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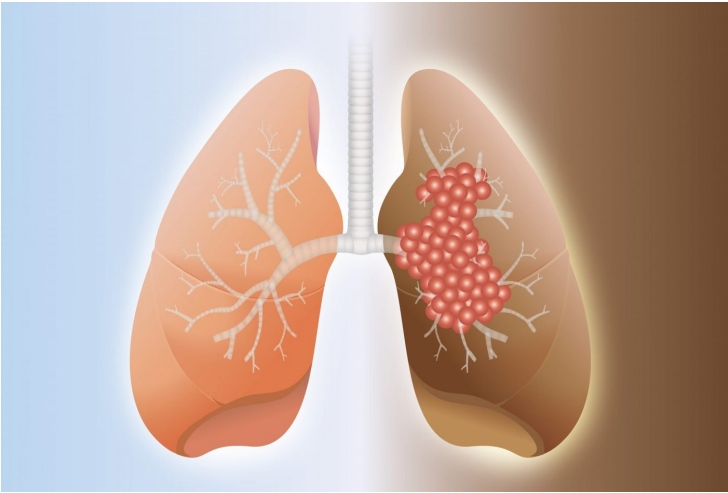
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VIT Bhopal designs tool to improve early detection and long-term monitoring of pulmonary fibrosis

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Collaborative innovation aims to strengthen early disease monitoring, clinical decision-making, and remote respiratory care



Researchers at VIT Bhopal University and collaborating institutions have developed an intelligent remote monitoring system designed to support the continuous assessment of pulmonary fibrosis, a progressive and debilitating lung disease that often requires long-term monitoring to track its progression and optimise treatment.

The innovation has been granted an Indian Utility Patent, marking a significant step in the University's efforts to develop technology-led solutions for pressing healthcare challenges.

The "Apparatus for Dynamic Monitoring and Analysis in Pulmonary Fibrosis," is an intelligent system designed to continuously acquire and analyse patient-related clinical data. The technology aims to help healthcare professionals monitor disease progression in real time, support earlier clinical intervention, optimise treatment strategies, and enable more personalised, data-driven management of patients.

Designed with future-ready healthcare ecosystems in mind, the system has potential applications across continuous patient monitoring, clinical decision support, remote healthcare delivery, telemedicine, treatment evaluation, respiratory disease research, and personalised pulmonary care. By enabling longitudinal analysis of patient data, the technology seeks to support clinicians with timely insights that can improve long-term disease management.