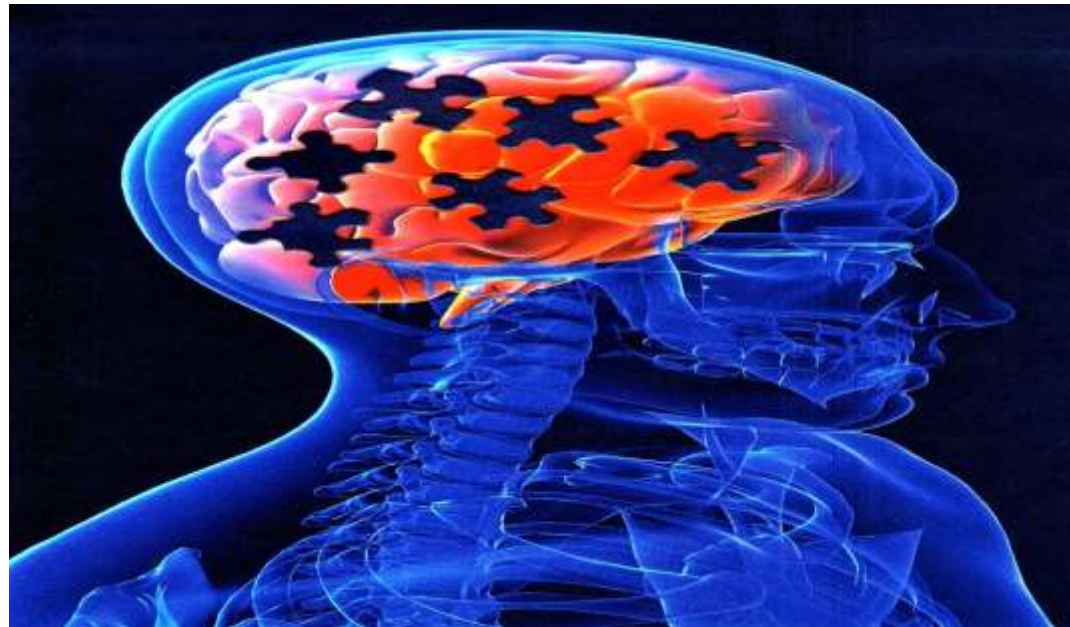


## Organic Brain Disorder

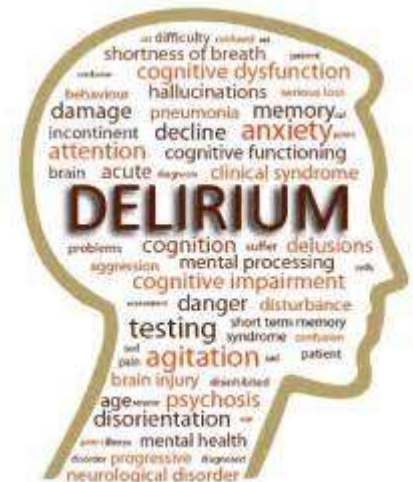


## Delirium Acute Organic Brain Disorder



## Delirium

Delirium is an acute organic mental disorder characterized by impairment of consciousness, disorientation and disturbance in perception and restlessness.



## Types of delirium

- Hyperactive or Hyperalert
- Hypoactive or Hypoalert
- Mixed



## Types of delirium

- **Hyperactive or hyperalert**
  - the patient is hyperactive and uncooperative.
  - May appear to be responding to internal stimuli
  - Frequently these patients come to our attention because they are difficult to care for.

- **Hypoactive or hypoalert**
- Pt appears to be napping on and off throughout the day
  - Unable to sustain attention when awakened, quickly falling back asleep
  - Misses meals, medications, appointments
  - Does not ask for care or attention

- **Mixed**
  - a combination of both types just described
- The most common types are hypoactive and mixed accounting for approximately 80% of delirium cases

## Cause of delirium

### Neurological causes-

- Cerebrovasclar SYSTEM- Hemorrhagic stroke, ischemic stroke, transient ischemia attack
- Migraine- Confusional migraine (migraine that alters consciousness)
- Inflammation or infection- encephalomyelitis, brain abscess, CNS vasculitis, encephalitis, meningitis, meningoencephalitis
- Seizure
- Trauma- Subdural hematoma, traumatic brain injury



## Non neurological causes-

- Drugs- Anticholinergics, antiemetics, antihistamines (eg, diphenhydramine), antihypertensives, antipsychotics, antispasmodics benzodiazepines, cimetidine, corticosteroids, digoxin, dopamine agonists, hypnotics, muscle relaxants, opioids, recreational drugs, sedatives, tricyclic antidepressants.

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- Infection- Fever, pneumonia, sepsis, systemic infections, UTIs
- Injuries - Burns, electrical injuries, fat embolism, heatstroke, hypothermia
- Metabolic disorders- Acid-base disturbances, fluid and electrolyte abnormalities (eg, dehydration, hypercalcemia, hypernatremia, hypocalcemia, hyponatremia, hypomagnesemia), encephalopathy hyperglycemia, hyperthermia, hypoglycemia, hypoxia, Wernicke encephalopathy

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- Endocrine disorder- Adrenal or pituitary insufficiency, Cushing syndrome, hyperparathyroidism, hyperthyroidism, hypothyroidism
- Hematologic disorders- Hyperviscosity syndrome, leukemic blast cell crisis, polycythemia, thrombocytosis

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- Vascular or circulatory disorders - Anemia, cardiac arrhythmias, heart failure, hypoperfusion states, shock
- Vitamin deficiency- Thiamin deficiency, vitamin B<sub>12</sub> deficiency
- Withdrawal symptoms- Alcohol, barbiturates, benzodiazepines, opioids

## Predisposing factors-

- Extremes of age
- H/O delirium
- Alcohol or drug dependence
- Generalized or focal cerebral lesion
- Chronic medical illness
- Pre-and post-op
- Severe psychological symptoms
- Rx with psychotropic drugs
- H/O head injury
- Vision impairment
- Malnutrition

## Clinical Features

### **Impairment of consciousness**

Clouding of consciousness ranging from drowsiness to stupor and coma.

### **Impairment of attention**

Difficulty in shifting, focusing and sustaining attention.

## **Perceptual disturbance**

Illusion and hallucination (visual)

## **Disturbance of cognition**

Impairment of abstract thinking and comprehension

Impairment of immediate and recent memory,

increased reaction time.

## **Psychomotor disturbance**

- Hypo or hyperactivity, enhanced startle reaction.

## **Disturbance of sleep wake cycle-**

Insomnia or in severe cases total sleep loss, daytime drowsiness, disturbing dreams or nightmares that leads to hallucination after awakening.



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- **Emotional Disturbance-**
- Depression, fear, irritability, euphoria, apathy.

## Diagnostic Evaluation:

- Mental status examination
- Standard diagnostic criteria to confirm delirium
- Thorough history
- Directed physical examination and selective testing to determine cause

## Special tests

- Complete blood counts
- Blood chemistries (including electrolytes, renal and hepatic indexes, and glucose)
- Serologic tests for syphilis
- HIV antibody test
- Urinalysis
- Electrocardiogram
- Electroencephalogram
- Chest radiograph
- Blood and urine drug screens

## Additional tests when indicated

- Blood, urine, and cerebrospinal fluid (CSF) cultures
- B<sub>12</sub>, folic acid concentrations
- CT & MRI
- LP and CSF examination

## Treatment

- Correction of the cause and removal of aggravating factors
- Supportive care
- Management of agitation

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- Correcting the cause
- (eg, treating infection, giving fluids and electrolytes for dehydration).
- Nutritional deficiencies (eg, of thiamine or vitamin B<sub>12</sub>) should be corrected, and
- Good nutrition and hydration should be provided

## Drug therapy

- **Haloperidol**
- Risperidone
- Risperidone
- Quetiapine
- **Benzodiazepines**  
(eg, lorazepam)



## Psychotherapy

- Music therapy
- Individual therapy
- Family therapy
- Group therapy
- Education
- Supportive therapy



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## Nursing process:

Assessment

History collection

Physical assessment

Mental status examination

Mini mental status examination

## Assessment

- Identify and treat the underlying etiology
- Increase observation and monitoring – vital signs, fluid intake and output, oxygenation, safety
- Discontinue or minimize dosing of nonessential medications
- Coordinate with other physicians and providers



## Nursing diagnosis:

- Risk for trauma related to falls, poor coordination, confusion, lack of understanding.
- Disturbed thought process related to disorientation, memory deficits, suspiciousness.
- Disturbed sensory perception related to hallucinations, confusion.
- Impaired verbal communication related to inability to recall objects name, right words for the object, loss of memory.
- Self care deficit related to inability to perform daily living activities.

## Expected outcome

To prevent from trauma.

To improve thought process.

To improve sensory perception.

To improve verbal communication.

To improve self care abilities

## Interventions

- Monitor and assure safety of patient and staff
  - suicidality and violence potential
  - fall & wandering risk
  - need for a sitter
  - remove potentially dangerous items from the environment
  - restrain when other means not effective

## Cont....

- Assess individual and family psychosocial characteristics
- Establish and maintain an alliance with the family and other clinicians
- Educate the family – temporary and part of a medical condition – not “crazy”
- Provide post-delirium education and processing for patient

## Cont....

- Environmental interventions
  - “Timelessness”
  - Sensory impairment (vision, hearing)
  - Orientation cues
  - Family members
  - Frequent reorientation
  - Nightlights

## Prevention



### Risk factors

- Cognitive impairment
- Dehydration/electrolyte imbalance
- Sensory deprivation/ sleep disturbances

### Pharmacy



### Intervention

- Routine mental status assessment, staff education
- I&O, skin assessment, early recognition
- Non pharmacologic sleep aids, decreased noise and light at night, frequent rest periods, daytime activities
- Staff education of medication side effects, pharmacy liaison, start low go slow



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## Points to be remembered while taking care of patient



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## Getting their attention

- Gain the person's attention
- Turn off extraneous noise
- Stand in front of the person and maintain eye contact
- Go slow, direct and redirect their attention



# Be aware of your tone of voice

- Do not shout!
- Do not speak in a condescending tone
- Speak slowly



## Take care with your use of language

- Use adult language
- Concrete simple language, short phrases
- Be positive and reassuring
- Don't talk about the person as if they weren't there



## Try yes or no questions

- Use 2 choice questions like do you want juice or soda?
- Are you hungry?
- Are you tired?
- Can I read to you?

## Repeat rephrase and repair:

- This is a difficult strategy but is helpful to maintain conversation and helps fill in the missing information the person with dementia may omit
  - **Repeating**-helps fill in speech Ex: I want a cup of.... If you repeat this the elder may add the word coffee, water or juice
  - **Rephrasing**- helps the person hear the corrected response if they say juice you might point to a juice container and say I want a glass of juice
  - **Repairing**-uses both tactics to fix or fill in missing information for example a person points at a pantry cabinet and says, “look there.”, you might say, “your Hungry?”

## Orient and reorient frequently



- Use visual aids
- Make sure they have hearing aids or glasses if they need them
- Calendars and message boards
- Keep them up to date, make sure they are easy to locate
- Orient the person with your language





## Use touch

- Touch makes us human and is reassuring
- Helps maintain attention during conversation
- Can be calming





## Learn to be a good listener



- Listen and watch/  
wait for the  
response
- Do not interrupt
- Be willing to talk  
about old times  
then redirect

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## Delirium V's Dementia

	<b>Delirium</b>	<b>Dementia</b>
<b>Onset</b>	Abrupt	Usually insidious; can be abrupt in stroke/trauma
<b>Course</b>	Fluctuates	Slow decline
<b>Duration</b>	Hours to weeks	Months to years
<b>Attention</b>	Impaired	Intact early; often impaired late
<b>Sleep-Wake</b>	Disrupted	Usually normal
<b>Alertness</b>	Impaired	Normal
<b>Orientation</b>	Impaired	Intact early; impaired late
<b>Behaviour</b>	Agitated, withdrawn or depressed; or combination	Intact early
<b>Speech</b>	Incoherent; rapid/slowed	Word finding problems
<b>Thoughts</b>	Disorganised, delusional	Impoverished
<b>Perceptions</b>	Hallucinations/illusions	Usually intact early

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Program Name: B.Sc, NSG

## References

- <https://www.healthline.com/health/delirium#:~:text=Delirium%20is%20an%20abrupt%20change,after%20surgery%2C%20or%20with%20dementia.>
- <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3065676/>

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Thank You  
Thank You  
Thank You!!!!

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