

India's First Diabetes Biobank

Why in News?

Recently, India sets up its first diabetes biobank.

- **Diabetes Biobank** - It is a ***repository of population-based biological samples***.
- **Aim** - To facilitate advanced research on diabetes, variations of the Indian type and related disorders.
- **Set up by** - It is a joint collaboration of
 - Indian Council of Medical Research (ICMR)
 - Madras Diabetes Research Foundation (MDRF)
- **Operated at** - ***Madras Diabetes Research Foundation*** (MDRF), Chennai.
- **Role** - It is designed to *collect, process, store, and distribute* biological samples to advance diabetes research.
- **Storage** - A plethora of blood samples of different types of diabetes in the young, such as ***Type 1, Type 2 and gestational diabetes***, have been stored for future studies and research.

Biobanks is a collection of biological samples (such as blood) and health information. It is critical in biomedical research, collecting, processing, storing and distributing biospecimens.

Diabetes

- **Diabetes** - A *chronic metabolic disease* that occurs when the blood glucose, also called Blood Sugar, is too high.
- **Symptoms** - Feeling very thirsty
 - Need to urinate more often than usual
 - Blurred vision
 - Feeling tired
 - Losing weight unintentionally.
- **Types of diabetes**

Type 1 diabetes (Juvenile diabetes)	Type 2 diabetes	Gestational diabetes
It occurs in in <i>children</i> and young adults. (Insulin-dependent diabetes)	It occurs at <i>any age</i> , even during childhood.	It occurs <i>during pregnancy</i> .

The immune system attacks and <u>destroys the pancreas cells</u> that make insulin.	The pancreas <u>isn't making enough insulin</u> to keep the blood glucose level in the normal range.	It is hyperglycaemia with blood glucose values above normal but below those diagnostic of diabetes.
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Reference

[The Hindu| India's First Diabetes Biobank](#)

