% | Increased HR & BP >20% | Expression | Normal | Grimace | Grimace & grunt | Sleeplessness | None | Wakes frequently | Awake constantly | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CRIES Scale | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Crying | None | High-pitched | Inconsolable | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Requires O ₂ | None | <30% FiO ₂ needed | >30% FiO ₂ needed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Increased vital signs | Normal HR & BP | Increased HR & BP <20% | Increased HR & BP >20% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Expression | Normal | Grimace | Grimace & grunt | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sleeplessness | None | Wakes frequently | Awake constantly | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Postoperative Pain Score</p> | <p>assesses postoperative pain in infants ages 1 to 7 months</p> <p>A total score of 0 indicates worst pain, a score of 20, no pain</p> <p>10 categories (sleep, facial expression, quality of cry, spontaneous motor activity, spontaneous excitability, flexion of fingers and toes, tone, consolability, and sociability) on a scale of 0 to 2</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Neonatal Infant Pain Scale</p> | <p>Used to assess infants at an average gestational age of 33.5 weeks</p> <p>A final score of 0 identifies no pain while a score of 7 identifies worst pain</p> <table border="1" data-bbox="1031 1133 1502 1482"> <tbody> <tr> <td>Facial expression</td> <td>0 1</td> <td>Relaxed muscles Grimace</td> </tr> <tr> <td>Cry</td> <td>0 1 2</td> <td>No cry Whimper Vigorous cry</td> </tr> <tr> <td>Breathing pattern</td> <td>0 1</td> <td>Relaxed Change in breathing</td> </tr> <tr> <td>Arms</td> <td>0 1</td> <td>Relaxed Restrained</td> </tr> <tr> <td>Legs</td> <td>0 1</td> <td>Relaxed Restrained</td> </tr> <tr> <td>State of arousal</td> <td>0 1</td> <td>Asleep/awake Fussy</td> </tr> </tbody> </table> | Facial expression | 0 1 | Relaxed muscles Grimace | Cry | 0 1 2 | No cry Whimper Vigorous cry | Breathing pattern | 0 1 | Relaxed Change in breathing | Arms | 0 1 | Relaxed Restrained | Legs | 0 1 | Relaxed Restrained | State of arousal | 0 1 | Asleep/awake Fussy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Facial expression | 0 1 | Relaxed muscles Grimace | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cry | 0 1 2 | No cry Whimper Vigorous cry | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Breathing pattern | 0 1 | Relaxed Change in breathing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arms | 0 1 | Relaxed Restrained | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Legs | 0 1 | Relaxed Restrained | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| State of arousal | 0 1 | Asleep/awake Fussy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Pain Assessment Tool</p> | <p>Pain Assessment Tool (PAT) assesses pain from a gestational age of 27 weeks to full term</p> <p>A final score of 4 identifies no pain, while a score of 20 identifies worst pain</p> <table border="1" data-bbox="1031 1607 1502 2180"> <tbody> <tr> <td rowspan="3">Posture/Tone</td> <td>Normal/Relaxed</td> <td>0</td> </tr> <tr> <td>Extended</td> <td>1</td> </tr> <tr> <td>Flexed and/or Tense</td> <td>2</td> </tr> <tr> <td rowspan="2">Sleep Pattern</td> <td>Relaxed</td> <td>0</td> </tr> <tr> <td>Easily Woken</td> <td>1</td> </tr> <tr> <td rowspan="2">Expression</td> <td>Agitated or Withdrawn</td> <td>2</td> </tr> <tr> <td>Normal/Relaxed</td> <td>0</td> </tr> <tr> <td rowspan="3">Cry</td> <td>Frown</td> <td>1</td> </tr> <tr> <td>Grimace</td> <td>2</td> </tr> <tr> <td>No</td> <td>0</td> </tr> <tr> <td rowspan="3">Colour</td> <td>Yes, Consolable</td> <td>1</td> </tr> <tr> <td>Yes</td> <td>2</td> </tr> <tr> <td>Pink/Normal</td> <td>0</td> </tr> <tr> <td rowspan="3">Respirations</td> <td>Occasionally reddish/pale</td> <td>1</td> </tr> <tr> <td>Pale/Dusky/Flushed</td> <td>2</td> </tr> <tr> <td>Normal baseline rate</td> <td>0</td> </tr> <tr> <td rowspan="2">Heart Rate</td> <td>Tachypnoea</td> <td>1</td> </tr> <tr> <td>Apnoea/Splinting</td> <td>2</td> </tr> <tr> <td rowspan="3">Oxygen Saturation</td> <td>Normal baseline rate</td> <td>0</td> </tr> <tr> <td>Tachycardia</td> <td>1</td> </tr> <tr> <td>Fluctuating</td> <td>2</td> </tr> <tr> <td rowspan="3">Blood Pressure</td> <td>Normal</td> <td>0</td> </tr> <tr> <td>Fluctuating desaturation</td> <td>1</td> </tr> <tr> <td>Desaturating</td> <td>2</td> </tr> <tr> <td rowspan="3">Nurses Perception</td> <td>Normal</td> <td>0</td> </tr> <tr> <td>Fluctuates with Handling</td> <td>1</td> </tr> <tr> <td>Hypotensive/hypertensive</td> <td>2</td> </tr> <tr> <td rowspan="2">Pain with Handling</td> <td>No Pain</td> <td>0</td> </tr> <tr> <td>Pain with Handling</td> <td>1</td> </tr> <tr> <td rowspan="2">Pain Rating Scale</td> <td>Yes Pain</td> <td>2</td> </tr> </tbody> </table> | Posture/Tone | Normal/Relaxed | 0 | Extended | 1 | Flexed and/or Tense | 2 | Sleep Pattern | Relaxed | 0 | Easily Woken | 1 | Expression | Agitated or Withdrawn | 2 | Normal/Relaxed | 0 | Cry | Frown | 1 | Grimace | 2 | No | 0 | Colour | Yes, Consolable | 1 | Yes | 2 | Pink/Normal | 0 | Respirations | Occasionally reddish/pale | 1 | Pale/Dusky/Flushed | 2 | Normal baseline rate | 0 | Heart Rate | Tachypnoea | 1 | Apnoea/Splinting | 2 | Oxygen Saturation | Normal baseline rate | 0 | Tachycardia | 1 | Fluctuating | 2 | Blood Pressure | Normal | 0 | Fluctuating desaturation | 1 | Desaturating | 2 | Nurses Perception | Normal | 0 | Fluctuates with Handling | 1 | Hypotensive/hypertensive | 2 | Pain with Handling | No Pain | 0 | Pain with Handling | 1 | Pain Rating Scale | Yes Pain | 2 |
| Posture/Tone | Normal/Relaxed | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Extended | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Flexed and/or Tense | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sleep Pattern | Relaxed | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Easily Woken | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Expression | Agitated or Withdrawn | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Normal/Relaxed | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cry | Frown | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Grimace | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | No | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Colour | Yes, Consolable | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Yes | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Pink/Normal | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respirations | Occasionally reddish/pale | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Pale/Dusky/Flushed | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Normal baseline rate | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart Rate | Tachypnoea | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Apnoea/Splinting | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oxygen Saturation | Normal baseline rate | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Tachycardia | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Fluctuating | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Pressure | Normal | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Fluctuating desaturation | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Desaturating | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nurses Perception | Normal | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Fluctuates with Handling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hypotensive/hypertensive | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pain with Handling | No Pain | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Pain with Handling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pain Rating Scale | Yes Pain | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>Pain Rating Scale</p> | <p>The Pain Rating Scale (PRS) assesses pain for infants ages 1 to 36 months.</p> <p>0 - smiling, sleeping, and no change when moved or touched</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



1 - taking small amounts orally, restlessness, moving, and crying
 2 - behaviors of not eating or drinking and short periods of crying but distracted with rocking or use of pacifier.
 3 -irritable with facial grimacing and arms and/or legs shake or have jerking movements.
 4 - the baby is inconsolable, flailing with a high-pitched wailing cry
 5 - prolonged sleep periods interrupted by jerking movements, continuous crying, and shallow respirations

Assesses pain for gestational ages 28 to 40 weeks
 Grades seven categories on a scale of 0 (no pain) to 3 (worst pain)

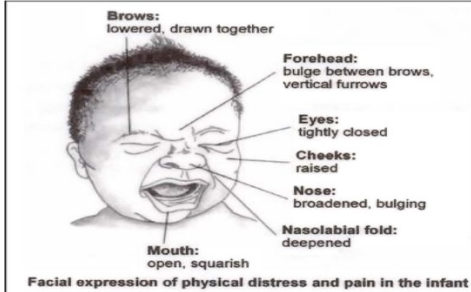
A final score of 0 identifies no pain, while a score of 21 identifies worst pain

Proforma for Premature Infant Pain Profile Assessment

Hospital identity number: _____ Age: _____
 Intervention: _____ Sex: _____
 Date: _____

| Process | Indicator | 0 | 1 | 2 | 3 | Score |
|---------------------------|--------------------------------|--|---|---|---|-------|
| Chart | Gestational Age (at that time) | ≥ 36 wks | 32 ≤ age < 36 | 28 ≤ wks < 32 | < 28 wks | |
| Observe Infant 15 seconds | Behavioural state | Active/Awake Eye open Facial movements Crying with eyes open/closed | Quiet/awake Eyes open No facial movements | Active/sleep Eyes closed Facial movements | Quiet/sleep Eyes closed No facial movements | |
| Observe infant 30 seconds | Heart rate: Max: | 0 - 4 beats/ min increase | 5 - 14 beats/ min increase | 15 - 24 beats/ min increase | 25 beats/ min or more increase | |
| | Oxygen saturation Min: | 0% - 2.4% decrease | 2.5% - 4.9% decrease | 5% - 7.4% decrease | 7.5% or more decrease | |
| | Brow bulge | None 0% - 9% of time(<3sec) | Minimum 10% - 39% of time(>=3 to <12 sec) | Moderate 40% - 69% of time(>=12 to <21) | Maximum 70% of time or more(>=21 sec or more) | |
| | Eye squeeze | None 0% - 9% of time(<3 sec) | Minimum 10% - 39% of time(>=3 to <12 sec) | Moderate 40% - 69% of time(>=12 to <21 sec) | Maximum 70% of time or more(>=21 sec or more) | |
| | Nasolabial furrow | None 0% - 39% of time(<3sec) | Minimum 10% - 39% of time(>=3 to <12 sec) | Moderate 40% - 69% of time(>=12 to 21 sec) | Maximum 70% of time or more(>=21 sec or more) | |

Score: _____



[65]

assesses pain for children ages 4 to 6 months

A final score of 0 identifies no pain, while a score of 10 identifies worst pain

| Observed behavior | Score (0-10) | Operational definitions |
|---|--------------|---|
| Facial expression | | |
| Definite positive expression. | 0 | Smiling. |
| Neutral expression. | 1 | |
| Slightly negative expression: for example grimace. | 2 | Brow bulge, naso-labial furrow. |
| Definite negative expression: i.e. furrowed brows, eyes closed tightly | 3 | Brow bulge, naso-labial furrow, eyes closed tight, open lips with or without reddened face. |
| Cry | | |
| Laughing or giggling. | 0 | |
| Not crying. | 1 | |
| Moaning, quiet vocalizing, gentle or whimpering cry. | 2 | |
| Full hinged cry or sobbing. | 3 | |
| Full hinged cry, more than baseline cry. | 4 | To be scored only if infant is crying during baseline. |
| Movements | | |
| Usual movements/activity, or resting/relaxed. | 0 | |
| Partial movement or attempt to avoid pain by withdrawing the limb where the puncture is done. | 2 | Squirming, arching, limb tensing/clenching. |
| Agitation with complex movements involving the head, torso or the other limbs, or rigidity. | 3 | Generalized limb and/or body movements, or rigidity. |

Modified Behavioral Pain Scale

Behavioral Pain Assessment Scales for Children

infants and children from ages 4 months to 18 years

Categories: blood pressure, crying, moving, agitation, and verbal evaluation/body language

final score of 0 identifies no pain, and a score of 10 identifies worst pain

[66]

A final score of 4 identifies no pain, while a score of 13 identifies worst pain

| Score | 0 | 1 | 2 |
|--------|----------|--------------------------|----------------|
| Cry | No cry | Crying, moaning | Scream |
| Facial | Smiling | Composed | Grimace |
| Verbal | Positive | None or other complaints | Pain complaint |
| Torso | Neutral | Shifting, tense, upright | Restrained |
| Legs | Neutral | Kicks, squirm, drawn up | Restrained |

Nurses Assessment of Pain Inventory
 For infants and children from birth to age 16 years
 A final score of 0 identifies no pain, while the higher score identifies the worst pain
 Body movement (0-2)
 Facial (0-3)
 Touching (0-2)

Behavioral Pain Score
 children ages 3 to 36 months
 Facial expression (0 to 2)
 Cry (0 to 3)
 Movements (0 to 3).
 A final score of 0 identifies no pain, while a score of 8 identifies worst pain

Younger than 36 months and children with cerebral palsy

Riley Infant Pain Scale

| SCORE | FACIAL EXPRESSION | SLEEP | MOVEMENTS | CRY | TOUCH |
|-------|--------------------------|---|-------------------------|------------------------|--|
| 0 | Neutral Smiling, calm | Sleeping quietly | Moves easily | None | |
| 1 | Frowning Grimace | Restless | Restless body movements | Whimpering | Winces with touch |
| 2 | Clenched teeth | Intermittent | Moderate agitation | Crying | Cries with touch Difficult to console |
| 3 | Crying expression | Prolonged with periods of jerking or no sleep | Thrashing tailing | Screaming, highpitched | Screams when touched Inconsolable |

FLACC Postoperative Pain Tool assesses pain for children ages 2 months to 7 years

A final score of 0 indicates no pain, while a score of 10 indicates worst pain.

FLACC Score

| CATEGORY | 0 POINTS | 1 POINT | 2 POINTS |
|---------------|------------------------|-------------------------------|----------------------------------|
| Face | Disinterested | Occasional grimace, withdrawn | Frequent frown, clenched jaw |
| Legs | No position or relaxed | Uneasy, restless, tense | Kicking or legs drawn up |
| Activity | Normal position | Squirming, tense | Arched, rigid, or jerking |
| Cry | No crying | Moans or whimpers | Constant crying, screams or sobs |
| Consolability | Content, relaxed | Distractible | Inconsolable |

SCORES ADD UP IN RANGE FROM 0-10

Behavioral Pain Assessment Scales for Older Adults

Can be used to assess pain levels in patients with advanced dementia

The higher the score, the greater the pain.

Pain Assessment in Advanced Dementia Scale

| Criteria | Pain Assessment in Advanced Dementia (PAINAD) SCALE | | |
|--|---|---|--|
| | Score 0 | Score 1 | Score 2 |
| Breathing (independent of vocalization) | Normal | Occasional labored breathing, short period of hyperventilation | Noisy labored breathing, Long period of hyperventilation, Cheyne-stokes respirations |
| Negative Vocalization | None | Occasional moan or groan. Low level of speech with a negative or disapproving quality | Repeated troubled calling out. Loud moaning or groaning. Crying |
| Facial Expression | Smiling or inexpressive | Sad, frightened, frown | Facial grimacing |
| Body Language | Relaxed | Tense, distressed pacing, Fidgeting | Rigid. Fists clenched. Knees pulled up. Pulling or pushing away. Striking out |
| Consolability | No need to console | Distracted or reassured by voice or touch | Unable to console, distract or reassure |

REASSESSMENT OF PAIN

Reassessment of pain is imperative to determine the effectiveness of treatment

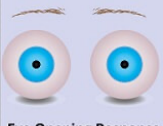

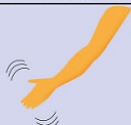
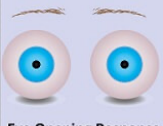

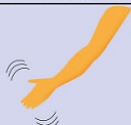
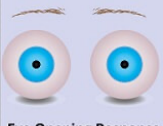

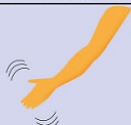
Current recommendations for pain reassessment include:

- Within [68] _____ minutes after parenteral administration of pain medication.



- Within [69] _____ hour after oral administration of pain medication.
- After every report of new or changes in pain.

MENTAL STATUS AND COGNITIVE FUNCTION

| Level of Consciousness | | | | | | | | | |
|---|--|-----------|----------|---|--|--|--|---|---|
| <p>[70]</p> <p>Awake, alert, and oriented to time, place, and person (AAOX3)</p> | <p>a state of physiological and psychological activation, ranging from deep sleep to intense alertness, involving increased heart rate, blood pressure, and responsiveness to stimuli, driven by brain systems like the reticular activating system.</p> <p>Types of Stimulus:</p> <p><u>Auditory and Tactile Stimuli</u></p> <ul style="list-style-type: none"> - If awake, ask what she's doing. - If asleep, call her or him by name in a normal tone of voice. - If she or he does not respond, speak louder. <p>If auditory stimuli fail, try tactile.</p> <ul style="list-style-type: none"> - Gently touch the patient's hand. If she or he does not respond, gently shake her or his shoulder. <p><u>Painful Stimuli</u></p> <ul style="list-style-type: none"> - If your patient does not respond to tactile stimuli - Allowed (central) <ul style="list-style-type: none"> o Trapezius squeeze, o Sternal rub o Supraorbital pressure o Mandibular pressure - Allowed (Peripheral) <ul style="list-style-type: none"> o Nail pressure o Achilles tendon squeeze - DONTs! <ul style="list-style-type: none"> o Nipple Twist o Never use a needle <p>TERMS USED TO DESCRIBE LOC</p> <p>[71] <u>Alert</u> - Follows commands in a timely fashion</p> <p>[72] <u>Lethargic</u> - Appears drowsy, may drift off to sleep during examination.</p> <p>[73] <u>Stupor</u> - Requires vigorous stimulation (shaking, shouting) for a response</p> <p>[74] <u>Coma</u> - Does not respond appropriately to either verbal or painful stimuli</p> <p>[75] <u>Glasgow Coma Scale</u> Provides a more objective way to assess the patient's LOC</p> <ul style="list-style-type: none"> - scale of 3 to 15. Fifteen (highest score) <table border="1"> <thead> <tr> <th>Behaviour</th> <th>Response</th> </tr> </thead> <tbody> <tr> <td>  Eye Opening Response </td> <td> 4. Spontaneously 3. To speech 2. To pain 1. No response </td> </tr> <tr> <td>  Verbal Response </td> <td> 5. Oriented to time, person and place 4. Confused 3. Inappropriate words 2. Incomprehensible sounds 1. No response </td> </tr> <tr> <td>  Motor Response </td> <td> 6. Obeys command 5. Moves to localised pain 4. Flex to withdraw from pain 3. Abnormal flexion 2. Abnormal extension 1. No response </td> </tr> </tbody> </table> | Behaviour | Response |  Eye Opening Response | 4. Spontaneously 3. To speech 2. To pain 1. No response |  Verbal Response | 5. Oriented to time, person and place 4. Confused 3. Inappropriate words 2. Incomprehensible sounds 1. No response |  Motor Response | 6. Obeys command 5. Moves to localised pain 4. Flex to withdraw from pain 3. Abnormal flexion 2. Abnormal extension 1. No response |
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Appearance
Speech
Emotion
Perception
Thoughts
Insight & Judgment
Disposition

| | |
|---------------------------------------|--|
| <p>[76]</p> <p><u>Orientation</u></p> | <p>Test orientation to time, place, and person</p> <p>Avoid asking questions that require only a "yes" or "no" response</p> <p><u>Time</u> - Ask the patient to state the date, including the year and day of the week.</p> <p><u>Place</u> - Ask your patient to state where he or she is. Can he or she identify environmental cues (e.g., bed, equipment, sound of bells or buzzers) to determine location?</p> <p><u>Person</u> - Ask the patient to state her or his name. Self-identity usually remains intact the longest, making disorientation to person an ominous sign.</p> |
| <p>[77]</p> | <p>Level of awareness reflects mental status and cognitive function. It is the functional state of the mind as judged by a person's behavior, appearance, response to stimuli, speech, memory, and judgment.</p> <p>Reflect the cerebral cortex's ability to process and respond.</p> <p>You will need to perform a rigorous mental status examination in the following situations:</p> <ul style="list-style-type: none"> - If data from patient or patient behavior during the health history interview suggests an abnormality. - If family members or caregivers report changes in the patient's personality or behavior. - If the patient has a history of head injury, stroke, dysphasia or aphasia, or mental illness. <p><u>Memory</u> - Assess immediate, recent, and remote memory.</p> <p>[78] <u>Instant Memory</u> - asking your patient to repeat a series of numbers</p> <p>[79] <u>Recent Memory</u> - asking what the patient had for breakfast or by asking her or him to name three objects—for example, a pen, a tree, and a ball—and then asking her or him to recall them later.</p> <p>[80] <u>Remote Memory</u> - ask birth dates or anniversary dates if someone can validate the information; if not, ask dates of major historical events.</p> <p><u>General Knowledge and Vocabulary</u> Nursing consideration: developmental level, educational level, and cultural background</p> <p><u>General Knowledge</u> - ask about current events, the name of the president, number of months in a year or days in a week</p> <p><u>Vocabulary</u> - ask the patient to define words</p> <p><u>Mathematical and Calculative Skills</u> Have your patient solve a simple math problem</p> <p>Example: Counting backward from 100 by 7s</p> <p><u>Thought Process/Abstract Reasoning/Judgment</u> <u>Thought process</u> examine the appropriateness, organization, and content of your patient's responses throughout the entire assessment</p> <p><u>Abstract Reasoning</u> Asking your patient to explain a simple proverb, such as "People in glass houses shouldn't throw stones."</p> |



Note the degree of concreteness or abstractness of her or his interpretation.

Sound Judgment

Considering options and choosing appropriate actions. Assess your patient's judgment by observing his or her response to the current situation or by giving him or her a hypothetical situation.

REFERENCES

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