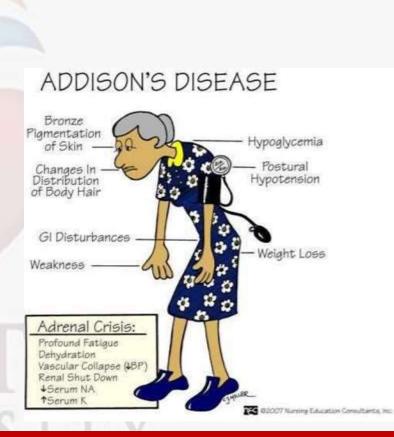
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ADDISON'S DISEASE



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Course Code: BSCN2003

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Introduction

- Addison's disease (also known as primary adrenal insufficiency or hypoadrenalism) is a rare disorder of the adrenal glands. It affects the production of two hormones cortisol and aldosterone.
- O Cortisol is released in stressful situations and helps to maintain your energy levels, your blood sugar levels and carbohydrate metabolism.
- O Aldosterone maintains the balance of salt and water in your body, which helps to control blood pressure.

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DEFINITION

Addison's disease, also called adrenal insufficiency or adrenocortical insufficiency, an uncommon disorder that occurs when body doesn't produce enough amount cortisol hormones.

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INCIDENCE

•Addison's disease occurs : All age groups

Both sexes

can be life-threatening.

- It occurs in both men and women equally and in all age groups,
- But is most common in the 30-50 year-old age range.

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Etiology

- O Auto immune response
- Inadequate secretion of the Adrenal Hormone
- Infection of the Adrenal gland
- Atrophy of the adrenal cortex.
- Surgical removal of both adrenal glands
- Inadequate secretion of ACTH from pituitary gland
- Therapeutic use of corticosteroids(its sudden cessation)

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Pathophysiology

Due to any factor

0

Adrenal cortex function is inadequate to meet needs for cortical hormone

Causes deficiencies of the adrenocortical secretions (glucocorticoids, sex hormones, and mineral corticoids)

Addison's disease

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CLINICAL FINDINGS

- O Fatigue
- O Muscle weakness
- O Muscle/joint pain
- O confusion
- O Nausea
- O Anorexia (decrease in appetite)
- O Irritability
- O Depression
- O Dehydration
- O Hyperpigmentation

- O Hyponatremia
- O Hypotension
- O Hypoglycemia
- O Hyperkalemia
- O Hypovolemia

Vomiting

- O Diarrhea
- O Constipation
- O Mouth lesions
- O Decrease in bodyhair
- O Weight Loss
- O Low BMR

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CLINICAL FINDINGS









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Diagnostic Findings

- O History collection
- Physical examination
- O ACTH Stimulating Test
- 24 Hrs urine studies
- Lab studies(Decrease glucose and sodium level and Increased potassium and WBC level)
- O Blood Chemistry(Plasma cortisol and aldosterone level)

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Diagnostic Findings

• Computed tomography (CT scan):

A CT scan might be done to evaluate the adrenals and/or pituitary gland. For example, it can show if the immune system has damaged the adrenal glands or if the glands are infected.

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Addisonian crisis causes:

- low blood pressure,
- high potassium in the blood, and
- low blood sugar levels.

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TREATMENT

- Hydrocortisone pills to replace cortisol.
- If patient also lacking aldosterone, fludrocortisones acetate pills will be provided.
- If patient are taking fludrocortisones, need to increase salt intake, especially in hot and humid weather and after exercise.
- In emergencies and during surgery, the medicine is given intravenously (directly into a vein).

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Patient Education

- Increase salt intake during hot weather and heavy exercise
- O Never skip a dose. This could lead to an Addisonian crisis.
- C Learn to recognize the symptoms of an Addisonian crisis. (Ex: pain in lower back, severe vomiting and diarrhea, extreme weakness, fainting.-Contact physician immediately.)
- Wear Med alert tag
- Frequently monitor weight
- O Reframe from stressful activities

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Nursing Consideration

- O Monitor BP and weight
- 2hr postprandial glucose test.
- O Chest x-ray if prolonged tx.
- Electrolytes (k+); I&O ratio (decreasing output and increasing edema).
- Plasma cortisol levels (norm: 6- 23mcg/dL); signs of infection cardiac symptoms (edema, HTN)

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Nursing Consideration

- Monitor patient frequently for dysrhythmias
- Administer NaCl IV to increase sodium
- Administer Insulin
- O Administer an antiemetic as tolerated by the patient
- O Provide high calorie snacks and finger foods
- Daily weight
- O Nutritional supplements

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Nursing Diagnosis

- Electrolyte Imbalance r/t vomiting, diarrhea hyperkalemia and hyponatremia
- Imbalanced nutrition: less than body requirements r/t anorexia, decrease in weight and inadequate food intake.
- Fluid volume deficit r/t renal loss of sodium and water.
- Activity intolerance r/t decreased cortisol production and fatigue.

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