

GSR INSTITUTE OF FACIAL PLASTIC SURGERY



Prof. Dr. Dr. Srinivas Gosla Reddy

BDS, MBBS, MDS, FRCS (Edin.), FRCS (Glasg),
FDSRCS (Edin.), FDSRCS (Eng.), PhD

- Non-profit hospital established in 1996
- Dedicated Cleft & Craniofacial Centre of Excellence
- Presently **1,200** cleft and craniofacial surgeries are done every year
- 4 surgeons and 5 fellows with full support team
- More than **36,000** documented cleft & craniofacial surgeries have been performed since 1996
- **600** primary new born cleft children are registered every year



REACH

**RURAL EFFECTIVE AFFORDABLE
COMPREHENSIVE HEALTH CARE**



**A 25-YEAR REVIEW OF THE REACH MODEL
PROVIDING EQUITABLE AND ACCESSIBLE
CLEFT AND CRANIOFACIAL ANOMALIES
MANAGEMENT IN RURAL INDIA**



BACKGROUND: GLOBAL SURGICAL NEED

- Access to safe, timely, affordable surgery remains limited in LMICs
- ~5 billion people lack access to surgical care
- 143 million additional surgical procedures needed annually
- Surgical disease accounts for ~1/3 of global disease burden
- Lancet Commission on Global Surgery highlighted urgent need for scalable systems



WHAT IS THE REACH MODEL?

Rural, Effective, Affordable, Comprehensive Healthcare

- Developed by SHARE, USA.
- Implemented through GSR Institute of Craniofacial and Facial Plastic Surgery for Cleft And Craniofacial Anomalies Management over last 25 years.
- Community-integrated healthcare delivery model



CORE PRINCIPLES OF REACH

- SUSTAINABLE HEALTH CARE
- CONSISTENT HEALTH CARE
- DELIVERABLE HEALTH CARE
- TRANSPARENT HEALTH CARE



OPERATIONAL FRAMEWORK

THREE STRATEGIC PILLARS:

- **CREATE** – Infrastructure and healthcare systems
- **COLLABORATE** – Research, education, global partnerships
- **COOPERATE** – Community engagement and shared responsibility



IMPLEMENTATION

- Retrospective programme analysis (2000–2025)
- Started as a pilot programme in Medchal Mandal in Hyderabad District and escalated to entire state of Andhra Pradesh and Telangana
- Decentralised healthcare workforce
- Community Health Volunteers, supervisors, and doctors
- Referral pathways linking villages to tertiary surgical care



COMMUNITY-BASED WORKFORCE

- Community Health Volunteer per 5000 population(Sanghas, NGOs, Government organizations and patients)
- Household health registers maintained through Janmabhoomi programme 1,2,3.
- Regular home visits and screening through Anganvadi, RBSK, VROs, VHOs.
- Health supervisors coordinate clusters of villages
- Referral pathways to GSR Hospital



PROGRAMME SCALE (2000–2025)

- 61 districts and 28,453 villages covered
- ~92.5 million population served
- 4,800 Community Health Volunteers trained
- 68 Health Supervisors
- 50 locally based doctors



SERVICE UTILISATION

- ~10,800 outpatient visits annually
- 48–60 community screening programmes per year
- 1,200 – 1,500 referrals to tertiary services



SURGICAL CARE IMPACT

- ~36,000 surgical procedures performed
- Focus on cleft and cranio-maxillofacial deformities
- ~80% procedures provided at no cost
- Remaining services subsidised or full-cost



KEY STRENGTHS OF THE MODEL

- Long-term sustainability
- Community engagement and trust
- Workforce development
- Hybrid financing model (Blended, Convergence, financing model)
- Integrated primary and secondary surgical care



REACH

The project is a working model of Proactive health care delivery system that offers promotive, preventive and primary healthcare to rural population.

One of SHARE remarkable programs REACH (Rural Effective Affordable Comprehensive Health Care). A model of universal, comprehensive rural health care that provides health education, immunizations, antenatal care and primary to tertiary care for a population of 45,000 in 42 villages in the Ranga Reddy District of Andhra Pradesh. Local residents with at least a sixth grade education are trained by MediCiti staff and charged with the task of visiting each home in their assigned territory at least once a month. These Community Health Volunteers (CHVs) collect birth and death data.

GOALS OF REACH

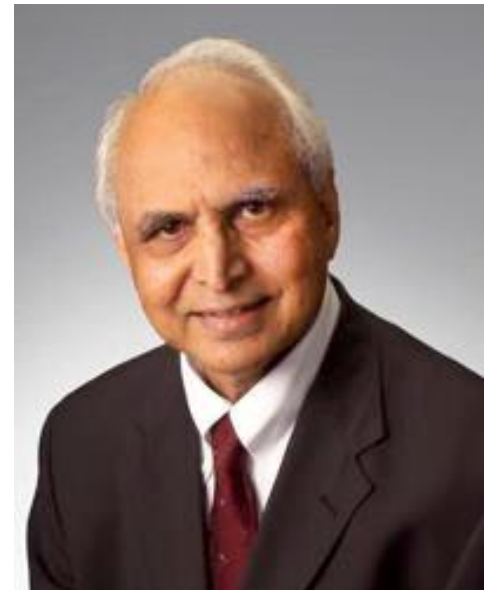
Universal health care to rural population.

Effective (not Nominal) health care.

Affordable (within the economic means of Indian society at large).

Comprehensive (Should include promote, preventive, primary and secondary care).

Sustainability (Accessibility and affordability contribute to substance, growth and development).



Dr. P.S. Reddy, Cardiologist, University of Pittsburgh

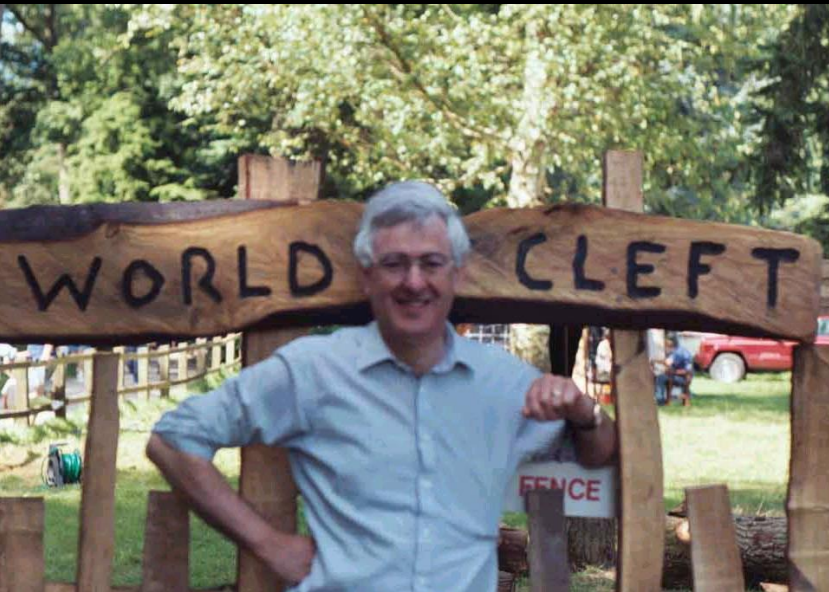


www.craniofacialinstitute.org



“Everyone needs a unique face for his identity”

Prof. Dr. Hermann F. Sailer, President, Cleft Children International

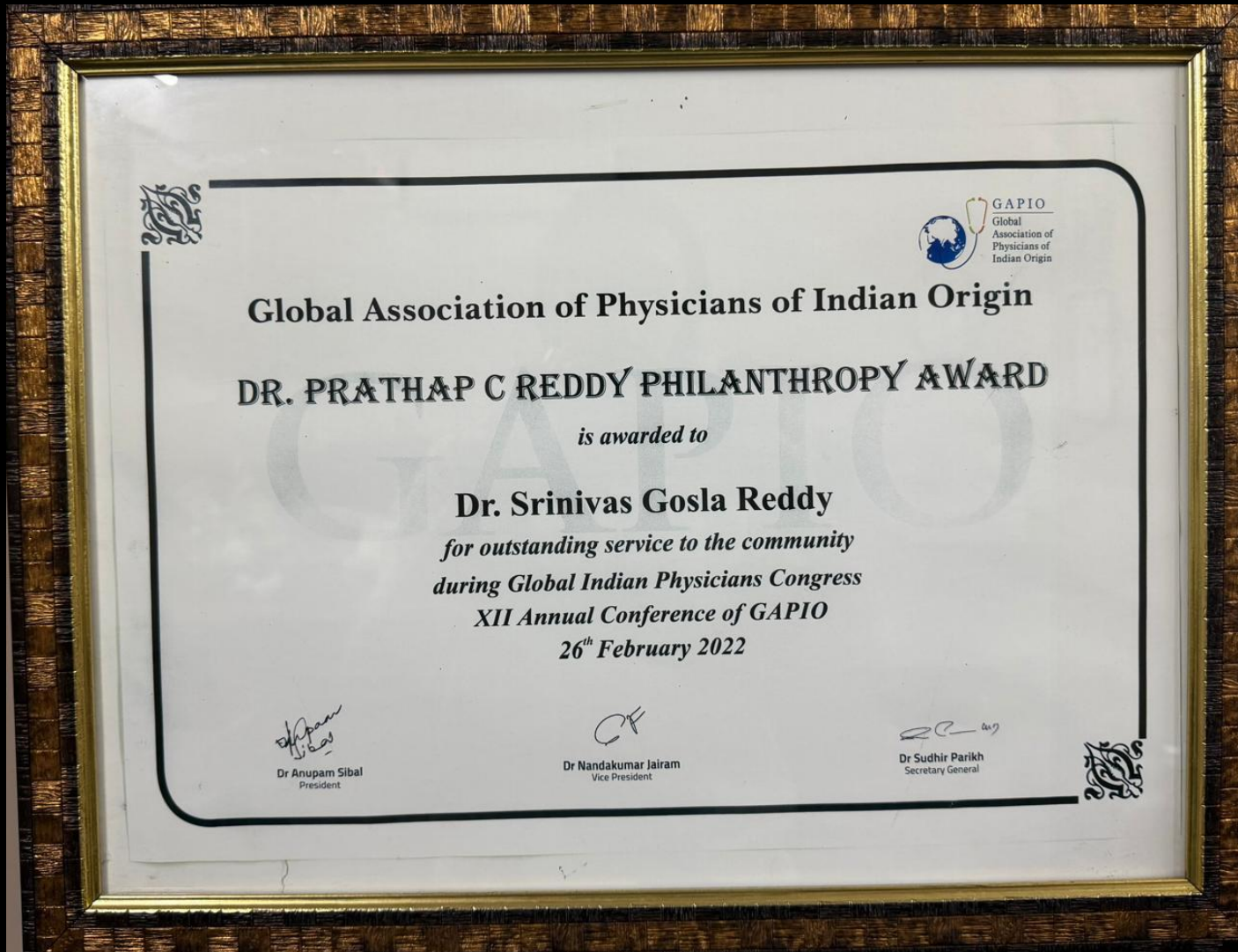


“The cost of sickness and the price of health has shown that poverty and disease form a vicious circle. People are sick because they are poor and poorer because they are sick and sicker because they are poorer.”

Mr. A. F. Markus, Consultant, Dorset Cleft Center, Poole, United Kingdom



PHILANTHROPY AWARD



Philanthropy
In
Surgery

Create

Collaborate

Co-operate



GSR MENTORS- INTERNATIONAL



**Prof. Hermann
Sailer**



Dr. Erika Sailer



**Prof. Tony
Markus**



Dr. Ann Kummer



**Dr Anne Marie
KuijpersJagtman**



**Dr. Maurice
Mommaerts**



**Dr. Dr Stefaan
Bergé**



**Dr. Domenico
Scopelliti**



**Dr. N.
Ravindernathan**



**Dr. Alexander
Hemprich**



**Dr. Stephen
Schendel**



Dr. Hade D. Vuyk



Dr. Nasser Nadjmi



**Dr. Andreas
Mueller**



Dr. Maria Costanza



**Dr. Benito Ramos
Medina**



**Dr. Dr. Tetsu
Takahashi**



**Dr. Fabio
Mazzoleni**



Dr. Joel Ferri



**Dr. Prasad
Nalabothu**



Dr. Bert Braumann



GSR MENTORS- INTERNATIONAL



Dr. Likith V Reddy



Dr. Roberto Brusati



Dr. Timothy Turvey



Dr. David
Staffenberg



Dr. Ulrich Joos



Dr. Robert Gassner



Dr. Micheal Wolf



Dr. Paresh Devani



Dr. Carlo Guissinii



Dr. Eduard
Paraschivescu



GSR MENTORS- NATIONAL



Dr Krishna Shama Rao



Dr Rajendra Prasad



Dr Krishnamurthy Bonanthaya



Mr S.P. Tucker



Dr Neelima Malik



Dr Akhter Husain



Dr J.N. Khanna



Dr Puneet Batra



Dr Nidarsh Hegde



Dr SRIRAM DAMARAJU



GSR MENTORS- NATIONAL



Dr Hemanth Batra



Dr Gunjan Dubey



Dr Anil Managutti



Dr Rohit Punga



Dr Ishan Singh



Dr Madhav



Dr Nilesh Mishra



Dr Rishab Shah



Incidence of cleft Lip and palate in the state of Andhra Pradesh, South India

Srinivas Gosla Reddy, Rajgopal R. Reddy, Ewald M. Bronkhorst¹, Rajendra Prasad², Anke M. Ettema³, Hermann F. Sailer⁴, Stefaan J. Bergé⁵

GSR Institute of Craniofacial Surgery, Hyderabad, Andhra Pradesh, India. ¹Department of Cariology and Preventive Dentistry, ²Radboud University Nijmegen Medical Center, Nijmegen, The Netherlands, ³A. B. Shetty Memorial Dental College and Hospital, Mangalore, Karnataka, India, ⁴Department of Oral and Maxillofacial Surgery, Radboud University Nijmegen Medical Center, Nijmegen, The Netherlands, ⁵Cleft Children International, Zurich, Switzerland

Address for correspondence: Dr. Srinivas Gosla Reddy, GSR Institute of Craniofacial and Facial Plastic Surgery, No. 17-14-1, Vinaynagar Colony, I.S Sadan, Saidabad, Hyderabad, Andhra Pradesh, India. E-mail: goslareddy@gmail.com

ABSTRACT

Objective: To assess the incidence of cleft lip and palate defects in the state of Andhra Pradesh, India. **Design Setting:** The study was conducted in 2001 in the state of Andhra Pradesh, India. The state has a population of 76 million. Three districts, Cuddapah, Medak and Krishna, were identified for this study owing to their diversity. They were urban, semi-urban and rural, respectively. Literacy rates and consanguinity of the parents was elicited and was compared to national averages to find correlations to cleft births. Type and side of cleft were recorded to compare with other studies around the world and other parts of India. **Results:** The birth rate of clefts was found to be 1.09 for every 1000 live births. This study found that 65% of the children born with clefts were males. The distribution of the type of cleft showed 33% had CL, 64% had CLP, 2% had CP and 1% had rare craniofacial clefts. Unilateral cleft lips were found in 79% of the patients. Of the unilateral cleft lips 64% were left sided. There was a significant correlation of children with clefts being born to parents who shared a consanguineous relationship and those who were illiterate with the odds ratio between 5.25 and 7.21 for consanguinity and between 1.55 and 5.85 for illiteracy, respectively. **Conclusion:** The birth rate of clefts was found to be comparable with other Asian studies, but lower than found in other studies in Caucasian populations and higher than in African populations. The incidence was found to be similar to other studies done in other parts of India. The distribution over the various types of cleft was comparable to that found in other studies.

KEY WORDS

Cleft lip & paplate incidence; cleft lip; cleft palate

Access this article online

Quick Response Code:



Website:

www.ijps.org

DOI:

10.4103/0970-0358.73443

INTRODUCTION

Oral-facial clefts, particularly cleft lip with (CLP) or without (CL) cleft palate and cleft palate alone (CP) are a major public health problem affecting 1 in every 500 to 1000 births worldwide.^[1,2] A child is born with a cleft somewhere in the world

Srinivas Gosla Reddy et. al.

Incidence of Cleft Lip and Palate in the state of Andhra Pradesh, South India

Indian Journal of Plastic Surgery, 43(2):184-189, July 2010.



Incidence of cleft defects in the state of Andhra Pradesh

1.09 in 1000 live births

Number of Children born with cleft defects in the state of Andhra Pradesh

1830 every year



Congenital Anomalies Associated with Cleft Lip and Palate Defects in a High Volume Indian Centre

Srinivas Gosla Reddy, MDS, MBBS
Rajgopal R. Reddy, BDS, MBBS
Karunakar Konte, MD
Rajendra Prasad, BDS, MDS

Anke M. Ettema, MD, PhD
Stefaan J. Berge, MD, DDS, PhD
Wilfred A. Borstlap, MD, DDS, PhD

Abstract

Objective: The objective of this study was to find the prevalence of associated anomalies in patients with cleft lip and palate defects. A number of associated anomalies were noticed by the authors while routinely examining patients with cleft and craniofacial defects at their center. An accurate study to identify the prevalence of associated anomalies in cleft lip and palate patients was needed, to emphasize the need for a thorough investigation of children with cleft lip and palate and the need for a multidisciplinary team to diagnose cleft lip and palate. There was also a need to study the impact of associated anomalies on the burden of cleft care in a developing country like India.

Design and Setting: This is a retrospective study of 800 consecutive patients with cleft lip and palate CL=184, CLP=532, CP=84 seen in the year 2006. The data was collected retrospectively by processing the case history of the patients. The patient's cleft defect, age and sex was noted along with the religious background, level of income and consanguinity. The anomalies were classified under 10 headings depending on the organ system affected.

Results: Associated anomalies were present in 330 cases (41.3%). The highest prevalence of 46.4% was found in patients with cleft lip and palate. The lowest prevalence of 27.7% was found in isolated cleft lip patients. There was no significant difference of prevalence found between unilateral or bilateral clefts and complete or incomplete clefts. The skeletal system was affected the most. Anomalies of the skeletal system count for 42% of all anomalies. Logistic Regression was used to calculate if any of the other background data increased the chance of having an associated anomaly showed that having an isolated cleft palate decreased the chance of having an associated anomaly as was being a Muslim or from another religion as compared to being a Hindu. Other background data did not have a statistically significant chance to have an associated anomaly with clefts.

Conclusion: There was a high prevalence of associated anomalies in the study done at this center. There was, however a need to study the reasons for such anomalies further. There is also a need to study the impact of such anomalies on the burden of cleft care in developing countries.

Key words: cleft lip, cleft palate, congenital anomalies, associated anomalies, high volume centre.

Authors:

Srinivas Gosla Reddy, MDS, MBBS
Director, GSR Institute of Craniofacial Surgery, Hyderabad A.P., India

Rajgopal R. Reddy, BDS, MBBS
GSR Institute of Craniofacial Surgery, Hyderabad A.P., India

Karunakar Konte, MD
Division of Pediatrics, GSR Institute of Craniofacial Surgery, Hyderabad A.P., India

Rajendra Prasad, BDS, MDS
Dean, A.B. Shetty Memorial Dental College and Hospital, Mangalore, Karnataka, India.

Anke M. Ettema, MD, PhD
Department of Oral and Maxillofacial Surgery, Radboud University Medical Center, Nijmegen, The Netherlands.

Stefaan J. Berge, MD, DDS, PhD
Head of Oral and Maxillofacial Surgery, Radboud University Medical Center, Nijmegen, The Netherlands.

Wilfred A. Borstlap, MD, DDS, PhD
Department of Oral and Maxillofacial Surgery, Radboud University Medical Center, Nijmegen, The Netherlands.

Corresponding address:

Dr. Gosla Srinivas Reddy
Director, GSR Institute of Craniofacial and Facial Plastic Surgery
No. 17-14-1, Vinaynagar Colony,
I.S. Sadan, Saidabad
Hyderabad, A.P, INDIA
Phone: 040-6576 4884,
Fax: 040-24530000,
Email: goslareddy@gmail.com

Srinivas Gosla Reddy et. al.

Congenital Anomalies Associated with Cleft Lip and Palate Defects in a High Volume Indian Centre

Journal of Cleft Lip Palate & Craniofacial Anomalies, 3(1):1-7, 2011.



Summary of the Issue

Burden of Care

- High Incidence of
 - Clefts (1.09 in 1000 births) and
 - Associated anomalies (41.3% of cleft patients)
- Very few treatment centers
- Lack of funds to treat patients
- Lack of infrastructure
- Lack of awareness



The GSR Institute of Facial Plastic Surgery, Hyderabad

- Treatment for patients is focused on one part of the body thus making it easy for patients to identify their problems and receive treatment.
(Problem with face = GSRIFPS)
- Money raised for a specific purpose benefiting both the donor and recipient.
- Easy to build an administrative system for a hospital treating only one part of the body.
- Funds received can be completely utilized to treat patients.
- Infra structural or administrative expenses can be justified as they are solely used for the work that funding is received for.



Developing and Standardizing a Center to Treat Cleft and Craniofacial Anomalies in a Developing Country Like India

Srinivas Gosla Reddy, MDS, MBBS,* Likith V. Reddy, DDS, MD, FACS,†
and Rajgopal R. Reddy, BDS, MBBS*

Abstract: The range of facial deformities is enormous. All produce some degree of disfigurement and result in the impairment of function to some degree, sometimes even to the point of incompatibility with life. Congenital facial defects in India are associated with considerable superstition, social rejection, and failure to integrate into society.

In India, cleft defects occur in 1 in 500 births. Congenital facial defects are a pressing problem in India owing to the limited resources to treat such patients. Poverty is a major factor for parents of such children to get appropriate treatment.

Setting up an institute to treat children with cleft and craniofacial deformities in India presents problems with financing treatment for poor patients, procuring the right infrastructure, and employing well-trained human resources.

The authors have set up such an institute in Hyderabad in the southern state of Andhra Pradesh in India. The logistics of setting up such a facility in a developing country and the future of funding for cleft treatment are important factors to consider while establishing a center for patients with cleft and craniofacial anomalies.

The aim of setting up such centers was to provide quality comprehensive treatment for patients from all sections of society with cleft and craniofacial anomalies.

Key Words: Cleft lip, cleft palate, craniofacial anomalies, developing and standardizing, institute, cleft surgery, speech therapy, orthodontics

(*J Craniofac Surg* 2009;20: 1664-1667)

The range of facial deformities is enormous. All produce some degree of disfigurement and result in the impairment of function to some degree, sometimes even to the point of incompatibility with

From the *GSR Institute of Craniofacial Surgery, Hyderabad, Andhra Pradesh, India; and †Department of Oral and Maxillofacial Surgery, LSU Health Sciences Center, School of Dentistry, New Orleans, Louisiana. Received January 1, 2009.

Accepted for publication April 9, 2009.

Address correspondence and reprint requests to Srinivas Gosla Reddy, MDS, MBBS, GSR Institute of Craniofacial Surgery, 17-1-383/5, Vinay Nagar Colony, 1 S Sadan, Saidabad, Hyderabad 500059, India; E-mail: gosla@craniofacialinstitute.org

This article did not require any sources of funding.

The authors declare that they had no financial interests or commercial associations during the course of this study.

Copyright © 2009 by Mutaz B. Habal, MD

ISSN: 1049-2275

DOI: 10.1097/SCS.0b013e3181b2d6c7

1664

The Journal of Craniofacial Surgery • Volume 20, Supplement 2, September 2009

life.¹ Congenital facial defects in India are associated with considerable superstition, social rejection, and failure to integrate into society. In managing such defects, the goals of the treatment include the management of the human psyche and the patient's acceptance to the society.

Approximately 15,000 children are born with clefts per hour worldwide. A child is born with a cleft somewhere in the world every 2 minutes.² In India, cleft lip/palate occurs in nearly 1 in 500 live births, and most of these defects are not surgically corrected.³ The congenital facial defects are a pressing problem in India owing to the limited resources. The burden of care for the child with cleft affects the entire family units. It is not unusual to see patients with untreated cleft lip for the entirety of their life. The complete rehabilitation of these patients involves speech therapy and orthodontics; secondary corrections are inconsistent at best and often times unavailable.

India is the second most populated country in the world⁴ with a population of 1,147,677,000. The annual per capita income of India as of February 28, 2008, is Indian Rupee 29,786 (US \$660).⁵ Andhra Pradesh state, where the GSR Craniofacial Institute is situated, is located in the southern part of India. Andhra Pradesh⁶ is spread over an area of 275,000 km² with a population of 81,315,000. The annual per capita income of Andhra Pradesh is Indian Rupee 33,970 (US \$755).⁶ The state is divided into 23 administrative districts with Hyderabad city as its capital. Each district is further divided into mandals. There are 1123 mandals in the state, which are further divided into villages, towns, and cities. There are 26,586 villages in the state. Any place that has more than 0.5 million residents is classified as a town and has a municipal administration. Any town that has a population more than 1.5 million is classified as a city. There are 264 towns and cities in Andhra Pradesh.

The health care delivery system in India and Andhra Pradesh in particular is by 2 pathways: the government-funded hospitals and the private or corporate hospitals.

Government-funded general hospitals are situated in every district capital. Subunits of general hospital are usually located in 2 or 3 large towns in the district and are known as area hospitals. Smaller referral primary health centers or community health centers are located on an average, 1 for every 3 villages. This system of health care delivery is government-funded, and the care provided is free of cost to the patient. These hospitals see more than 2 million patients as outpatients and more than 160,000 patients as inpatients.⁷ The budget allocation for health care by the government of Andhra Pradesh for the financial year 2007 to 2008 was Indian Rupee 13,150 million (US \$292 million).⁸ The per capita allocation of funds for health care is less than US \$4 per person in the state. This also means that government hospitals are understaffed and have poor infrastructure.

The private or corporate hospitals are usually located in larger towns and cities. These hospitals have better facilities and cater to patients who can afford health insurance or can directly pay for the health care services. The average cost of each surgery for simple

Srinivas Gosla Reddy et al.

Developing and Standardizing a Center to Treat Cleft and Craniofacial Anomalies in a developing Country Like India

JOURNAL OF CRANIOFACIAL SURGERY, 20(8):1664-1667, SEPTEMBER 2009.



Philanthropy
In
Surgery

Create

Collaborate

Co-operate



GSR Institute of Craniofacial Surgery



www.craniofacialinstitute.org

OUR FUNDING PARTNERS

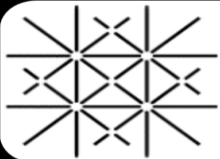


Julius Bär

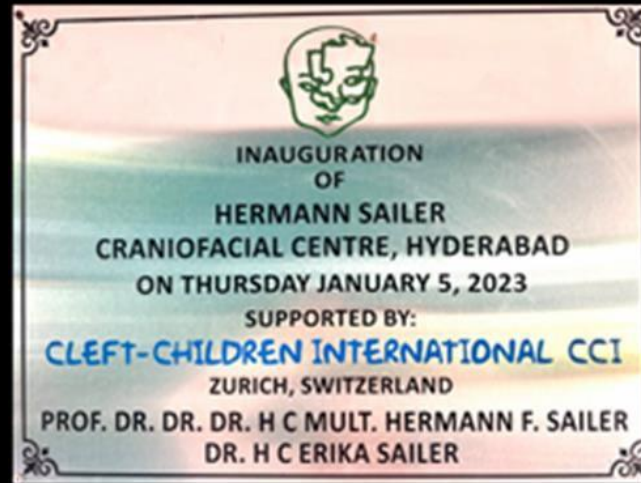
HARUNANI & CO GROUP OF DENTAL SURGERIES
dentistry for you™
Est. 1986
www.dentistryforyou.co.uk

Radboud University

Nijmegen, the Netherlands



Universität
Basel



www.craniofacialinstitute.org

The GSR Institute of Facial Plastic Surgery

From 1996

- Very little Infrastructure.
- Five member part time team of surgeons, anesthetists and dentists.
- Visit seven surrounding districts of Hyderabad two days a week.
- Only surgery is done. No orthodontics or speech therapy.
- Patient pays INR 1,000 (\$25) per surgery for material used during an operation.



GSR Institute of Craniofacial Surgery

Cleft team:

- 4 Surgeons, 5 Fellows,
- 3 Anesthesiologists,
- 3 Speech therapists,
- 2 Orthodontists and 10 nurses.

Infrastructure

- 2 operating rooms,
- 6 bed post operative facility,
- 50 bed patient ward
- Speech therapy unit,
- Dental and orthodontic unit
- Photography and documentation



BOARD OF TRUSTEES



Dr. RAJGOPAL REDDY
PRESIDENT



Dr. SHARADINDU KOTRASHETTI
VICE PRESIDENT



Dr. N. SRINATH
GENERAL SECRETARY



Dr. PAMELA NARAYAN
EXECUTIVE MEMBER



Dr. NITIN BHOLA
EXECUTIVE MEMBER



Dr. H. HARI KISHORE BHAT
EXECUTIVE MEMBER

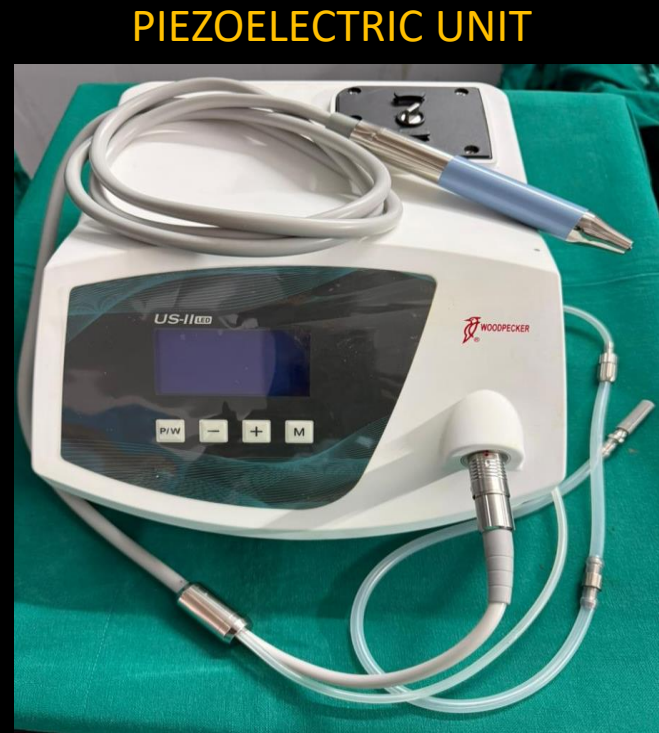


OPERATING ROOMS





CRANIOTOME



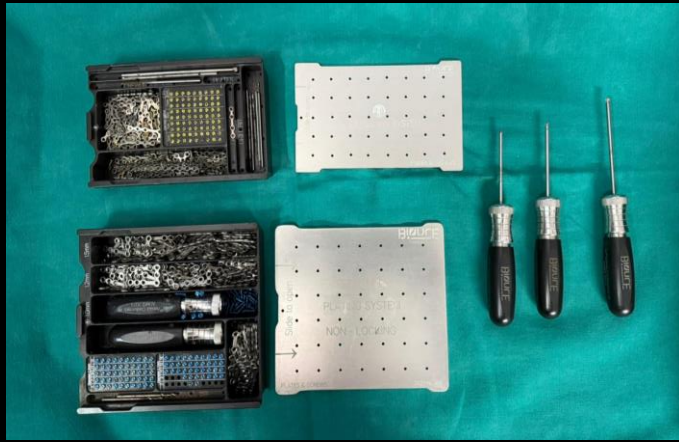
PIEZOELECTRIC UNIT



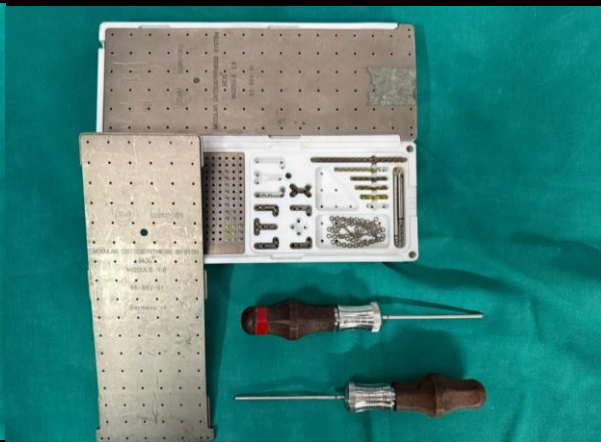
STRYKER



PLATING SYSTEMS



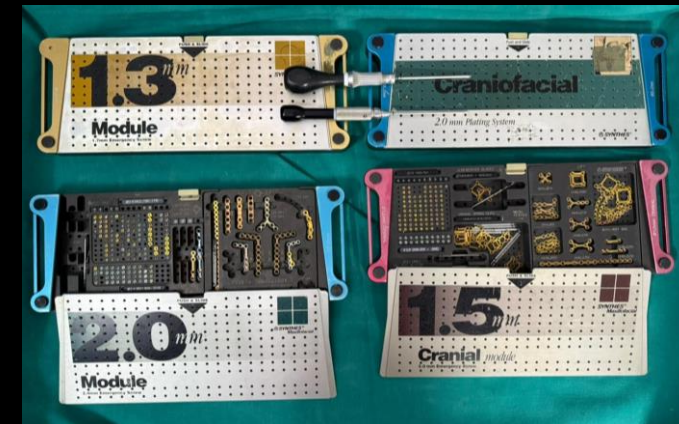
BIORE



KLS MARTIN



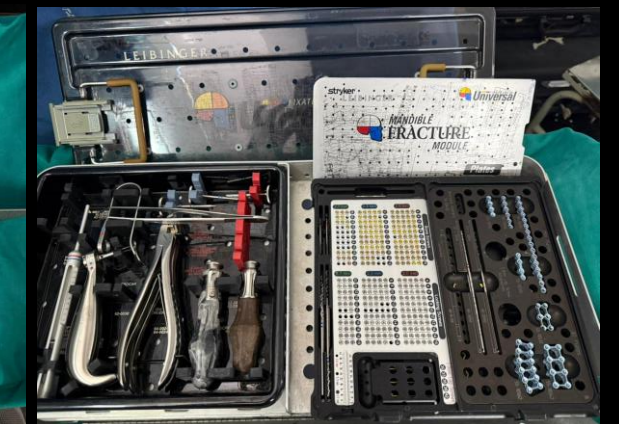
LEIBINGER MANDIBLE



SYNTHESES



LEIBINGER KING COMBO



LEIBINGER UNIVERSAL



3D Printer and 3D Camera



We embrace the future of orthodontics through advanced digital workflows.

Enhanced accuracy

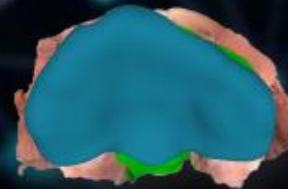
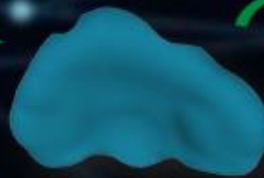
Interdisciplinary coordination

Superior outcomes

Digitally printed passive plates

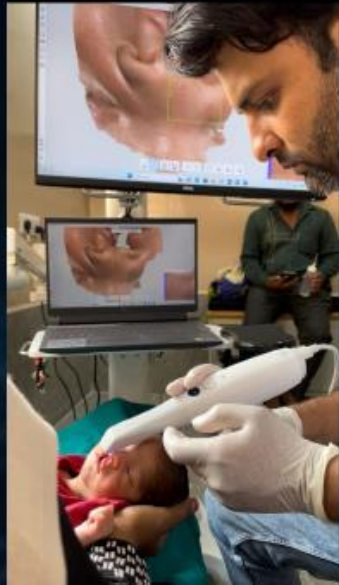


Digital-to-physical model conversion enhanced the accuracy of passive plate design and fit



Digital Work Flow for Passive Plate

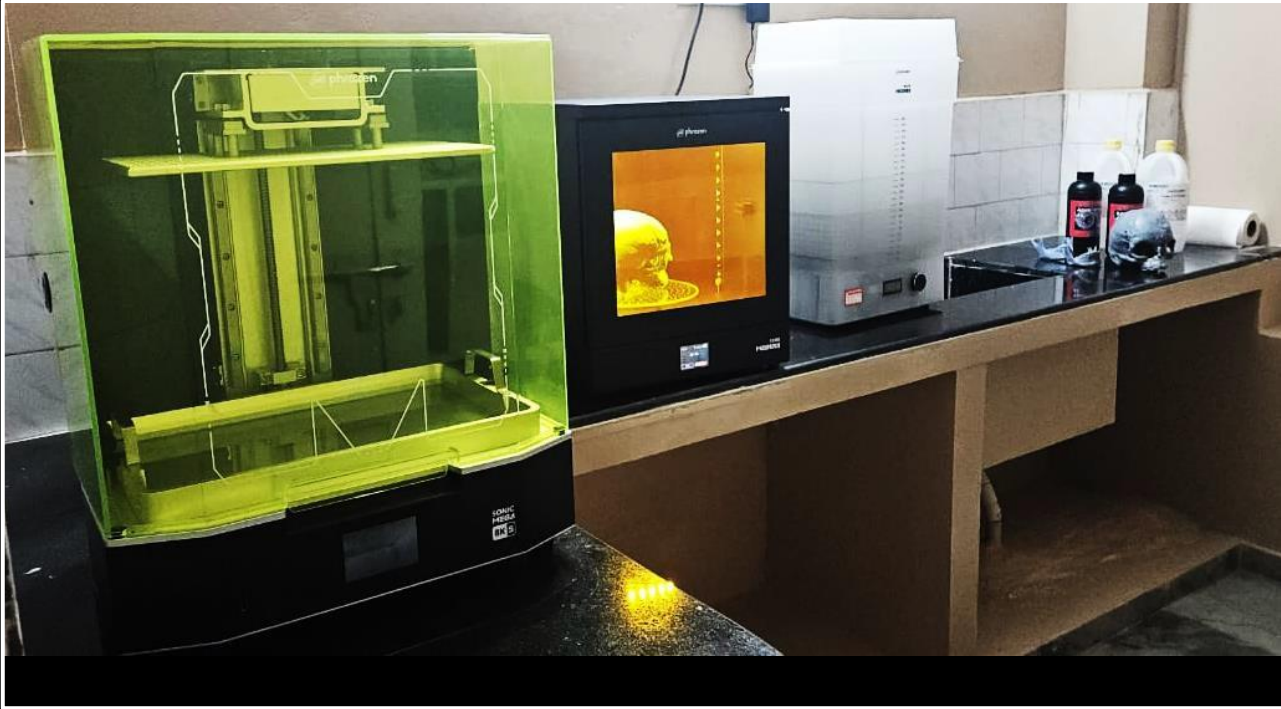




3D PRINTED NASAL CONFORMER



3D LAB

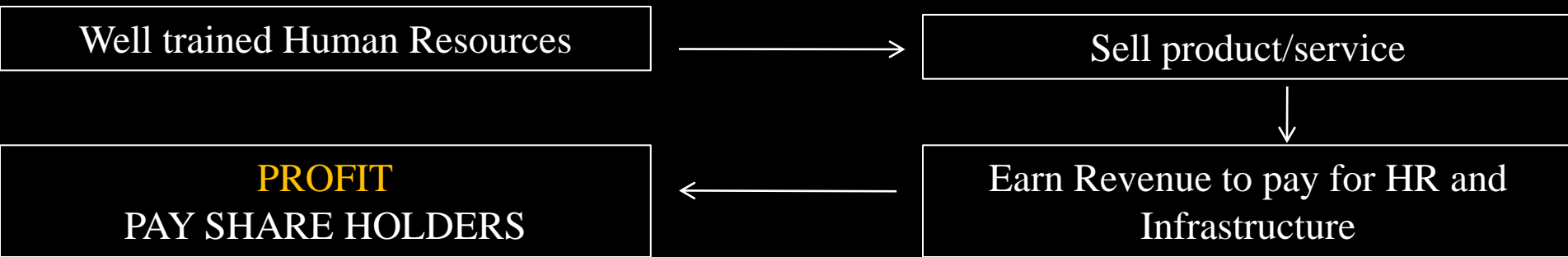




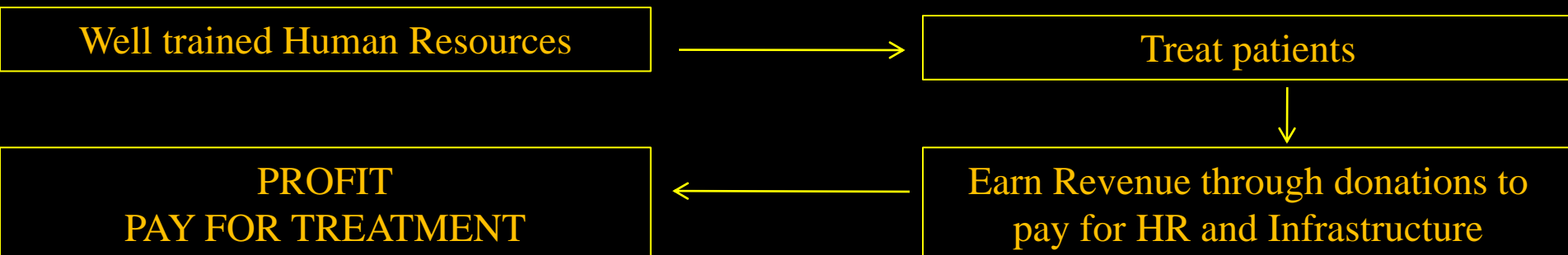
We treat our Cleft Patient as a corporate entity!!!

How???

Corporate Philosophy



Humanitarian Philosophy

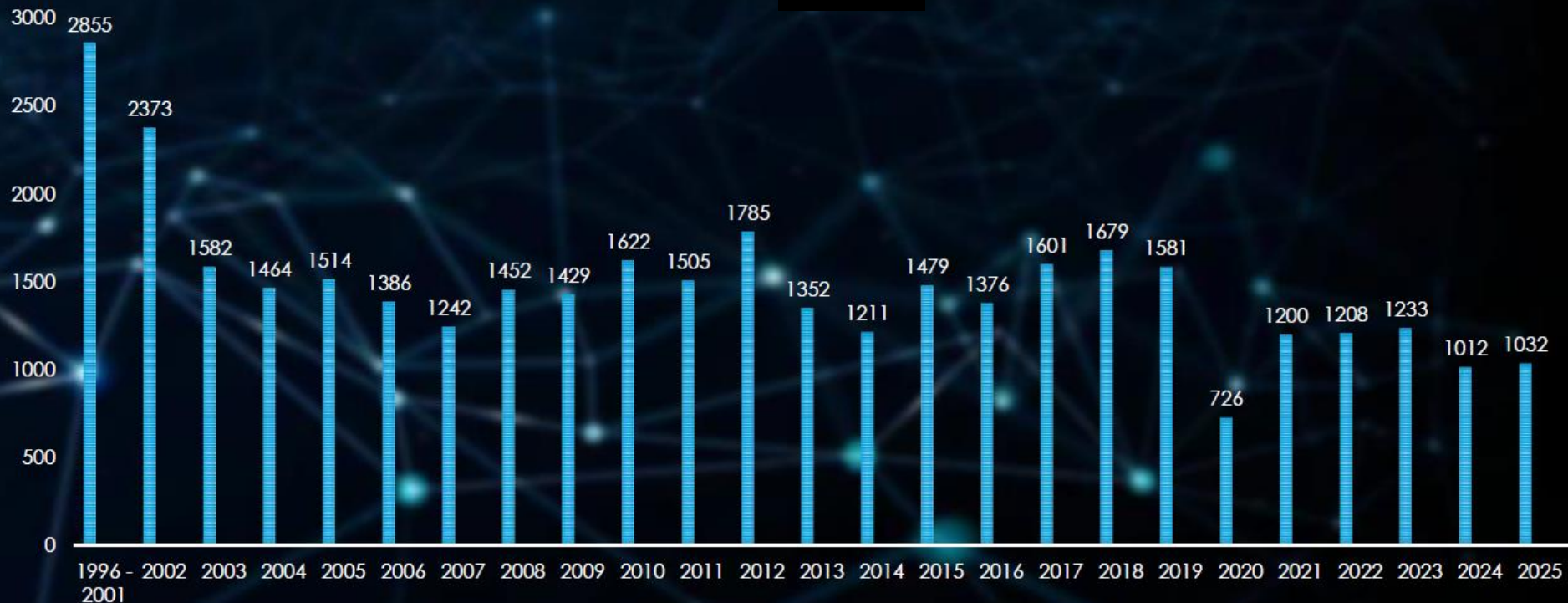


Charity is not for pity
But for Corporatization



OUR CASE VOLUME – CRANIOMAXILLOFACIAL SURGERIES

TOTAL CLEFT AND CRANIOFACIAL SURGERIES FROM 1996 - 2025
: 36899



DEPARTMENT OF CLEFT AND CRANIOMAXILLOFACIAL SURGERY



Dr R Priyadharshini



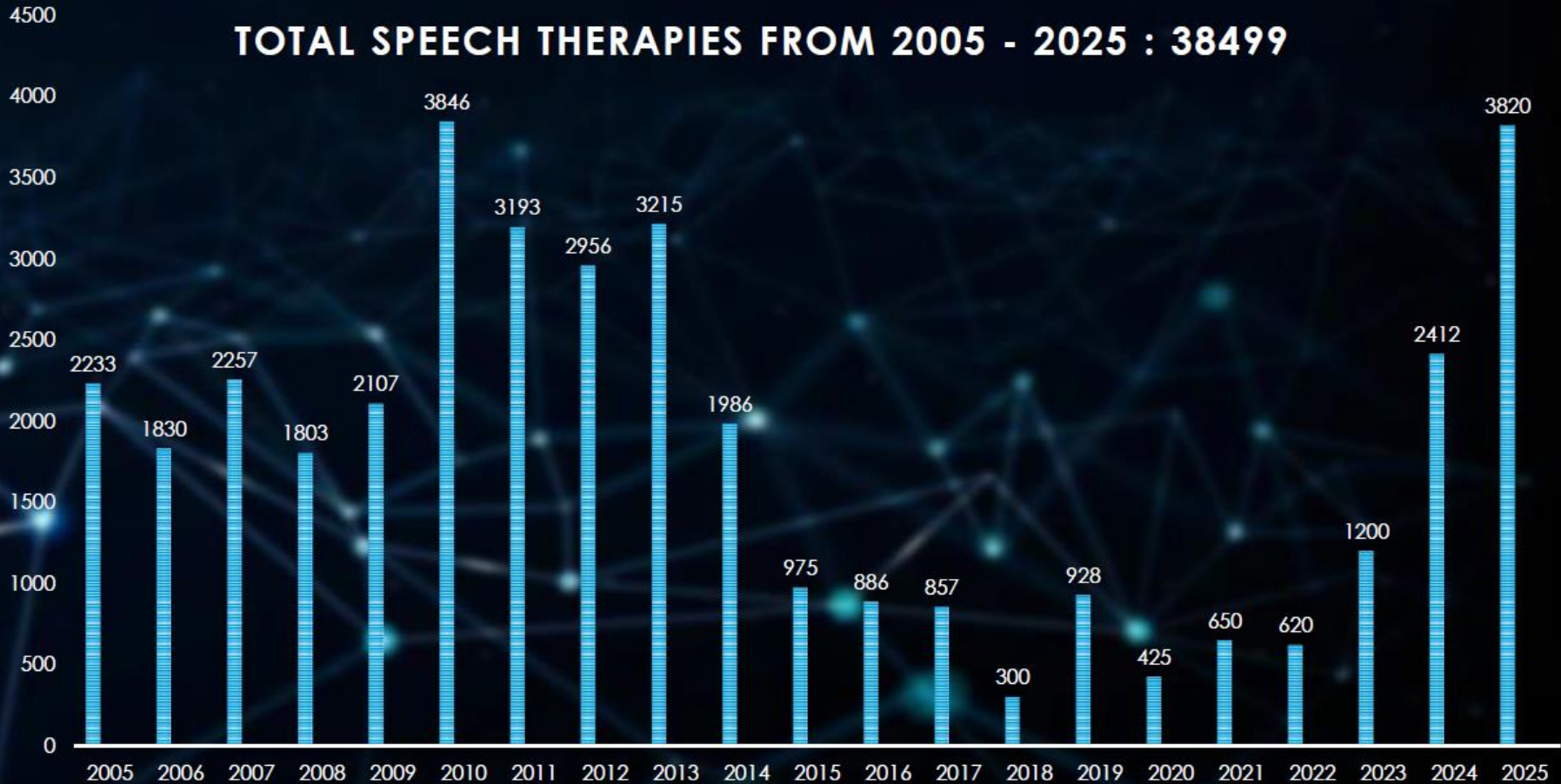
Prof. Dr. Dr. Srinivas Gosla Reddy



Dr Jothish Manohar

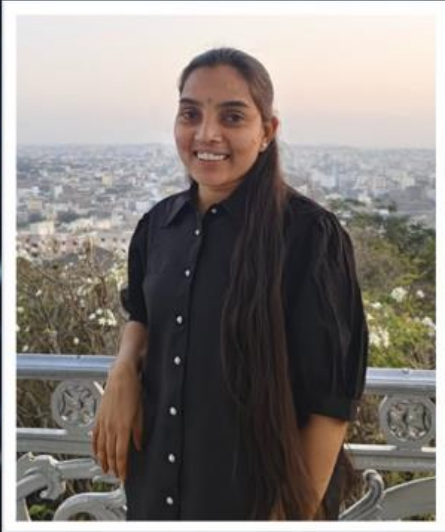


OUR CASE VOLUME - SPEECH



DEPARTMENT OF SPEECH THERAPY

CONSULTANTS



Miss . Padmavathi Devella

BASLP



Dr Myrtle Ciphora

MASLP, MA- Linguistics



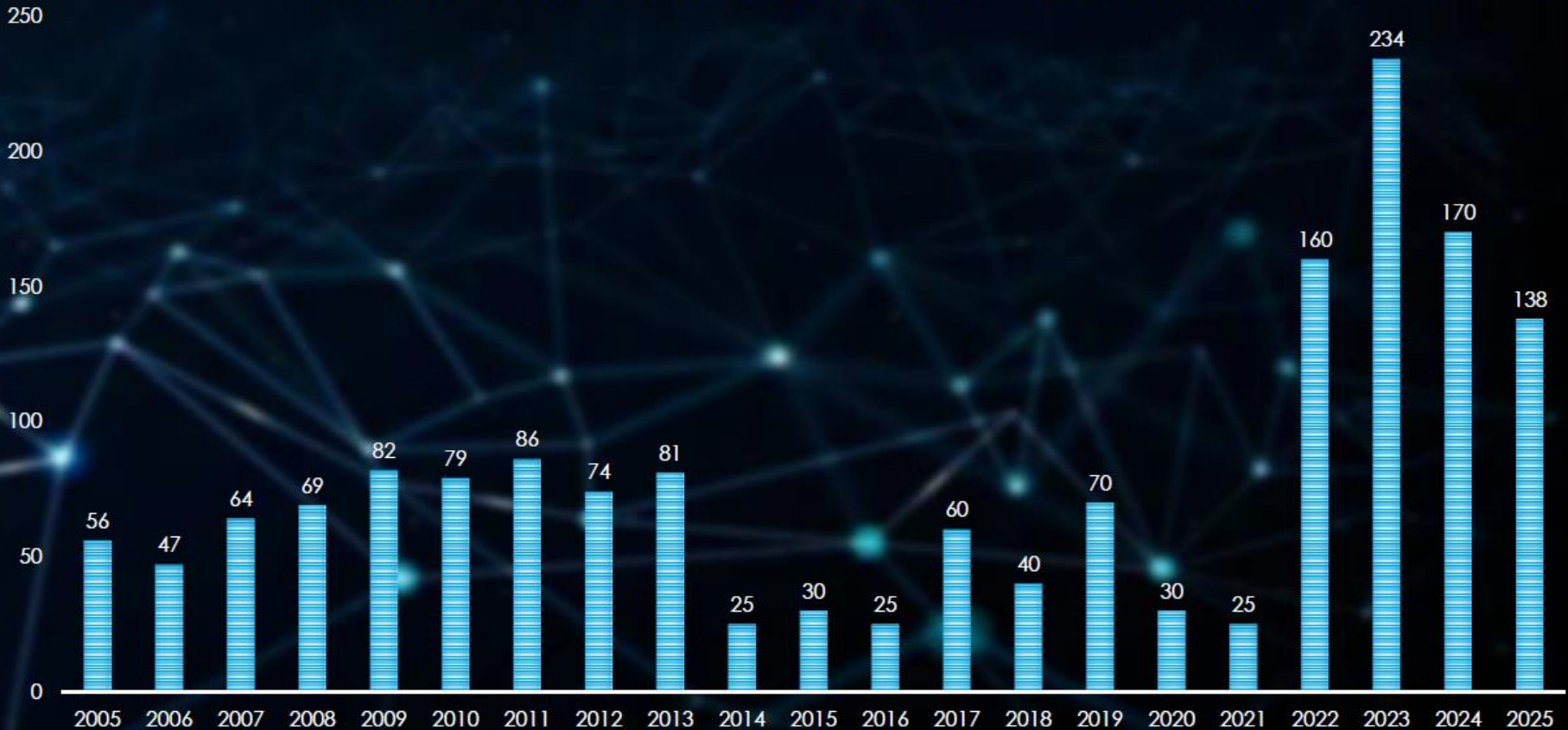
Mr. Tenali Nikhil

BASLP



OUR CASE VOLUME - ORTHODONTICS

ORTHODONTIC TREATMENTS 2005 - 2025 : 1645



Our Team- Orthodontist and speech Therapist



What did we achieve?

- Huge numbers in patient care
- Establishment of good infrastructure
- Stand alone craniofacial center
- Dedicated craniofacial team

What did we lack?

- Ideology development
- Research
- Cutting edge technological advancement



Philanthropy
In
Surgery

Create

Collaborate

Co-operate



Ideology Development

Medical Advisory Board



Mr. Anthony F. Markus
Chairman Future Faces
Poole, UK



Prof. Dr. Stefaan J. Berge
Professor and Chairperson
Department of Craniofacial Surgery
Radboud University Nijmegen Medical
Centre, The Netherlands.



Prof. Alexander Hemprich
Director, Division of Maxillofacial and Facial
Plastic Surgery University Hospital,
Leipzig, Germany



Dr. Ann Kummer
Senior Director, Speech Pathology,
Professor of Clinical Pediatrics
Cincinnati Childrens Hospital Medical
Center,
Cincinnati, USA



Dr. Paresh Devani
Consultant
Aga Khan Hospital
Kenya



Prof. Ulrich Joos
Former Director, Division of Maxillofacial
and Facial
Plastic Surgery University Hospital,
Muenster, Germany



Prof. Dr. Anne Marie Kuijpers-Jagtman
Former Professor and Chairperson
Department of Orthodontics and
Craniofacial Biology
Radboud University Nijmegen Medical
Centre The Netherlands.



Prof. Maurice Mommaerts
Professor. & Head,
European Face Centre,
University Ziekenhuis,
Brussels, Belgium



Prof. Dr. Johannes Schubert
Former Professor.
Martin-Luther-University Halle Dept. of Oral
& Maxillo Facial Plastic Surgery,
Martin-Luther-University Halle, Germany



Dr. Hade Vuyk
Head and Neck Surgeon,
Facial Plastic Reconstructive Surgery
Clinics,
Vlueten, The Netherlands



Prof. Nasser Nadjmi
Professor and Coordinating Program
Director for OMFS,
University of Antwerp,
Antwerp, The Belgium



Dr. Likhith Reddy
Associate Professor
Department of Residency Training, Oral
and Maxillofacial Surgery,
Texas A&M University,
Baylor College of Dentistry,
Dallas, Texas, USA



Prof. Stephen Schendel
Emeritus Professor of Surgery,
Stanford University Medical Center,
Stanford, California, USA



Prof. Benito Ramos Medina
Professor, Department of Oral and
Maxillofacial Surgery,
Santa Lucia Hospital,
Cartagena, Spain



OUR INTERNATIONAL COLLABERATIONS



University
of Basel

Radboud University

Nijmegen, the Netherlands



UMFT
Universitatea de
Medicină și Farmacie
„Victor Babeș”
din Timișoara



UNIVERSITÉ
LIBRE
DE BRUXELLES



Universität
Münster



UNIVERSITÄT
BONN



UMF
ILIUȚI HĂȚEGANU
UNIVERSITY OF
MEDICINE AND PHARMACY
CLUJ-NAPOCA

Julius Bär



Sant Joan de Déu
Barcelona - Hospital



Universiteit
Antwerpen



Université
de Lille



NHS
Poole Hospital
Simulation



Sistema Socio Sanitario
Regione
Lombardia
ASST Monza



SMILE
HOUSE
Fondazione ETS

The Rhinoplasty Clinic
NASAL AESTHETICS



az sint-jan
brugge - oostende av



UniversitätsSpital
Zürich



Universitätsklinikum
Leipzig

Medizin ist unsere Berufung.

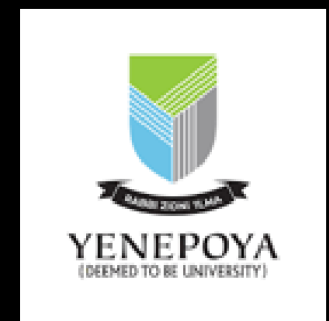


UNIVERSITY
OF COLOGNE



www.craniofacialinstitute.org

OUR NATIONAL COLLABERATIONS



GLOBAL FORUM FOR SUSTAINABLE TRANSFORMATION



www.craniofacialinstitute.org

EVIDENCE BASED
MORPHOFUNCTIONAL
PHILOSOPHY FOR CLEFT CARE



Morpho-functional Cleft Lip Repair



Perialveoloplasty is done to exert more medial pressure on the palatal shelves

Afroze Incision for Functional Cheiloplasty, Technical Note

Gosla Srinivas Reddy et. al.; *J. Craniofac. Surg.* 20(8):1733-1736, September 2009.



www.craniofacialinstitute.org

Morpho-functional Cleft Lip Repair

PEDIATRIC/CRANIOFACIAL

Primary Septoplasty in the Repair of Unilateral Complete Cleft Lip and Palate

Sriniva Gosla-Reddy, M.B.B.S., M.D.S.
Krisztián Nagy, M.D., D.D.S.
Maurice Y. Mommaerts, M.D., D.M.D., Ph.D.
Rajgopal R. Reddy, M.B.B.S., B.D.S.
Enald M. Bronkhorst, Ph.D.
Rajendra Prasad, B.D.S., M.D.S.
Anne Marie Kuijpers-Jagtman, D.D.S., Ph.D.
Sofaen J. Bergs, MD., D.D.S., Ph.D.

Hyderabad and Mangalore, India;
Bruges-Oostend, Belgium; and
Singapore, The Netherlands

Background: The purpose of this study was to assess and compare nasal symmetry in patients who underwent correction of a complete unilateral cleft lip using the Afrose incision without and with primary septoplasty using a standardized two-dimensional photographic analysis.

Methods: A prospective cohort study of 190 consecutive patients with complete unilateral cleft lip and alveolus with cleft palate treated with or without septoplasty using the Afrose incision technique was conducted at a high-volume center. Eighty-two patients operated on without primary septoplasty and 76 patients operated on with primary septoplasty were evaluated. Nasal symmetry was compared between patients using two-dimensional photographic analysis.

Results: Ratios between the cleft side and the non-cleft side for five parameters were used to assess symmetry: alar base-to-interpupillary line distance, columella-to-Cupid's bow distance, nostril gap area, nostril width, and nostril height. The Mann-Whitney *U* test was used to calculate differences between the two groups.

Conclusion: Patients operated on with primary septoplasty showed more nasal symmetry compared with patients operated on without septoplasty. This difference was statistically significant for columella-to-Cupid's bow distance, nostril gap area, and nostril height ($p = 0.008$, $p < 0.001$, and $p < 0.001$, respectively) and for the distance between alar base and the alar base-to-interpupillary line distance ($p = 0.145$) the difference was present but not statistically significant. For nostril width, no difference was found ($p = 0.850$).

Conclusion: Patients treated with primary septoplasty showed better results in terms of nasal symmetry when analyzed using two-dimensional photographic analyses. (*Plast. Reconstr. Surg.* 127: 761, 2011.)

Despite a multiplicity of surgical approaches to its correction and as much variation in treatment philosophy, the cleft lip nasal deformity remains a formidable challenge to the reconstructive surgeon treating patients with these congenital deformities. Historically, correction of the cleft nose deformity had been delayed until nasal growth was complete.¹ Early surgical intervention was thought to interfere with normal growth, leading to poor long-term results.¹ Patients with cleft nose deformity had to tolerate the physical nasal deformity and the

psychological trauma well into their adolescence.¹ Randall noted that these patients often were more concerned with their nasal deformity than with their lip deformity.²

Refinement of rhinoplasty techniques has facilitated the ability to address the deformity associated with cleft lip.³ McComb³ and Anderl⁴ have published long-term studies that show very little impact on growth with primary correction of the nose deformity along with the correction of the cleft lip. Nevertheless, controversy remains regarding the best time to attempt primary surgical correction of unilateral cleft lip nasal deformity.^{5,6} Although a growing number of centers perform the nasal repair in conjunction with cleft lip surgery, some choose a secondary rhinoplasty at a later stage, when the car-

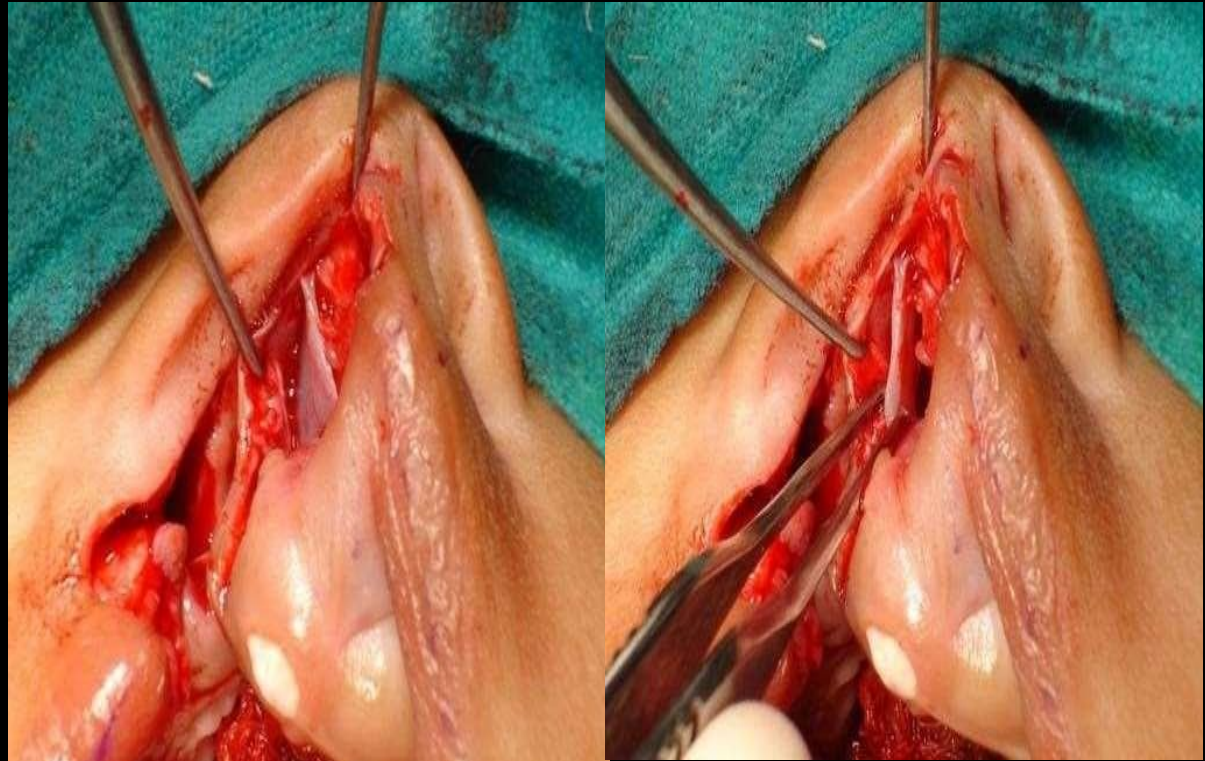
From the CSR Institute of Craniofacial Surgery, Bruges Cleft and Craniofacial Center, Departments of Cariology and Preventive Dentistry, Orthodontics and Oral Biology and Head Cleft Palate Craniofacial Unit, and Oral and Maxillofacial Surgery, Radboud University Nijmegen Medical Center; and A. B. Shetty Memorial Dental College and Hospital.
Received for publication July 8, 2010; accepted August 26, 2010.
Copyright ©2011 by the American Society of Plastic Surgeons
DOI: 10.1097/PRS.0b013e318200a97a

Disclosure: None of the authors has any financial interest in this work, and they have no competing interests to declare.

www.PRSJournal.com

761

Copyright © American Society of Plastic Surgeons. Unauthorized reproduction of this article is prohibited.



SEPTUM IS KEY

The septum is positioned in its rightful anatomical position

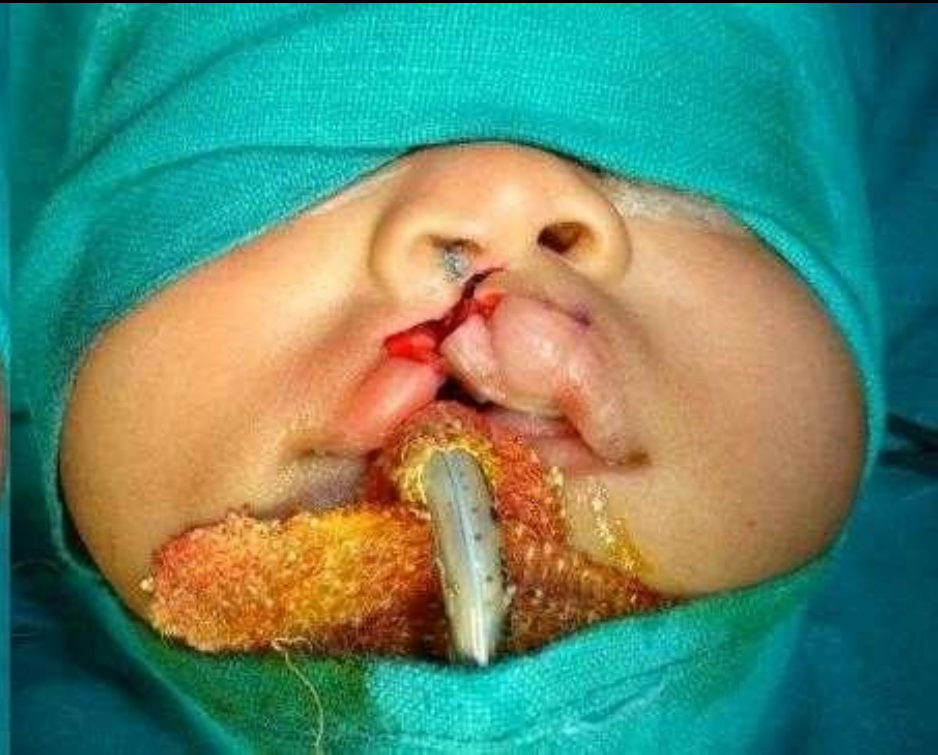
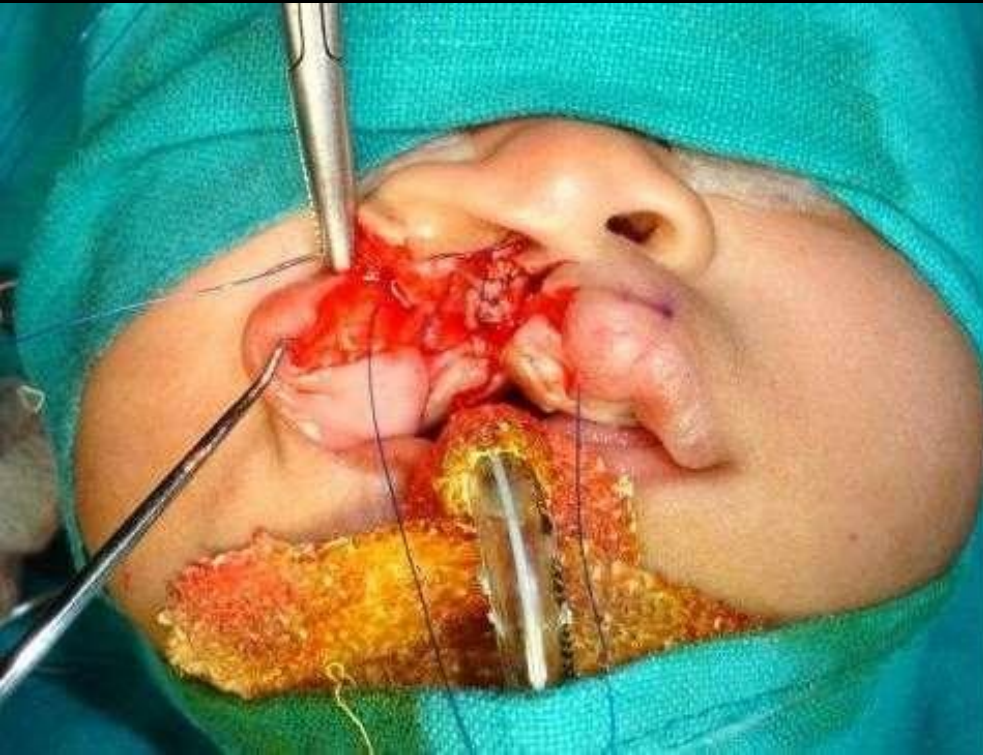
Primary septoplasty in repair of unilateral complete cleft lip and palate

Gosla Srinivas Reddy et. al.; *Plastic and Reconstructive Surgery*, August, 2010.



www.craniofacialinstitute.org

Morpho-functional Cleft Lip Repair



Ala of nose stabilized symmetrically to match that of the normal side by taking a suture through the alar head of the nasalis muscle on the cleft side to the contralateral muscle through the septum

Afroze Incision for Functional Cheiloplasty, Technical Note

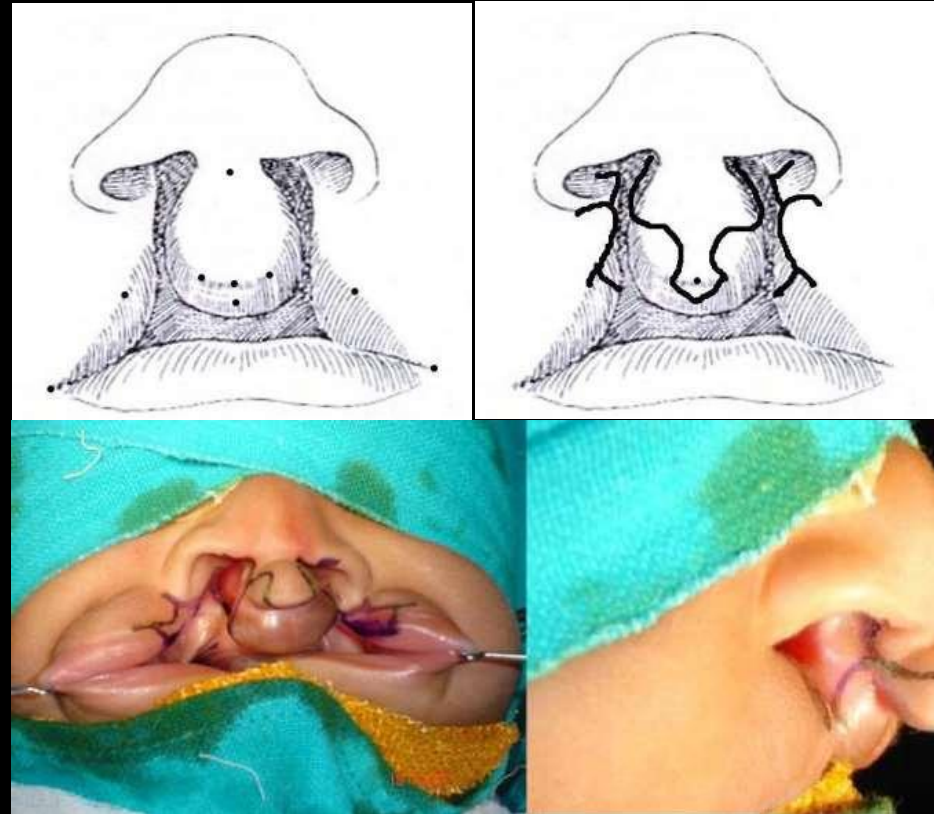
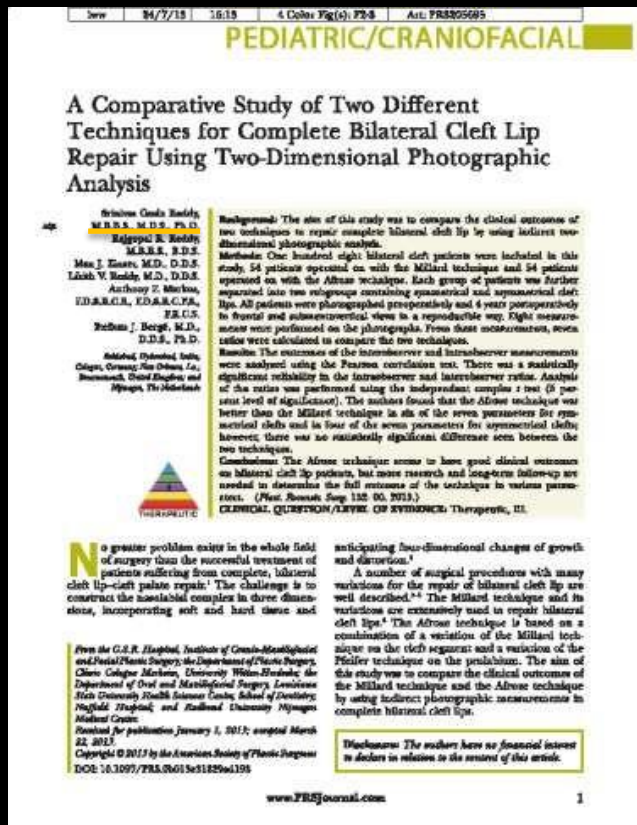
Gosla Srinivas Reddy et. al.; *J. Craniofac. Surg.* 20(8):1733-1736, September 2009.



www.craniofacialinstitute.org

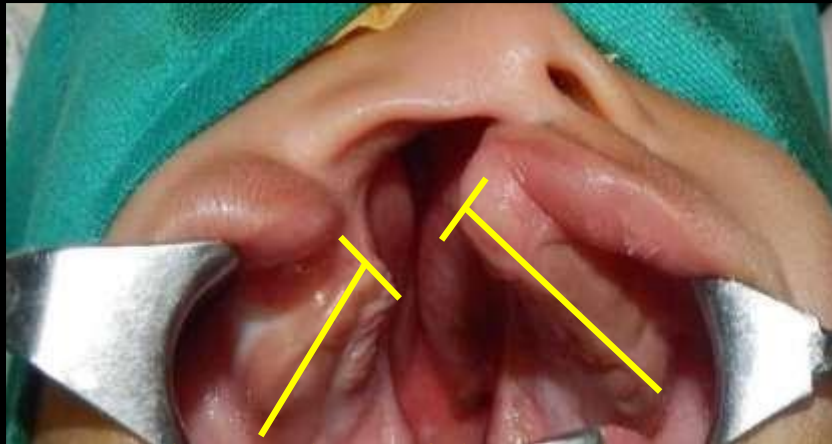
Bilateral Cleft Lip Repair

Incision design for bilateral cleft lip surgery



Gosla Reddy S, et al, A comparative study of two different techniques for complete bilateral cleft lip repair using two-dimensional photographic analysis. **Plastic and Reconstructive Surgery**, 2013

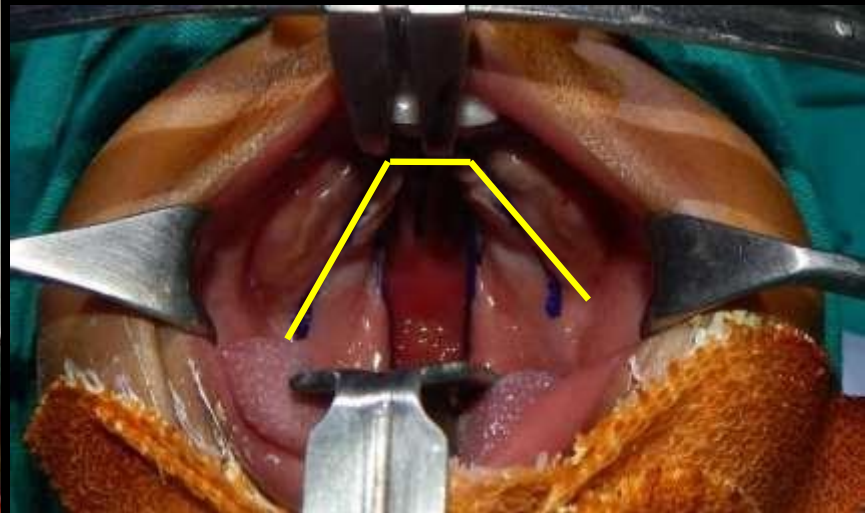
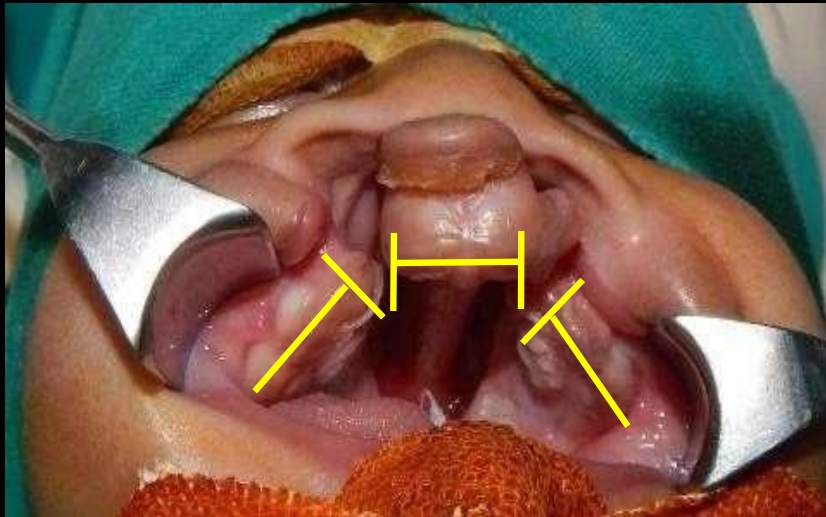




At the time of lip repair



At the time of palate repair



Morpho-functional repair of complete unilateral cleft lip to achieve aesthetic balance between the lip and nose: an evidence based study Gosla-Reddy, S. et al. International Journal of Oral and Maxillofacial Surgery, Volume 44 , e13 - e14, 2015.



Effect of One-Stage versus Two-Stage Palatoplasty on Hypernasality and Fistula Formation in Children with Complete Unilateral Cleft Lip and Palate: A Randomized Controlled Trial

Rajgopal R Reddy ¹, Srinivas Gosla Reddy ¹, Anusha Chilakalapudi ¹, Swapnika Kokali ¹, Ewald M Bronkhorst ², Ann W Kummer ³, Stefaan J Bergé ¹, Anne Marie Kuijpers-Jagtman ¹

Journal of Cranio-Maxillo-Facial Surgery xxx (2017) 1-9

Contents lists available at ScienceDirect

Journal of Cranio-Maxillo-Facial Surgery

journal homepage: www.jcmfs.com

ELSEVIER

Maxillofacial growth and speech outcome after one-stage or two-stage palatoplasty in unilateral cleft lip and palate. A systematic review

Rajgopal R. Reddy ^{a,*}, Srinivas Gosla Reddy ^a, Anitha Vaidhyathanan ^a, Stefaan J. Bergé ^b, Anne Marie Kuijpers-Jagtman ^c

^a C.S.R. Hospital (Head: Prof. S. Gosla Reddy), Institute of Cranio-Maxillofacial and Facial Plastic Surgery, Vinay Nagar Colony, Saddabot, Hyderabad, India

^b Department of Cranio-maxillofacial Surgery (Head: Prof. S.J. Bergé), Radboud University Medical Center, Nijmegen, The Netherlands

^c Department of Orthodontics (Prof. Emerita: A.M. Kuijpers-Jagtman), Radboud University Medical Center, Nijmegen, The Netherlands

PEDIATRIC/CRANIOFACIAL

Effect of One-Stage versus Two-Stage Palatoplasty on Hypernasality and Fistula Formation in Children with Complete Unilateral Cleft Lip and Palate: A Randomized Controlled Trial

Rajgopal R. Reddy, M.B.B.S., B.D.S., F.D.S.R.C.P.S. (Otol.)
Srinivas Gosla Reddy, M.B.B.S., M.D.S., F.D.S.R.C.S. (Otol.), F.D.S.R.C.S. (Edent.), Ph.D., Anusha Chilakalapudi, M.Sc., Swapnika Kokali, M.Sc., Ewald M. Bronkhorst, Ph.D., Ann W. Kummer, Ph.D., Stefaan J. Bergé, M.D., D.D.S., Ph.D., Anne Marie Kuijpers-Jagtman, D.D.S., Ph.D., F.D.S.R.C.S.

From Vinay Nagar Colony, Hyderabad, India (Rajgopal R. Reddy, Srinivas Gosla Reddy, Anitha Vaidhyathanan, Stefaan J. Bergé, Anne Marie Kuijpers-Jagtman); and Department of Orthodontics, Radboud University Medical Center, Nijmegen, The Netherlands (Ewald M. Bronkhorst, Ann W. Kummer).

Background: Is one-stage or two-stage palatoplasty more effective for preventing fistula formation and hypernasality in patients with complete unilateral cleft lip and palate?
Methods: This parallel blocked randomized controlled trial included 100 patients with non-syndromic complete unilateral cleft lip and palate with a repaired cleft lip, divided into two equal groups. Group A had one-stage palatoplasty patients at age 12 to 15 months while group B had two-stage palatoplasty patients with soft palatoplasty at age 12 to 15 months and hard palatoplasty at age 24 to 28 months. Presence of a fistula was noted clinically at 5 years and speech was assessed using nasometry and perceptual analysis at 8 years. Group C consisted of noncleft controls (n = 20, age 6 years) for speech using nasometry. Fistula rates, hypernasality ratings, and nasalance scores were compared between groups A and B. Nasometry recordings of groups A and B were compared with control group C.
Results: There was no difference in fistula rates between groups A and B (p = 0.409; 95 percent CI, 0.360 to 11.9). Mean nasalance scores of group A showed higher nasalance than group B (p < 0.006; 95 percent CI, 1.16 to 6.53). Perceptual analysis showed no difference between groups A and B (p = 0.887 and p = 1.000). Group A showed higher mean nasalance than group C (p = 0.837 and p = 1.000), whereas group B showed no difference (p = 6.088; 95 percent CI, -0.14 to 3.02).
Conclusions: There was no difference in fistula rates between groups. Nasalance was slightly higher in patients in the one-stage palatoplasty group than two-stage palatoplasty group, but the difference was not clinically significant. (Plast Reconstr Surg 142:42e-50e, 2018.)
CLINICAL QUESTION/LEVEL OF EVIDENCE: Therapeutic, II.

Although cleft palate repair has significant benefit for the patient's feeding and middle ear function, the primary purpose of cleft palate repair is to help the patient develop normal speech with a functioning velopharyngeal valve.¹⁻⁴ Incomplete closure of the velopharyngeal valve during speech, despite the palate repair, causes velopharyngeal insufficiency. In addition, failure to completely close the hard palate can result in a fistula that is large enough to cause nasal regurgitation and speech impairment. Patients with velopharyngeal insufficiency or a fistula may have hypernasality and speech impairment.

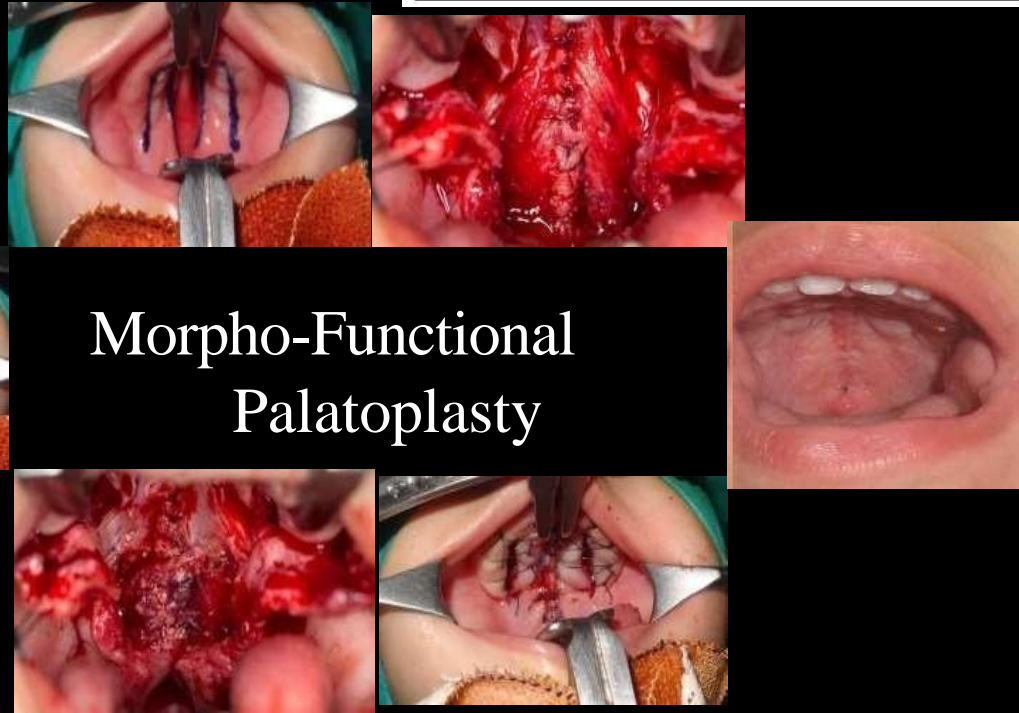
From CSIR Hospital, Institute of Cranio-Maxillofacial and Facial Plastic Surgery, the Department of Craniofacial and Prosthetic Dentistry, Cranio-Maxillofacial Surgery, and Otolaryngology and Craniofacial Biology, Radboud University Medical Center, and the Division of Speech-Language Pathology, Craniofacial Children's Hospital Medical Center and the University of Groningen Medical Center.

Received for publication June 8, 2017; accepted December 15, 2017.

The trial is registered under the name "Is a One Stage or Two Stage Cleft Palate Repair More Beneficial in Children" (ClinicalTrials.gov) by the American Society of Plastic Surgeons. DOI: 10.1097/PRS.0000000000004486

© 2018 American Society of Plastic Surgeons. Unauthorized reproduction of this article is prohibited.

42e www.PRSJournal.com



Morpho-Functional Palatoplasty

- Maxillofacial growth and speech outcome after one-stage or two-stage palatoplasty in unilateral cleft lip and palate—a systematic review, **Gosla Reddy S, et al, Journal of cranio-maxillo-facial surgery, March 2022.**
- Effect of one stage versus two-stage palatoplasty on hypernasality and fistula formation in children with complete unilateral cleft lip and palate: A randomized controlled trial, **Gosla Reddy S, et al, Plastic Reconstructive Surgery, July 2018.**
- Effect of one stage Vs. Two-stage palatoplasty on hypernasality and fistula formation in children with complete unilateral cleft lip and palate: A randomized control Trial; **Gosla Reddy S, et al, Plastic and Reconstructive Surgery, December 2017**

ALVEOLAR BONE GRAFTING

International Journal of Current Research and Review
DOI: <http://dx.doi.org/10.31782/IJCRR.2021.131722>

Original Research



Bone Graft Materials in Late Secondary and Tertiary Alveolar Bone Grafting: A Review

Mallick Rizwana¹, Pisulkar Sweta Kale², Reddy Srinivas Reddy³, Jain Vanshika⁴

MDR (Prosthodontics), Professor, Department of Prosthodontics, Crown & Bridge, Faculty of Dentistry, Jyoti Milla Institute, New Delhi, India; 'Ph.D (Prosthodontics), Associate Professor, Department of Prosthodontics, Shri Sai Dental College, Secang, Washia, Maharashtra 441004, India; 'Ph.D, Director, CSR Institute of Craniomaxillofacial and Facial Plastic Surgery, Hyderabad, Telangana, India; 'SDS, Senior Research Fellow, Department of Dental Research and Implantology, Institute of Nuclear Medicine and Allied Sciences, Defence Research and Development Organization, New Delhi 110025, India.

ABSTRACT

Introduction: Bone grafting of the alveolar cleft is necessary to facilitate unhindered growth of maxillofacial complex and eruption of permanent teeth in defect region when not congenitally missing. Secondary grafting undertaken during mixed dentition helps achieve these two functions. However, due to varying reasons, socioeconomic concerns being one of them, many patients do not undergo this procedure and report at a time when late grafting is the only option to overcome the defect bone.

Aims: To identify the different grafting materials that have been utilized for the 2 surgical procedures.

Methodology: Electronic databases were searched to find bone sources used for secondary and tertiary bone grafting to identify their characteristics and clinical outcomes. Attention was paid to literature which elucidated potential use of dental implants in the grafted site and presented its clinical course.

Results: Over the years, many graft materials have been researched upon with autologous sources being considered as the gold standard and being the most commonly utilized. Additionally, graft characteristics, observations of the published authors, and success of implant rehabilitation, where used showed a mixed bag of results. Certain other potential bone sources were also identified that have shown in-vitro or animal model success but have not yet made a clinical presence for the reviewed procedures.

Conclusion: Choice of bone graft depends on numerous factors such as defect size, surgeon preference and patient acceptance. To understand further each graft source and its characteristics, randomized control trials should be conducted to provide better clinical evidence.

Key Words: Alveolar bone grafting, Alveolar cleft, Congenital abnormalities, Dental implants, Rehabilitation, Tertiary grafting

INTRODUCTION

The multidisciplinary team involved in the treatment and repair of the orofacial cleft has faced challenges of successfully and satisfactorily repairing and rehabilitating the affected region. Advances in surgical knowledge, techniques, and materials, have kept the quest open, to find a universally accepted ideal bone grafting material. Secondary alveolar bone grafting (SABG) is done during the mixed dentition to facilitate permanent teeth eruption and minimizes functional and esthetic compromise. In cases where the permanent tooth in the cleft region fails to form or is indicated for extraction, it inadvertently requires prosthetic

replacement which cannot be done till the patient attains skeletal maturity.

Removable and fixed partial dentures (RPD and FPD) are the oldest rehabilitative substitutes that, though easy to fabricate, provide limited esthetics. They also do not contribute to functional graft stimulation, thereby leading to increased resorption.¹ With overtime use, RPDs require frequent replacement and irritate the underlying mucosa. Contrarily, FPDs compromise the adjacent healthy hard and soft tissue. Thus, both modalities add to patient's physical stress of frequent and multiple visits, often denting their psychologically. Dental implants are a welcome alternative however, by the time a pa-

Corresponding Author:

Mallick Rizwana, Professor, Department of Prosthodontics, Crown & Bridge, Faculty of Dentistry, Jyoti Milla Institute, New Delhi 110025, India; Contact: +91 97774 98339; Email: mallickrj@gmail.in

ISSN: 2231-2196 (Print) ISSN: 0975-5241 (Online)

Received: 06.02.2021

Revised: 16.04.2021

Accepted: 08.06.2021

Published: 12.09.2021

Int J Cur Res Rev | Vol 13 | Issue 17 | September 2021

1109



- Bone Graft Materials in late secondary and tertiary alveolar bone grafting: a review, Gosla Reddy S et.al.; International Journal of Current research and review, September 2021.



LEFORT I ADVANCEMENT + BSSO SETBACK

Pre op



Post op



Pre op

Post op



LEFORT I DISTRACTION(RED) WITH BSSO SETBACK



 Journal of Oral and Maxillofacial Surgery,
Medicine, and Pathology
Volume 37, Issue 1, January 2023, Pages 21-30

Review article

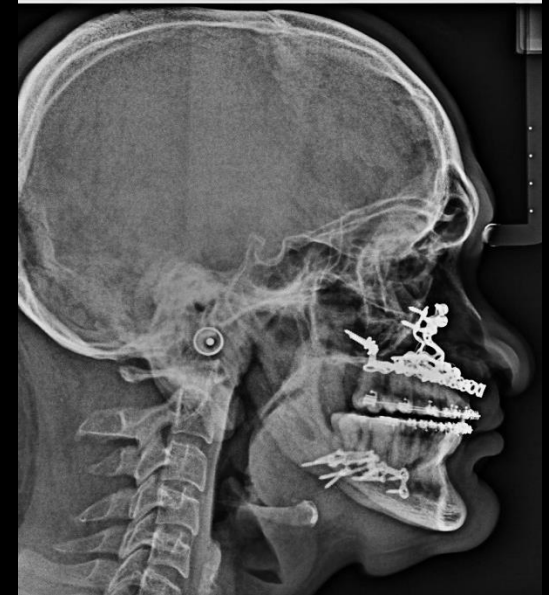
Comparison of Lefort-1 advancement by internal and external distraction osteogenesis in non-syndromic cleft lip and palate: A systematic review and meta-analysis

[Sameer Pandey](#) , [Ashi Chug](#) , [Srinivas Gosla Reddy](#) , [Saurabh S. Simre](#) 

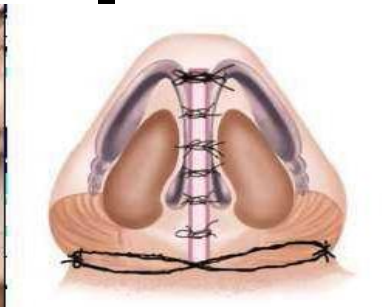
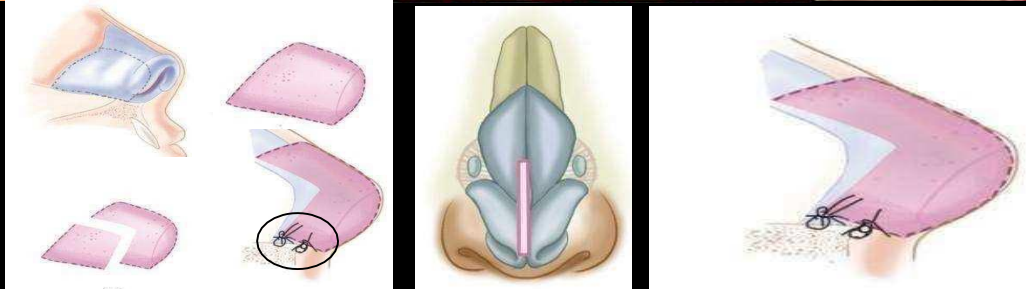
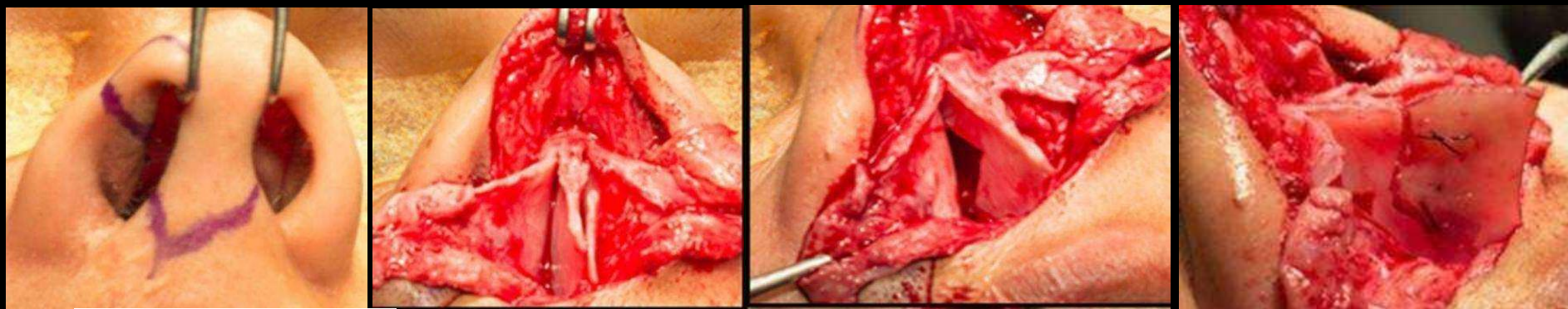
- Comparison of Lefort-I advancement by internal and external distraction osteogenesis in non-syndromic cleft lip and palate: a systematic review and meta-analysis, [Srinivas Gosla Reddy](#) , et al ,[Journal of Oral and maxillofacial surgery, medicine and pathology](#), January 2025.



HIGH LEFORT 1 RED DISTRACTION WITH BSSO



MORPHOFUNCTIONAL CLEFT RHINOPLASTY



Morpho-Functional Septorhinoplasty in Adult Patients With Unilateral Cleft Lip Nasal Deformity: A Comprehensive Approach

Ashish Fanan, BDS, MDS, Niels van Heerbeek, MD, PhD,† Tong Xi, MD, DDS, PhD,‡ Stefaan Bergé, MD, DDS, PhD,§ and Srinivas Gosla Reddy, MBBS, MDS, FDSRCS Edin, FDSRCS Eng, PhD||*

Purpose: The aim of this study was to introduce a morphofunctional technique of rhinoplasty for

ARTICLE IN PRESS

Available online at www.sciencedirect.com

ScienceDirect

British Journal of Oral and Maxillofacial Surgery (2022) xxx-xxx

ELSEVIER

BRITISH Journal of Oral and Maxillofacial Surgery

www.bjoms.com

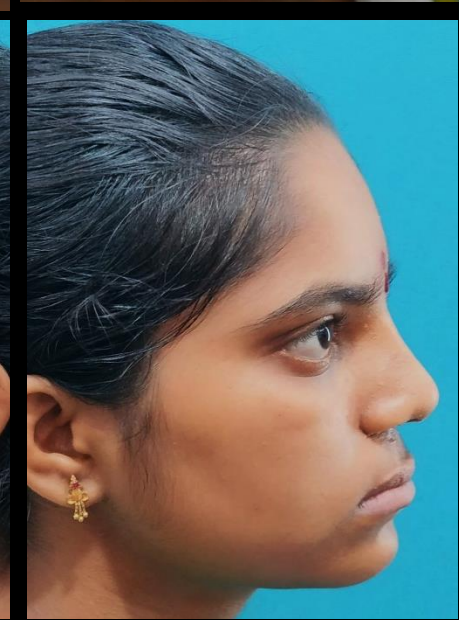
Quantitative analysis of aesthetic outcomes of morphofunctional septorhinoplasty for secondary cleft lip nasal deformity

Ashish Fanan^{*,†}, Niels van Heerbeek[§], Himaja Sai[†], Tong Xi[‡], Stefaan Bergé[§], Srinivas Gosla Reddy^{*,||}

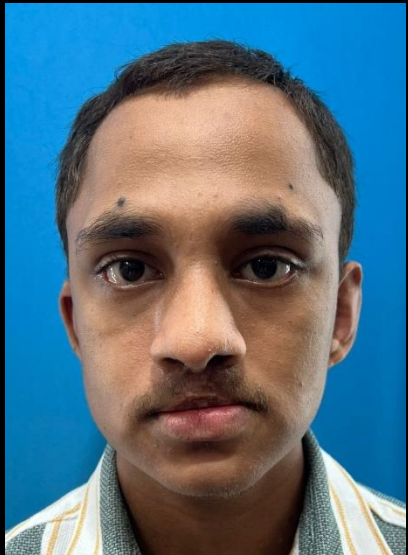
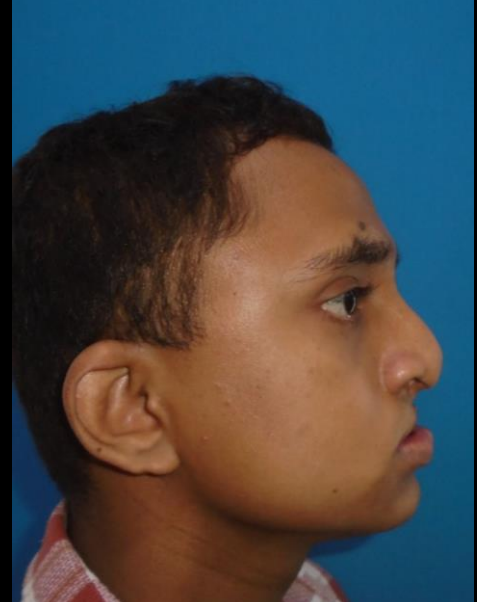
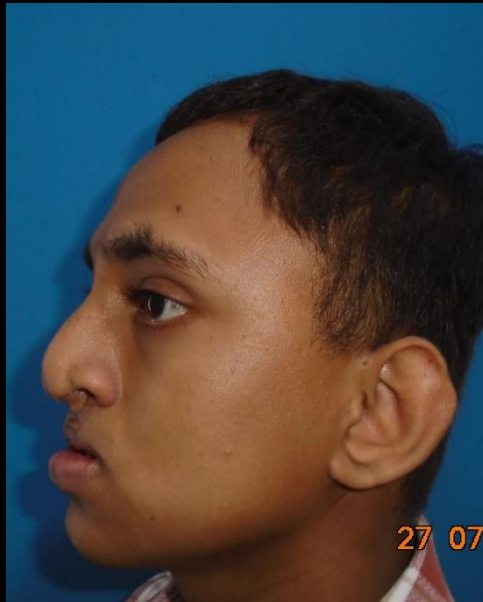
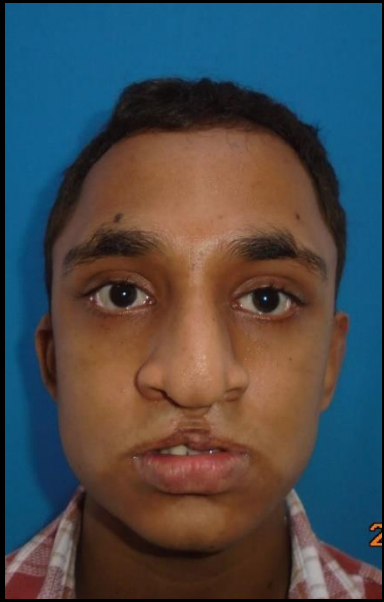
*GSR Hospital, Hyderabad, Telangana, India
†Department of Otorhinolaryngology, Head & Neck Surgery, Radboud University Medical Centre, Nijmegen, The Netherlands
‡Sir Sai College of Dental Surgery, Department of Oral and Maxillofacial Surgery, Hyderabad, Telangana, India

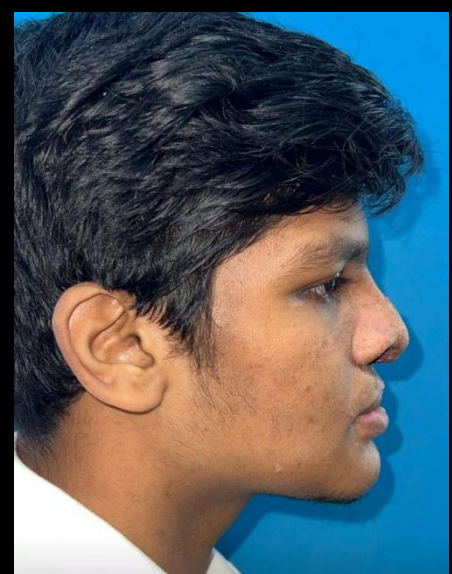
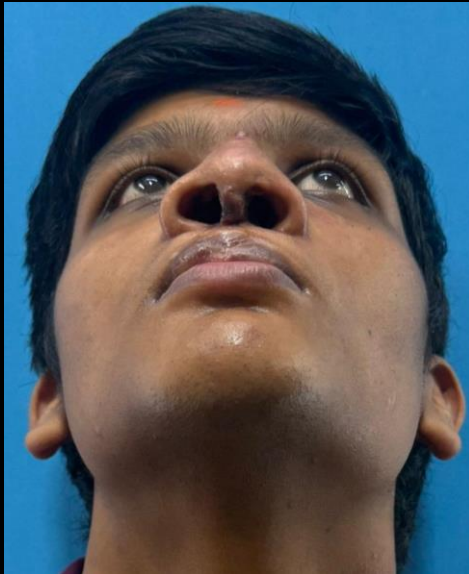
- Morpho-functional septorhinoplasty in adult patients with unilateral cleft lip nasal deformity: A comprehensive Approach , Srinivas Gosla Reddy, et al *J Oral Maxillofac Surg.* November 2020.
- Quantitative analysis of aesthetic outcomes of morphofunctional septorhinoplasty for secondary cleft lip nasal deformity; Srinivas Gosla Reddy,et. al., *British Journal of oral and maxillofacial surgery*, July 2022





www.craniofacialinstitute.org





Technological advancement in craniofacial surgery



Dr. S. Anthony
Wolfe



Dr. Likith
V. Reddy



Dr. David
Staffenberg



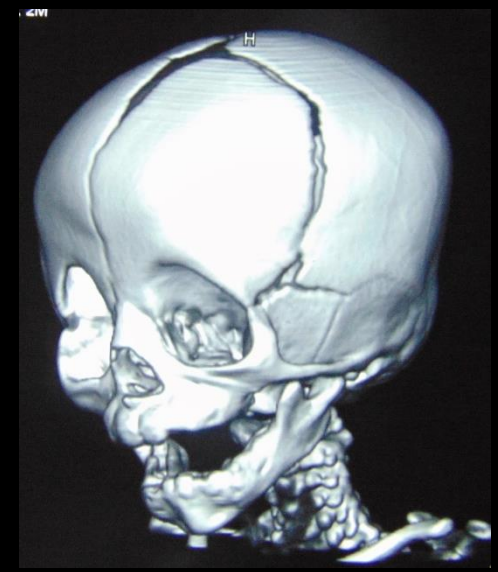
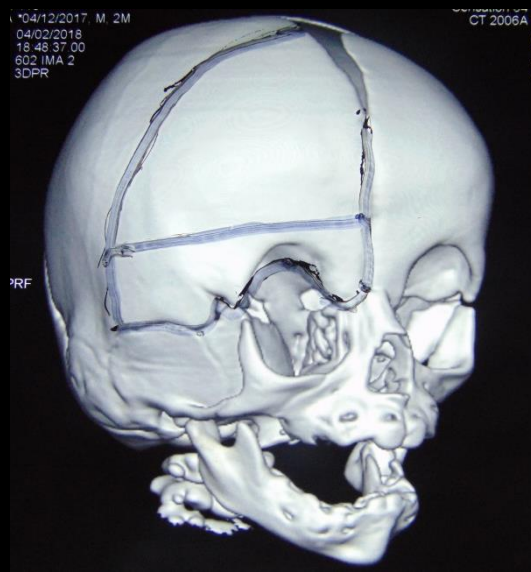
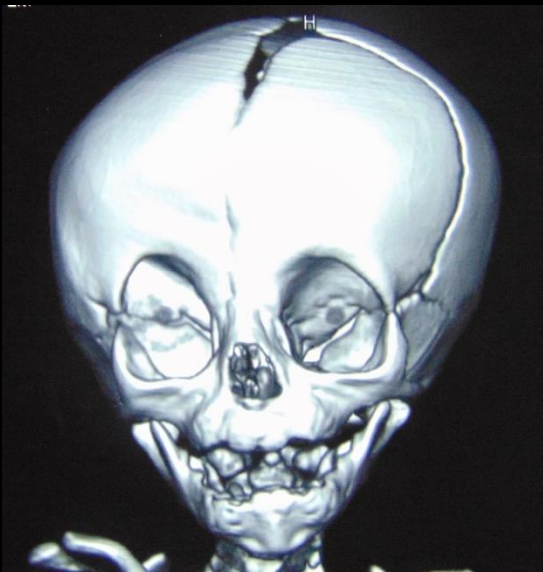
Dr. Hade
Vuyk



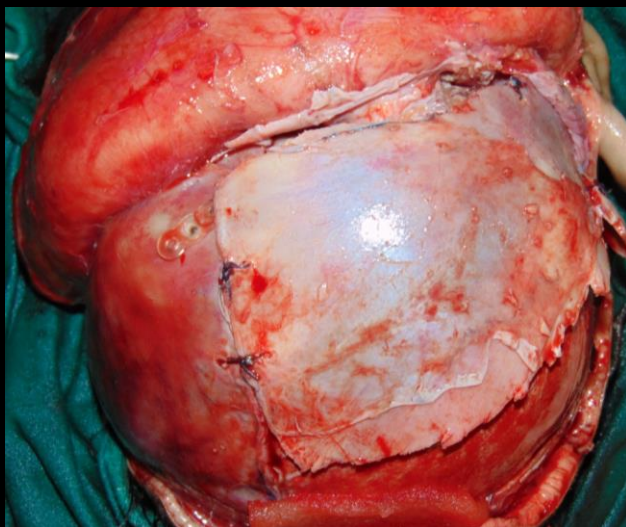
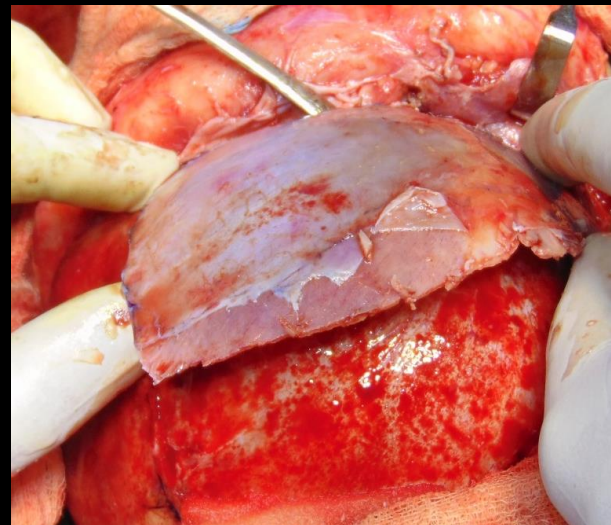
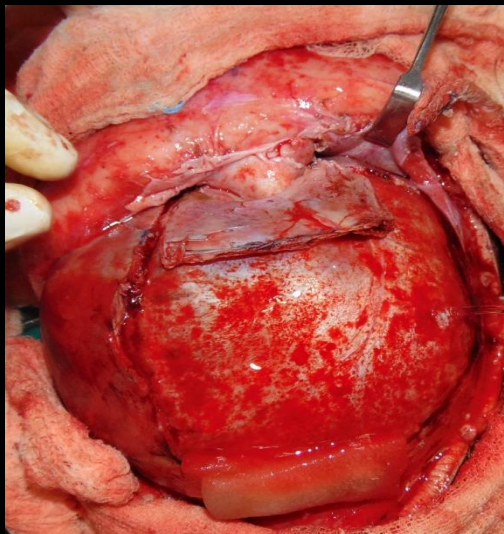
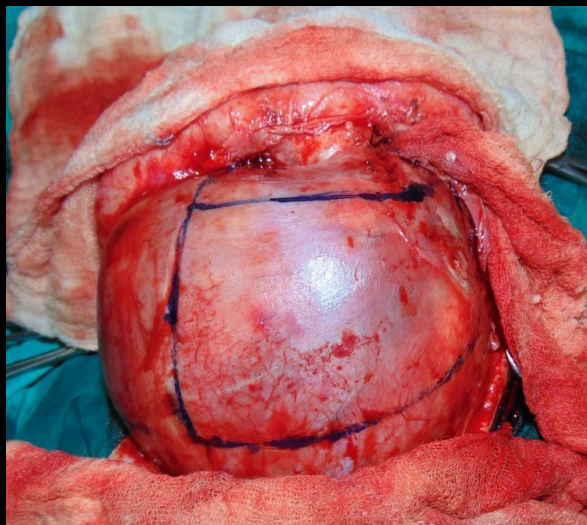
Dr. Fabio
Mazzoleni



PLAGIOCEPHALY



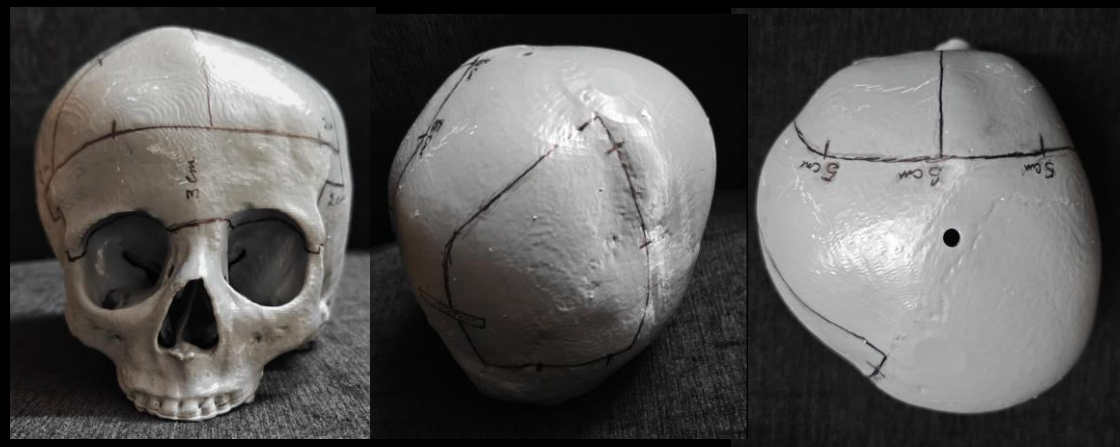
PLAGIOCEPHALY



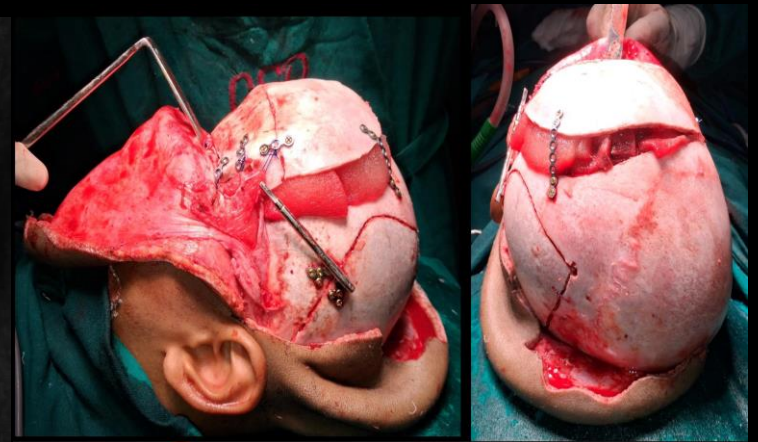
PLAGIOCEPHALY PREOP VS POST OP



ANTERIOR AND POSTERIOR PLAGIOCEPHALY PREOP



MARKINGS ON STL MODEL



INTRA OP PICTURES



ANTERIOR AND POSTERIOR PLAGIOCEPHALY PREOP VS POST OP



PRE OP



POST OP



PRE OP



POST OP



PRE OP



POST OP



PRE OP



POST OP



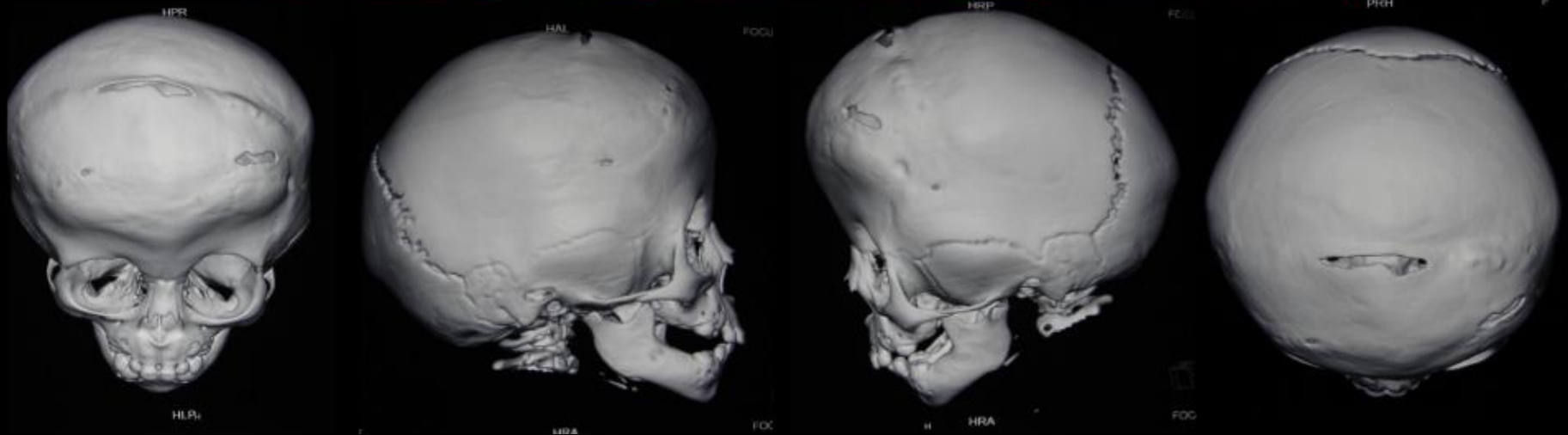
PRE OP

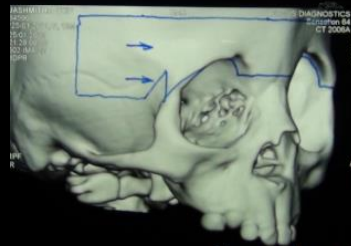
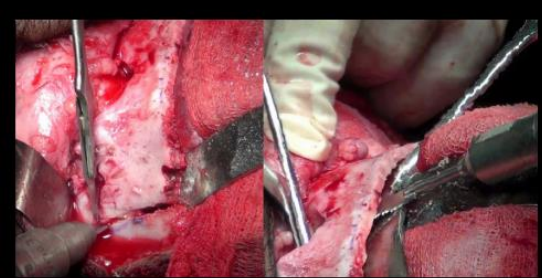


POST OP



BRACHYCEPHALY



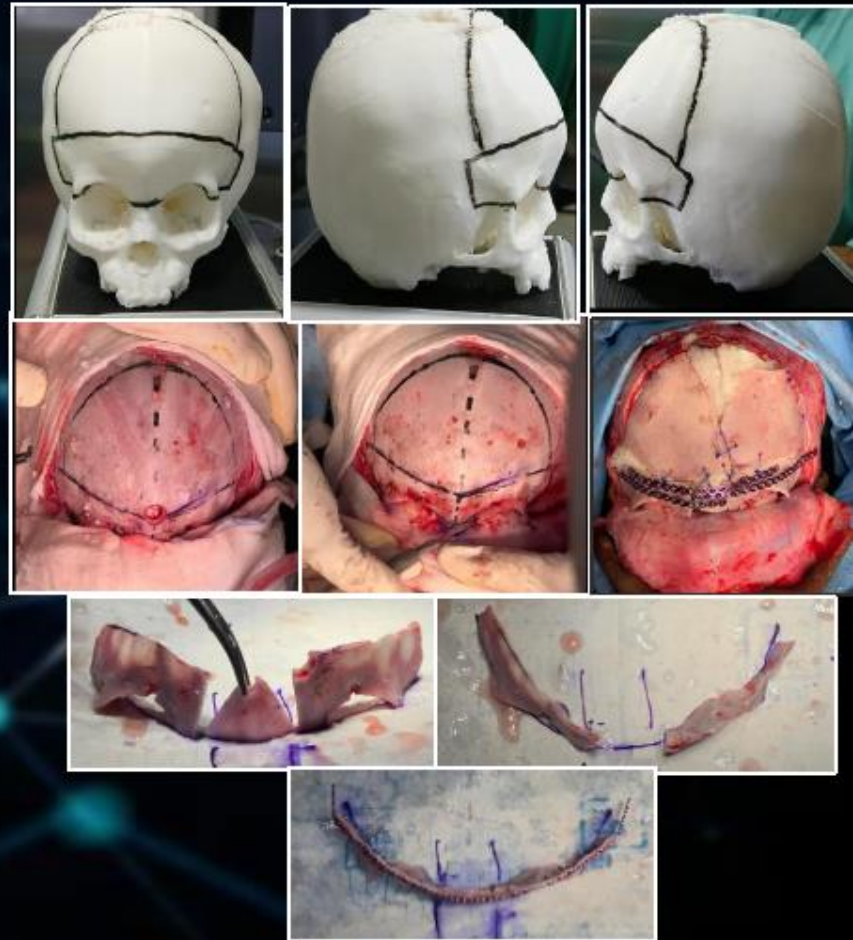


Superior Orbital rim advancement and fixation

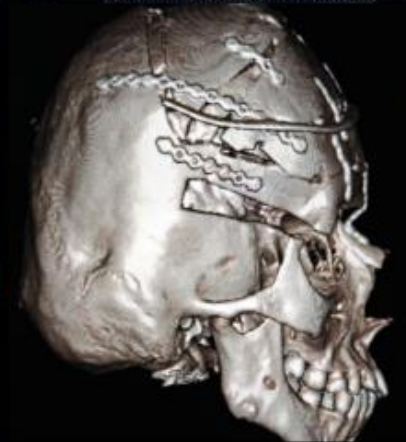
Raising Frontal Flap



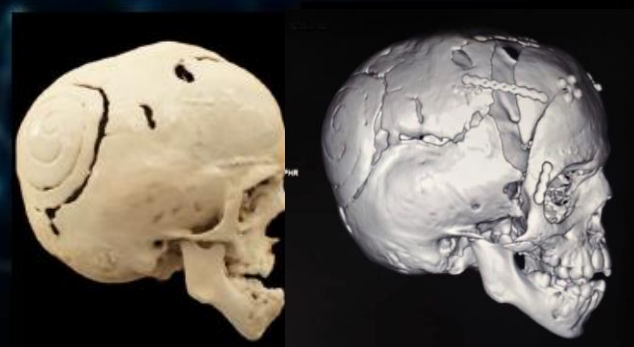
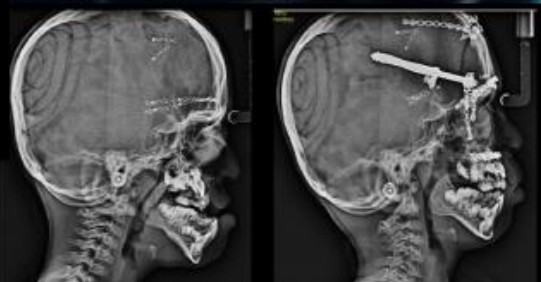
TRIGONOCEPHALY CORRECTION - CRANIOPLASTY



TURRICEPHALY CORRECTION - CRANIOPLASTY

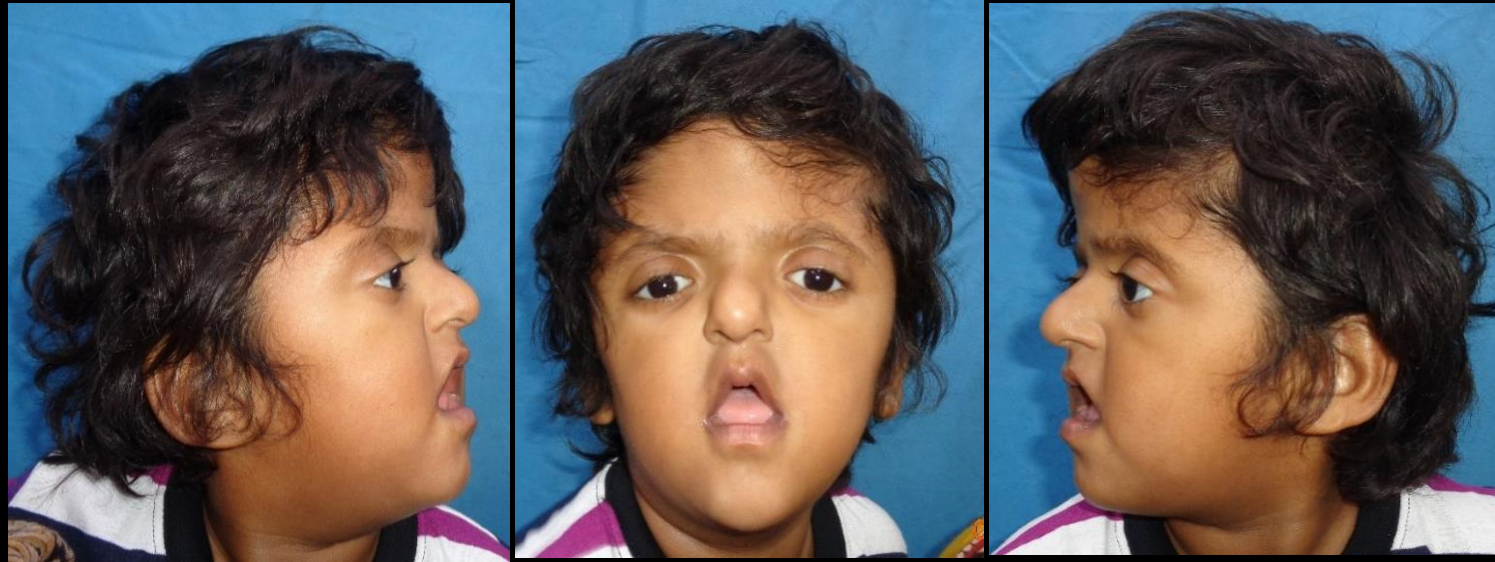


CROUZON SYNDROME FRONTOMONOBLOCK ADVANCEMENT WITH RED AND INTERNAL DISTRACTOR

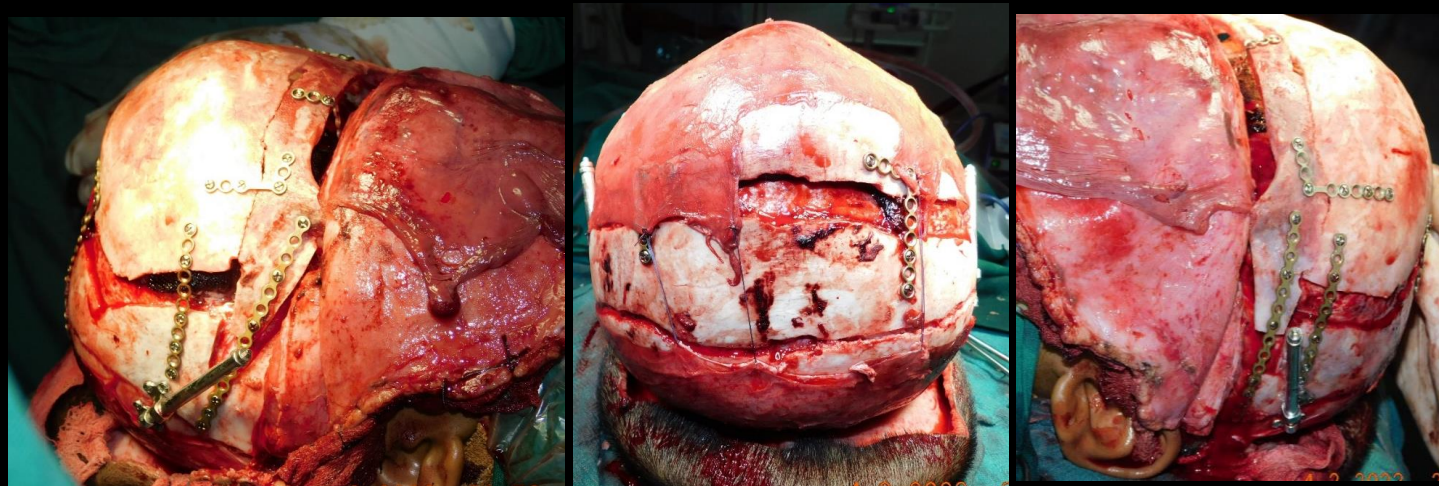


Craniofacial Syndromes and Anomalies

APERT SYNDROME



Pre op

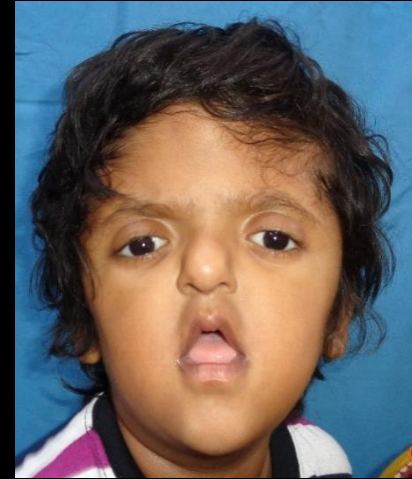
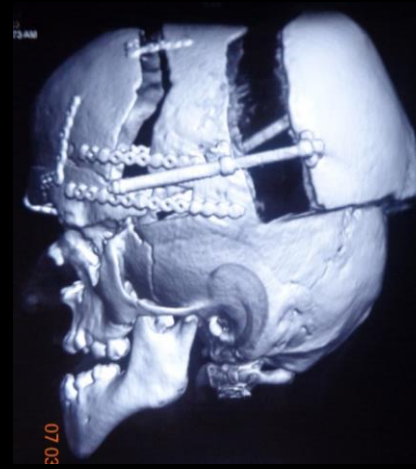
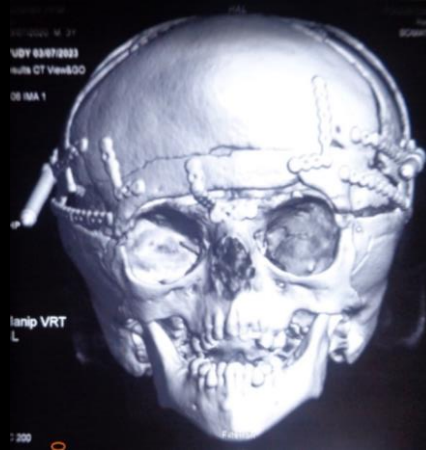
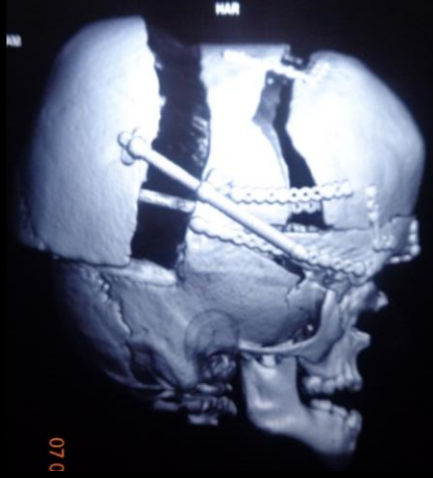


STAGE I: PCVD
AND
FRONTOORBITAL
ADVANCEMENT



POST OP STAGE 1

PRE OP



PRE OP

POST OP

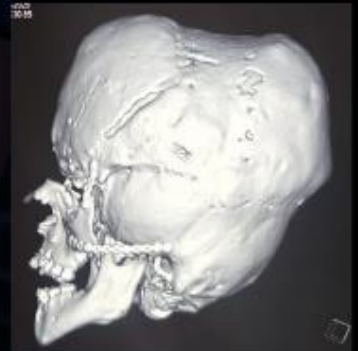
PRE OP

POST OP

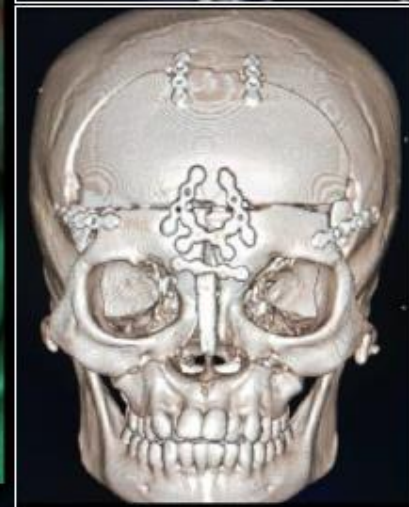
POST OP



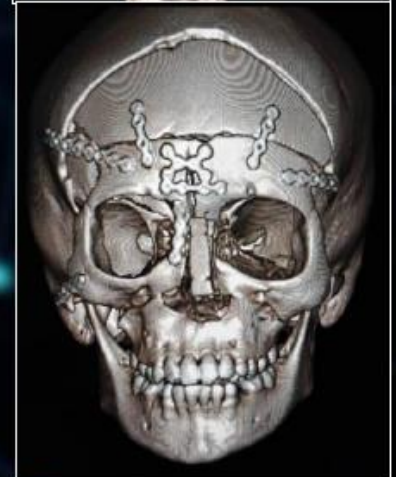
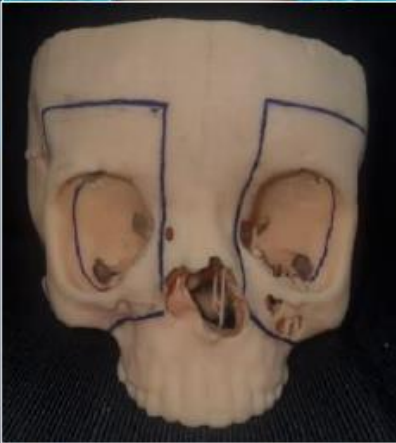
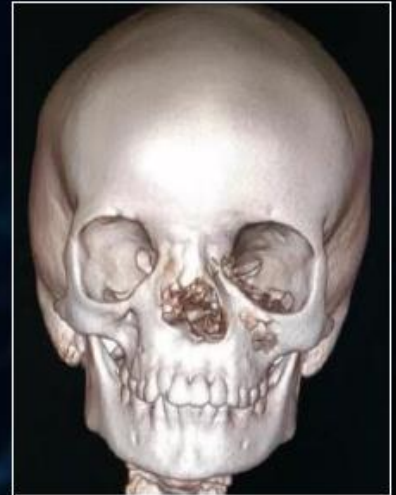
STAGE II: LEFORT III ADVANCEMENT



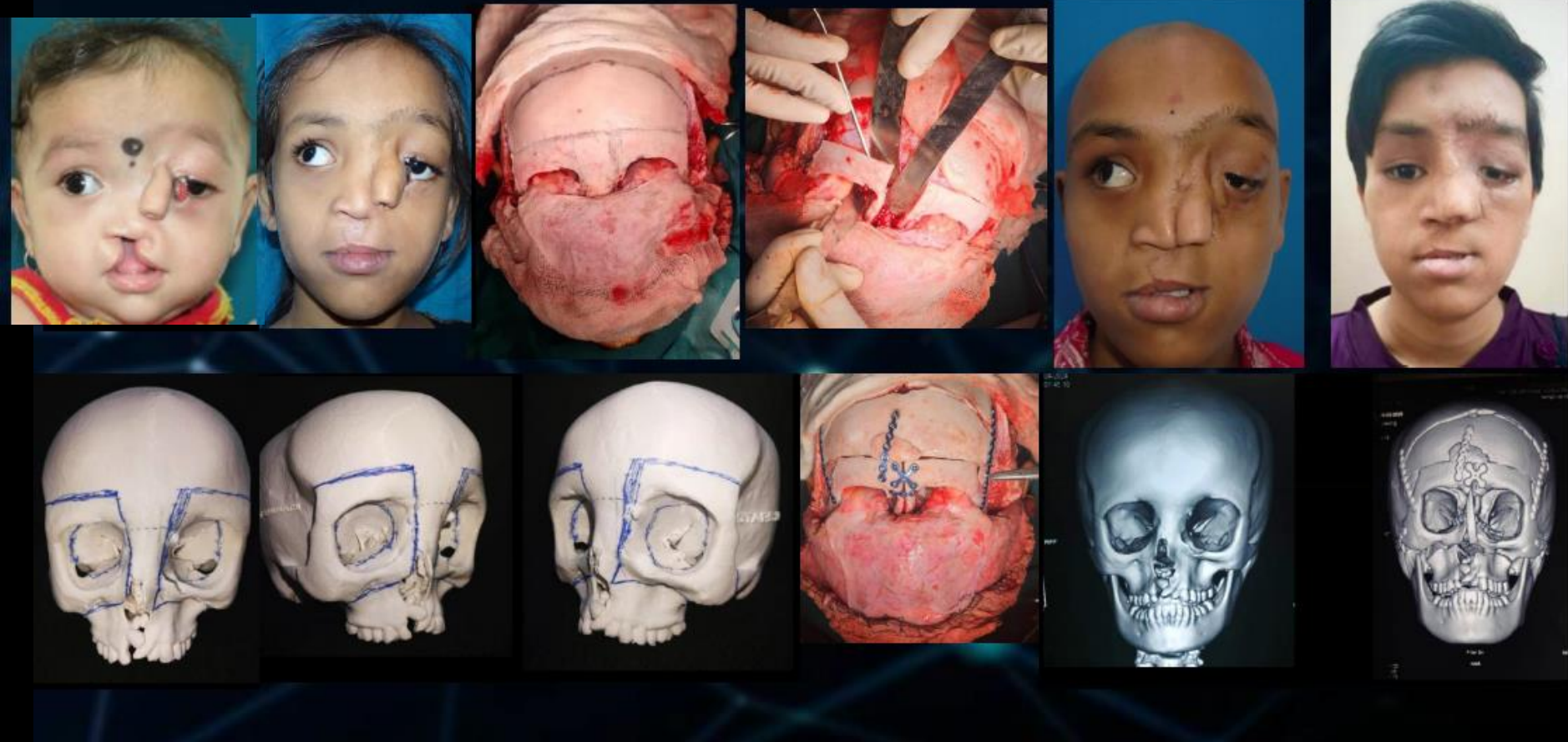
HYPERTELORISM CORRECTION



HYPERTELORISM CORRECTION

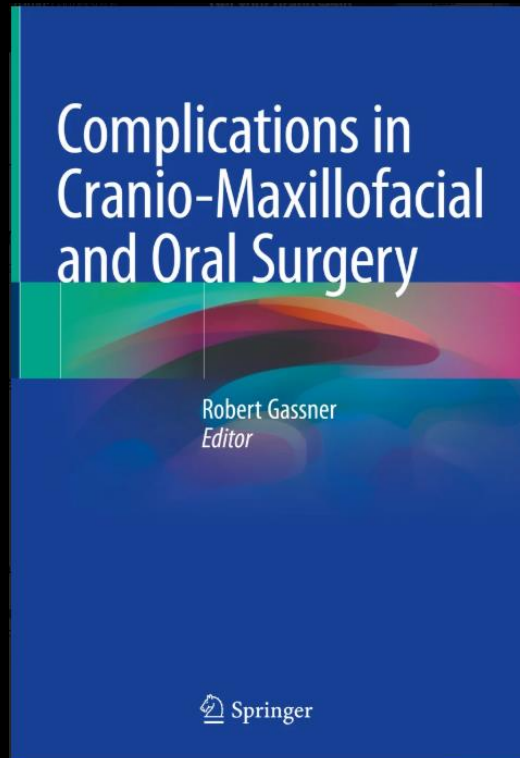


HYPERTELORISM CORRECTION




MORTALITY AND MORBIDITY

Risks across all surgical scales in the speciality of cleft and craniofacial surgery are quite common





Complications in Cleft Lip and Palate Surgeries

Chapter | First Online: 01 August 2020
pp 3–32 | [Cite this chapter](#)

 [Save chapter](#)

[Srinivas Gosla Reddy](#)  & [Ashish Fanan](#)

 919 Accesses  1 Citation

Abstract

Cleft lip and palate is a multifactorial and three-dimensional anomaly involving hard and soft tissues of the face. The comprehensive treatment of cleft lip and palate deformities requires a thorough consideration of the complexities of the anatomical deformity and a balance between intervention and growth. Complications can occur in the management of the cleft patients due to lack of understanding of surgical principles and improper techniques. Poor outcomes were the result of nonexistent protocol, fragmented care, and lack of periodic assessment. Many of the developed countries of the world have a well-structured and organized cleft team practice. However, the situation in most of the developing countries is quite different, where they lack properly trained medical personnel which hinder a high quality team approach delivery to the orofacial cleft patients. The resource-poor nations are managed through surgical outreach programs funded by various philanthropic organizations around the world. This chapter consists of a detailed classification of complications in cleft lip and palate surgeries and its comprehensive multidisciplinary management.



RELAPSE AND PHENOTYPIC RE EXPRESSION

RELAPSE

- Noted within a year post operatively
- Due to unstable / improper fixation
- Unstable movements of bony

PHENOTYPIC RE-EXPRESSION

- Occurs with growth
- When overcorrection is not done considering the future growth





PRE OP

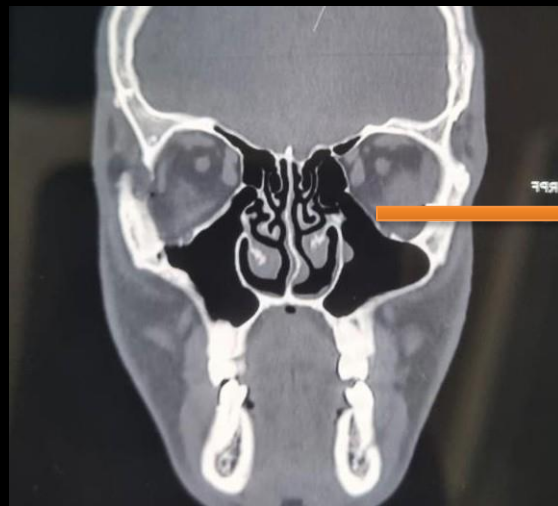


1YEAR POST OP



14 YEARS POST OP

WHY ???



Pneumatization of
ethmoidal air sinuses





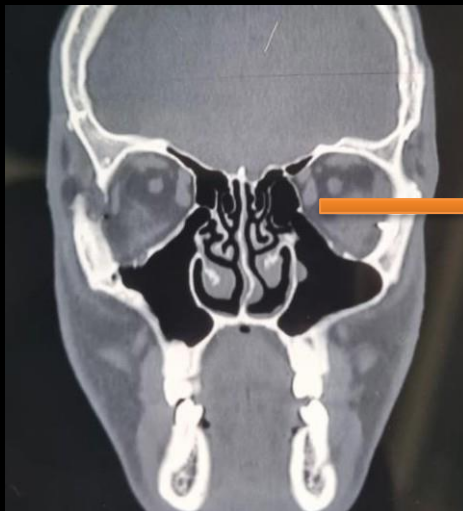
PRE OP



1YEAR POST OP



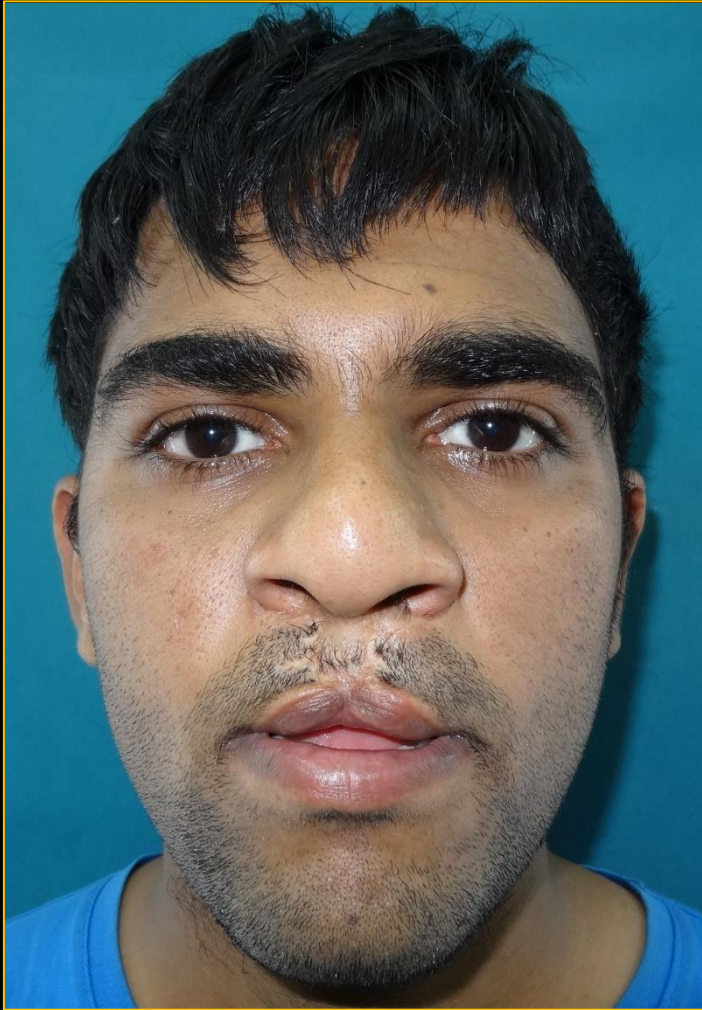
8 YEARS POST OP



Pneumatisation of
ethmoidal air sinuses



PSYCHOLOGICAL COMPLICATION



- Depression
- Patient operated for maxillary advancement went into clinical depression as he was dissatisfied with his outcome
- “4-day blues” is a well recognized and common phenomenon



OPHTHALMIC COMPLICATIONS

- Orbital Compartment syndrome

Draping of Upper Eyelid



Lack of eye movements



Incomplete osteotomies might have led to excessive force applied to the posterior maxillary segments during manual manipulation, this could cause propagation of excessive force and/or fractures upward via the maxillary sinus walls, resulting in an hairline orbital fracture. This resulting fracture could then lead to retrobulbar hemorrhage or swelling of soft tissue and the disastrous outcome for the patient.



BLINDNESS



Adverse transmission of forces via the sphenoid bone to the base of the skull during separation of the pterygomaxillary junction may explain this case of blindness with negative radiological findings.



Foreign body reaction

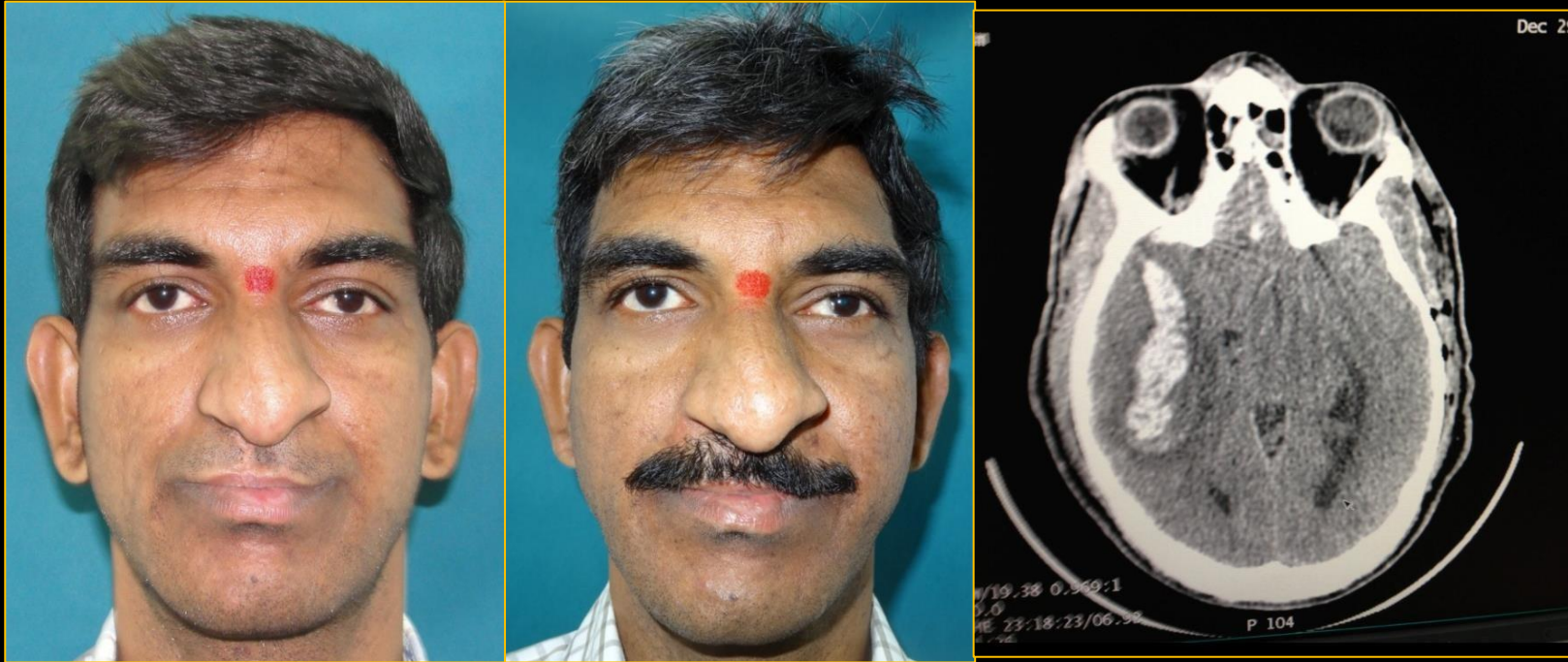


Patient operated for Genioplasty later identified with Titanium allergy



Bleeding Complications

Intracranial Haemorrhage

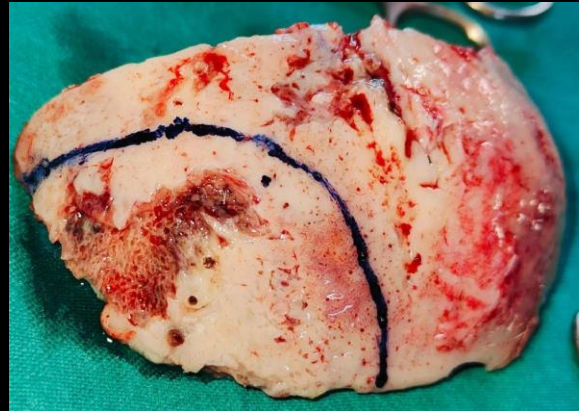


- Patient had left pupillary dilation and was incoherent and partially responding to commands post operatively after LeFort I osteotomy and placement of External Distractor.
- CT scan revealed an intra cranial bleed.
- Neurosurgeon's opinion was that the bleed was present preoperatively and was exacerbated by the surgery.

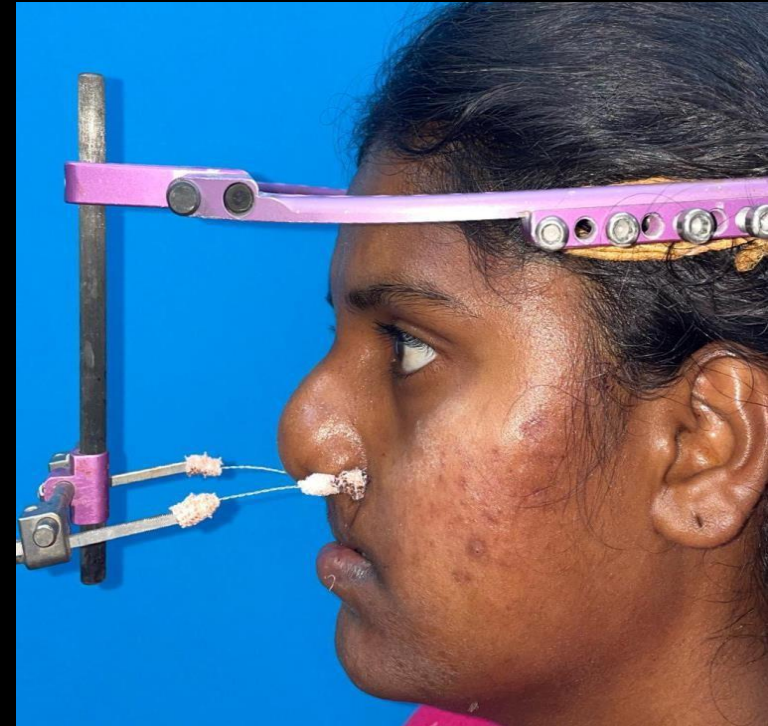


OSTEOMYELITIS OF FRONTAL BONE

POST HYPERTELORISM CORRECTION



PREMAXILLARY NECROSIS POST DISTRACTION



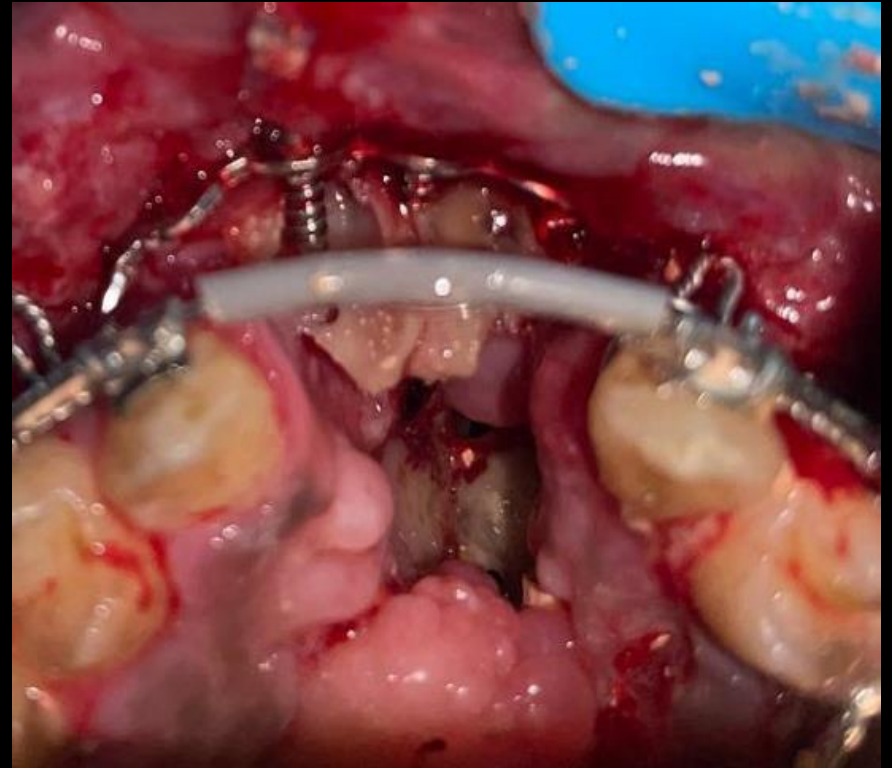
Patient was operated for Lefort I osteotomy and distraction with RED



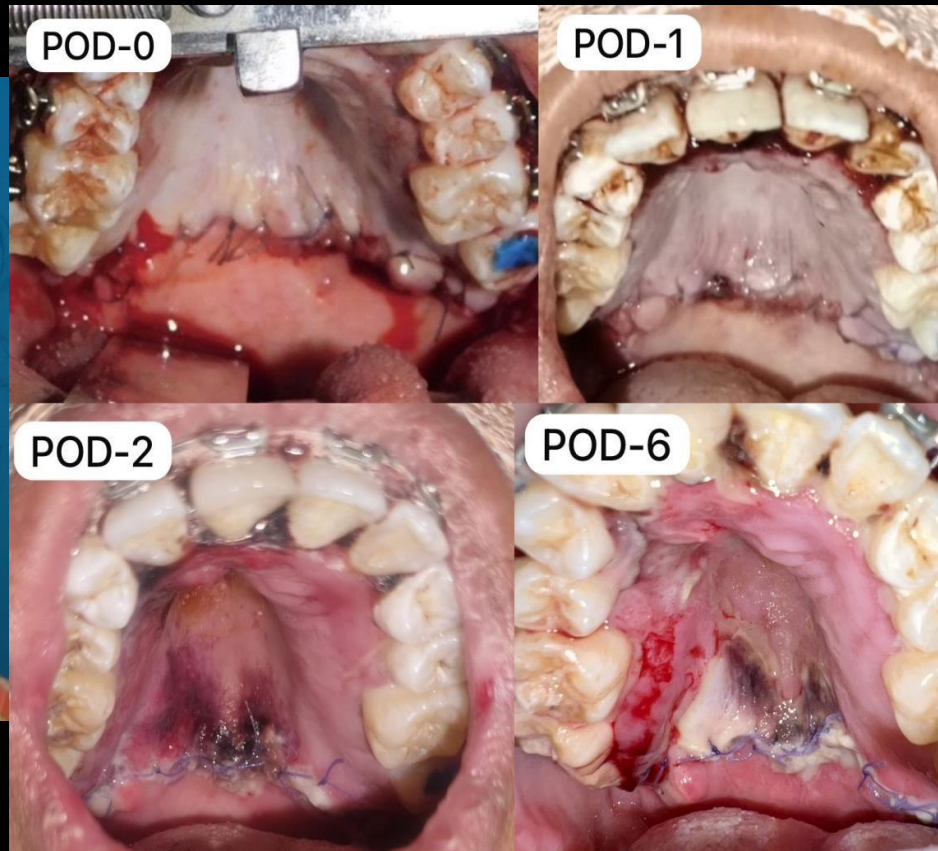
PRE OP



POST OP



MAXILLARY PEDICLE LOSS DURING MAXILLARY DISIMPACTION



AFTER COMPLETE RECOVERY



Patient was planned for counter clockwise rotation of maxillomandibular complex. During the disimpaction of maxilla it popped out losing its entire blood supply. After 20 cycles of HBO therapy healing progressed and revascularization was achieved.



AN EVIDENCE-BASED SURGICAL PHILOSOPHY,
TRANSLATED INTO RESEARCH THROUGH
COLLABORATION WITH WORLD-CLASS UNIVERSITIES



www.craniofacialinstitute.org

Research



PhD MEDICINE-
2010



PhD MEDICINE-
2019



PhD Completed-5

1. Dr Srinivas Gosla Reddy Unilateral Complete Cleft Lip Repair: A Modern Morpho-functional Surgical Approach Uni. of Radbound
2. Dr Rajgopal Reddy Unilateral Complete Cleft Palate Repair: A Morpho- functional Approach Uni. of Radbound
3. Dr Shahista Parveen 3-dimensional assessment of effect of various orthopedic treatment modalities in non-syndromic unilateral cleft lip and palate patients Yenepoya University
MDS
Consultant orthodontist
4. Dr Praveen Neela Genetic and Epigenetic Factors in etiology of non syndromic cleft lip and palate Yenepoya University
MDS
Consultant orthodontist
5. Dr Rizwana Assessment of Outcomes of Immediately loaded Dental implants in orofacial DMIMS , Wardha University
MDS
Consultant prosthodontist



PhD Ongoing-7

1. Dr Priyadharshini
MDS
Consultant OMFS

Identification, categorization, treatment protocol
suggestion and outcome prediction in unilateral cleft lip

Datta Meghe Institute of Higher
Education

2. Dr Harikishore Bhatt
MDS
Consultant OMFS

Perception of religious belief of
children born with cleft and craniofacial
defects-an evidence based study in
search of truth

Yenepoya University

3. Dr Varsha Bhatt
MDS
Consultant OMFS

Morphofunctional Management of TMJ
Ankylosis

Yenepoya University

4. Praveen Kumar M.
Assistant professor of Anatomy

Association Of SNP rs9788972 and
rs1801133in the etiology of Cleft Lip
Palate in Telangana Population

Kamineni institute of medical sciences,
Marketpally,



PhD Ongoing-7

5. Dr Dorin Marțincu

MDS
OMFS

Bilateral Complete Cleft Lip Repair: A Modern
Morpho-functional Surgical Approach

Uni. Of Oradea

6. Dr Hemwati Nandan

MDS
Consultant Orthodontist

AI-Powered Maxillofacial Growth Prediction:
Advancements in Personalized Treatment
Planning and Presurgical Infant Orthopedics
Device Design for Infants with Unilateral Cleft
Lip and Palate

Uni. Of Radbound

7. Dr Myrtle Ciphora

Consultant Speech Pathologist

Objective Measurement of Absolute
Velopharyngeal Closure Ratio through AI-
Powered Novel Tool

Uni. Of Radbound



1

Original Article

Incidence of cleft Lip and palate in the state of Andhra Pradesh, South India

Srinivas Gosla Reddy, Rajagopal R. Reddy, Ewald M. Bronkhorst, Rajendra Prasad, Anur M. Eltemer, Hermann F. Sailer, Stefan Berg...

OBJECTIVE: To assess the incidence of cleft lip and palate defects in the state of Andhra Pradesh, India. Design: Descriptive. This study was conducted in 2001 in the state of Andhra Pradesh, India...

KEY WORDS: Cleft lip & palate; incidence; cleft lip; cleft palate. Abstract text describing the study's findings and conclusions.

ORIGINAL ARTICLE

Developing and Standardizing a Center to Treat Cleft and Craniofacial Anomalies in a Developing Country Like India

Srinivas Gosla Reddy, MDS, MBBS *; Latah Y. Reddy, DDS, MD, FRCPC; and Rajagopal R. Reddy, MDS, MBBS

AIM: Craniofacial cleft defects in India are associated with considerable socioeconomic, social, linguistic, and ethnic heterogeneity. This study reports the development and standardization of a center to treat cleft and craniofacial anomalies in a developing country like India...

2

Journal of Oral and Maxillofacial Surgery, Vol. 1, No. 1

Congenital Anomalies Associated with Cleft Lip and Palate Defects in a High Volume Indian Centre

Srinivas Gosla Reddy, MDS, MBBS; Anur M. Eltemer, MDS, PhD; Rajagopal R. Reddy, MDS, MBBS; Stefan Berg, MD, DDS, PhD; Rajendra Prasad, MDS, MBBS; Hermann F. Sailer, MDS, PhD; and Hermann F. Sailer, MDS, PhD

OBJECTIVE: The objective of this study was to find the prevalence of associated anomalies in patients with cleft lip and palate defects. A number of associated anomalies were noted by the authors while routinely examining patients with cleft and craniofacial defects in their center...

Authors: Srinivas Gosla Reddy, MDS, MBBS; Anur M. Eltemer, MDS, PhD; Rajagopal R. Reddy, MDS, MBBS; Stefan Berg, MD, DDS, PhD; Rajendra Prasad, MDS, MBBS; Hermann F. Sailer, MDS, PhD; and Hermann F. Sailer, MDS, PhD.

4

Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology. Contents lists available at ScienceDirect. Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology.

Health related quality of life of patients with non-syndromic orofacial clefts

Srinivas Gosla Reddy*, Rajagopal R. Reddy*, Ewald M. Bronkhorst*, Rajendra Prasad*, Anur M. Eltemer*, Hermann F. Sailer*

OBJECTIVE: To evaluate the relation between health-related quality of life (HRQL) in larger population groups and the presence of orofacial clefts. Design: Cross-sectional study.

1. Background: The World Health Organization (WHO) defines health as not only the absence of disease but also a state of complete physical, mental, and social well-being. It has led to a broader conceptualization of overall health. The World Health Organization (WHO) defines health as not only the absence of disease but also a state of complete physical, mental, and social well-being.

5

ORIGINAL ARTICLE

Perceptions of Family Members of Children With Cleft Lip and Palate in Hyderabad, India, and Its Rural Outskirts Regarding Craniofacial Anomalies: A Pilot Study

Anupriya Naidu, M.D., Samuel H. Moshirfar, M.D., Deepak Narain, M.D., Srinivas Gosla Reddy, M.D., D.D.S., Rajagopal R. Reddy, M.D., D.D.S., Janice F. Lattion, M.D., Jerome Donald Chan, M.D.

OBJECTIVE: This pilot study aimed to understand cultural perceptions and attitudes toward the etiology of orofacial, facial, and craniofacial anomalies. Design: Interviews focusing on perceptions of adults and parents were standardized using 25-point Likert-type scales approved by the director of the Cleft Lip and Palate Institute of India, Hyderabad, India.

KEY WORDS: beliefs; child; culture; Hyderabad. Abstract text describing the study's findings and conclusions.

6

Journal of Oral and Maxillofacial Surgery, Vol. 1, No. 1. Contents lists available at ScienceDirect. Journal of Oral and Maxillofacial Surgery, Vol. 1, No. 1.

Screening for maternal coeliac disease as a potential risk factor for orofacial clefts—a pilot study

S. G. Reddy, A. R. Reddy, A. Fardipour, A. Mooka, J. Smith. Screening for maternal coeliac disease as a potential risk factor for orofacial clefts—a pilot study.

OBJECTIVE: This is a screening study to determine the prevalence of maternal coeliac disease in a high-volume Indian center. Design: Cross-sectional study.

Abstract text describing the study's findings and conclusions.

PEDIATRIC/CRANIOFACIAL

Effect of One-Stage versus Two-Stage Palatoplasty on Hypernasality and Fistula Formation in Children with Complete Unilateral Cleft Lip and Palate: A Randomized Controlled Trial

Rajgopal R. Reddy, M.B.S., B.D.S., F.D.S.R.C.P.(Glasg)...
Background: It is thought that one-stage palatoplasty may be effective for preventing...
Methods: This parallel block randomized controlled trial included 100 patients...
Results: There was no difference in fistula rates between groups A and B...
Conclusion: There was no difference in fistula rates between groups. No...
KEYWORDS: Palatoplasty, Hypernasality, Fistula, Cleft Lip and Palate.

Although cleft palate repair has significant benefits for the patient's feeding and speech...
KEYWORDS: Cleft palate repair, Hypernasality, Fistula, Palatoplasty.

Journal of Cranio-Maxillo-Facial Surgery
ELSEVIER
journal homepage: www.elsevier.com/locate/jcms

Efficacy of morpho-functional repair in management of different morphological variants of unilateral complete cleft lip

Srinivas Gosta Reddy, Ashish Shah, Srida Anstaj, Rajgopal R. Reddy, Ashish Panigrahi

Background: To study the surgical outcome in various morphological variants of unilateral complete cleft lip...
Methods: This retrospective study included 100 patients with unilateral cleft lip with palatal...
Results: The study showed that the morpho-functional repair technique resulted in...
Conclusion: This study shows that the morpho-functional repair technique is...
KEYWORDS: Cleft lip, Morpho-functional repair, Unilateral cleft lip.

1. Introduction

The primary goal of cleft lip repair should be to achieve adequate lip length on the cleft side. Other equally important objectives are an anatomic and functional repair that does not cause...
KEYWORDS: Cleft lip repair, Morpho-functional repair, Unilateral cleft lip.

* Corresponding author. CRB Institute of Craniofacial and Facial Plastic Surgery...
© 2019 European Association for Cranio-Maxillo-Facial Surgery. Published by Elsevier Ltd. All rights reserved.

Review Article

Clinical utility of cone-beam computed tomography in patients with cleft lip/palate: Current perspectives and guidelines

Shobika Parveen*, Akhter Husain*, Rohan Mascarenhas*, Satish Shenoa* / India

ABSTRACT
The aim of this article is to provide a comprehensive review of the application of cone-beam computed tomography (CBCT) in patients with cleft lip and palate (CLP). A literature search was conducted from September 2018 to December 2018...
INTRODUCTION
Cone-beam computed tomography (CBCT) was developed as an evolutionary process of computed tomography (CT) for the diagnosis and quantitative 3D reconstruction of the craniofacial structure...
KEYWORDS: Cone-beam computed tomography, Cleft lip and palate, Craniofacial anomalies.

426 www.PRSJournal.com
© 2019 Journal of Cleft Lip and Palate and Craniofacial Anomalies | Published by Wolters Kluwer | Medknow

Original Article

Association of cleft lip and/or palate in people born to consanguineous parents: A 13-year retrospective study from a very high-volume cleft center

Preveen Kumar Neela, Gritivasa Gosla Reddy*, Akhter Husain*, Veasvi Mohan*

ABSTRACT
Objective: The objective of this study was to investigate the association of cleft lip (CL) and/or cleft palate (CP) in people born to consanguineous parents. Methodology: This retrospective study was conducted at SRB Institute of Craniofacial Surgery, Hyderabad, a very high-volume cleft center...
INTRODUCTION
Cleft lip (CL) and/or cleft palate (CP) is one of the most common visible congenital deformities of the face...
KEYWORDS: Cleft lip and palate, Consanguinity, Retrospective study.

* Corresponding author. Krishna Institute of Dental Sciences, Hyderabad, India.
© 2019 Journal of Cleft Lip and Palate and Craniofacial Anomalies | Published by Wolters Kluwer | Medknow



426 www.PRSJournal.com
© 2019 Journal of Cleft Lip and Palate and Craniofacial Anomalies | Published by Wolters Kluwer | Medknow

Original Article

Three-dimensional assessment of transverse displacement with Facemask and Maxgym in unilateral cleft lip and palate model

Shahisha Parveen, Akhter Husain, Srinivas Gosla Reddy*, Rohan Mascarenhas, Satish Shenoa*, Malharajana Reddy*

ABSTRACT
Background: Growing patients with cleft lip and palate (CLP) exhibit maxillary deficiency due to early surgical intervention. Maxillary protraction with expansion in the nasomaxillary complex...
KEYWORDS: Maxillary protraction, Facemask, Maxgym, Unilateral cleft lip and palate model.

* Corresponding author. Krishna Institute of Dental Sciences, Hyderabad, India.
© 2019 Journal of Indian Society of Prosthodontics and Prosthetic Dentistry | Published by Wolters Kluwer | Medknow

Original article

Rebecca Chowdhry, Hanif Abdul Rahman, Priyanka Mishra, Suresh Kumar Sharma, Srinivas Gosla Reddy, Sachinraj Kaur Sodhi Dhalavadi, Jagjit Singh Dhalavadi

Acquaintance, attitude, practices and challenges of palliative oral care among healthcare professionals: A cross-sectional survey at a tertiary healthcare institute in India

Introduction: To assess knowledge, experiences, perceptions and barriers of healthcare professionals regarding oral palliative care. Material and methods: The study involved 150 participants working at a tertiary healthcare institute in India. The data collection tool was pre-tested and self-administered with sections on demographics, knowledge, attitude and practices, patient referral, perspectives, and barriers to oral palliative care.

Results: The majority of participants (142/94.6%) believed that palliative care patients need oral care, 85/56.6% participants had treated palliative care patients with dental problems. However, 62/40% had not received formal training in assessing and referral of patients with oral problems. 93/62% had never used tools to assess oral conditions of palliative care patients. According to 89/59%, the best method to maintain oral hygiene is rinsing with saline and 10/7% expected physicians to be responsible for oral care of palliative care patients.

Conclusion: The study highlighted the need for effective assessment of the mouth and appropriate oral care. Training of healthcare professionals, educating families and patients with oral palliative care are necessary to effectively manage and symptoms. An appropriate patient follow-up and care delivery system should be structured at comprehensive cancer centres, which can improve the quality of life and compliance of patients. There is a need for the development of assessment tools and referral practices for providing relief, comfort and consolation to patients and families.

Key words: advanced disease, cancer, hospice, oral care, palliative care

Palil Med Pract 2021; 15: 2: 106-116

Copyright © by Medical Science, 2021-22, All rights reserved. This article is available in open access under Creative Commons Attribution Non-Commercial Use License 4.0 International CC BY-NC-ND 4.0 license, allowing to download articles and share them with others as long as they credit the authors and the publisher, but without permission to change them in any way or to others commercially.

Journal of Oral Biology and Craniofacial Research
Creative Commons Attribution-NonCommercial 4.0 International License
Journal homepage: www.ccrjournal.in

Relapse and temporomandibular joint dysfunction (TMD) as postoperative complication in skeletal class III patients undergoing bimaxillary orthognathic surgery: A systematic review

Noreg, Srinivas Gosla Reddy, Ashwath Dixit, Padmanabhi Agarwal, Rebecca Chowdhry, Ashi Chugh

Introduction: The aim of this study was to determine the relapse and the postoperative complications in skeletal class III patients. Material and methods: This was a meta-analysis of the literature. The search was conducted using PubMed, Scopus, Embase, and Cochrane. The search terms used were: "relapse", "postoperative complications", "bimaxillary orthognathic surgery", "skeletal class III", "temporomandibular joint dysfunction", "orthognathic surgery".

Results: The results of the meta-analysis showed that the relapse rate was 10.5% and the postoperative complications were 15.2%. The most common relapse was in the mandible, followed by the maxilla. The most common postoperative complication was temporomandibular joint dysfunction, followed by malocclusion. The study also found that the relapse rate was significantly higher in patients who had a relapse in the mandible compared to those who had a relapse in the maxilla.

Conclusion: The results of this meta-analysis suggest that the relapse rate and postoperative complications are higher in skeletal class III patients undergoing bimaxillary orthognathic surgery. Therefore, it is important to carefully monitor these patients postoperatively and to provide appropriate treatment for any relapse or complications that may occur.

Journal of Oral Biology and Craniofacial Research
Creative Commons Attribution-NonCommercial 4.0 International License
Journal homepage: www.ccrjournal.in

Cleft surgery in India - Past, present and future and a model for global knowledge transfer

Srinivas Gosla Reddy, Anant Pandey, Aditya Bama

Introduction: Cleft lip and palate (CLP) is a common congenital anomaly affecting 1 in 700 newborns worldwide. In India, CLP is a significant public health problem. The aim of this study was to review the history of cleft surgery in India and to propose a model for global knowledge transfer.

Methods: A literature review was conducted to identify the historical and current practices of cleft surgery in India. The study also involved interviews with experts in the field of cleft surgery. The results of the study were used to develop a model for global knowledge transfer.

Results: The study found that cleft surgery in India has a long history, dating back to ancient times. However, the practice was largely unscientific and based on traditional beliefs. The study also found that there is a need for a model for global knowledge transfer to improve the practice of cleft surgery in India.

Conclusion: The study highlights the need for a model for global knowledge transfer to improve the practice of cleft surgery in India. This model should be based on scientific principles and should take into account the cultural and social context of India.

Key words: cleft lip and palate, cleft surgery, India, global knowledge transfer

Copyright © by Medical Science, 2021-22, All rights reserved. This article is available in open access under Creative Commons Attribution Non-Commercial Use License 4.0 International CC BY-NC-ND 4.0 license, allowing to download articles and share them with others as long as they credit the authors and the publisher, but without permission to change them in any way or to others commercially.

International Journal of Current Research and Review
Creative Commons Attribution-NonCommercial 4.0 International License
Journal homepage: www.ijcrrjournal.in

Bone Graft Materials in Late Secondary and Tertiary Alveolar Bone Grafting: A Review

Mallick Rizwana, Pisuikar Sweta Kate, Reddy Srinivas Reddy, Jain Vanishka

Introduction: Alveolar bone loss is a common complication of periodontal disease. The aim of this review was to evaluate the use of bone graft materials in late secondary and tertiary alveolar bone grafting. The study also evaluated the effectiveness of different bone graft materials.

Methods: A literature review was conducted to identify the use of bone graft materials in late secondary and tertiary alveolar bone grafting. The study also involved interviews with experts in the field of periodontology. The results of the study were used to evaluate the effectiveness of different bone graft materials.

Results: The study found that bone graft materials are used in late secondary and tertiary alveolar bone grafting to restore the alveolar bone. The study also found that the use of bone graft materials is associated with a higher success rate compared to non-grafting techniques.

Conclusion: The study suggests that bone graft materials are an effective treatment option for late secondary and tertiary alveolar bone loss. However, the choice of bone graft material should be based on the patient's clinical and radiographic findings.

Journal of Oral Biology and Craniofacial Research
Creative Commons Attribution-NonCommercial 4.0 International License
Journal homepage: www.ccrjournal.in

Silver Diamine Fluoride Versus Atraumatic Restorative Treatment in Pulpal-Dental Caries Management: A Systematic Review and Meta-analysis

Talita Wolkoff, Srinivas Gosla Reddy, Sarah K. Sharma, Ashi Chugh, Ashish Dixit, Kapoora Thakur

Introduction: Silver diamine fluoride (SDF) and atraumatic restorative treatment (ART) are two minimally invasive techniques for the management of pulpally involved dental caries. The aim of this systematic review and meta-analysis was to compare the effectiveness of SDF and ART in the management of pulpally involved dental caries.

Methods: A systematic review and meta-analysis were conducted to evaluate the effectiveness of SDF and ART in the management of pulpally involved dental caries. The study included 10 studies with a total of 1000 patients. The results of the meta-analysis showed that SDF and ART were equally effective in the management of pulpally involved dental caries.

Results: The meta-analysis showed that SDF and ART were equally effective in the management of pulpally involved dental caries. The study also found that SDF and ART were associated with a lower risk of postoperative complications compared to conventional restorative techniques.

Conclusion: The study suggests that SDF and ART are effective and safe techniques for the management of pulpally involved dental caries. Therefore, these techniques should be considered as first-line treatment options for pulpally involved dental caries.

Key words: silver diamine fluoride, atraumatic restorative treatment, pulpally involved dental caries

Copyright © by Medical Science, 2021-22, All rights reserved. This article is available in open access under Creative Commons Attribution Non-Commercial Use License 4.0 International CC BY-NC-ND 4.0 license, allowing to download articles and share them with others as long as they credit the authors and the publisher, but without permission to change them in any way or to others commercially.

Journal of Oral Biology and Craniofacial Research
Creative Commons Attribution-NonCommercial 4.0 International License
Journal homepage: www.ccrjournal.in

Nasal deformity correction with nasal prosthesis

Megha Saha, Monal Karan, Vaidhar Rama Subramanian, Geeta Srinivas Reddy

Introduction: Nasal deformity is a common condition that can significantly affect a patient's appearance and quality of life. The aim of this study was to evaluate the effectiveness of nasal prosthesis in the correction of nasal deformity. The study also evaluated the patient's satisfaction with the procedure.

Methods: A retrospective study was conducted to evaluate the effectiveness of nasal prosthesis in the correction of nasal deformity. The study included 20 patients who had undergone nasal prosthesis. The results of the study showed that nasal prosthesis was an effective technique for the correction of nasal deformity.

Results: The study found that nasal prosthesis was an effective technique for the correction of nasal deformity. The study also found that patients who underwent nasal prosthesis were satisfied with the results of the procedure.

Conclusion: The study suggests that nasal prosthesis is an effective and safe technique for the correction of nasal deformity. Therefore, it should be considered as a treatment option for patients with nasal deformity.

Journal of Oral Biology and Craniofacial Research
Creative Commons Attribution-NonCommercial 4.0 International License
Journal homepage: www.ccrjournal.in

Relapse and temporomandibular joint dysfunction (TMD) as postoperative complication in skeletal class III patients undergoing bimaxillary orthognathic surgery: A systematic review

Noreg, Srinivas Gosla Reddy, Ashwath Dixit, Padmanabhi Agarwal, Rebecca Chowdhry, Ashi Chugh

Introduction: The aim of this study was to determine the relapse and the postoperative complications in skeletal class III patients. Material and methods: This was a meta-analysis of the literature. The search was conducted using PubMed, Scopus, Embase, and Cochrane. The search terms used were: "relapse", "postoperative complications", "bimaxillary orthognathic surgery", "skeletal class III", "temporomandibular joint dysfunction", "orthognathic surgery".

Results: The results of the meta-analysis showed that the relapse rate was 10.5% and the postoperative complications were 15.2%. The most common relapse was in the mandible, followed by the maxilla. The most common postoperative complication was temporomandibular joint dysfunction, followed by malocclusion. The study also found that the relapse rate was significantly higher in patients who had a relapse in the mandible compared to those who had a relapse in the maxilla.

Conclusion: The results of this meta-analysis suggest that the relapse rate and postoperative complications are higher in skeletal class III patients undergoing bimaxillary orthognathic surgery. Therefore, it is important to carefully monitor these patients postoperatively and to provide appropriate treatment for any relapse or complications that may occur.

International Journal of Current Research and Review
Creative Commons Attribution-NonCommercial 4.0 International License
Journal homepage: www.ijcrrjournal.in

Bone Graft Materials in Late Secondary and Tertiary Alveolar Bone Grafting: A Review

Mallick Rizwana, Pisuikar Sweta Kate, Reddy Srinivas Reddy, Jain Vanishka

Introduction: Alveolar bone loss is a common complication of periodontal disease. The aim of this review was to evaluate the use of bone graft materials in late secondary and tertiary alveolar bone grafting. The study also evaluated the effectiveness of different bone graft materials.

Methods: A literature review was conducted to identify the use of bone graft materials in late secondary and tertiary alveolar bone grafting. The study also involved interviews with experts in the field of periodontology. The results of the study were used to evaluate the effectiveness of different bone graft materials.

Results: The study found that bone graft materials are used in late secondary and tertiary alveolar bone grafting to restore the alveolar bone. The study also found that the use of bone graft materials is associated with a higher success rate compared to non-grafting techniques.

Conclusion: The study suggests that bone graft materials are an effective treatment option for late secondary and tertiary alveolar bone loss. However, the choice of bone graft material should be based on the patient's clinical and radiographic findings.

Journal of Oral Biology and Craniofacial Research
Creative Commons Attribution-NonCommercial 4.0 International License
Journal homepage: www.ccrjournal.in

Nasal deformity correction with nasal prosthesis

Megha Saha, Monal Karan, Vaidhar Rama Subramanian, Geeta Srinivas Reddy

Introduction: Nasal deformity is a common condition that can significantly affect a patient's appearance and quality of life. The aim of this study was to evaluate the effectiveness of nasal prosthesis in the correction of nasal deformity. The study also evaluated the patient's satisfaction with the procedure.

Methods: A retrospective study was conducted to evaluate the effectiveness of nasal prosthesis in the correction of nasal deformity. The study included 20 patients who had undergone nasal prosthesis. The results of the study showed that nasal prosthesis was an effective technique for the correction of nasal deformity.

Results: The study found that nasal prosthesis was an effective technique for the correction of nasal deformity. The study also found that patients who underwent nasal prosthesis were satisfied with the results of the procedure.

Conclusion: The study suggests that nasal prosthesis is an effective and safe technique for the correction of nasal deformity. Therefore, it should be considered as a treatment option for patients with nasal deformity.

Review Article

Medication-Related Osteonecrosis of Jaw and Rheumatoid Arthritis: Revisiting the Concepts

Ashy Kumar*, Gokul Srinivas Reddy, Ashi Chugh
Department of Surgery-Cranio-Maxillofacial Surgery, AIIMS, New Delhi, Uttarakhand, India

Abstract
Medication-related osteonecrosis of the jaw (MRONJ) is one of the most challenging conditions that clinicians come across owing to its varied degrees of presentation defined in literature. In rheumatoid arthritis (RA), individuals are under the influence of several medications which might cause the bone resorption. Hence, this narrative review has been undertaken to specifically discuss the classification of MRONJ in RA, to study the associated risk factors, to highlight the importance of oral health care and to review the concepts of medication related to the above condition. Published literature was searched using the keywords: medication-related osteonecrosis of the jaw and rheumatoid arthritis. This condition is a multifactorial condition with 'highly immunosuppressive' drugs such as anti-tumor necrosis factor- α (TNF- α) inhibitors, biologics, and corticosteroids being the most common. TNF- α inhibitors and other TNF- α affecting medications, however, have been shown to have a protective effect on the jaw. Corticosteroids have often failed to prove the association of RA in MRONJ causation, however there is an indirect association in some cases. Though various studies have highlighted various risk factors, RA is not a major risk factor. Present review reports the same and also highlights the growing evidence on the role of emerging oral drugs in MRONJ development. This current clinical case, appropriate patient education, and a multidisciplinary approach to treatment of medical therapy, patient compliance and regular follow-up is required for reduction of number of patients presenting with MRONJ.

Introduction
Medication-related osteonecrosis of the jaw (MRONJ) is one of the most challenging conditions that clinicians come across owing to its varied degrees of presentation and prognosis of treatment defined in literature [1]. This clinical entity has been given various definitions in order to avoid misclassification. It is an edentulous patient with or without radiologically detectable disease in the jaws. The exact pathogenesis is controversial in existing literature, although a number of risk factors have been implicated. Exposure to anti-osteoporosis and anti-angiogenic therapeutic agents are the major factors associated with this disease process [2]. Accurate history and examination facilitates rapid diagnosis and early treatment.

In rheumatoid arthritis (RA), individuals are under the influence of several medications which might impact the bone structure leading to jaw osteonecrosis (OJ). Literature

has often proven the association of bisphosphonates (BP) use in RA for osteoporosis. However, there is no evidence concerning whether other drugs used in RA can also affect the same [3]. The advent of novel biologic medications for RA warrants re-evaluation for their respective side effects. Furthermore, there are various risk factors associated with MRONJ such as prior dental intervention, concomitant medical conditions, age, tobacco use and infection, but RA in itself may prove to be a major risk factor for such highly immunosuppressive drugs. Although there are many medical conditions in which patients are predisposed to such clinical development, the narrative review has been undertaken to specifically discuss development of OJ in

RA. The aim of this study is to determine whether placement of an antibiotic oral pack on the hard palate reduces the risk of postoperative cleft palatoplasty.

Subjects and methods: This study was a parallel biologic development controlled trial. The study consisted of two groups of 100 patients each with non-syndromic unilateral cleft palate. The control group had no antibiotic pack and the antibiotic group had cleft palatoplasty. Group A had an oral pack placed on the hard palate for 7 days postoperatively, while group B did not have an oral pack.

Results: In 20 of the patients in group A, a fistula was found 6 months after palatal surgery, as compared, in 21% of the patients in group B. A partial fistula could be repaired. The fistula recurrence in group A was statistically significantly lower than in group B. (P=0.0074, CI=0.002 - 0.343, p=0.004).

Conclusion: This findings of this study provide evidence that the use of biologic formation antibiotic primary palatoplasty is significantly reduced if a pack worked with antibiotic course is placed on the palate postoperatively for 7 days.

Clinical relevance: The use of an antibiotic pack after cleft palate repair can be recommended in present scenario of increased antibiotic resistance.

Keywords: Cleft palate, Surgical procedures, Operative, Oral fistula, Treatment outcomes

Introduction
Fistula with consequent dysfunction. Such fistulae are reported to occur between 9 and 77.6% of patients after primary palatoplasty [1]. Though the breakdown of a primary repaired cleft palate could be due to a number of reasons, bacterial infection may be a significant cause.

1.1. Background
The greatest failure of a cleft palate reconstruction is growth of the skull premaxilla and the associated maxillary growth parallel to the palate. Thus, the lateral cleft lip remains uncorrected and underdeveloped. This is due to the fact that the maxilla is not supported by the palate. The maxilla is not supported by the palate. The maxilla is not supported by the palate. The maxilla is not supported by the palate.

1.2. Objectives
The aim of this study is to determine whether placement of an antibiotic oral pack on the hard palate reduces the risk of postoperative cleft palatoplasty.

1.3. Methods
This study was a parallel biologic development controlled trial. The study consisted of two groups of 100 patients each with non-syndromic unilateral cleft palate. The control group had no antibiotic pack and the antibiotic group had cleft palatoplasty. Group A had an oral pack placed on the hard palate for 7 days postoperatively, while group B did not have an oral pack.

1.4. Results
In 20 of the patients in group A, a fistula was found 6 months after palatal surgery, as compared, in 21% of the patients in group B. A partial fistula could be repaired. The fistula recurrence in group A was statistically significantly lower than in group B. (P=0.0074, CI=0.002 - 0.343, p=0.004).

1.5. Conclusion
This findings of this study provide evidence that the use of biologic formation antibiotic primary palatoplasty is significantly reduced if a pack worked with antibiotic course is placed on the palate postoperatively for 7 days.

1.6. Clinical relevance
The use of an antibiotic pack after cleft palate repair can be recommended in present scenario of increased antibiotic resistance.

1.7. Keywords
Cleft palate, Surgical procedures, Operative, Oral fistula, Treatment outcomes

1.8. Introduction
Fistula with consequent dysfunction. Such fistulae are reported to occur between 9 and 77.6% of patients after primary palatoplasty [1]. Though the breakdown of a primary repaired cleft palate could be due to a number of reasons, bacterial infection may be a significant cause.

1.9. Background
The greatest failure of a cleft palate reconstruction is growth of the skull premaxilla and the associated maxillary growth parallel to the palate. Thus, the lateral cleft lip remains uncorrected and underdeveloped. This is due to the fact that the maxilla is not supported by the palate. The maxilla is not supported by the palate. The maxilla is not supported by the palate.

1.10. Objectives
The aim of this study is to determine whether placement of an antibiotic oral pack on the hard palate reduces the risk of postoperative cleft palatoplasty.

1.11. Methods
This study was a parallel biologic development controlled trial. The study consisted of two groups of 100 patients each with non-syndromic unilateral cleft palate. The control group had no antibiotic pack and the antibiotic group had cleft palatoplasty. Group A had an oral pack placed on the hard palate for 7 days postoperatively, while group B did not have an oral pack.

1.12. Results
In 20 of the patients in group A, a fistula was found 6 months after palatal surgery, as compared, in 21% of the patients in group B. A partial fistula could be repaired. The fistula recurrence in group A was statistically significantly lower than in group B. (P=0.0074, CI=0.002 - 0.343, p=0.004).

1.13. Conclusion
This findings of this study provide evidence that the use of biologic formation antibiotic primary palatoplasty is significantly reduced if a pack worked with antibiotic course is placed on the palate postoperatively for 7 days.

1.14. Clinical relevance
The use of an antibiotic pack after cleft palate repair can be recommended in present scenario of increased antibiotic resistance.

Comprehensive Morpho-Functional and Dental Rehabilitation of a Complete Unilateral Cleft Lip and Palate Patient

Ramesh Reddy*, Anshu K. Phadke*, Anshu K. Reddy*, Anshu K. Reddy*

Department of Plastic and Reconstructive Surgery, All India Institute of Medical Sciences, New Delhi, India; Department of Plastic and Reconstructive Surgery, All India Institute of Medical Sciences, New Delhi, India; Department of Plastic and Reconstructive Surgery, All India Institute of Medical Sciences, New Delhi, India; Department of Plastic and Reconstructive Surgery, All India Institute of Medical Sciences, New Delhi, India

Abstract
Complete unilateral cleft lip and palate, although affecting patient's social and psychological, also affects the aesthetic and functional aspects of the face. The aim of this study was to report the morpho-functional and dental rehabilitation of a complete unilateral cleft lip and palate patient. The patient was treated with a comprehensive approach including lip and palate repair, orthodontic treatment, and dental rehabilitation. The patient was treated with a comprehensive approach including lip and palate repair, orthodontic treatment, and dental rehabilitation. The patient was treated with a comprehensive approach including lip and palate repair, orthodontic treatment, and dental rehabilitation.

Introduction
Complete unilateral cleft lip and palate (CULP) is a congenital anomaly of the face. It is a complex condition that affects the lip, palate, and nose. The aim of this study was to report the morpho-functional and dental rehabilitation of a complete unilateral cleft lip and palate patient. The patient was treated with a comprehensive approach including lip and palate repair, orthodontic treatment, and dental rehabilitation.

Case Presentation
A 15-year-old female patient with a complete unilateral cleft lip and palate was referred to our institution for comprehensive morpho-functional and dental rehabilitation. The patient was treated with a comprehensive approach including lip and palate repair, orthodontic treatment, and dental rehabilitation. The patient was treated with a comprehensive approach including lip and palate repair, orthodontic treatment, and dental rehabilitation.

Conclusion
The aim of this study was to report the morpho-functional and dental rehabilitation of a complete unilateral cleft lip and palate patient. The patient was treated with a comprehensive approach including lip and palate repair, orthodontic treatment, and dental rehabilitation. The patient was treated with a comprehensive approach including lip and palate repair, orthodontic treatment, and dental rehabilitation.

Journal of Oral Biology and Craniofacial Research

Posterior cranial vault distraction osteogenesis: A systematic review

Sumeet Prandya*, Gokul S. Reddy*, Ashi Chugh*, Ashish Dutt*

Department of Plastic and Reconstructive Surgery, All India Institute of Medical Sciences, New Delhi, India; Department of Plastic and Reconstructive Surgery, All India Institute of Medical Sciences, New Delhi, India; Department of Plastic and Reconstructive Surgery, All India Institute of Medical Sciences, New Delhi, India; Department of Plastic and Reconstructive Surgery, All India Institute of Medical Sciences, New Delhi, India

Abstract
Posterior cranial vault distraction osteogenesis (PCVDO) has become the treatment of choice in several cases of congenital and acquired skull base defects. However, there is a lack of evidence regarding the procedure's safety and efficacy. This systematic review aims to evaluate the safety and efficacy of PCVDO. The aim of this study was to evaluate the safety and efficacy of PCVDO. The aim of this study was to evaluate the safety and efficacy of PCVDO.

Introduction
The greatest failure of a cleft palate reconstruction is growth of the skull premaxilla and the associated maxillary growth parallel to the palate. Thus, the lateral cleft lip remains uncorrected and underdeveloped. This is due to the fact that the maxilla is not supported by the palate. The maxilla is not supported by the palate. The maxilla is not supported by the palate.

Conclusion
The aim of this study was to evaluate the safety and efficacy of PCVDO. The aim of this study was to evaluate the safety and efficacy of PCVDO. The aim of this study was to evaluate the safety and efficacy of PCVDO.

Clinical relevance
The use of an antibiotic pack after cleft palate repair can be recommended in present scenario of increased antibiotic resistance.

Quantitative analysis of aesthetic outcomes of morphofunctional septorhinoplasty for secondary cleft lip nasal deformity

Ashish Fann*, Nels van Heerbeck*, Himaja Sar*, Tong X*, Stefan Berg*, Srinivas Gokul Reddy*

Department of Plastic and Reconstructive Surgery, All India Institute of Medical Sciences, New Delhi, India; Department of Plastic and Reconstructive Surgery, All India Institute of Medical Sciences, New Delhi, India; Department of Plastic and Reconstructive Surgery, All India Institute of Medical Sciences, New Delhi, India; Department of Plastic and Reconstructive Surgery, All India Institute of Medical Sciences, New Delhi, India

Abstract
The aim of this study was to assess nasal symmetry after morphofunctional septorhinoplasty, more specifically, symmetry of the nasal tip and nostrils, and nasal projection, in patients with unilateral and bilateral cleft lip and nose deformities. Nasal deformities were assessed using morphofunctional septorhinoplasty techniques in 119 patients with unilateral and bilateral cleft lip and nose deformities. Nasal changes were analyzed by measuring nasal tip projection, nasal height, nasal width, nasal base width, and nasal ala projection pre- and postoperatively in matched subnasotomies using 2-dimensional photographs. The unilateral cleft lip group shows statistically significant improvements (P<0.001) in rates of nasal height and width (P<0.001) and nasal tip and base width (P<0.001) and in nasal tip projection and nose base width (P<0.001) in the unilateral cleft lip group shows statistically significant improvements in nasal tip and base width (P<0.001), nasal tip projection, and nose base width. The morphofunctional septorhinoplasty technique improved aesthetic outcomes.

Introduction
A defined nose according to ideal lip and palate poses multiple morphological and functional issues such as nasal deviation, alteration of the columella, disproportionate nostril size, reduced nasal projection leading to a flat bridge, and many more, all of which may affect the physical and psychological well-being of the individual. Patients with bilateral cleft lip and nose deformities, and unilateral and bilateral cleft lip and nose deformities, are more likely to have a well-defined nose. Thus, cleft lip and nose deformities are more likely to have a well-defined nose. Thus, cleft lip and nose deformities are more likely to have a well-defined nose.

Conclusion
The aim of this study was to assess nasal symmetry after morphofunctional septorhinoplasty, more specifically, symmetry of the nasal tip and nostrils, and nasal projection, in patients with unilateral and bilateral cleft lip and nose deformities. Nasal deformities were assessed using morphofunctional septorhinoplasty techniques in 119 patients with unilateral and bilateral cleft lip and nose deformities. Nasal changes were analyzed by measuring nasal tip projection, nasal height, nasal width, nasal base width, and nasal ala projection pre- and postoperatively in matched subnasotomies using 2-dimensional photographs. The unilateral cleft lip group shows statistically significant improvements (P<0.001) in rates of nasal height and width (P<0.001) and nasal tip and base width (P<0.001) and in nasal tip projection and nose base width (P<0.001) in the unilateral cleft lip group shows statistically significant improvements in nasal tip and base width (P<0.001), nasal tip projection, and nose base width.

Clinical relevance
The use of an antibiotic pack after cleft palate repair can be recommended in present scenario of increased antibiotic resistance.

Keywords
Morphofunctional septorhinoplasty, Cleft lip and nose deformity, Nasal deformity, Ashish Fann, Nels van Heerbeck, Himaja Sar, Tong X, Stefan Berg, Srinivas Gokul Reddy

Introduction
A defined nose according to ideal lip and palate poses multiple morphological and functional issues such as nasal deviation, alteration of the columella, disproportionate nostril size, reduced nasal projection leading to a flat bridge, and many more, all of which may affect the physical and psychological well-being of the individual. Patients with bilateral cleft lip and nose deformities, and unilateral and bilateral cleft lip and nose deformities, are more likely to have a well-defined nose. Thus, cleft lip and nose deformities are more likely to have a well-defined nose.

Conclusion
The aim of this study was to assess nasal symmetry after morphofunctional septorhinoplasty, more specifically, symmetry of the nasal tip and nostrils, and nasal projection, in patients with unilateral and bilateral cleft lip and nose deformities. Nasal deformities were assessed using morphofunctional septorhinoplasty techniques in 119 patients with unilateral and bilateral cleft lip and nose deformities. Nasal changes were analyzed by measuring nasal tip projection, nasal height, nasal width, nasal base width, and nasal ala projection pre- and postoperatively in matched subnasotomies using 2-dimensional photographs. The unilateral cleft lip group shows statistically significant improvements (P<0.001) in rates of nasal height and width (P<0.001) and nasal tip and base width (P<0.001) and in nasal tip projection and nose base width (P<0.001) in the unilateral cleft lip group shows statistically significant improvements in nasal tip and base width (P<0.001), nasal tip projection, and nose base width.

Clinical relevance
The use of an antibiotic pack after cleft palate repair can be recommended in present scenario of increased antibiotic resistance.

Assessing Time Gap between Alveolar Cleft Repair and Dental Implant Placement: A Systematic Review

Rishabh Malhotra*, Swati Kalia Malhotra*, Shivanshu Gogia Reddy*, Ashish Jangra*

Department of Plastic and Reconstructive Surgery, All India Institute of Medical Sciences, New Delhi, India; Department of Plastic and Reconstructive Surgery, All India Institute of Medical Sciences, New Delhi, India; Department of Plastic and Reconstructive Surgery, All India Institute of Medical Sciences, New Delhi, India; Department of Plastic and Reconstructive Surgery, All India Institute of Medical Sciences, New Delhi, India

Abstract
Introduction: Orthodontic treatment is commonly undertaken in cleft patients for space closure in the maxilla. However, it is only after the closure of the maxilla that the dental implant placement is possible. The aim of this study was to assess the time gap between alveolar cleft repair and dental implant placement. The aim of this study was to assess the time gap between alveolar cleft repair and dental implant placement. The aim of this study was to assess the time gap between alveolar cleft repair and dental implant placement.

Conclusion
The aim of this study was to assess the time gap between alveolar cleft repair and dental implant placement. The aim of this study was to assess the time gap between alveolar cleft repair and dental implant placement. The aim of this study was to assess the time gap between alveolar cleft repair and dental implant placement.

Clinical relevance
The use of an antibiotic pack after cleft palate repair can be recommended in present scenario of increased antibiotic resistance.

Keywords
Alveolar cleft repair, Dental implant placement, Rishabh Malhotra, Swati Kalia Malhotra, Shivanshu Gogia Reddy, Ashish Jangra

Journal of Oral Biology and Craniofacial Research 13 (2021) 17–21

Contents lists available at ScienceDirect

Journal of Oral Biology and Craniofacial Research

ELSEVIER

Journal homepage: www.elsevier.com/locate/jocr

Research Paper

Effect of antibiotic pack on hard palate after fistula closure on nasal airflow and recurrence rate

Rajagopal R. Reddy^a, Srinivas Gosla Reddy^{b,c}, Aravi Pande^d, Bhavya Banala^e, Kavitha M. Boudhwar^f, Anam Mani Kiranprey-Appanna^g

^aCraniomaxillofacial Surgery, U.S. Hospital, Institute of Craniomaxillofacial and Facial Plastic Surgery, New Age Hospital, Hyderabad, India; ^bCraniomaxillofacial Surgery, U.S. Hospital, Institute of Craniomaxillofacial and Facial Plastic Surgery, New Age Hospital, Hyderabad, India; ^cCraniomaxillofacial Surgery, U.S. Hospital, Institute of Craniomaxillofacial and Facial Plastic Surgery, New Age Hospital, Hyderabad, India; ^dDepartment of Orthodontics, Institute of Dental Sciences, Bangalore, India; ^eDepartment of Orthodontics, Institute of Dental Sciences, Bangalore, India; ^fDepartment of Orthodontics, Institute of Dental Sciences, Bangalore, India; ^gDepartment of Orthodontics, Institute of Dental Sciences, Bangalore, India

ARTICLE INFO

ABSTRACT

Keywords:

Introduction:

1. Introduction

One of the aims of primary cleft palate repair techniques is to reduce nasal airflow, development to maintain level without affecting nasal growth. Nasal airway becomes 0.5 and 0.75% of patients after primary palatoplasty.¹ However, fistula formation after fistula repair occurs in 10% of patients.² Depending on site, nasolabial cleft location, recurrent fistula may pose a challenge both for the patient and the surgeon. Nasal air restriction, facial and head posture and resultant facial, dental, speech, distortion or orthognathic insufficiency, maxillofacial deformities, infection, nasal stenosis, hearing loss, affected hearing babies, secondary growth retardation are an examples of findings associated with fistula formation after fistula repair.³

There is recurrent fistula problem as open surgical and closed surgical techniques. There is an inherent risk in the area during the healing phase. Maxillofacial deformities from the surgery, though slight, but still challenge through the time lead to an effect on the environment of fistulas.

1. Introduction

has a correlation between the mouth and the nose because there is a contiguous cleft in the bony portion of the hard palate. When a cleft palate is repaired, only restricted closure is performed. Therefore, the passage of air through the nose when the palate heals, opens or clefts helps to prevent the air movement, which is normal (strong) response. This process and the resultant movement of the healing tissues could cause a mechanical breakdown.

Placing an oral pack made out of a folded piece of sterile gauze soaked in antibiotic ointment on the hard palate post operatively could address one aspect to the healing tissue caused by surgical incision, mechanical deformation or movement of palate. Closure during speech and breathing will be easier of primary healing. The aim of this randomized controlled trial was to investigate the benefit of antibiotic soaked oral pack on the hard palate after fistula repair relative to air occurrence and volume of air flow through the nose while breathing. This study also investigated if change in the volume of air through the nose had an effect on the environment of fistulas.

*** Corresponding author. Department of Craniomaxillofacial Surgery, ANS, Hyderabad, Institute of Craniomaxillofacial and Facial Plastic Surgery, 17-18 Old DS, Vengal Rao Nagar, Hyderabad, India.**

E-mail address: gosladr@uhs.com (S.G. Reddy).

Received 19 May 2021; Received in revised form 13 July 2021; Accepted 11 September 2021

Available online 10 September 2021

© 2021 Author(s). Published by Elsevier B.V. All rights reserved.

UNILATERAL COMPLETE CLEFT LIP REPAIR: A MODERN MORPHO-FUNCTIONAL SURGICAL APPROACH

The Effect of Primary Cheilo-Septoplasty with Afroze Incision based on the Morpho Functional Philosophy in the Repair of Complete Unilateral Cleft Lip Defects

Een wetenschappelijke proeve op het gebied van de Medische Wetenschappen

PROEFSCHRIFT

ter verkrijging van de graad van doctor aan de Radboud Universiteit Nijmegen op gezag van de Rector Magnificus prof. mr. S.C.J.J. Kortmann, volgens besluit van het college van decanen

In het openbaar te verdedigen op woensdag 17 november 2010

om 13.30 uur precies

door

Srinivas Gosla Reddy geboren op 21 Juni 1969 te Nellore, Andhra Pradesh, India



Downloaded from www.elsevier.com/locate/jocr on Tuesday, April 11, 2022, at 07:28:28 UTC

Editorial

The road ahead

The journey of this journal began, when the ISCP & CA decided to create a platform for the specialists treating clefts in India, to augment and share their knowledge and experience with the rest of the community. Clinical research from our country and most of the developing world sometimes does not get full consideration in international journals. This might be because of the differences in reporting among and the variations in our communities, their attitudes, their social makeup, language, etc. The aim of this Journal is to provide a level field for researchers, as well as to serve as a unified repository of knowledge and to be part of the world. It is indeed a great privilege for me to be entrusted with the responsibility of taking this journal forward. At the onset, I would like to applaud the great work put in by Dr. Kanoo Agrawal, Dr. Kishanmurti Boudhwar, the previous editors and editorial board, reviewers, and contributors in the past.

As the incoming Editor-in-Chief, I intend to continue and reintegrate the multi-disciplinary approach initiated by the previous editorial board. Clefts are complex conditions having a wide range of associated problems that affect not only the patients but also everyone around in a myriad ways. Hence, there is a necessity for varied medical specialties to be involved in facing these challenges. The multidisciplinary team consists of surgeon, pediatrician, various dental specialties, speech pathologist, and psychologist. The number of specialties involved in the treatment of clefts has been growing as we uncover new facets of problems associated with oro-craniofacial clefts.

Our focus will be centered on involving more researchers from various specialties so that this publication becomes a truly unified platform for new knowledge, contributing quality research dealing with the entire gamut of clefts and associated problems. Currently, most of these specialists prefer to publish their work in their own specialty publications. I think the time is right to change this trend by spreading awareness and diversifying contributions and involving, thereby making our Journal truly representative of the multi-disciplinary team approach to cleft treatment and not just cleft surgery.

Although the primary aim of this journal is to compile, disseminate, and hence improve the medical knowledge, we can still benefit greatly from established protocols, new advances, and experiences from around the world. To this end, from time to time, we will fall back on eminent, experienced practitioners to give us an invited review in the form of "State of the Art." In this section, the invited author will deal with different aspects of cleft and craniofacial anomalies, from history to innovations in future trends. We will try to bring to our community all the new ideas and innovations in the surgical as well as allied aspects of the treatment of patients suffering from cleft and other craniofacial anomalies, happening all around the world.

We are also looking into the possibility and feasibility of categorizing such publications regarding the value it adds to the existing body of knowledge, by classifying it according to the levels of scientific evidence presented.

For our readers to be assured, we will need the support of the entire community of cleft practitioners, including all the specialists dealing with the prosthetic, surgical, as well as post-surgical management of patients with such anomalies. I look forward to this support from everyone in the form of authentic contribution, as well as in-depth debate and discussion on a bi-topic, so that we are able to achieve highest levels of academic and clinical excellence.

Srinivas Gosla Reddy
Director, Craniomaxillofacial and Facial Plastic Surgery, Hyderabad, Telangana, India
Address for correspondence: Srinivas Gosla Reddy, Craniomaxillofacial and Facial Plastic Surgery, U.S. Hospital, Vengal Rao Nagar, Old DS, Vengal Rao Nagar, Hyderabad - 500 076, Telangana, India. E-mail: gosladr@uhs.com

This is an open access journal, and articles are distributed under the terms of the Creative Commons Attribution-NonCommercial-ShareAlike 4.0 License, which allows others to copy, reuse, and build upon the work non-commercially, as long as appropriate credit is given and the new creation is licensed under the same license.

Article history: Received 10 July 2021; Accepted 10 July 2021

© 2021 Journal of Craniomaxillofacial and Facial Plastic Surgery. Published by Elsevier B.V. All rights reserved.

Unilateral Complete Cleft Palate Repair: A Morpho-functional Approach

Doctoral Thesis

to obtain the degree of doctor from Radboud University Nijmegen on authority of the rector magnificus, prof. dr. J.H.J.M. van Krieken according to the decision of the Council of Deans to be defended in public on Friday, 16 November 2018 at 12:30 hours

by

Rajagopal R. Reddy born on 11 November 1971 in Hyderabad, India

ARTICLE IN PRESS

Journal of Craniomaxillofacial Surgery

Contents lists available at ScienceDirect

Journal of Craniomaxillofacial Surgery

ELSEVIER

Journal homepage: www.elsevier.com/locate/jocr

Systematic review of "filling" procedures for lip augmentation regarding types of material, outcomes and complications

Juan San Miguel Maragat^a, Rajagopal R. Reddy^b, Federico Hernandez Miras^c, Maurice Y. Momtaz^d

^aUniversity of Valencia, University Hospital, Valencia, Spain; ^bUniversity of Valencia, University Hospital, Valencia, Spain; ^cUniversity of Valencia, University Hospital, Valencia, Spain; ^dUniversity of Valencia, University Hospital, Valencia, Spain

ARTICLE INFO

ABSTRACT

Keywords:

Introduction:

1. Introduction

has been established, the best aesthetic result has also been agreed upon. The search provided "steady" and "relaxation" are considered used to define the ideal result of a lip augmentation procedure. Eventually, this is accomplished by using the lip's own or a simple material. Report of untreated lip augmentation decreases much faster than used, but some clearly disagree on the use. The appearance caused by lip augmentation temporarily refers to the material used for lip augmentation and not to the lip itself. Hence, natural lips are not applying if the upper incision are collapsed behind the lip while speaking or laughing, or after lip movement are affected, or there are unstable results, or the natural response is not fully achieved.

The attractiveness of the lip generally parallels the attractiveness of the mouth visible when speaking or smiling, and studies typically evaluate the smile with the position of the upper lip.

*** Corresponding author. Hospital Real Carlos III, Instituto Delsolano Madrid, Calle de Arzobispo Morcillo, 16, 28042 Madrid, Spain. Tel.: 0034 91 26031000.**

E-mail address: jsmir@ccr.csic.es (J.S. Miguel Maragat).

© 2021 European Association for Craniomaxillofacial Surgery. Published by Elsevier Ltd. All rights reserved.

67

Case Report

A Rare Case of Solitary Palatal Myofibroma in a Young Pediatric Patient

Abstract
 Myofibroma (MF) is a benign spindle cell neoplasm rarely found in the oral cavity. It is common in males than females (2:1) and mostly seen to develop before 2 years of age with few cases reported in adults. This article reports a rare case of solitary MF of the hard palate in an 8-year-old female child; highlighting the clinical features, histopathology, differential diagnosis while emphasizing the importance of immunohistochemistry in establishing an accurate diagnosis and management of the same. The objective should be to differentiate benign versus malignant spindle cell lesions of smooth muscle, nerve tissue, fibrocytic, and histiocytic origin. Rapid growth of the lesion often raises suspicion of malignancy and may lead to misdiagnosis and inappropriate management.

Keywords: Solitary spindle cell tumor, hard palate, immunohistochemistry, myofibroma, pediatric dentistry, pediatric oral pathology

**Tulika Wakhloo,
 Gosla Reddy,
 Ashi Chug,
 Arvind Kumar¹**
Department of Dentistry and Pathology and Laboratory Medicine, All India Institute of Medical Sciences (AIIMS), Bhubaneswar, Odisha, India

Copyright © 2024, Craniofacial Institute of India. All rights reserved. This is an open access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

68

Journal of Contemporary Orthodontics

Content Available at: <http://www.jcoo.in/index.html>

Journal homepage: <http://www.jcoo.in/>

Review Article

Failure rate of infra-zygomatic crest (IZC) bone screws in orthodontics: A Systematic review

Hemwati Nandan¹*, Srinivas Gosla Reddy¹, Ashi Chug², Ashutosh Dixit², Prajyoti Jhu¹

¹ICR Institute of Craniofacial Surgery, Karamnaka, Hyderabad, India
²AIIMS India Institute of Medical Sciences, Bhubaneswar, India

ARTICLE INFO

ABSTRACT

Article history:
 Received 29 10 2023

Objective: The aim of this review is to provide a precise estimation of infra-zygomatic crest (IZC) bone screw failure rate during orthodontic treatment.

69

TOP 10 • Volume 60, Issue 10, 135, December 2024

EP039 The Hyderabad index to measure success of primary cleft lip repair

Victoria Vincent • Victoria Vincent • Srinivas Gosla Reddy • Anthony Markus

Affiliations & Notes • Article Info

DOI: [10.1016/j.bjoms.2024.10.036](https://doi.org/10.1016/j.bjoms.2024.10.036) • Also available on ScienceDirect

Get Access • Cite • Share • Set Alert • Get Rights • Reprints

← Previous article • Next article →

Article metrics
 Metric data currently unavailable

Show Outline

An approved and validated scoring system to assess post-operative primary cleft lip repair has long been awaited. Disfigurement is often the primary concern for patients and their families. Therefore, developing a universally accepted scoring system may be of benefit. The aim of this paper is to determine any disadvantages of previous systems to develop a new scoring formula.

70

Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology

ELSEVIER

Volume 37, Issue 1, January 2015, Pages 21-30

Review article

Comparison of Lefort-1 advancement by internal and external distraction osteogenesis in non-syndromic cleft lip and palate: A systematic review and meta-analysis

Sameer Pandey^a, Ashi Chug^a, Srinivas Gosla Reddy^{a, b}, Sourabh S. Simre^{c, d}





Case Report

Breaking through mandibular barrier: A case report on orthodontic repositioning of an impacted tooth

Hemwati Nandan^{1*}, Srinivas Gosla Reddy¹, Pragjyoti Jhu¹

¹GSR Institute of Craniofacial and Facial Plastic Surgery, Hyderabad, Telangana, India



ARTICLE INFO

ABSTRACT

Article history:

Received 28-04-2024

Accepted 21-03-2024

Available online 21-05-2024

Tooth impaction is known to cause various problems such as space loss, tipping of adjacent teeth, super-eruption of the antagonist teeth, and displacement of the permanent teeth beneath the impacted primary tooth. In this case report, we present the treatment of a 14-year-old female patient who presented with a chief complaint of missing teeth in the lower left back jaw region. OPG finding reveal the coronial

72

71



AIMS Molecular Science, 11(4): 322-329,
DOI: 10.3934/molsci.2024019
Received: 14 May 2024
Revised: 17 August 2024
Accepted: 29 August 2024
Published: 12 September 2024

<http://www.aimsos.com/journal/Molecular>

Research article

Genetic influences on non-syndromic cleft lip palate: The impact of *BMP4*, *RUNX2*, *PAX7*, and *TGFβ3* allelic variations

Praveen Kumar Neda¹, Rajeshwari B.V.², Mahamad I-fanulla Khan^{1,4}, Shalitha Parveen Basund⁴, Cosla Srinivas Reddy⁵, Akhter Husain⁴ and Vazeeli Mohan⁷

ABSTRACT ONLY · Volume 62, Issue 10, E13-E16, December 2024

EPo40 Comparing the socio-economic and emotional implications of distraction osteogenesis versus orthognathic surgery in a developing country for cleft patients

Victoria Vincent · Victoria Vincent · Srinivas Gosla Reddy · Anthony Markus

Affiliations & Notes Article Info

DOI: [10.1016/j.bjoms.2024.10.037](https://doi.org/10.1016/j.bjoms.2024.10.037) Also available on ScienceDirect »

Get Access Cite Share Set Alert Get Rights Reprints

Previous article Next article

Hypoplastic maxilla can be addressed through distraction osteogenesis (DO) or orthognathic surgery (OS), with DO preferred for severe deformity due to increased stability of long-term outcomes. This study aims to compare the economic and emotional implications of DO versus OS at an Indian institute.

Article metrics

Metric data currently unavailable

73



Review > J Maxillofac Oral Surg. 2023 Dec;22(4):770-780.

doi: 10.1007/s12663-023-02057-5. Epub 2023 Nov 24.

Ocular Hypertelorism: Principles and Management

Srinivas Gosla Reddy ¹, Aditya Bansal ², Hermann F Sailer ³, Likith V Reddy ⁴, Ghali E Ghali ⁵, Varsha Haridas Upadya ⁶

Affiliations + expand

PMID: 38105836 PMID: PMC10719204 (available on 2024-12-01)

DOI: 10.1007/s12663-023-02057-5

Abstract

Background: Ocular hypertelorism (OH) was initially considered as un-differentiated congenital cranio-facial deformity, however, I.T Jackson mentioned it as teleorbitism, considering it as increase in the inter-canthal width, inter-pupillary as well as inter-orbital distance as a result of lateralization of the orbital complex in total. Furthermore, Sailer further refined it and included the distance from the lateral orbital wall, i.e. he denoted increased inter-orbital distance along with the distance between lateral orbital walls as true hypertelorism. This condition is rare and is seen in association with midline congenital defects affecting the cranio-facial region.

> Cureus. 2023 Feb 22;15(2):e35288. doi: 10.7759/cureus.35288. eCollection 2023 Feb.

Comparison of Maxillary Canine Retraction Using Split-Mouth Design With Dual Force Cuspid Retractor and T-loop Segmental Arch: A Split-Mouth Randomized Clinical Trial

Hemwati Nandan ¹, Ch Sudheer Kumar ², Pragiyoti Jha ¹

Affiliations + expand

PMID: 36968913 PMID: PMC10037229 DOI: 10.7759/cureus.35288

Free PMC article

Abstract

Introduction This study was designed to explore the differences between two frictionless mechanics for canine retraction i.e., dual force cuspid retractor and T-loop segmental arch. T-loop for canine retraction creates a biomechanical system to deliver a predetermined force and a relatively constant moment-to-force ratio whereas dual force cuspid retractor uses power arms on

Case Report

A Rare Case of Solitary Palatal Myofibroma in a Young Pediatric Patient

Abstract

Myofibroma (MF) is a benign spindle cell neoplasm rarely found in the oral cavity. It is common in males than females (2:1) and mostly seen to develop before 2 years of age with few cases reported in adults. This article reports a rare case of solitary MF of the hard palate in an 8-year-old female child; highlighting the clinical features, histopathology, differential diagnosis while emphasizing the importance of immunohistochemistry in establishing an accurate diagnosis and management of the same. The objective should be to differentiate benign versus malignant spindle cell lesions of smooth muscle, nerve tissue, fibrocytic, and histiocytic origin. Rapid growth of the lesion often raises suspicion of malignancy and may lead to misdiagnosis and inappropriate management.

Keywords: Benign spindle cell tumor, hard palate, immunohistochemistry, myofibroma, pediatric dentistry, pediatric oral pathology

Tulika Wakhloo,
Gosla Reddy,
Ashi Chug,
Arvind Kumar¹

Departments of Dentistry and
¹Pathology and Laboratory
Medicine, All India Institute
of Medical Sciences (AIIMS),
Rishikesh, Uttarakhand, India



Journal of Cranio-Maxillofacial Surgery

Volume 50, Issue 12, December 2022, Pages 894-909



Review

Nasal symmetry after different techniques of primary lip repair for unilateral complete cleft lip with or without cleft of the alveolus and palate: A systematic review

Aditya Bansal^a , Srinivas Gosla Reddy^b , Ashi Chug^c , Anthony F. Markus^d ,



78

Smartphone and AI Workflow for 3D Printed Plate for Presurgical Therapy in Cleft Lip and Palate: Retrospective Evaluation of Outcomes

Prasad Nalabothu ^{1 2 3 4}, Hemwati Nandan ⁵, Srinivas Gosla Reddy ⁵, Andreas A Mueller ^{1 3 4 6}

Affiliations + expand

PMID: 41313319 DOI: 10.1177/10556656251400877

79

Indiacran: An Inter-Center Study of Nasolabial Esthetics Outcomes in Patients With Repaired Complete Unilateral Cleft Lip and Palate

Puneet Batra ¹, Garima Arora ², Abhinav Raj Gupta ³, Abhishek Bhamre ⁴, Amit Agarwal ⁵, Asif Masood ⁶, Hemwati Nandan ⁷, Himanshu Trivedi ⁵, Isha Jain ⁶, Jaideep Singh Chauhan ⁸, Kamlesh Singh ⁵, Krishnamurthy Bonanthaya ⁹, Nitin Bhola ¹⁰, Pallavi Daigwane ¹⁰, Pritham N Shetty ¹¹, Ravi Kumar Mahajan ⁴, Samiksha Chopra ⁴, Shibani Das ¹², Shruti Bijapur ⁹, Srinivas Gosla Reddy ⁷, Subodh Kumar Singh ³, Sukhdeep Singh Kahlon ⁴, S C Sood ¹³, Suryakant Das ¹⁴, Tarun Chaudhary ⁴, Virag Bhatia ¹⁵

Affiliations + expand

PMID: 40589126 DOI: 10.1177/10556656251352604

80

Technical insights on adjustable velar extension and safety mechanism in Tübingen palatal plate for Pierre Robin sequence

Hemwati Nandan ¹, Bert Braumann ², Teresa Kruse ³, Michael Wolf ⁴, Pragjyoti Jha ¹, Srinivas Gosla Reddy ¹, Prasad Nalabothu ^{5 6}

Affiliations + expand

PMID: 39897435 PMCID: PMC11782590 DOI: 10.1016/j.jobcr.2024.12.021

81

OPEN



IDEAS AND INNOVATIONS

Craniofacial

Smartphone Scanning and Machine Learning for Automated Presurgical 3D-printed Plate Fabrication From Cleft Impressions

Prasad Nalabothu, MDS, PhD.



Indiacran: An Inter-Center Assessment of Dental Arch Relationship for Patients with Repaired Complete Unilateral Cleft Lip and Palate

Puneet Batra¹, Garima Arora¹, Abhinav Raj Gupta², Abhishek Bhamre³, Amit Agarwal⁴, Asif Masood⁵, Hemwati Nandan⁶, Himanshu Trivedi⁴, Isha Jain⁵, Jaideep Singh Chauhan⁷, Kamlesh Singh⁴, Krishnamurthy Bonanthaya⁸, Nitin Bhola⁹, Pallavi Daigwane⁹, Pritham N Shetty¹⁰, Ravi Kumar Mahajan³, Samiksha Chopra³, Shibani Das¹¹, Shruti Bijapur⁸, Srinivas Gosla Reddy⁶, Subodh Kumar Singh², Sukhdeep Singh Kahlon³, S C Sood¹², Suryakant Das¹³, Tarun Chaudhary³, Virag Bhatia⁷

Affiliations: [Expand](#)

Influence of Premaxillary Position on Oral Trauma in Early Childhood: A 10-Year Study of Cleft Lip and Palate Patients

Hemwati Nandan¹ | Prasad Nalabothu^{2,3,4} | Pragjyoti Jha¹ | Srinivas Gosla Reddy⁴ | Anand Marya⁵

¹GSR Institute of Cranio-Maxillofacial and Facial Plastic Surgery, Hyderabad, Telangana, India | ²Department of Oral and Craniomaxillofacial Surgery, University Hospital Basel, Basel, Switzerland | ³Department of Pediatrics Oral Health and Orthodontics, University Center for Dental Medicine UZB, Basel, Switzerland | ⁴Facial and Cranial Anomalies Group, University of Basel, Basel, Switzerland | ⁵Department of Orthodontics, Faculty of Dentistry, University of Puthisastra, Phnom Penh, Cambodia

Correspondence: Prasad Nalabothu (prasad.nalabothu@unibas.ch) | Anand Marya (amarya@puthisastra.edu.kh)

Received: 30 April 2025 | Revised: 13 October 2025 | Accepted: 15 October 2025

Funding: The authors received no specific funding for this work.

Keywords: bilateral cleft lip and palate | cleft lip and palate | pediatric facial trauma | premaxillary position | trauma risk scoring

Demographic and clinical profiles of familial cleft lip and palate: A comprehensive analysis from a high-volume cleft center in Telangana, India

Kumar, M Praveen¹; James, Jessie¹; Reddy, Srinivas Gosla²; Mohan, Vasavi³; Neela, Praveen Kumar⁴; Krishnan, Nainika²; Khan, Fatema Ali³

Author Information 

Journal of Cleft Lip Palate and Craniofacial Anomalies 12(2):p 53-58, Jul-Dec 2025. | DOI: 10.4103/jclpca.jclpca_1_25 

Cancer Burden, Mortality, and Survivorship Care in India

MINI REVIEW | Published: 28 May 2025

(2025) [Cite this article](#)

[Arshad Ayub](#), [Aditya Bansal](#) , [Srinivas Gosla Reddy](#) & [Saurabh Varshney](#)



Intraosseous Hemangioma Mandible: Management and Potential Pitfalls of a Rare Entity

CASE REPORT | Published: 10 June 2025

(2025) [Cite this article](#)

Adity Bansal , Urmila Irom, Sommya Kumari & Srinivas Gosla Reddy

Evaluating the impact of Matrilin-1 gene polymorphisms on mandibular prognathism: A meta-analysis

Pooja Kurmi ¹, Prasad Nalabothu ², Shubhasmita Sahoo ¹, Henu Kumar Verma ³, Srinivas Gosla Reddy ⁴, L V K S Bhaskar ¹

Affiliations [+](#) expand

PMID: 40291793 PMCID: [PMC12023889](#) DOI: [10.1016/j.jobocr.2025.03.019](#)

GSR Institute of Craniomaxillofacial and Facial Plastic Surgery, Hyderabad, Telangana

Chapter | First Online: 04 February 2025

pp 95–102 | [Cite this chapter](#)

[Badri Thiruvengkatachari](#), [Srinivas Gosla Reddy](#), [Rajgopal R. Reddy](#) & [Avni Pande](#)

Journal of Cranio-Maxillo-Facial Surgery 54 (2026) 104516



Contents lists available at ScienceDirect

Journal of Cranio-Maxillo-Facial Surgery

journal homepage: www.jcmfs.com



Facial-palate correlation in unilateral cleft lip and palate: A data-driven 3D analysis

Prasad Nalabothu ^{a,b,c,1,*}, Tobias Thomas ^{a,b,1}, Praveen Ganesh ^d, José W.M. Santos ^{a,b,e}, Hemwati Nandan ^f, Carlo Dieterle ^{a,b}, Surya Rao Rao ^d, Steven Cook ^{a,b,g}, Gosla Srinivas Reddy ^f, Andreas A. Mueller ^{a,b,g}

^a Oral and Craniomaxillofacial Surgery, University Hospital Basel, Basel, Switzerland

^b Facial and Cranial Anomalies Research Group, Department of Biomedical Engineering and Department of Clinical Research, University of Basel, Basel, Switzerland

^c Department of Pediatrics Oral Health and Orthodontics, University Center for Dental Medicine UZB, Basel, Mattenstrasse 40, Basel, 4058, Switzerland

^d Department of Plastic, Reconstructive & Craniofacial Surgery, Saveetha Medical College and Hospital, Saveetha Institute of Medical and Technical Sciences, Saveetha University, Thandalam, Tamil Nadu, India

^e Department of Oral and Maxillofacial Surgery and Maxillofacial Prosthodontics, School of Dentistry, Federal University of Pelotas, Pelotas, Rio Grande do Sul, Brazil

^f GSR Institute of Cranio-Maxillofacial and Facial Plastic Surgery, Hyderabad, Telangana, India

^g Pediatric Oral and Craniomaxillofacial Surgery, University Children's Hospital Basel, Basel, Switzerland



Gender-Specific Patterns in Nonsyndromic Cleft Lip and/or Palate: A 4-Year Retrospective Study from Telangana, India.

NA

DOI: 10.7759/cureus.

Praveen Kumar M ¹, Kumar Satish Ravi ², Srinivas Reddy Gosla ³, Vasavi Mohan ⁴, Praveen Kumar Neela ⁵, Nainika Krishnan ⁶, Fatema Ali Khan ⁴

1. Anatomy, National Institute of Medical Sciences and Research, Jaipur, NIMS UNIVERSITY RAJASTHAN, JAIPUR, IND 2. Anatomy, Professor & Head and Vice Principal, Anatomy, National Institute of Medical Sciences and Research, Jaipur, NIMS UNIVERSITY RAJASTHAN, JAIPUR, IND, Jaipur, IND 3. Oral and Maxillofacial Surgery, GSR Institute of Craniomaxillofacial and Facial Plastic Surgery, Hyderabad, IND 4. Genetics, Department of Genetics and Molecular Medicine, Vasavi Medical and Research Centre, Hyderabad, IND 5. Orthodontics and Dentofacial Orthopaedics, Kamini Institute of Dental Sciences, Marketpally, IND 6. Maxillofacial Surgery, GSR Institute of Craniomaxillofacial and Facial Plastic Surgery, Hyderabad, IND

Applications of magnetic resonance imaging in dentistry and material compatibility: an update

Padmanidhi Agarwal et al. Gen Dent. 2026 May-Jun.

> Cureus. 2026 Mar 29;18(3):e106049. doi: 10.7759/cureus.106049. eCollection 2026 Mar.

Allelic and Genotypic Distribution of rs1801133 in the Methylene Tetrahydrofolate Reductase (MTHFR) Gene Among Family Trios Affected by Nonsyndromic Cleft Lip and Palate

Praveen Kumar M ¹, Kumar Satish Ravi ¹, Srinivas Reddy Gosla ², Vasavi Mohan ³, Praveen Kumar Neela ⁴, Nainika Krishnan ², Fatema Ali Khan ³

Affiliations + expand

PMID: 42058361 PMCID: PMC13122404 DOI: 10.7759/cureus.106049

TOTAL PUBLICATIONS FROM 2008 TILL DATE: 91

Metric	All Time	Since 2021
Citations	1,718	954
h-index	23	16
i10-index	46	32



CONTRIBUTIONS TO THE CHAPTERS

De Novo Practice of Oral and Maxillofacial Surgery **43**

Srinivas Gosla Reddy and Anvi Pandey Acharya

43.1 Introduction

The exhilarating and exciting emotion of starting your own practice can also be a daunting experience to a freshly passed oral maxillofacial surgeon. Decision to start your own practice can be a choice of your own volition or may also play a significant role in determining your ability to take on any additional financial and strong academic knowledge cannot be traded for the financial gains obtained by prematurely starting your own practice. There is a theory advanced to persons additional years of experience in the form of a fellowship, residency or diploma in oral maxillofacial surgery. Decision to start your own practice should be made after consulting with your mentors and establishing a niche practice where they specialize in a particular domain of oral and maxillofacial surgery, which eventually helps in improved surgical results and credibility for your institution. This kind of surgical practice will also help to create a niche practice where they specialize in a particular domain of oral and maxillofacial surgery, which eventually helps in improved surgical results and credibility for your institution.

43.2 Professional Skill and Learning

For the freshly passed oral maxillofacial surgeon, the option of acquiring financial stability always appears alluring. However, it is a well-known fact that unaided surgical skills do not guarantee financial stability. It is a well-known fact that unaided surgical skills do not guarantee financial stability.

Rare Facial Clefts **77**

Srinivas Gosla Reddy and Anvi Pandey Acharya

77.1 Introduction

Since ages, congenital deformities were considered evil and avoided, and infrequently were described in this literature. From Yperon (1200–1351) valued the congenital origin of the clefts. He additionally described the different types of clefts and set out the standards for their treatment. Fabricius ab Aquapendente (1575–1636) and William Hall of college of Leiping independently reviewed and published embryological processes of clefts [1].

Larcker was the first to separate between common cleft lip or harelip and clefts of the cheek. Further qualifications regarding the degree of the cleft. Despite the prevailing consensus regarding the origin of clefts, the decision to practice clefts, namely to continue training, everyone will eventually contribute to the OMFS field with their skills and knowledge.

Larcker [2] made an original attempt to tackle this problem by dividing the degree of oral and maxillofacial surgery into three categories: those of expertise and competence, those to be addressed to an oral and maxillofacial surgeon, and those to be handled by the general surgeon.

77.2 Incidence

Cleft lip and palate are the most common congenital anomalies of the face and head. The incidence of cleft lip and palate varies from 1 in 1000 to 1 in 3500 live births.

Orthognathic Surgery in Cleft Patients **77**

9/18/19 12:35:02 AM

Prof. Dr. R. Srinivas Gosla Reddy
MBBS, MDS, FRCS (Edin.), FDSRCS (Eng.), FDSRCPs (Glasgow), PhD

Dr. Ishan Singh
BDS, MDS

Chapter outline

Introduction
The cleft maxilla and midface - How is it different?
The need for treatment
Presurgical planning and technical considerations
The Corrective Surgery - Variations and techniques
The surgical technique
Postoperative Implications

Introduction

It is estimated that around 25 percent of patients with unilateral facial clefts have a class II malocclusion and midface deficiency requiring surgical intervention.^{1,2} Historically the treatment used to be confined to a mandibular setback that acted more like a camouflage rather than treating the underlying skeletal problem. With the availability of newer surgical technology and a better understanding of surgical anatomy, perfusion and revascularization of the midface, holistic treatment of the skeletal deformity of the midface is possible.

The cleft maxilla and midface - How is it different?

Cleft deformity often presents with midface deficiency, which remains one of the most obvious growth disturbances seen in such patients. The midface hypoplasia is almost always a direct consequence of multiple surgical interventions done as part of the staged repair of cleft lip and palate. The alveolar repair of the cleft maxilla, usually taken up during the mixed dentition period, often before the eruption of canine, further adds to the

6th Edition

Textbook of Oral and Maxillofacial Surgery

Neelima Anil Malik
Foreword Suresh Bhosale

38 **Cleft Lip and Cleft Palate Management**

Introduction

The dictionary meaning of cleft is a crack, fissure, split or a gap.

The orofacial clefts are congenital deformities, which manifest at birth. Any disturbance during the embryological formation and development and growth of orofacial region will result in the formation of orofacial clefts.

Orofacial clefts are the most frequently occurring craniofacial birth defects.

The zones affected by common orofacial clefts are as follows:

1. Upper lip
2. Alveolar ridge
3. Hard palate
4. Soft palate
5. Nose (not as common)
6. Eyes (not so common)

The first terminology *Lipovelioid*—hardly in evidence in India (around 130,000 AD).

The commonly accepted terms now used are cleft lip, cleft palate or cleft lip and palate. It is very distressing for the parents, once the child is born with this deformity. The psychological and socioeconomic implications of these congenital deformities can be severe and their management becomes a major issue for health care system. Facial clefts, speech, aesthetic concerns, dental treatment and dental occlusion, of dental care can be impacted because of orofacial clefts (Fig. 38.1).

The management of these deformities is challenging and require multidisciplinary approach, complex

long-term treatment plan and a rehabilitation program designed for the individual case. The goals and objectives of the writer treatment plan are aimed at the following:

1. Improved overall appearance
2. Improved overall function
3. Improved aesthetics
4. Better social acceptance and social integration.

Incidence

Non-statistical figures in regard to incidence of cleft lip and palate in India (in a tribal) are available. Some International figures are as follows:

Fogh-Anderson (1962, Denmark) cited 1:665 as the frequency.

R.H. Fry (1963) from the state of Pennsylvania, USA, quoted the incidence of cleft occurrence to be 1:26,000.

Goldfield (1959) found the incidence to be 1:4000 UK population.

In India the survey conducted by Christian Medical College, Vellore reported the incidence of cleft lip and palate in the regional population as 1:4000.

Hence the overall incidence stands out to be 1:7000 in live human births.

Fogh-Anderson (1960) from Denmark, while reporting the overall incidence of 1:665 gave the detailed statistics—prevalence of proboscis clefts in males 0.05% then females 0.05% and a higher frequency of occurrence of proboscis clefts in females (0.06%) than males (0.05%). Males are more affected by orofacial clefts, that results by a ratio of 2:1. Cleft lip incidence is more common in males, whereas cleft palate are 545

ATLAS OF ORAL & MAXILLOFACIAL SURGERY **DEEPAK KADEMANI & PAUL TIWANA**

ORAL & MAXILLOFACIAL SURGERY

DEEPAK KADEMANI & PAUL TIWANA

ORAL & MAXILLOFACIAL SURGERY

DEEPAK KADEMANI & PAUL TIWANA

Orbital Box Osteotomy
Likhi Reddy and Srinivas Gosla

Amamentarium

- #15 and #10 scalpel blades and handle
- 24 Gauge wire
- Agarwal's instrument
- Biplanar saw
- Blue retractor
- Cortic, Piret, and #9 preosteal vibrator
- Curved Mayo or curved tenotomy scissor
- Five side-cutting forceps, 1,2 mm
- Hair clipper and hair clippers
- Local anesthetic with vasoconstrictor
- Malleable retractors
- Mayfield headrest
- Midline stannum fixation devices
- Needle electrocautery
- Obwegener retractor
- Realigning saw
- Small retractor
- Smith spreaders
- Traier instrument

History of the Procedure

The orbital box osteotomy was used to correct vertical or horizontal malposition of the entire orbit and its contents. The orbit box osteotomy was first performed by Paul Treacher to correct hypermetropia. He described osteotomy that separate the entire brow orbit from the skull and intruding facial bone by combining both intracranial and facial approaches.¹ Cozzone and Smith described subnasal L-shaped orbital osteotomy to correct hypermetropia; however, these techniques produced limited results.² Schmidt described craniofrontal orbital osteotomy to mobilize and translocate the orbit medially by an extracranial approach to patients with pseudotumor frontal tissue.³

Indications for the Use of the Procedure

The orbital box osteotomy is used to correct malposition of the eyeballs, orbit, and its contents in all planes.⁴ It is primarily indicated in cases of hypermetropia.⁵ However, the box osteotomy can be used to correct vertical or horizontal deviations due to congenital, pathologic, or traumatic abnormalities.⁶

Orbital hypermetropia is an abnormally increased distance between the orbits. In this condition, the distance between the medial canthi, nasal, and lateral walls of the orbits and the pupils is greater than normal. This is different from telecanthia, where the distance between the medial canthi is greater than normal and the distance between lateral walls of the orbits and pupils is normal (Figures 47-3).

CHAPTER 47

Complications in Cranio-Maxillofacial and Oral Surgery

Robert Gassner
Editor

Springer

Complications in Cleft Lip and Palate Surgeries

Chapter | First Online: 01 August 2020
pp 3–32 | [Cite this chapter](#)

[Save chapter](#)

[919](#) Accesses [1](#) Citation

Srinivas Gosla Reddy [✉](#) & **Ashish Fannan**

Abstract

Cleft lip and palate is a multifactorial and three-dimensional anomaly involving hard and soft tissues of the face. The comprehensive treatment of cleft lip and palate deformities requires a thorough consideration of the complexities of the anatomical deformity and a balance between intervention and growth. Complications can occur in the management of the cleft patients due to lack of understanding of surgical principles and improper techniques. Poor outcomes were the result of nonexistent protocol, fragmented care, and lack of periodic assessment. Many of the developed countries of the world have a well-structured and organized cleft team practice. However, the situation in most of the developing countries is quite different, where they lack properly trained medical personnel which hinder a high quality team approach delivery to the orofacial cleft patients. The resource-poor nations are managed through surgical outreach programs funded by various philanthropic organizations around the world. This chapter consists of a detailed classification of complications in cleft lip and palate surgeries and its comprehensive multidisciplinary management.

TOTAL CHAPTERS: 6

FELLOWS

National : 47 fellows over last 15 years

International : More than 480 over last 15 years

More than 1000 post graduate trained in last 15 years

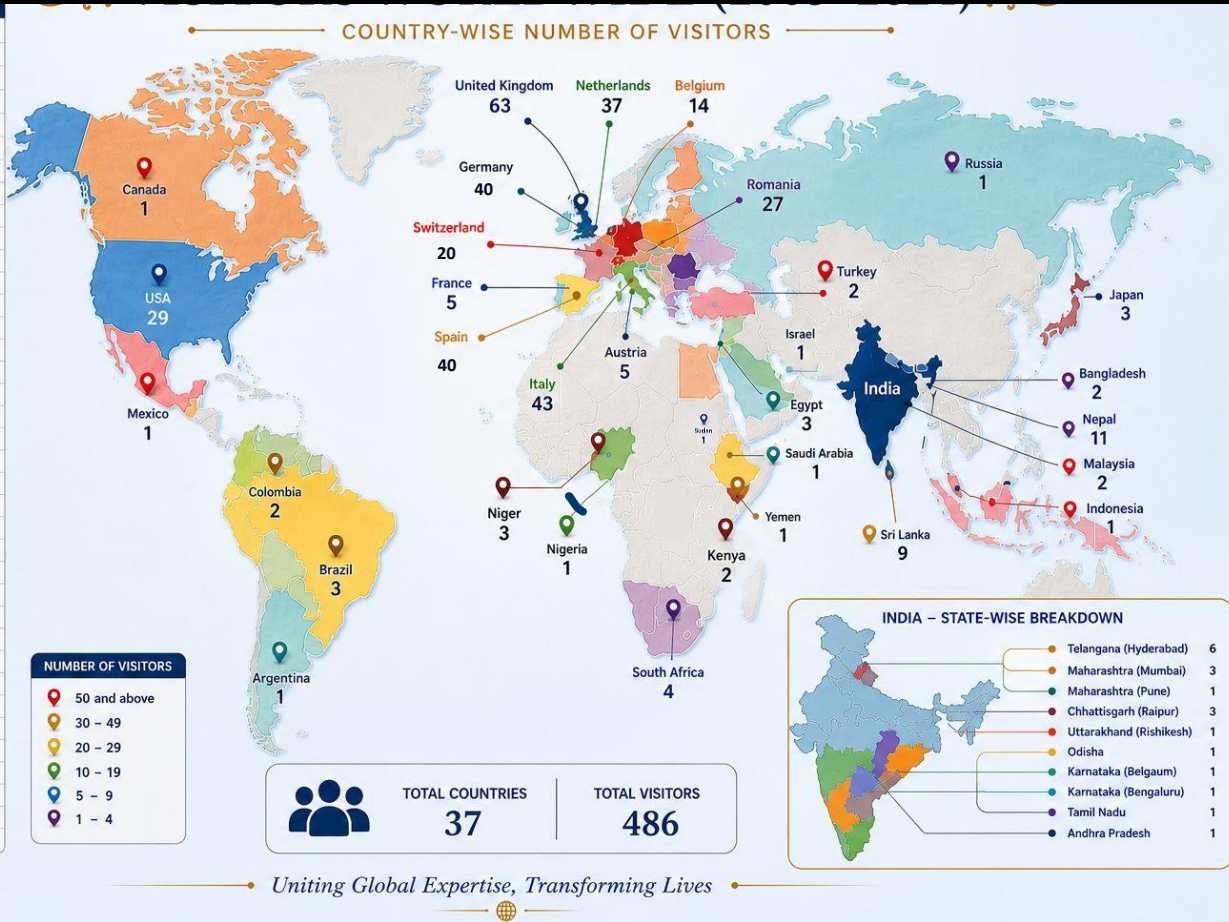
An average of 100 post graduate per year taken now.



INTERNATIONAL TRAINEES AND VISITORS

COUNTRY	NO. OF VISITORS
United Kingdom	63
Italy	43
Germany	39
Netherlands	37
Switzerland	34
USA	29
Romania	27
Spain	21
India	~20
Belgium	14
Nepal	11
Sri Lanka	9
Ireland	9
Portugal	7
Austria	5
France	5
South Africa	4
Brazil	3
Japan	3
Egypt	3
Niger	3
Turkey	2
Malaysia	2
Bangladesh	2
Colombia	2
Kenya	2
Israel	1
Saudi Arabia	1
Nigeria	1
Indonesia	1
Argentina	1
Sudan	1
Canada	1
Czech Republic	1
Yemen	1
Mexico	1
Russia	1
Ethiopia	1
Ethiopia	1

COUNTRY	VISITORS
United Kingdom	63
Italy	43
Germany	39
Netherlands	37
Switzerland	34
USA	29
Romania	27
Spain	21
India	19
Belgium	14
Nepal	11
Sri Lanka	9
Ireland	9
Portugal	7
Austria	5
France	5
South Africa	4
Brazil	3
Japan	3
Egypt	3
Turkey	2
Malaysia	2
Bangladesh	2
Colombia	2
Kenya	2
Israel	1
Saudi Arabia	1
Nigeria	1
Indonesia	1
Sudan	1
Canada	1
Czech Republic	1
Yemen	1
Mexico	1
Russia	1
Ethiopia	1
Argentina	1



INTERNATIONAL TRAINEES AND VISITORS – 480+



INTERNATIONAL GUESTS AND POST GRADUATES WITH OUR SURGERY TEAM



Partnership of Excellence

1. University of Timisoara, Romania.
2. Department of Craniofacial Surgery Radboud University
3. Nijmegen Medical Centre, The Netherlands
4. Department of Orthodontics and Craniofacial Biology Head, Cleft Palate Craniofacial Unit Radboud
5. University Nijmegen Medical Centre, The Netherlands.
6. Department of Otolaryngology & Facial Plastic Reconstructive Surgery ,Gooi Nord Hospital, The Netherlands.
7. Division of Maxillofacial and Facial Plastic Surgery University Hospital, Leipzig, Germany
8. Division of Maxillofacial and Facial Plastic Surgery University Hospital, Muenster, Germany
9. Department of Oral & Maxillo Facial Plastic Surgery, Martin-Luther-University, /Halle, Germany
10. Visiting professor European Face Centre, University, Ziekenhuls, Brussel
11. Director for OMFS at the University of Antwerp (UA), Belgium,
12. Medico en Maxilofacial Perfect, Murcia, Spain
13. Aga Khan Hospital, Kenya
14. Oral and Maxillofacial Surgery, Texas, A&M University Baylor College of Dentistry, Dallas, Texas
15. All India Institute Of Medical Sciences, Rishikesh
16. Manipal Academy of Higher Education, Manipal
17. Sharad Pawar Dental College, Datta Meghe University, Wardha
18. „Juliu Hatieganu” university of medicine and Pharmacy. Clui-Napoca. Romania



Collaboration Centers

Knowledge –Know-how Transfer

1. Lombok Indonesia
2. Janakpur Nepal
3. University of Ethiopia
4. Nigeria
5. Yemen
6. Somalia
7. South Africa
8. Dr. Alex Campbell , Cartagena ,Colombia
9. Dr.Nicolas , Oaxaca, Mexico
10. Dr.Daniel Velez ,Mediean Colombia
11. Mallige Hospital ,Bangalore
12. Yenepoya University, Mangalore
13. KLE Belgaum
14. Krishna Institute of Medical Sciences, Karad
15. Dr. Rishabh shah ,Anand Surgical Hospital Pvt Ltd Ahmedabad ,Gujrat
16. Dr. Rajgopal Athreya, Parmanand hospitals , New delhi
17. Dr. Rohit Punga , Sharda University ,Greater Noida



Training



UMC  St Radboud



www.craniofacialinstitute.org

Research

Training



Universitätsspital
Basel



www.craniofacialinstitute.org



Dr. TIMUR WATI, **INDONESIA**

Trained with us for one year and will now open a cleft center in Indonesia in association with Sumbing Bibir Foundation, The Netherlands.



www.craniofacialinstitute.org



Dr. NADIRA TRAORE and Dr. KAKA MAMANE, **NIGER, AFRICA**

Trained with us for six months and have now established a cleft center in Niamey, Niger with funding from Cleft Kinder Hilfe Schweiz.



www.craniofacialinstitute.org



Dr. Hope Salah, **Sudan**

Trained with us for 6 months and will now
open a cleft center in Sudan.



www.craniofacialinstitute.org



Dr. Ahmed Makki, **Iraq**

Trained with us for 6 months and will now
open a cleft center in Iraq.





Dr. Akinlade Akinwaleola, **Nigeria**

Trained with us for 6 months and is now practicing cleft in Nigeria.



www.craniofacialinstitute.org



Dr. Thushantha Indika, **Srilanka**

Works for the Srilankan Army, sent by the Srilankan Govt.

Trained with us for 1 year and is now practicing cleft in Srilanka.



www.craniofacialinstitute.org



Dr. Mbadda Abboud, **Israel**

Trained with us for 1 year and is now practicing cleft in Israel.



www.craniofacialinstitute.org



Dr. Kumaravelu Ahilan, **Srilanka**

Officially sent by the Srilankan Govt.

Trained with us for 1 year and is now practicing cleft in Srilanka.



www.craniofacialinstitute.org



Dr. Kim Pedro Beech, **South Africa**

Trained with us for a few weeks and is now practicing cleft in South Africa.



www.craniofacialinstitute.org

We are a recognized center for IAOMS, EACMFS and AOCMF to induct fellows for training in Cleft and Craniofacial Surgery

IAOMS

ADVANCING OMS WORLDWIDE

International Association of Oral and Maxillofacial Surgeons

Executive Committee
2014 - 2016

President
Piet Haers
piet.haers@tinter.net

Past President
Katherine Nayak
katherine.nayak@gmail.com

Vice President
Julio Azevedo
jazevedo@uol.com.br

Vice President Elect
Alexis Olson
aolson@comcast.net

Treasurer
Robert T.M. Woodwards
rob_woodwards@hotmail.com

Foundation Chairman
Larry W. Nissen
lwnissen@aol.com

Executive Director
Pierre Désy
pdesy@icoms.org

Members-at-Large
Gabriela A. Willel
gwillel@uol.com.br

Regional Representatives
Africa, Asia, Europe, Latin America, North America, Oceania, South America

Editor-in-Chief, IJOMS
Nabil Samman
nsamman@ucla.edu

Committee Chairmen
Education Committee
Rui Fernandes

Research Committee
Joseph Heiman

IAOMST Committee
Cecilia Klotman

HADR Committee
Steve Rosen

IT Advisory Committee
Fred Rizzieri

SI-COMS Committee
Mark Wong

22nd ICOMS-2015, Australia
David Wassenfeld

23rd ICOMS-2017, South Korea
Jongho Lee

24th ICOMS-2019, Brazil
Luiz Marinho

April 17, 2015

Dr. Srinivas Gosla Reddy
GSR Institute of Craniofacial and Facial Plastic Surgery
17-1-383/55, Vinay Nagar Colony, I. S. Sadan, Saidabad, Hyderabad, 500059,
Telangana, India

Dear Dr. Gosla Reddy:

The intent of this communication is to share with you the changes that the IAOMS Board of Directors, the Foundation Board of Trustees, and the Fellowship Committee will implement regarding the Fellowship program in the next few months. After carefully reviewing the GSR Institute of Craniofacial and Facial Plastic Surgery's impressive annual report, the Boards and Committee would like to officially invite you to serve as Program Director and host one Fellowship recipient specializing in cleft lip & palate and craniofacial surgery at the GSR Institute in Hyderabad, India for a period of six months each year starting in 2015-2016. The fellowship recipient will spend the other six months in Bangalore to complete a one year program. On behalf of the IAOMS Board of Directors and the Fellowship Committee, we thank you in advance for your hospitality and your devotion in advancing OMF surgery education.

We look forward to hearing from you.

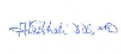
Best regards,



Piet Haers
President, IAOMS



Larry Nissen
Chairman
IAOMS Foundation



G.E. GHALI
Chair
IAOMS Fellowship Program

cc. IAOMS Board of Directors
Nabil Samman
Pierre Désy



EUROPEAN
ASSOCIATION
FOR
CRANIO
MAXILLO
FACIAL
SURGERY

www.eurofaces.eu

EACMFS FELLOWSHIPS

- CLEFT SURGERY
- FACIAL COSMETIC SURGERY
- HEAD & NECK ONCOLOGY

CRITERIA FOR FELLOWSHIPS:

- o The applicant should be a member of EACMFS
- o The Fellowship Centre should be accredited by EACMFS or any of the Fellowship Committee members
- o The applicant should be a qualified specialist in maxillo-facial surgery according to the regulations to be applicable in his/her home country – or the country in which he/she has acquired speciality training.
- o Approval for leave of absence should be obtained from the employing authority.
- o Clinical or basic research is required. At least one paper reflecting the said research must be submitted for publication to the Journal of Cranio-Maxillo-Facial Surgery. Following submission of the paper, the Fellow must cooperate and respond to all requests from the Journal's editor or editorial staff to complete the review process
- o Financial resources should be available for covering the one-year-stay at the host centre with a position paid for by either the home centre, or the host centre, or by a grant that enables the applicant to perform a study while staying at the host centre.
- o A complete CV, a log book of operations performed and a list of scientific publications (co-authored by the applicant plus written proof of all the above shall be sent to the Secretariat

FINANCIAL SUPPORT:

- o A maximum of 2000 euros per individual fellow will be available as a subsistence allowance at the start of the fellowship

NUMBER OF FELLOWSHIPS:

- o A maximum of three fellows per group will be accepted per year

CLEFT SURGERY

Host Centres:
Belgium Prof Nasser Nadjmi
India Prof Srinivas Gosla Reddy

FACIAL COSMETIC SURGERY

Host Centres:
Belgium Prof Maurice Mommaerts
Germany Dr Josip Bill
UK Dr Brian Musgrove

HEAD & NECK ONCOLOGY

Host Centres:
Croatia Prof Miso Virag
Germany Prof Robert Sader
UK Dr Nicholas Kalavrezos

Host Centres under development: Croatia, Italy, Portugal, South Africa, The Netherlands, and others

AOCMF

GSR Institute of Craniofacial Surgery
Prof. Dr. Srinivas Gosla Reddy
17-1-383/55, Vinaynagar Colony,
I. S. Sadan, Saidabad
Hyderabad, 500059
India

21st April 2015

Approval of your AOCMF Fellowship Host Clinic Application

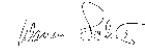
Dear Professor Srinivas Gosla Reddy,

we are writing to you with regards to your AOCMF Fellowship Host Clinic Application, submitted on October 5th 2013. It is our pleasure to inform you that the members of the International Board have approved your application at their last AOCMF International Board Meeting in Davos.

In order to initiate the next steps, you will be contacted by the AOCMF Fellowship organizers soon. Enclosed to this letter, please find your AOCMF Host clinic certificate.

We are proud to add the GSR Institute of Craniofacial Surgery, to our AOCMF Fellowship training centers and congratulate to your approval.

Kind regards



Warren Schubert
International Board Chair

9550 Meadowbrook Industrial Court, Suite 210, Rolling Meadows, Illinois 60008, USA Tel: 224 232-0737 Email: communications@iaoms.org



www.craniofacialinstitute.org

AO Foundation
AOCMF Fellowships
Stettbachstrasse 6, 8400 Dübendorf, Switzerland
Phone: +41 44 200 24 20 Fax: +41 44 200 24 00
fellowship@aocmf.org www.aocmf.org

Philanthropy
In
Surgery

Create

Collaborate

Co-operate







CLEFT-KINDER-HILFE

Schweiz



Launching of the
Hermann Sailer and Erica Schwob
Cleft School Project
On Sunday, January 4, 2009.

Supported by

CLEFT CHILDREN

worldwide care and cure for
children with cleft lip and palate

Jan 4th, 2009 – Official Launching of the ‘Hermann Sailer and Erica Schwob Cleft School Project’.

Till now More than **250 Children** with Cleft and facial anomalies have finished their higher education through this program.

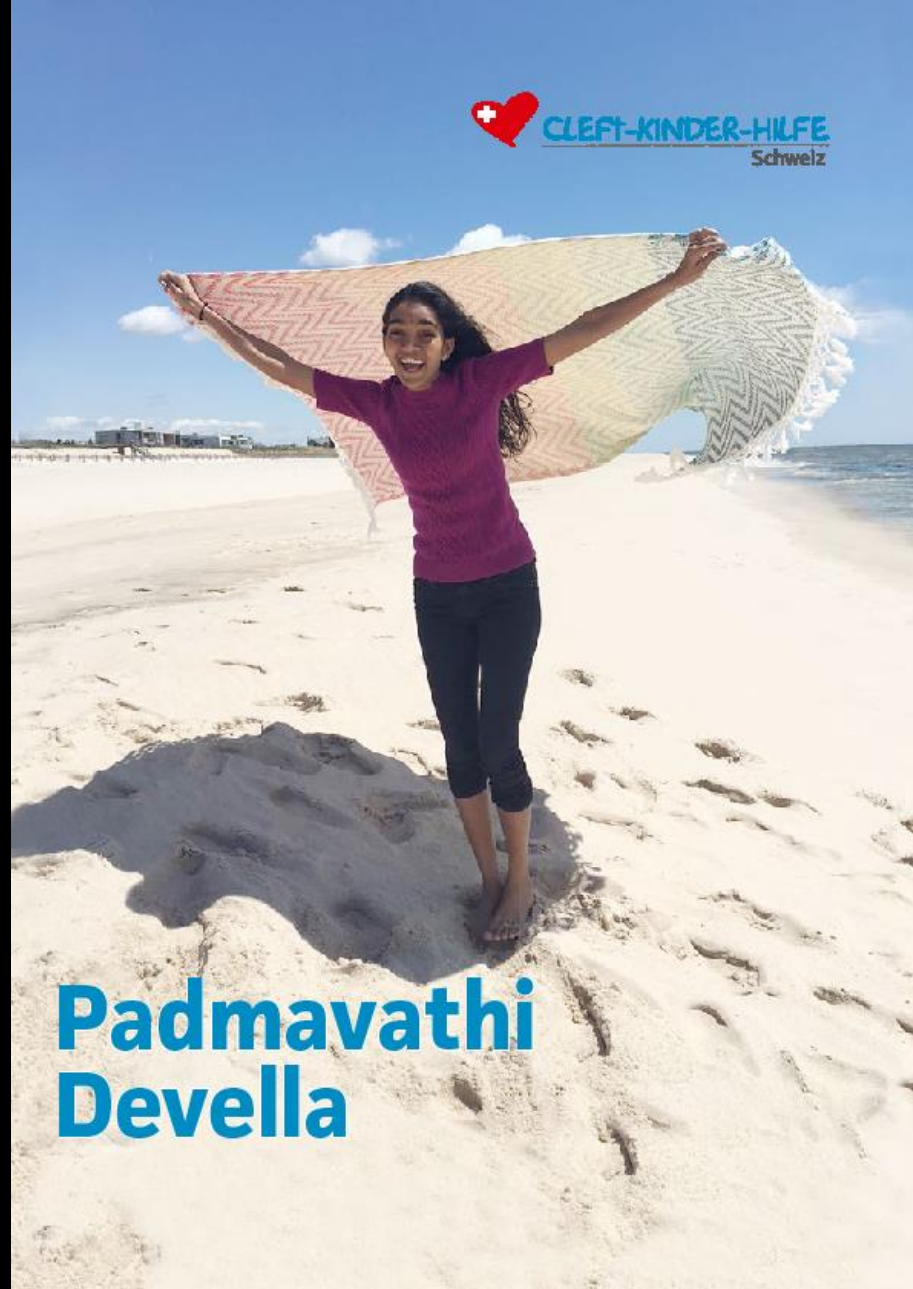


www.craniofacialinstitute.org

Cleft Children Rehabilitation Building







**Padmavathi
Devella**



Padmavathi Devella, das Mädchen mit den wunderschönen grünen Augen, kam im Alter von vier Jahren in unser Cleft-Zentrum in Hyderabad, wo sie von Prof. Dr. Dr. Hermann F. Sailer und dem von ihm ausgebildeten Dr. Gopin Reddy operiert wurde.

Padmavathi Devella, she got with the beautiful big eyes, arrived at just four years of age in our cleft centre in Hyderabad where she was operated by Dr. Gopin Reddy and Prof. Dr. Dr. Hermann F. Sailer.



 CLEFT-KINDER-HILFE
Schweiz



Padmavathi Devella

To
MRS. ESIKA,
Zürich,
Schweizland,

Dear Mrs. Esika,

I am Padmavathi Devella, student from CKHS cleft school project, Hyderabad, India. would like to take this opportunity to extend my heartfelt thanks to you for providing me with an opportunity since my childhood in the form of surgeries, shelter & education etc.

Now, you have provided me with an opportunity to study at Ross school, Newyork. I am very happy to be at the receiving end. I will work very hard & study well and keep up your name.

I have gone through two phases of life, one before the surgery. where I have struggled a lot with my facial deformity. The second phase of my life, is after surgery it is really intresting & I am very happy with this present life.

It is all because of you & the support provided by you.

Thank you once again for giving me this opportunity. I would definitely work hard & help the unfortunate cleft children like me, for their well being.

Yours faithfully,
Padmavathi.



Beitd war sie es, die der Neuanfangen wie der kleinen Dinge half sich in der Gruppe anzuklopfen, und die in der Schule eines der ersten Vorbilder für die Jungen darstellte. Sie wurde eine der besten Schülerinnen der Kristiniana "Star School" und half bei ihrer ersten und letzten Leisung immer ein bewährter und hilfreicher Mensch.

Before long, she was helping newcomers like the little things that helped her to get into the group and one of the first students in the Kristiniana "Star School" and in spite of her outstanding achievements, remained the same kind helpful girl she had always been.



Die Schönheit findet hier auch unter Einem ein, ist die neue Schönheit liegt meistens sehr früh, aber die Mädchen die gegen Strahlen der Sonne die Kräfte haben, die sie und auch aber nicht alle machen auch Zeit für die Sonne, die sie mit anderen haben. Für einen Mann, Aufzug oder einfach nur Zeit mit Freunden.

The daily routine here is even tougher than it was in Hyderabad. Padmavathi Devella has to do every thing she can to meet the very high expectations that have been placed on her. She naturally does it, it's time to enjoy herself with the other girls in college, it's just spending time with her friends.



Die ist eine legale Skulptur, eine ungewöhnlich kleine, eine legende Skulptur - und wir haben ebenfalls auch ungewöhnliche Designern. Sie werden in der Zukunft von "Kunstgaleristen" oder auf andere Weise.

She is a great student, a great cook, a very hard worker, a great singer, as of her connections as a great coming designer, she is taking great delight in designing all sorts of clothes.



Padmavathi Devella wird nur eines herausragenden Altes, sondern auch aufgrund des immensen Dankes der Council of the Cleft-Kinder-Hilfe Schweiz, die von Professor Dr. Hermann F. Sailer und Frau. Professor Dr. Gopin Reddy, die die Devella der Welt-Führung der Cleft-Kinder-Hilfe Schweiz in den USA ermöglicht.

After gaining her school graduation certificate with excellent marks, thanks to the tireless efforts of Dr. H. F. Sailer, Swiss President of Cleft-Kinder-Hilfe Schweiz, and Mrs. Professor Dr. Gopin Reddy, she was awarded a scholarship from Mrs. and Mrs. Professor Dr. Gopin Reddy to continue her education at the prestigious Ross School in East Hampton, USA, USA.

It is easy to procure equipment and infrastructure

It is a little harder to employ trained personnel

It is impossible to formulate an ideology on your own

**GIVE AND PASS ON THE KNOWLEDGE THAT YOU HAVE
ABSORB KNOWLEDGE THAT OTHERS CAN GIVE AND PASS ON**

**A SUCCESSFUL SURGEON CAN ONLY BE A CONFLUENCE OF IDEAS THAT
EMPLOYS WELL TRAINED OTHER PERSONNEL AND IS WELL EQUIPPED TO
DEAL WITH THE PROBLEM**



CONCLUSION

- REACH demonstrates a sustainable model for equitable surgical care
- Community-integrated systems improve access in LMIC settings
- Aligns closely with Lancet Commission goals
- Potentially replicable model for strengthening global surgical systems



Bring the Smile Back



Thank You



www.craniofacialinstitute.org