

INSTITUTIONAL DISTINCTIVENESS

ORAL CANCER TERTIARY CARE CENTRE

The Institution has been distinctive in developing itself as a **Tertiary Care Referral Centre** for **Oral Cancer Screening Diagnosis and Treatment in West Bengal**. Aligned with the Mission of the Institute to provide “ *Comprehensive and Affordable Patient Care to the Society* ” the institute has developed its distinctiveness in providing cancer care by addressing each aspect oral cancer in totality.

SCREENING OF ORAL CANCER

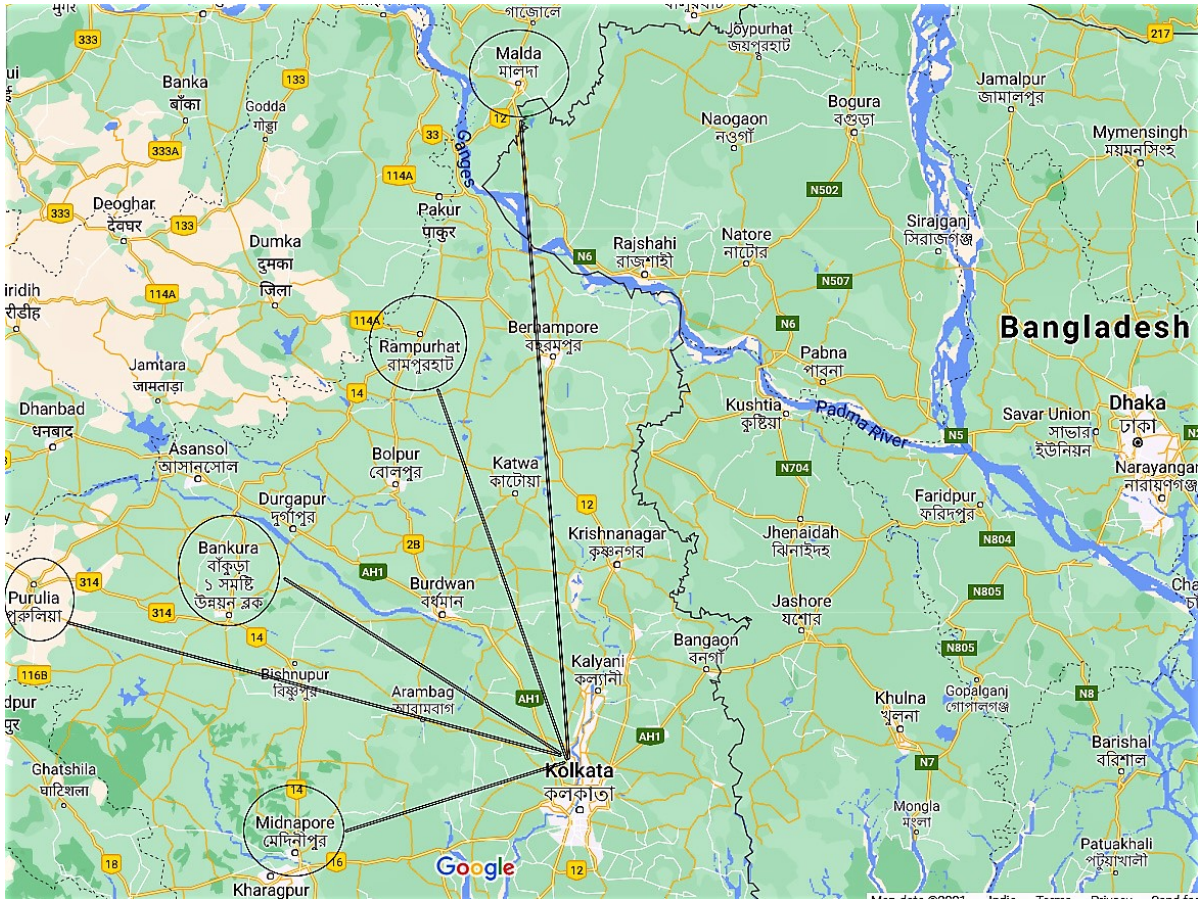
The Institute has an established **Tobacco Cessation Centre** under the Operational Guidelines 2018 under the **National Tobacco Control Program**. The centre provides mass screenings , tobacco use assessment and sequential visits for behavioural , pharmacological or surgical intervention. 1675 screenings were done between June 2019 to March 2020 in high risk individuals.

DIAGNOSIS & TREATMENT PLANNING

Use of **Toluidine Blue Staining** (Mass Screenings) and **Brush Biopsy** (Rapid Screening within 2 hrs) are done to high risk groups to identify oral cancer and precancerous lesions for necessary intervention. **Interdisciplinary Tumor-Board / Seminars** are conducted between Departments of Oral & Maxillofacial Surgery & Oral Pathology for lesions which have obscure and indistinct clinicopathological picture.

GEOGRAPHICAL COVERAGE

GNIDSR has a geographical coverage of influx of oral cancer patients from regions of **Bankura , Balurghat , Rampurhat , Purba Mednipore and Malda**. This encompasses an outreach of more than **350+ km from Kolkata**.



GEOGRAPHICAL COVERAGE OF INFLUX OF ORAL CANCER PATIENTS TO GNIDS

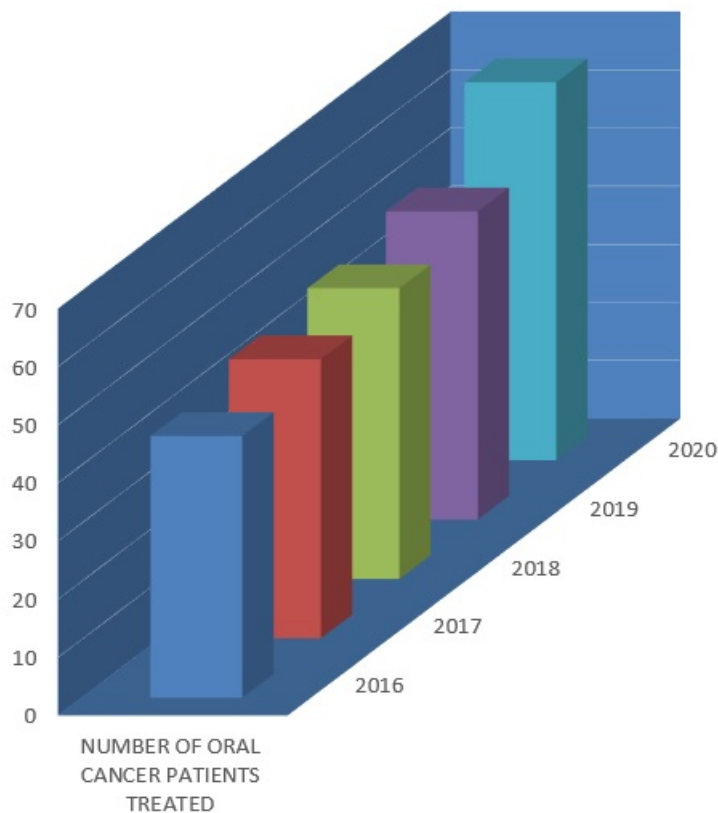
INFRASTRUCTURE & RESOURCES

The Institute has well equipped Operation Theatre both at **College of Medicine Sagar Dutta Hospital (CMSDH)** and **Dr B.C Roy Hospital , New Barrackpore** with a 20 bed allotment at each hospital. The operation theatre is equipped with **Dräger™ Anesthetic Workstation , Fibreoptic Brochoscope , Harmonic Scalpel and Ultra-Thin Colorado Electrocautery Tips** for precision surgery. For Histopathological Evaluation their exists fine **Rotary Microtome (Leica)** for precision sectioning.

SPECTRUM OF CARE

A total of **301 Oral Cancer Patients** have been operated in the Institute over the last six years , with the maximum number of patients treated in the last year i.e. during the Covid19 Pandemic. The Institute was the only private dental institute to be serving indoor and outdoor patients throughout the lockdown in West Bengal. Almost 55% of the treated patients were from **Rural and Semi-Urban Areas** who are deprived of quality health care. 72% of the

patients had mandibular carcinomas , compared to the 28% with maxillary lesions. Even lesions with N0 Neck Lymph Nodes were treated with **Primary Excision/Resection with Prophylactic Neck Dissection** to ensure better survival rates. Approximately 20% lesions were reconstructed by primary rotation flaps , whereas 80% lesions were reconstructed by regional pedicle flaps like **Forehead , Pectoralis Major Myocutaneous , Nasolabial , Temporalis Myofascial , Skin Grafts and Fascia Lata Grafts.**



NUMBER OF ORAL CANCER PATIENTS OPERATED IN GNIDSR

CONTRIBUTION TO CANCER RESEARCH

The Institute has contributed to Cancer Research with Studies on Tumor Invasion in Mandibular Bone , Diagnosis of Lymph Node Involvement , **Nano Textural Attributes in Oral Cancer Cells , Surface Characteristics of Oral Cancer Cells by Scanning Electron Microscope and Alpha Enolase as a Prognostic Marker in Oral Submucous Fibrosis.**