



Institutional Distinctiveness

ESTABLISHMENT OF POST COVID-19 MUCORMYCOSIS TREATMENT & REHABILITATION CENTRE

Introduction:

The second wave of the COVID-19 pandemic witnessed a significant increase in the occurrence of mucormycosis, a fungal infection that primarily affects the jaw. This emerging global disease demands aggressive surgical treatment and subsequent prosthetic rehabilitation to restore patients' health.

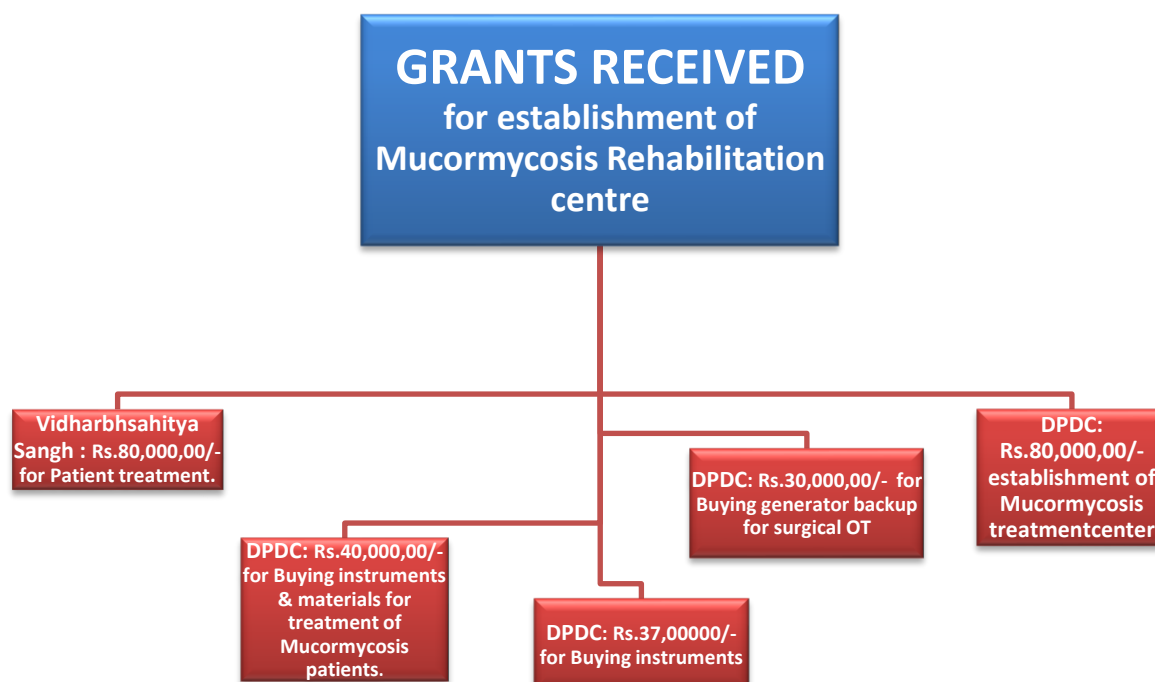
In Central India alone, a staggering 1,500 cases of this dreaded fungal infection were reported, highlighting the severity and impact of mucormycosis on the region's population

Challenges & opportunities:

GDCHN faced a substantial influx of post-COVID mucormycosis cases from central India, presenting a daunting task of managing the rapid spread of the infection and addressing its debilitating effects on patients. However, GDCHN perceived this situation as an opportunity to provide exceptional and tailored services, ultimately serving humanity and meeting the critical needs of mucormycosis patients.

Establishment of Mucormycosis Rehabilitation Centre:

The institution took the initiative to establish first-of-its-kind Mucormycosis Rehabilitation Centre in Central India. With funding support from various agencies, this rehabilitation centre was established with state-of-the-art facilities that include a cutting-edge 3D printing unit and augmentation of operation theatre with the latest gadgets required for effective management of mucormycosis cases.



Management Protocol:

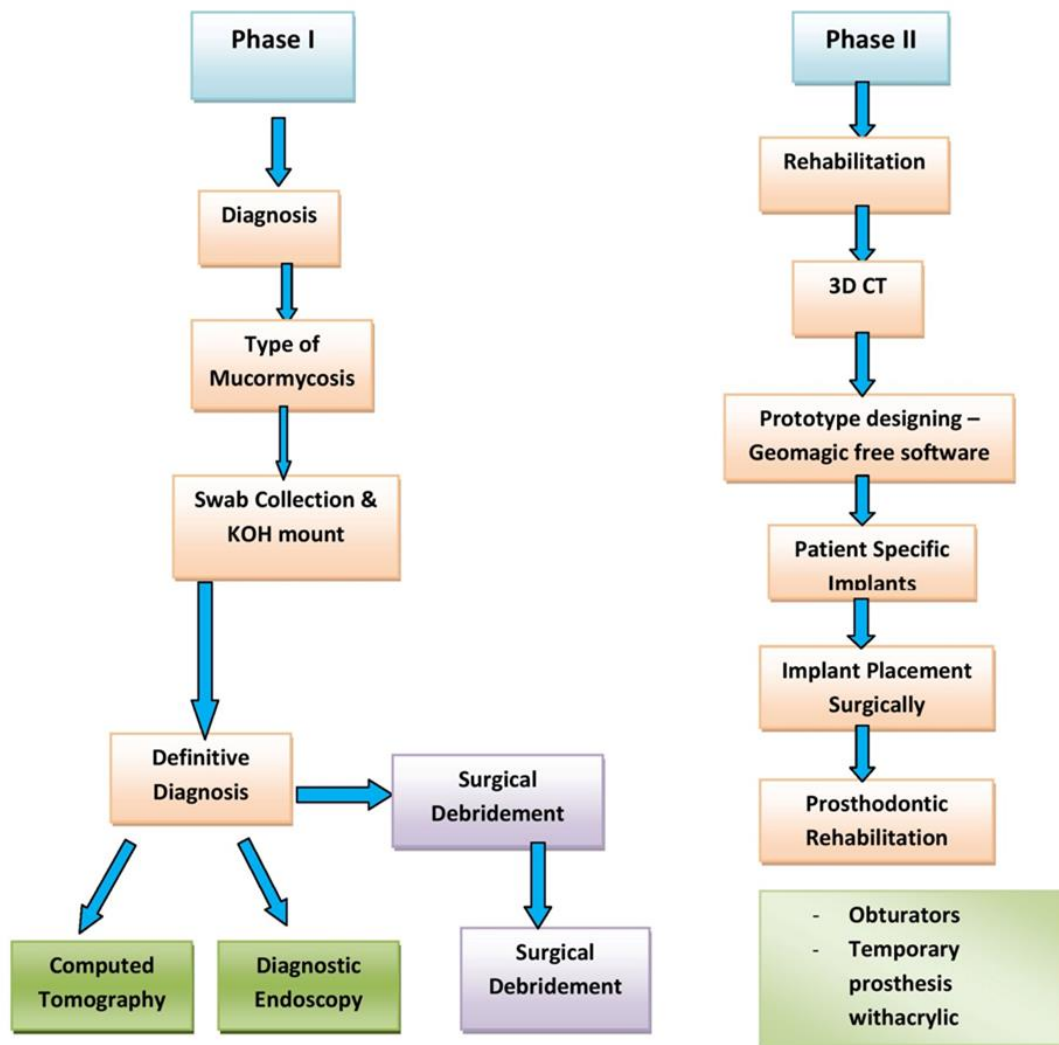
Surgical Phase:

A total of 115 patients reported to the institute underwent various surgical procedures based on the extent of infection, including partial maxillectomy, subtotal maxillectomy, total maxillectomy, and zygomatic resections. In addition, amphotericin injections were made accessible through the cooperation of District Collector and Civil Surgeon's office.

Prosthetic Phase:

After undergoing surgical correction, many patients experienced significant loss of facial bone, including the maxilla and surrounding structures, resulting in both aesthetic and functional limitations. It became imperative to provide these patients with prosthetic solutions to restore their appearance and functionality.

To address this need, a MOU was established with our engineering partner, LUCID. Through this collaboration, patient-specific implants were designed and placed by surgeons during the second stage of surgical protocol based on their specific requirements.



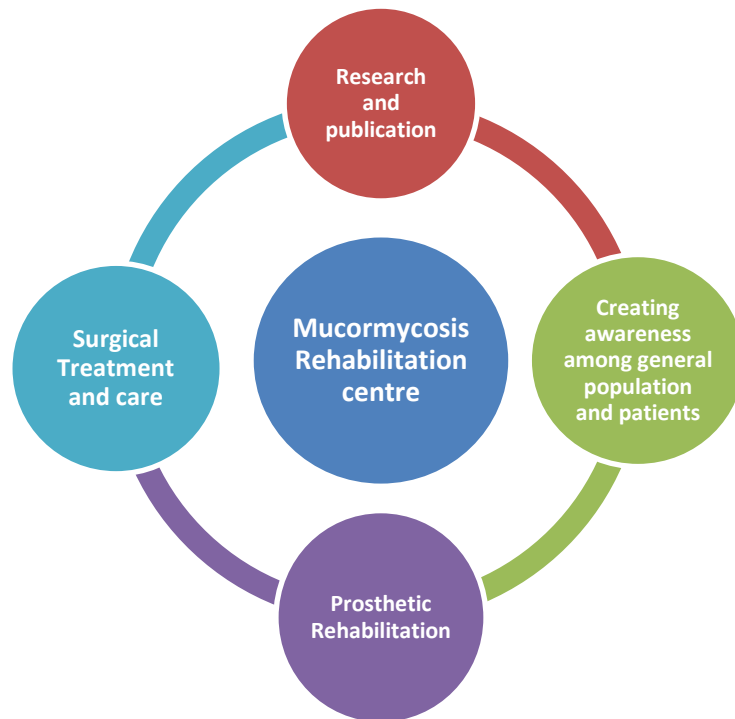
Contribution to Research :

The institute has made substantial contributions to the field of mucormycosis by publishing research and treatment-related studies in various esteemed International and National Journals. Additionally, our esteemed faculty members have shared their valuable experiences in the management and rehabilitation of mucormycosis at numerous International and National platforms, serving as guest faculty. Their presentations and insights have garnered significant appreciation and recognition from the medical community.

Services at other institutes and creating awareness:-

Leveraging their expertise gained from managing mucormycosis cases, GDCHN's faculty members extended their services to All India Institute of Medical Sciences, Nagpur, by performing surgeries for admitted cases.

To raise public and patient awareness, informative articles were published in various newspapers and online lectures and training programs focused on the diagnosis and management of mucormycosis-affected patients were organized for surgeons within and outside Nagpur.



Path Ahead:-

This noble work of rehabilitating patients is an ongoing process that yields excellent results, enabling patients to regain their happiness, form, and function. It upholds the motto of "Service to Humanity" and remains dedicated to providing continuous support and care.