

**Lane Community College**  
**PTA 103L Intro to Clinical Practice 2 Lab**  
**Assessment of Arousal and Attention**

**1. Scope of Practice – Why do PTAs need this skill?**

- a. Understanding terminology associated with arousal and attention assessment will help prepare for a safe and effective treatment plan – set realistic expectations for participation, functional recovery, and discharge needs
- b. Planning for second person assist; includes coordination with nursing or rehab staff, co-Rx with OT/SLP, including family members to assist as able; creating a framework for what level of participation you can expect
- c. Recognizing when something is different and what it may mean
  - i. Decline in arousal, attention, concentration are indicators of disruption of homeostasis within or across body systems
  - ii. Factors that contribute: medication, motivation, infection, oxygenation, perfusion, etc.)
  - iii. Check/correlate with vital signs and notify medical personnel of your observations and findings using shared terminology
- d. Understanding scales and findings on formal outcomes assessments help provide reliable and specific information regarding cognitive status and orientation
- e. Orientation and cognition is an integral part of motor learning, safety awareness, and ability to maintain strength and endurance through a home exercise program
- f. PT/PTAs *do not treat or have goals which focus on decreasing the cognitive impairment or functional limitation*. PT/PTAs must document status, observed changes, and communicate these to medical personnel for further assessment and care coordination

**2. How do we assess arousal (awake, sleepy, unresponsive), attention and cognition (non-verbal responses, confused, disoriented, reaction and response times)?**

- a. Use the primary senses for unresponsive/slow to respond:
  - i. Sound (bells, whistles, multiple sides of bed, localizing to voice)

- ii. Vision (tracking a moving object or person, orienting to speaker, eye contact)
  - iii. Pain (sternal rub, pinch, nail bed press, ROM to surgical extremity if cleared)
  - iv. Smell (noxious: ammonium salts)
  - v. Touch/Kinesthetic (more for patient who have impaired vision/hearing)
- b. We ask orientation questions: simple, open-ended, can not be answered “yes/no” and interpret the results
- i. Avoid, “Do you.....”
  - ii. Examples (What, Where, Who)
  - iii. Requires some verifiable knowledge of correct patient responses (medical record, family members, hospital schedule/routine); information source needs to be reliable
  - iv. Impacted by individual and cultural differences (can they see/hear you? Are there multiple meanings of words that may be confusing? Do some questions presume a certain lifestyle or status?)
- c. Use or reference Outcome Measurement Tools when basic orientation questions suggest possible cognitive impairment
- i. Standardized tests which screen for impairments in arousal and attention
  - ii. Not indicated when there is a diagnosis confirming cognitive impairment

### **3. What potential *barriers* are there to an accurate assessment?**

- a. Individual and cultural differences
- b. Influence of family members – compromised assessment
- c. Language barriers
- d. Biases of the assessor
- e. Poorly worded orientation questions

### **4. How do we *measure* arousal and attention?**

1. Alert and Orientation Scales (A&O x )
  - a. 1 = Name/Person
  - b. 2 = Place
  - c. 3 = Time (could be month, date, time of day, season)
  - d. 4 = Reason for stay/intervention – Event

- e. Scale is not in rank order. If there are deficits, they should be specified in the record as to which orientation categories are present (e.g., Pt is A&O x 2 (person, time))
2. Reference or administer screening tools when undiagnosed cognitive disorder is suspected
- a. [Mini Mental State Examination \(MMSE\)](#)
    - i. Screening test for dementia
    - ii. 5 categories : orientation, registration, attention and calculation, recall and language, and motor skills
    - iii. Score is out of 30. Less than 24 = measureable cognitive impairment
  - b. [Short Portable Mental Status Questionnaire \(SPMSQ\)](#)
    - i. Used primarily in geriatrics
    - ii. Categories: orientation, short and long term memory, practical skills and mathematical tasks
    - iii. Score is out of 10. Less than 8 = measurable cognitive impairment
    - iv. Can be used to quantify degree of impairment with medical personnel, residential care staff, family members for a patient who has no diagnosis of disease or condition impacting cognition
  - c. PTAs should be able to recognize these tests during interdisciplinary care conferences, medical record reviews, and the literature; shall understand values which indicate degree of cognitive impairment
3. Levels of Consciousness – Refers to the CNS and its ability to receive and respond to stimulation in a progressively meaningful, complex, and interactive way
- a. Descriptions of level of arousal and attention
    - i. Coma = unresponsive to all internal and external stimuli
    - ii. Stupor = generalized unresponsiveness with arousal occurring with repeated stimulation
    - iii. Obtundity = decreased arousal, delayed responses to stimuli, state of sleep
    - iv. Delirium = disorientation, confusion, agitation
    - v. Clouding of consciousness = quiet behavior, confusion, decreased attention, delayed responses
    - vi. Consciousness = alert, aware, oriented, memory intact

- b. How do the descriptions relate to each other? How do they differ? (unresponsive, slow to respond, slow and disorganized, intact)
- c. PTs/PTAs will reference and use these descriptions to communicate qualitative cognitive status during the examination or intervention
- d. Descriptions may be used in to document barriers to progress in PT, rationale behind discharge recommendations (setting, equipment, supervision, etc.)