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GLOBAL HEALTH



NURSING MANAGEMENT OF ENDOCRINE EMERGENCIES

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Questions

- 1. Describe the nature of breathing in a person with DKA.
- What route is insulin given in DKA?
- What's the name and nature of the smell from a DKA patient?
- In nursing care of DKA a patient, what electrolyte is your most priority as you monitor the patient?
- List at least two H's in the assessment of adrenal crisis.
- In nursing care of thyroid storm, name the beta blockers administered in the management.

DIABETIC KETOACIDOSIS(DKA)

NURSING MANAGEMENT USING THE NURSING PROCESS

- A- Assessment
- D- Diagnosis
- P-Planning
- I - Implementation
- E -Evaluate



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DKA NURSING PROCESS

- **ASSESSMENT** – Fast , deep respirations (kussmaul)
- Increased thirst (polydipsia)
- Polyphagia (extreme hunger)
- “Fruity” breath
- Frequent urination
- Nausea and vomiting
- Abdominal pain
- Coma etc....

Diagnosis(nursing)

- Ineffective breathing pattern related to deep, fast respirations secondary to compensation of metabolic acidosis
- Deficient fluid volume related to increased urination and vomiting
- Imbalanced nutrition: less than body requirements related to the inability of tissue cells to use glucose; nausea, and vomiting
- Deficient knowledge related to new onset of DM

Planning & Implementation

- To have normal respirations and within the normal ranges by correcting the metabolic profile (acidosis, insulin(IV),K.)
- To replace the normal fluid volume and not experience and nausea and vomiting
- To ensure a balanced nutrition that meets the cell energy requirements with appropriate insulin dosages given
- To teach the patient about their condition and make them able identify their needs.

INSULIN DELIVERY PROTOCOL

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Target RBS 7-10mmol/l

Prepare Soluble Insulin 1IU/ML SOLUTION (Mix 50IU (5mls) in 45mls H₂O)

Random Blood Sugar RBS (mmol/l)	Initiation		Maintenance	
	Bolus (IU)	Infusion (IU/hr)	At 1-5IU/hr	At >5IU/hr
7-10	0	2	Incr 1IU/hr	Incr 2U/hr
11-13.9	3	2	Bolus 3IU + Incr 1IU/hr	Bolus 3IU + Incr 1IU/hr
14 – 16.9	5	3	Bolus 3IU + Incr 1IU/hr	Bolus 3IU + Incr 1IU/hr
17 – 19.9	8	3	Bolus 3IU + Incr 1IU/hr	Bolus 3IU + Incr 1IU/hr
20 – 22.9	10	4	Bolus 3IU + Incr 1IU/hr	Bolus 3IU + Incr 1IU/hr
23 – 24.9	10	5	Bolus 3IU + Incr 1IU/hr	Bolus 3IU + Incr 1IU/hr
>25	10	6	Bolus 3IU + Incr 1IU/hr	Bolus 3IU + Incr 1IU/hr

Evaluate

- The patient will have achieved respirations within normal ranges and corrected metabolic profile
- The patient will have attained normal fluid volume levels without nausea and vomiting
- The patient will be able to exhibit a balanced nutrition meeting all cell energy requirements as insulin stabilized
- The patient is able to identify needs about their condition and more knowledgeable with motivation

Adrenal crisis

- **ASSESSMENT - ABCs**
- Assess for the h's
- 1. Hypotension
- 2. Hyponatremia
- 3. Hyperkalemia and
- 4. Hypoglycemia

Diagnosis (nursing process)

- Risk for imbalanced fluid volume related to inadequate aldosterone production .
- Imbalanced nutrition less than body requirements related to decreased cortisol levels.
- Risk for infection related to immune system compromise.

Planning and Implementation

- 1.To monitor vital signs i.e BP,HR, & fluid balance and assess for signs of volume imbalance
- Encourage increased amount of dietary sodium under supervision to compensate the aldosterone deficiency
- 2.Imbalanced nutrition; monitor weight, nutrition intake regularly assess for malnutrition – encourage balanced diet

Planning and Implementation cont.

- 3. Risk for infection; monitor for S&S of infection fever, increased fatigue, localized inflammation
- Good hand hygiene and follow IPC measures

Evaluation

- Maintained fluid volume balance with stable blood pressures and appropriate hydration
- Improved nutrition status with weight maintenance and adequate intake of essential nutrients
- Reduced risk of infections through proper hygiene practices , immunizations and prompt treatment of infections

Thyroid storm

ASSESSMENT

- Assess for cardiovascular status; extra heart sounds, complaints of orthopnea or dyspnea on exertion.
- Assess hydration status because dehydration can further decrease circulating volume and comprise CO
- Assess for pressure ulcer development secondary to hypoperfusion

Diagnosis (nursing)

- Risk for decreased Cardiac Output
- Fatigue related to hypermetabolic state with increased energy requirements evidenced by impaired ability to concentrate, says I lack energy, nervous etc..
- Risk for disturbed thought processes (due to altered sleep)

Planning and implementation

- To monitor BP when lying, sitting & standing if able.
- Monitor CVP if possible (more direct measure of circulating volume and cardiac function. Auscultate s1 2 then murmurs s3 warn, meds, labs
- Fatigue; To monitor vital signs at rest and active, quiet environment, bed rest ,meds sedate

Planning and implementation cont.

Disturbed thought;

- To assess their thinking process.
- To assess their environment
- To reorient person to place and time as indicated
- To Provide clock, calendar, room with outside window ; alter level of light to simulate day or night. Family visits etc...

Evaluation

- **Decreased CO-** Achieved adequate cardiac output for tissue needs, evidenced by stable vitals , palpable peripheral pulses, good capillary refill, no dysrhythmias
- **Fatigue-** ability to verbalize increased energy levels – display by participating in activities
- **Disturbed thought-** maintain usual reality orientation, recognize changes in thinking, behaviors etc...