Collaborative International Research Program (CIRP) Initiative,

Department of Otorhinolaryngology and Head and Neck Surgery

King George Medical University

Lucknow, India

Mission: Leveraging India's demographics to accelerate innovation in medical sciences worldwide.

King George Medical University has been at the forefront of collaborating with leading global academic and private research organizations. Researchers worldwide seek KGMU's help in accessing critical patient data and assessment help to validate their innovations. The CIRP leverages India's demographic advantage to accelerate research on important and life-saving innovations worldwide. The doctors and clinicians participating in CIRP are highly trained, globally educated and well-versed in clinical studies and research. The CIRP doctors at KGMU have conducted research programs with leading global academic organizations and industry. Those at the department of Otorhinolaryngology have collaborated with international academic institutes such as University of Pennsylvania USA, UTMD Anderson Cancer Center USA, Stanford University CA USA, University of British Columbia Vancouver Canada to name just a few apart from global industries like Pfizer etc. The CIRP overall has collaborations with leading national laboratories, statisticians and medical advisors, to help complement any skill gaps within the Medical College.

Since the KGMC is a non-profit, public-funded academic university hospital, space for such collaborative programs is very limited. Programs are selected based on their academic content, benefit to society and alignment with research interests of the CIRP clinicians. Please provide a non-confidential summary of your proposed program pertaining to otolaryngology and allied aspects in case you wish to be considered (email anupammishra@kgmcindia.edu). We look forward to working with you in making valuable contributions to medical science worldwide.

Given below are chosen examples/ publications of CIRP global collaborations with the department of Otolaryngology and head and neck Surgery and resulting academic and clinical successes:-

- The department of Otolaryngology, KG Medical University, Lucknow India was the first centre in the country to start Olfactory clinical research in collaboration with The Smell

and Taste Centre, Department of Otolaryngology and Head and Neck Surgery, Hospital of University of Pennsylvania, Philadelphia USA

- The current chairman of department of Otolaryngology, KG Medical University, Lucknow India was conferred with Honorary Membership of Smell and Taste Centre of Department of Otolaryngology and Head and Neck Surgery, Hospital of the University of Pennsylvania, Philadelphia, USA, in 2008 after an ongoing research collaborations since the year 2000, for furthering such joint collaborative efforts.
- The department of Otolaryngology, KG Medical University, Lucknow India introduced a novel transorbital approach to infratemporal fossa for the first time in the world literature.
- The department of Otolaryngology, KG Medical University, Lucknow India through the field work and in collaboration of BPKIHS faculty of Nepal designed a novel cost effective instrument for nasal examination as an alternative to costly sinuscopes for the third world.
- The department of Otolaryngology, KG Medical University, Lucknow India designed (and patented) "Spheno-Palatine Fossa Dissector" for surgical management of Juvenile nasopharyngeal angiofibroma through transpalatal route especially relevant for surgical centers in poor countries.
- The department of Otolaryngology, KG Medical University, Lucknow India designed (and patented) a unique instrument known as the "Trans-orbital retractor for infratemporal fossa access (**TORITA**)".
- Currently 5 international collaborations are in the pipeline.

To mention only a few publications resulting from collaborative efforts, the department of Otolaryngology at KG Medical University, has published on the following topics:

- Expression of Radioresistant Gene PEG10 in OSCC Patients and Its Prognostic Significance in Asian Pac J Cancer Prev. 2017
- Current Molecular Profile of Juvenile Nasopharyngeal Angiofibroma: First Comprehensive Study from India in Laryngoscope. 2017.
- Clinico Pathological profile of Deep neck space infection: A prospective study in Ind J Otolaryngol Head Neck Surg. 2017.
- Juvenile Perinasal Angiofibroma in Ind J Otolaryngol Head Neck Surg. 2017.
- True bilateral nasopharyngeal angiofibroma in Eur Arch Otorhinolaryngol. 2016

- In defence of transpalatal, transpalatalcircumaxillary (transpterygopalatine) and transpalatal-circumaxillary-sublabial approaches to lateral extensions of juvenile nasopharyngeal angiofibroma in J Laryngol Otol. 2016.
- Time trends in recurrence of juvenile nasopharyngeal angiofibroma: Experience of the past 4 decades in Am J Otolaryngol - Head & Neck Med & Surg. 2016.
- Human Papilloma virus in Juvenile Nasopharyngeal Angiofibroma: possible recent trend in Am J Otolaryngol - Head & Neck Med & Surg. 2016
- Current Status & Clinical correlation of Beta-Catenin in Juvenile nasopharyngeal Angiofibroma in J Laryngol Otol. 2016.
- Clinical Predictors of Streptomycin-Vestibulotoxicity in Indian J Otolaryngol Head Neck Surg. 2016
- Isolated acute sphenoid sinusitis presenting with hemicranial headache and ipsilateral abducens nerve palsy in BMJ Case Reports 2015
- Head and Neck Cancer: Global Burden and Regional Trends in India in Asian Pac J Cancer Prev. [2014].
- Oral Sex and HPV: Population Based Indications in Ind J Otolaryngol Head Neck Surg [2012]
- Transorbital approach to Infratemporal Fossa: A novel technique in J Laryngol Otol [2011].
- Interventions for atrophic rhinitis as a Cochrane Review, 2012.
- A rare case of jugular foramen chordoma with an unusual extension in Arch Otolaryngol Head Neck Surg. [2011].
- Prevalence of Deafness in Indian Population: An Epidemiological Study for Health Policy Considerations in Indian Journal of Public Health (2011).
- Head and Neck Cancer in India: Review of practices for Prevention Policy in Oral Diseases (2009]
- Head Shake Computerised Dynamic Posturography in Peripheral Vestibular Lesions in American Journal of Audiology 2009.
- Approach and safety of Comprehensive Central Compartment Dissection in patients with Recurrent Papillary Thyroid carcinoma in Head and Neck 2009.
- Environmental effects on Head and Neck cancer in India in Journal of Clinical Oncology 2009.
- Predictors of level V metastasis in well differentiated thyroid cancer in Head & Neck 2008.
- A pilot study to evaluate post treatment cephalometric changes in subjects with OSA in Journal of Prosthetic Dentistry 2010.
- Endodermal sinus tumor of paranasal sinuses in Head & Neck 2008.

- Pediatric Cochlear Implantation II: postoperative follow up as Main Article in Ind J Otolaryngol Head & Neck Surg, 2008.
- Head and Neck Cancer Biology I as main article in Ind J Otolaryngol Head & Neck Surg 2007.
- Head and Neck Squamous Cell Cancer: Biology (II) and Translational Methods in Ind J Otolaryngol Head & Neck Surg, 2007.
- Cytogenetics in Head and Neck Cancer as Main article in Ind J Otolaryngol Head & Neck Surg, 2007.
- Initiating tumor banking for translational research: MD Anderson and Liverpool experience in Indian J Cancer 2007
- Olfactory dysfunction in leprosy in the LARYNGOSCOPE, 2006
- Telemedicine in Otolaryngology (An Indian Perspective), in Ind J Otolaryngol Head & Neck Surg, 2003
- Pediatric Cochlear Implantation – I: Candidacy, in Ind J Otolaryngol Head & Neck Surg. 2003
- Unusual Solitary osteochondroma of Mandibular Ramus in The Journal of Laryngology and Otology (J.L.O. England), January 2002
- Congenital Periodic Alternating Nystagmus – Response to Baclofen, in Ann N Y Acad Sci 2002.
- Olfaction – A clinical Approach, in Ind J Otolaryngol Head & Neck Surg, 2002.
- State of Art Review: Olfaction and It's Alteration by Nasal Obstruction, Rhinitis, and Rhinosinusitis, in the LARYNGOSCOPE 2001.
- Cost effective diagnostic nasal endoscopy with a modified otoscope, in J Laryngol Otol. 2001.
- Olfaction – Quantification and Management, in Ind J Otolaryngol Head & Neck Surg 2001