Indigenous Thrombectomy Device for Stroke

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Why in News?

Centre's Department of Science and Technology (DST), recently announced financial support for the development of India's first indigenous thrombectomy device for stroke care.

- A thrombectomy device is a specialized medical tool used ***to remove blood clots also called thrombi from blood vessels***, particularly in the brain, to treat ischaemic strokes.
- **Financial assistance given to -** Mysuru-based S3V Vascular Technologies.
- The company aims to integrate these devices into government reimbursement programs such as Ayushman Bharat, thereby unlocking a domestic market estimated at $2 billion.
- S3V also plans to collaborate with leading hospitals to offer simulator-based training for young interventionalists, especially in *Tier-II cities, where the stroke burden is high.*
- S3V has initiated the CE (Conformite Europeenne) and USFDA (US Food and Drug Administration (FDA)) approval process for these devices to expand access to across India, Asia, Latin America, Europe, and the United States.
- The company also intends to file patents for critical innovations such as the clot retriever head design, braid-over-coil aspiration catheter structures, and several advanced process technologies.

India registered over 1.25 million new stroke cases in 2021, a 51% increase compared to 650,000 cases in 1990.

Reference

Business Standard | Indigenous thrombectomy device