

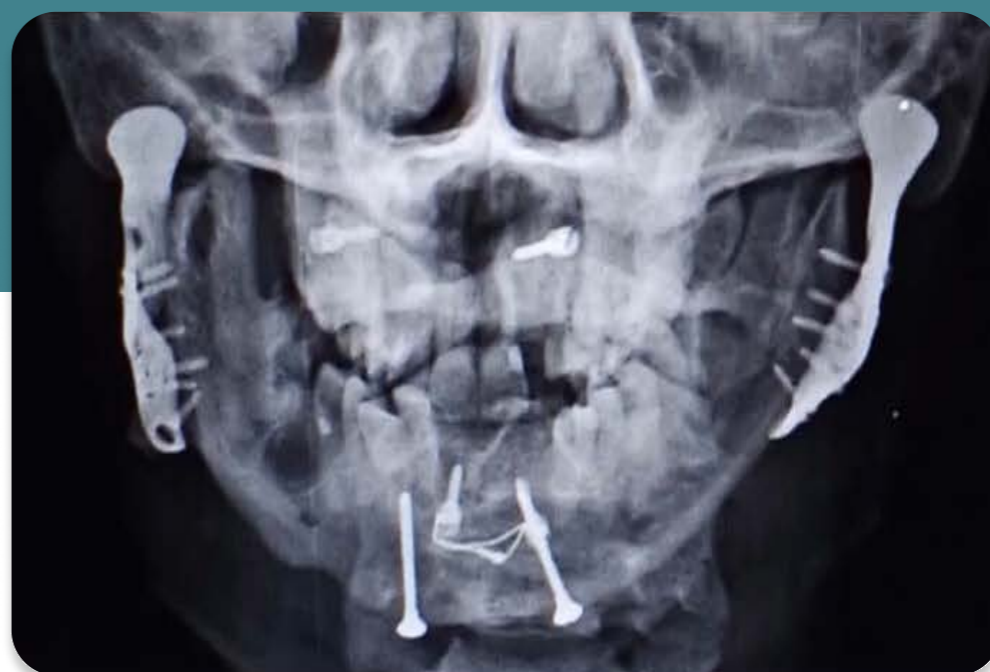


BETIC, IIT BOMBAY

FUNDRAISER FOR

BONE CANCER

PATIENTS



Program Mission

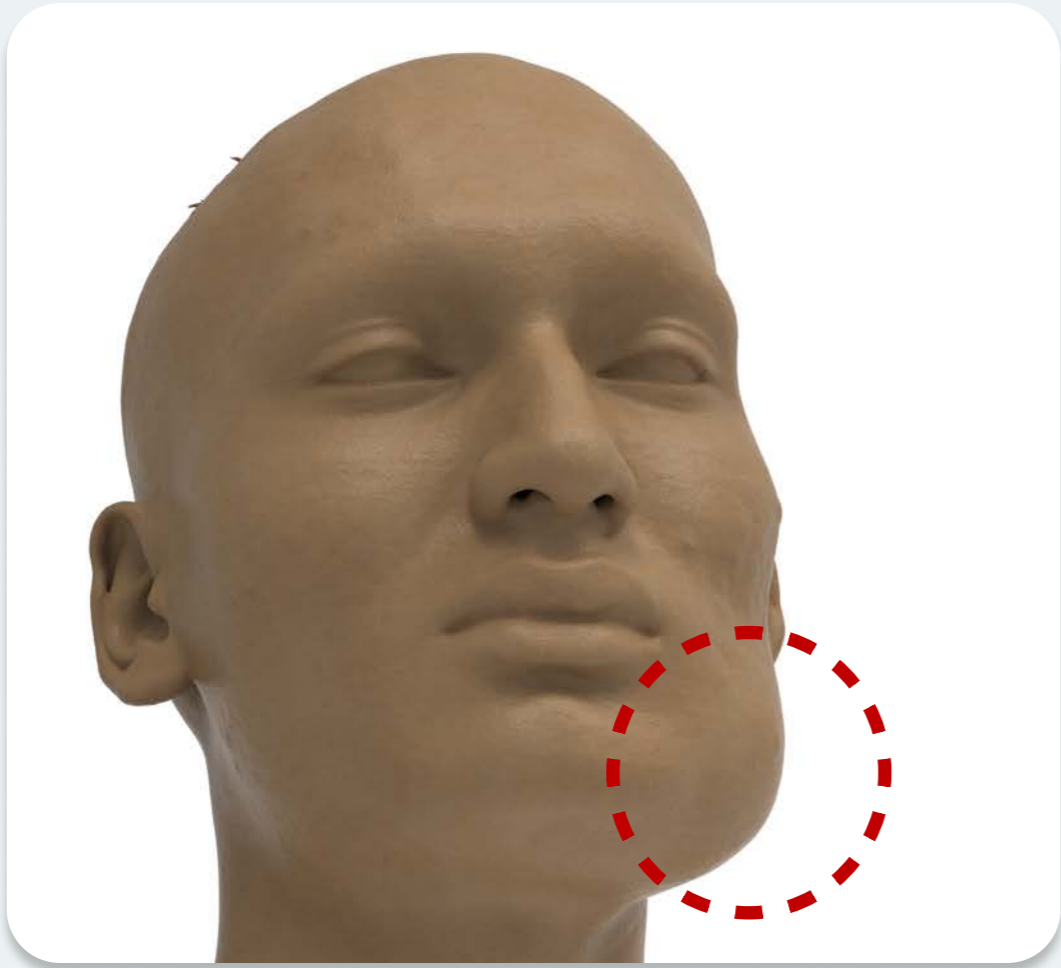
To assist reconstruction of million bone cancer and deformity patients using digital technology

Vision

To improve patient rehabilitation by supporting medical professionals with advanced engineering and technology tools and solutions



BIOMEDICAL ENGINEERING & TECHNOLOGY INNOVATION CENTRE, IIT BOMBAY



Problem Background

Bone reconstruction surgeries are common for patients affected with cancerous and benign bone tumours, deformed bones, and highly fragmented bones due to segmental fractures. Quite often the standard surgical techniques and instruments are not sufficient. Patient-customized devices are required for effective and efficient reconstruction. These customized surgical solutions are costly due to huge capital investment, and costly raw materials.

Solution

The solutions to these challenges are to provide surgeons with 3D virtual bone models for improved assessment of the surgical sight. 3D printed bone models for efficient surgery planning. Bone cutting guide for precise removal of the affected bone, and assuring perfect fitment of implant. And customized implant for functional restoration of the bone.



Infrastructure and Connections

The centre is committed to provide services to underprivileged patients. It has various designing software, plastic and metal 3D printers, and a qualified and specialized team for developing customized implants and instruments. Our good network with hospitals and a well-defined patient selection process assures that needy patients get the maximum benefits of the raised funds. Currently our partner hospitals are KEM, Nair, Cooper, Sion, Wadia, Hinduja, MGM, Nanavati, Jupiter, Bombay, Kokilaben, Saifee, Ratna, JJ Hospital, and many more.



IMPLANT DEVELOPMENT AND USAGE STEPS



- 1 Virtual Surgery Planning
- 2 Plastic printed bone model
- 3 Osteotomy Jig / Pin guide
- 4 Metal Printed Implant
- 5 Quality Check
- 6 Surgery

Join us

Your contribution and support help our committed experts in achieving this noble cause of giving something back to society. Together we can work for a reason, and quickly reach the untouched needy people who are looking at us with hope. Gratitude to the previous fund providers for the support. Even a small amount donated will be precious to the patients.

Support us

Bone reconstruction surgeries require 3D virtual bone models, 3D printed bone models, bone-cutting guide, and a customized implant. Donors can also support us by helping us in establishing an in-house medical grade infrastructure dedicated to the purpose.

Implants

1 Implant	₹50k
10 Implants	₹5L
100 Implants	₹50L

Infrastructure

Sand blasting	₹4L
Centrifugal Tumbler	₹7L
Ultrasonic Cleaner	₹20L
Wirecut EDM	₹40L
Cleanroom facility	₹45L
Annealing Furnace	₹80L

*Cost of implants and implants manufacturing equipments

Contact us

Interested donors can donate or enquire

Dr. Bhanupratap Gaur,

Project Manager,

BETIC, IIT Bombay

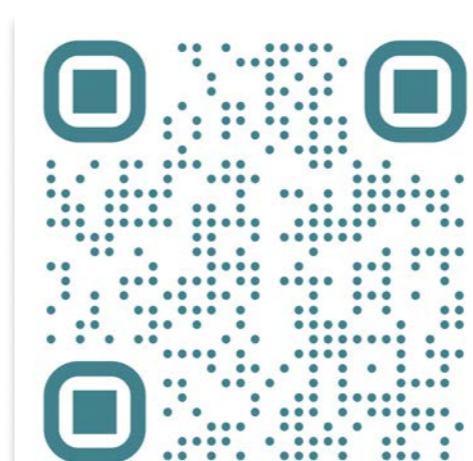
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+91-22-25764399

30004923@iitb.ac.in

Beneficiary Name.

IIT Bombay Donation Account



SCAN FOR
PAYMENT PORTAL

Account No.

10725730111

IFSC Code.

SBIN0001109

Bank & Branch.

SBI, Powai