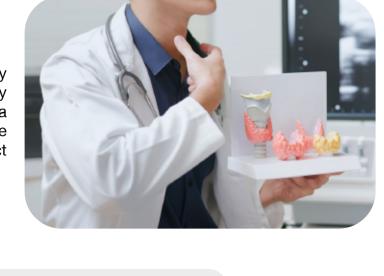


# **Endocrine System?** Imagine a powerful messaging system quietly

What is the

working behind the scenes to keep your body running smoothly. That's your endocrine system, a complex network of glands that produce hormones, the chemical messengers that affect nearly every cell and function in your body.



These hormones influence





how you feel



Sleep

when you feel tired or awake



how your body uses energy



adulthood



sexual function



like body temperature and fluid levels

Understanding the signs and symptoms of endocrine disorders can help you take control of your health before problems become serious.

Even small changes in hormone levels can trigger major shifts in your body's functioning.

# Let's explore some of the most common (and often misunderstood) endocrine disorders, how they affect you, and what can be done.

**Common Endocrine Disorders You Should Know** 

# properly, your whole body feels it.

or due to low iodine.

**Thyroid Disorders** 

**Hypothyroidism (Underactive Thyroid) Hyperthyroidism (Overactive Thyroid)** Cause: Often autoimmune (like Hashimoto's) Cause: Often caused by Graves' disease or

Symptoms:

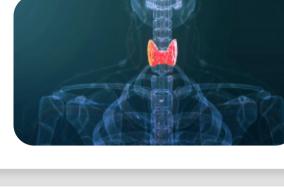
Your thyroid is a butterfly-shaped gland in your neck that plays a big role in metabolism. When it doesn't work

### Constant fatigue or sluggishness Unexplained weight gain

Symptoms:

Dry skin and hair thinning

- Cold intolerance Depression or mood swings
- Slow heart rate, constipation



### Rapid heartbeat or palpitations Anxiety or nervous energy

Sudden weight loss despite normal eating

# Heat intolerance and sweating

non-cancerous growths.

- Shaky hands, restlessness Trouble falling asleep
- Diagnosis:
- Blood tests (TSH, T3, T4) Thyroid ultrasound or radioactive iodine scan

### **Treatment Options: Hypothyroidism:** Daily thyroid hormone (levothyroxine)

- Hyperthyroidism: Antithyroid meds, beta-blockers, radioactive iodine, or surgery

- This chronic condition affects how your body uses glucose- your main source of energy. The issue lies in insulin, a hormone made by the pancreas. Common types:

# Type 1 Diabetes

**Diabetes Mellitus** 

Cause: Autoimmune destruction of Cause: Insulin resistance, often linked to weight and insulin-producing cells lifestyle Often diagnosed in: Children or young adults

### Symptoms: Frequent urination (especially at night) Extreme thirst and hunger

Excessive thirst

Sudden weight loss Mood swings, fatigue Blurry vision

**Gestational Diabetes (During Pregnancy)** Cause: Hormonal shifts that affect insulin during Symptoms: Often mild or hidden, but may include:

- Frequent urination Fatique
- Risks: High birth weight, delivery complications, future risk of Type 2 diabetes



## Slow-healing wounds Tingling or numbness in hands/feet

Symptoms:

Type 2 Diabetes

Frequent infections Blurred vision

- Increased hunger/thirst
- **Diabetes Diagnosis Criteria (American Diabetes Association)**
- Fasting Plasma Glucose (FPG) Test: Normal: <100 mg/dL

Prediabetes: 100-125 mg/dL

### Diabetes: ≥126 mg/dL **Oral Glucose Tolerance Test (OGTT):** Normal: <140 mg/dL (2 hours after 75g glucose)

Prediabetes: 140-199 mg/dL

Prediabetes: 5.7-6.4% Diabetes: >6.5%

- Diabetes: ≥200 mg/dL Hemoglobin A1C Test (HbA1C): Normal: <5.7%
- **Random Plasma Glucose Test:** Diabetes is diagnosed if blood glucose ≥200 mg/dL with classic symptoms (thirst, urination, weight loss) Note: Diagnosis requires confirmation with a second test unless

Type 1: Lifelong insulin therapy

Addison's Disease (Too Little Cortisol)

Cause: Autoimmune damage to the adrenal glands

Hormone replacement (hydrocortisone or

Emergency steroid shots during stress or illness

Lifestyle: Healthy diet, weight loss, regular exercise **Medications:** (PCOS) can be treated with medication,

but the treatment largely depends on the patient's

goals and the specific symptoms she is experiencing.

symptoms are present

**Treatment:** 

Type 2: Diet, exercise, oral meds, sometimes insulin Gestational: Healthy eating, exercise, insulin if needed

# Adrenal glands, sitting on top of the kidneys, release stress hormones like cortisol and adrenaline that help the body respond to challenges. Here are the most common adrenal gland disorders: **Cushing's Syndrome (Too Much Cortisol)** Cause: Tumours or long-term steroid use

Upper body weight gain, round "moon" face

Darkened skin patches Fragile skin, easy bruising High blood pressure Low blood pressure Mood swings, anxiety Salt cravings Dizziness, nausea, weight loss Purple stretch marks

Symptoms:

Diagnosis:

Treatment:

Diagnosis:

**Treatment:** 

Blood tests (androgen levels)

Pelvic ultrasound

Physical exam

Chronic fatigue

Cortisol level tests Imaging (CT/MRI) ACTH stimulation test

fludrocortisone)

For more information >

Symptoms:

Read more >



### Difficulty losing weight Trouble conceiving Dark skin patches (especially neck, underarms)

**Healthy Hormone Tips: Everyday Actions that Matter** 

Small lifestyle changes make a big difference.

- Eat to balance hormones
- Whole foods: vegetables, lean proteins, healthy fats
- Fibre-rich foods like oats and legumes to help with blood sugar

levels naturally

- Supporting your endocrine system isn't just about medications.



# Omega-3 fats from fish or nuts to reduce inflammation

Flaxseeds & soy: may support hormone





Stay active

Regular movement (walking, yoga, resistance training) helps improve

insulin sensitivity and maintain a healthy

Monitor changes Don't ignore symptoms like sudden weight changes, fatigue, irregular

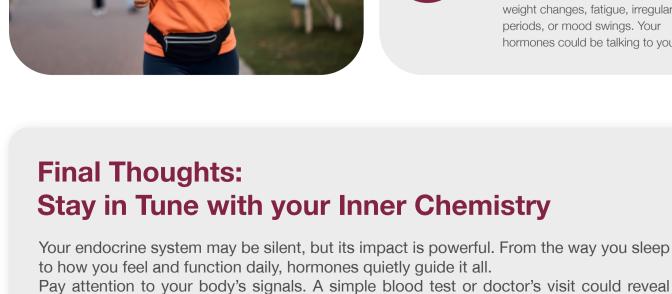
Sleep & stress relief

Cortisol, melatonin, and other

night and find time to unwind.

periods, or mood swings. Your hormones could be talking to you.

hormones are deeply linked to your rest and stress levels. Aim for 7-9 hours per



imbalances before they become serious.

your hormones in harmony and living your healthiest life.

damaninsurance.ae

# **Key Takeaway:** Early detection, informed choices, and a healthy lifestyle are your best tools for keeping

Diagnosis and Classification of Diabetes: Standards of Care in Diabetes - 2024 | Diabetes Care | American Diabetes https://www.cancer.gov/publications/dictionaries/cancer-terms/def/endocrine-system

Learn more

The American Diabetes Association Releases Standards of Care in Diabetes — 2025 | American Diabetes Association

