

Gestational Diabetes Mellitus (GDM)

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Why in news?

A recent study indicates a surge in early-onset gestational diabetes in India, with glucose intolerance detected earlier than the typical 24–28 weeks of gestation.

Gestational Diabetes Mellitus (GDM) - It is a condition in which
<u>pregnancy hormones block insulin's effectiveness</u>, leading to high
blood sugar levels.

Causes

- The placenta produces hormones (estrogen, cortisol, human placental lactogen) that interfere with insulin.
- This "contra-insulin effect" begins around 20-24 weeks.
- Normally, the pancreas compensates by producing more insulin. If it cannot, gestational diabetes develops.

Risk Factors

- Medical Heart disease, high blood pressure, obesity, PCOS, prediabetes.
- **Family history -** Type 2 diabetes or prior gestational diabetes.
- Demographics Age over 25, higher risk in South/East Asian, Latino, Native American, and Pacific Islander women.
- **Symptoms** Often develops without clear warning signs, but sometimes can include increased urination, excessive thirst, fatigue, nausea.

Diagnosis

- **Early screening** at the first prenatal visit for women with risk factors.
- $_{\circ}$ Standard testing at 24–28 weeks for all pregnant women.
- Postpartum screening 6-12 weeks after delivery to check for persistent diabetes.
- **Long-term monitoring** women with GDM should be screened every 3 years for type 2 diabetes.

Complications

- **For mother** Breathing problems, premature birth, obesity, higher chance of C-section, pre-eclampsia, and later type 2 diabetes.
- For baby Macrosomia (large birth weight), Hypoglycemia (low blood sugar after birth) after birth,
- **Treatment** Dietary changes tailored to keep blood sugar normal, regular exercise, daily blood glucose monitoring, insulin injections if lifestyle changes aren't enough.

India has a **diabetes crisis** - In 2024, about 90 million adults had the disease, the 2^{nd} **highest number in the world after China**. By 2050, this figure may grow to more than 156 million.

References

- 1. The Hindu | A study conducted to know about Gestational Diabetes
- 2. John Hopkins Medicine | Gestational Diabetes
- 3. Cleveland Clinic

