

DBT- BIRAC supports a new online platform for pre-surgical planning

New Delhi, Aug 07: The face of healthcare in India is changing dynamically. With each passing day, health-care entrepreneurs come up with something new to bring a change to the innovation ecosystem.

One such innovation is 'Osteo 3d' from a startup promoted by the Department of Biotechnology's public sector undertaking Biotechnology Industry Research Assistance Council (DBT-BIRAC) .



It is an online cloud-based pre-surgical planning platform that leverages 3D printing technology for the creation of patient-specific models and surgical guides. The surgeons can upload the patient's medical data to the online platform and generate patient-specific 3d printed surgical guides for efficient and accurate surgical procedures. The innovativeness of this concept lies in the fact that it is an affordable solution, besides being unique in nature.

It provides a cost-effective method for efficient and accurate surgical procedures for fibula-based reconstruction for head & neck surgeries-especially for cancer patients. The simple online solution provides access to surgeons in all parts of the country to adopt the latest technology for accurate surgical outcomes.

This 3d printing healthcare startup develops customized solutions from online surgical planning to patient- specific 3d printed organs and then to custom medical models followed by custom surgical glides and then cranial helmets to moulds for cranial flap and further designing for implants. This start-up understands the requirements from doctors and creates customized solutions for patients. It is working on significantly lowering the cost and enhancing the efficiency of complex pre-surgical, surgical and post-surgical procedures by

offering custom, high quality 3d printed objects and proprietary cloud-based software solutions.

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