Integration of Rare Blood Donor Registry with e-Rakt Kosh

Why in News?

The Central Health Ministry plans to integrate the Rare Donor Registry of India (RDRI) with the e-Rakt Kosh platform.

- **e-Rakt Kosh** – It is a centralized, web-based blood bank management system under the National Health Mission (NHM) of the Ministry of Health and Family Welfare.
- **Developed by** – Centre for Development of Advanced Computing (C-DAC).
- **Key features** – It provides real-time information on blood stock availability across registered blood banks.
- It helps in donor management, blood inventory management, and tracking of blood donations.
- It integrates the state with national-level health systems to streamline blood bank operations.
- It supports both voluntary donations and rare blood group donor identification, soon to be enhanced with integration of the Rare Donor Registry.
- **Rare Donor Registry of India (RDRI)** – It is maintained by ICMR - National Institute of Immunohaematology (NIIH) with data of over 4,000 carefully screened donors tested for 300+ rare blood markers.
- The integration will allow those with rare blood groups to access a centralized system developed under the National Health Mission, providing details on blood banks, blood availability, and blood donation camps across the country.
- **Supporting Innovations –** DNA-based rapid testing kits (multiplex PCR) to detect rare blood types.
- **Point of Care (POC) testing** – For genetic blood disorders like sickle cell anaemia and hemophilia, reducing diagnostic costs.

Significance

- It aims to improve accessibility, traceability, and timely availability of rare blood types across India.
- It enables faster access to rare blood types like Bombay Blood Group, P-null, Rh-null.
- It supports safer transfusions for patients with complex conditions like thalassemia and sickle cell anaemia.
- It ensures nationwide traceability and stock management for rare blood donors and blood banks.

Reference

The Hindu| Integration of rare blood donor registry with e-Rakt Kosh



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