Unconsciousness Coma

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Intracranial causes

Vessels: head injury, bleeding haematoma, anomalies, ischemia

Infection – meningitis, encefalitis, abscesus

Tumors

Epilepsy

Extracranial causes

- Poisoning (CO, alcohol, drugs)
- Metabolic diseases (DM, hypothyreosis)
- Systemis failure- liver, kidney
- Stop of breathing and circulation in 30 seconds

Level of consciousness

1. Somnolence drowsiness

2. Sopor lower level of consciousness reaction to pain

3. Coma deep unconsciousness

Level of consciousness

- A Alert, respond to questions eyes are open
- V Voice, respond to voice, obey commands
- P Pain, respons to pain
- U Unresponsive to any stimulus



Seek the cause Monitor vital signs Opening the airways- tilt his head back lift the chin Checking breathing Recovery position, injury- the same position AED CPR Avoid aspiration, nothing orally Transport



Recovery position

Faintness- syncope

Short loss of consciousness

Causes: bradycardia, arythmia postural hypotensis vasovagal faintness



Horizontal position Raising of leggs Fresh air Fluids

Extracranial unconsciousness

Diabetic coma

DM- insufficient production of insulin Hyperglycaemia, osmotic diuresis Loss of fluids Metabolic acidosis, aceton Loss of potassium and natrium

Brain is depedent on plasmatic glucose Utilisation of glucose in brain is not controlled by insulin

Signs

Polyuria, polydypsia Dry, warm skin, dehydration Rapid pulse and breathing **Excessive thirst Deep breath** Fruity sweet breath- aceton in the breath Nausea and vomiting Unconsciousness

Mortality 50 % First aid- application of insulin

Hypoglycaemia – coma

Causes: insulin- sugar balance is incorrect high doses of insulin, alcohol

Signs: Weakness, faintness, confusion Sweating with cold clammy skin Rapid pulse, muscle tremor Deteriotating level of respond Feels hungry

First aid- sugar, glucose fluids

Hepatal coma

Renal coma (uraemia)

Hyperthyreosis

Hypothyreosis

Death of brain

History of brain lesion Areflexia, apnoe from the brain stem No reaction of pupils No reaction to pain No breathing for 10 minutes after stopping of ventilation with oxygen $EEG - \frac{1}{2}$ hour isoelectric line Brain angiography – no vascularisation above the base

Signs of death

- Patches (6-12 hours)
- Cold body (1°C / hour)
- Stiffness (after 6-12 hours)
- Decomposed body (after 2 days)