Level 4

DELIRIUM 26.8.2020 10-11 am

defination

dysfunction in cerebral metabolism,

- Is transient
- reversible
- has an acute
- or sub acute onset
- neuropsychiatric abnormalities.

delirum

- Delirium itself is not a disease
- Is a clinical syndrome(a set of symptoms),
- There is an underlying disease
- Is symptomatic manifestation of early brain or mental dysfunction (for any reason).

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Delirium -common usage

Delirium may be used to mean

- drowsiness
- disorientation.
- The state of delirium most familiar to the average person is that which occurs from extremes pain, lack of sleep, or emotional shock.

"delirium." medical usage

- sudden inability to focus attention,
- sleeplessness
- severe agitation
- irritability,

Delirium-clinical presentation

There is an acute decline in

- Attention-focus,
- Perception
- Cognition
- consciousness (eg, reduced clarity of awareness of the environment).

Delirium clinical presentation

- There is a change in baseline levels of cognitive function
- Which is not accounted for by a- preexisting, established, or evolving dementia
- Delirium has a rapidly fluctuating time course unlike in dementia.

Definition---- Summary.

• Delirium has also been referred to as 'acute confusional state' or 'acute brain syndrome'. The key word in both of these descriptions is "acute" (meaning: of *recent onset*),

EPIDEMIOLOGY

- 10-15% of pts on acute medical surgical wards.
- 30-40% of elderly hospitalized patients.
- Delirium is the most common acute disorder affecting adults in general hospitals.

PRECIPTATING FACTORS

Existing medical diseases e.g.

- □ in-post cardiology patients ts − 13% 67%
- \square 3. burn patients 18-30%
- ☐ 4. patients with pre-existing brain damage (dementia, stroke) ↑81%.

PRECIPTATING FACTORS

- patients with drug dependency and withdrawals
- patients with AIDs.
- psychosocial factors
- Sensory deprivation
- Sleep deprivation

PRODROMAL SYMPTOMS

- Restlessness
- Anxiety
- Irritability
- sleep disruption

INABILITY TO FOCUS ATTENTION

- No coherent thought
- o disorganized or incoherent speech
- inability to concentrate (focus attention),
- lack of any goal-directed thinking.

DISORIENTATION

There is loss of awareness of the

- surroundings
- environment
- And context in which the person exists(time,place, and person).

DISORIENTATION IN TPP

- 1. Time (not knowing what time of day day of week, month, season or year it is)
- 1. Place (not knowing where one is)
- 2. Person (not knowing who one is)

MEMORY FORMATION DISTURBANCE

inability to form short-term memory e.g
 -repeating a phone number

 However patients retains previously formed long-term memories (i.e., those formed before the period of delirium)

PERCEPTION-IN DELIRIUM

Perceptions are altered

- Misperceptions(distortions in size or intensity of the surrounding environment.)
- Illusions
- Poorly formed hallucinations(sensory experience with the lack of an external source

HALLUCINATIONS-IN DELIRIUM

Types

- 1. Visual hallucinations
- There is distortions in the form of masses of small crawling creatures (particularly common in delirium tremens, caused by severe alcohol withdrawal)

DELUSIONS-IN DELIRIUM

- False strange beliefs
- Usually they are *temporary* delusions
- False or delusional memories may persist

DISTURBANCES OF AFFECT

Patient

- Appear to be in terror
- Displays sadness
- May be joculous .
- Is Irritable
- May Displays anger
- or euphoria.

DURATION OF DELIRIUM

- Affected by the underlying cause.
 - > E.g. delirium subsides as the severity of the fever subsides.
- Rarely persists for months -permanent decrements in cognitive function.
- Loss of memory and reasoning power
- Increased risk of dementia in the years that follow.

ETIOLOGY

Many organic causes.

- Structural defect
- Metabolic problem in the brain Psychiatric-
- Mental or emotional stress,
- Mental disorders

FLUACTUATING COURSE

- Attention decreased (easily distract able)
- Altered arousal and psychomotor abnormality
- Disturbance of sleep wake cycle
- Disorganised thinking and speech

NEUROLOGICAL ABNORMALITIES

- Dysgraphia (write a sentence)
- Construction aprexia draw a clock
- Dysnomia aprexia name objects
- EEG background showing other features

MOTOR ABNORMALITIES

- Tremors,
- Asterixis,
- Myoclonus reflex
- Tone changes

DSM V diagnostic criteria

- A. Disturbance of consciousness
 Reduced clarity or awareness of environment
 Reduced ability to:-
- Focus
- Sustain
- shift attention

Disorientation

DSM V diagnostic criteria

- B. Change of cognition
- memory deficit
- Language disturbance
- Perceptual disturbance
- NB: No pre existing dementia

DSM IV diagnostic criteria

C. Onsetrapid hrs or dayscourse fluctuate in day

DSM V diagnostic criteria

D. Archeologically –medical condition as evident by LAB, EXAM

DSM IV diagnostic criteria

E. Outcome – usually reversible

DIFFERENTIAL DIAGNOSIS

- Openantia
 Openantia
- Depression
- Psychosis

DIFFERENTIAL DIAGNOSIS

- UREMIC encephalopathy
- Or psychoactive substance withdrawal
- Hypertensive encephalopathy

DIFFERENTIAL DX 2

Hypoglycaemia

Hypo perfusion of CNS

Hypoxemia

DIFFERENTIAL DIAGNOSIS

- Intra-cranialBleeding orInfection e g Meningitis
- Operation Poisons
- medications
 - > Antibiotics
 - > Anticholinergic
 - > Anticonvulsants

A MNEMONIC FOR CAUSES OF DELIRIUM IS:

"I WATCH DEATH".

I INFECTIONS

- Encephalitis
- meningitis
- Syphilis
- Pneumonia,
- Urinary Tract Infections

W WITHDRAWAL

- Alcohol
- barbiturates,
- Sedatives
- Hypnotics
- opiate

A ACUTE METABOLIC -

- acidosis alkalosis,
- electrolyte imbalance
- hepatic failure renal failure.

T - TRAUMA

o post operative severe burns.acute to severe pain

C-CNS PATHOLOGY

- Abscesses
- normal pressure Hydrocephalus
- seizures
- strokes
- cerebral haemorrhage

C- CNS PATHOLOGY

- Head trauma (i.e., concussion, traumatic penetrating injury, etc.)
- gross structural damage from brain disease, tumor, etc.)
- Various neurological disorders
- Lack of sleep

H-HYPOXIA

- anaemia,
- carbon monoxide poisoning
- hypo tension
- pulmonary or cardiac failure

D Deficiencies

vitamin B12
thiamine
niacin
thiamine

E-ENDOCRINOPATHIES

- thyroid
- Parathyroid
- Hypo pituitarism
- hyper/hypoglycemia
- Cushing's

A- ACUTE VASCULAR

hypertensive encephalopathy and shock, Stroke,
 MI, PE, heart failure)

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T- TOXINS

- DRUG
- MEDICATIONS (PRESCRIBED -TRAMADOL, RECREATIONAL)

H- HEAVY METALS

Lead manganese mercury.

MAKING THE DIAGNOSIS OF DELIRIUM

history
Mental status
physical status
laboratory examination —

- basic
- other e.g. L.P

TREATMENT

- 1. when aetiology or aetiologies are known
- 2. when aetiology or aetiologies are unknown
- a) medical
- b) pharmacological
- c) psychosocial

PROGNOSIS

• 10 % mortalty depending on care.