

**PROPOSED TIME TABLE FOR FELLOWSHIP IN MYOFUNCTIONAL  
INTERCEPTIVE AND BIOFUNCTIONAL THERAPY**

**FACULTIES FOR THE SESSION**

**1. Pedodontist –**

**Prof. Dr Joby Peter, MDS**

Prof and Head,  
Department of Paediatric and Preventive Dentistry  
Annoor Dental College and Hospital, Kerala  
Head of Academics, Online Dentistry, Kerala.

**2. Orthodontist –**

**Dr Binu T Abraham,**

Chief Dental Surgeon  
Kerala Dental Clinic, Kerala

**3. ENT Surgeon –**

**Dr Monica Sharma MBBS DLO MS (ENT),**

Professor and Senior consultant,  
Specialist, Harley international medical center, Dubai

**Dr Varun Rai MBBS, DNB (ENT)**

Consultant,  
Department of Ent  
Sir Ganga Ram Hospital, Delhi

**Dr Kurien Tobi Varghese, MBBS, MS , DNB (ENT)**

Chief ENT Surgeon,  
Kizhakambalam Medical Centre, Kerala

**4. Pulmonologist –**

**Dr Shine Shukoor Rasheed, MD, FCCP,**

Kinder Multispecialty Hospital, Kerala

**5. Audiologist and Speech language pathologist**

**Ahana Cleetus, MASLP**

Speech Pathologist, Rajagiri Group of Hospitals, Kerala

**6. International Guest Faculty-**

**Dr Jeffrey A. Dean, DDS, MSD, FFD (Hon) RCSI**

Professor of Pediatric Dentistry and Orthodontics,  
Indiana University School of Dentistry,  
Riley Hospital for Children in Indianapolis.

**Dr Ganasalingam Sockalingam, BDS, MSC, FDSRCS(Eng),FAMM**

Paediatric Dentistry Department,  
Manipal University College, Melaka

**Please Note:**

- Each Module is spaced with a gap of 3 months
- Exact Details of Dates will be announced through flyers

This fellowship program is done in Association with Faculties from Annoor Dental College and Hospital, Muvattupuzha, Kerala, Faculties from Online Dentistry, Aluva, Kerala, Kinder Multispecialty Hospital Kerala, Rajagiri group of Hospitals, Kerala, Harley International Medical Center, Dubai and Sir Gangaram Hospital, New Delhi, India.

All candidates will be given 15 to 20 cases of various conditions and full planning of treatment, lab prescription, delivery of appliance, follow ups, and assisting for various cases in the clinical posting.

Note: Each module is of 3 days and every quarter one offline module will be there. Online module is of 36 hours split into 18 days with 2-hour session per day. Online module includes live zoom session, recorded video with quiz to finish and submission of assignment, case discussion, Library dissertation work, journal club presentation.

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## PROPOSED IN CAMPUS TIME TABLE

All class starts at 8.30 AM IST to 4 PM IST with two 30 minutes tea snack break and 45minutes lunch break.

All Candidates are required to bring

- Laptop / Pendrive with atleast 8 GB of Free Space
- DSLR (Any model) Camera

### MODULE 1: September 2023: 26 27 28

#### Day 1:

- Inauguration
- Induction
- Overall view of the course
- Need and purpose of Interceptive Orthodontics (Session 1)
- Need and Purpose of Interceptive Orthodontics (session 2)
- Clinical Relevance of Growth and Development
- Basic Concept/Theories of Growth and Development
- Cephalocoudal growth/Scammons Growth Curve
- Growth Hormone and its significance

#### CLINICS:

- Basic Photography lecture/Hands on
- Cropping /Editing/Storing/Retrieving
- All candidates to submit full photo records

For better photo quality and documentation it is advisable to have your own DSLR / macro len 100 mm / Ring Flash

#### Day 2:

- Alginate Impression/Rubber base
- Hands on impression on typhodonts
- Cast pouring/ Base forming
- Submission

(5 Patients will be given for complete record taking Photo/imp/base pouring/ceph/OPG)

**SUBMIT:** One patient Photo/cast/Ceph/OPG

#### Day 3:

- Photo analysis
- Ceph Tracing and land marks
- Ceph Composite analysis:  
STEINER/JARABACK/MACNAMARA/JEFFERSON/SASSUONI PLUS.

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## **MODULE 2: December 2023 : 27, 28, 29**

### **Day 1**

- Overview of module 1
- Submission of assignments
- Case presentation of approved cases: 5
- MODEL Analysis
- OPG analysis
- Ceph analysis: wits appraisal/Jeffersons/Vertical arc/Y axis
- All candidates to trace the last module ceph/ and their own case ceph
- Clinical posting: 5 cases follow up and discussion

### **Day 2: Sleep study at sleep clinic kinder hospital**

- Interceptive management of Non-Skeletal Malocclusion
- Space management
- Space Regainers
- Incisor crowding and its management
- Frenum and its management
- Eruption sequence /non-Eruption and its management
- Clinical posting: 5 case follow ups and discussion

### **Day 3:**

- Clinical Visit/Posting
- Cases in Various stages
- Assignments for next module
- Clinical posting: 5 case follow ups and discussion

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## **MODULE 3: April 2024: 4, 5, 6**

### **Day 1:**

- Habit and management
- Case history taking
- Mouth breathing
- Tongue thrusting
- Thumb sucking
- Lip biting and other habits
- ENT : Air way analysis and role of ENT. Visit to KDC, Kizhakkambalam.
- Clinical posting: 5 case follow ups and discussion

### **Day 2:**

- Clinical Postings Present cases
- Habit case analysis
- Expansion in paediatric dentistry
- SME : removable and fixed (quad helix)
- Clinical posting: 5 case follow ups and discussion
- Pulmonologist lecture and visit to kinder hospital.

### **Day 3:**

- RME: role of rapid maxillary expansion: HYRAX AND FAN RME
- Clinical posting: 5 case follow ups and discussion

**LAB VISIT:** All appliance demonstration and fabrications

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## **MODULE 4: July : 26, 27, 28.**

### **Day 1**

- Twin block (Mandibular Retrognathism) lecture and case discussion with patent demo and record taking.
- Functional regulator and its clinical application, activation and muscle exercises with clinical management
- Utility arch and its application in paediatric dentistry: hands on demo and case discussion: case for utility arch.
- Clinical posting: 5 case follow ups and discussion.

### **Day 2**

- Lecture: Orthopedic and its clinical application
- Face mask therapy
- Maxillary intrusion splint and head gear therapy
- Clinical posting: 5 case follow ups and discussion
- Cases related to 2x4/ Orthopaedic/Twin block

### **Day 3**

- Lab visit: maxdent: appliance demo/digital
- Library dissertation submission
- College valedictory function and certificate distribution.

### **Graduation/ defend viva/ case presentation/ MCQ test**

**Proposed date: August : 22 and 23 2024. (dates are subjected to university approval which will be done 6 months prior to the class)**

### **Malaysia DAY 1**

- Over view of one year program
- Diagnostic protocol and its revision and clinical application
- How to plan your cases in a practical way
- Butyko breathing exercises: Clinical demo and training
- Tongue exercises after frenectomy and for correct posture and position
- Myofunctional exercises and its planning
- Newer concepts in early age orthodontics: guest faculty.

### **Day 2**

- Case presentation by the candidates: 5 cases
- Viva voice
- Graduation ceremony and certificate distribution

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## Online Module Time Table with Course Content Covered

### October 2023 : 12<sup>th</sup> Thursday 7 PM to 9 PM IST

Applied Anatomy & genetics: related to interceptive and myofunctional therapy  
Applied Physiology: applied aspect to the course  
Applied Pathology: applied aspect to the course  
Nutrition and Dietics: applied aspect to the course

### October 2023 : 26<sup>th</sup> Thursday 7 PM to 9 PM IST

Growth & Development: Prenatal and postnatal development of cranium, face, jaws, teeth and supporting structures. Chronology of dental development and development of occlusion. Dimensional changes in dental arches. Cephalometric evaluation of growth.

### November 2023 : 16<sup>th</sup> Thursday 7 PM to 9 PM IST

Child Psychology: Development & Classification of behavior, personality, intelligence in children, theories of child psychology, stages of psychological child development, fear anxiety, apprehension dt its management.  
Behavior Management: Non- pharmacological methods.

### November 2023 : 30<sup>th</sup> Thursday 7 PM to 9 PM IST

Preventive Pedodontics: Concepts, chair side preventive measures for dental diseases,  
Preventive Management: Pit and Fissures Sealants, Oral Hygiene measures, Correlation of brushing with dental caries and periodontal diseases

### December 2023 : 14<sup>th</sup> Thursday 7 PM to 9 PM IST(review class before on campus course)

Online assessment and progress of the candidates and preparation for the upcoming in campus module.

### January 2024 : 11<sup>th</sup> Thursday 7 PM to 9 PM IST

Interceptive Orthodontics:

- a. Concepts of occlusion and esthetics: Structure and function of all anatomic components of occlusion, mechanics of articulations, recording of masticatory function, diagnosis of Occlusal dysfunction, relationship of TMJ anatomy and pathology and related neuromuscular physiology.
- b. A comprehensive review of the local and systemic factors in the causation of malocclusion.
- c. Recognition and management of normal and abnormal developmental occlusions in primary, mixed and permanent dentitions in children (Occlusal Guidance).

### January 2024 : 25<sup>th</sup> Thursday 7 PM to 9 PM IST

- d. Biology of tooth movement: A comprehensive review of the principles of teeth movement  
Review of contemporary literature. Histopathology of bone and Periodontal ligament, Molecular and ultra cellular consideration in tooth movement.

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**February 2024: 8<sup>th</sup> Thursday 7 PM to 9 PM IST**

- e. Myofunctional appliances: Basic principles, contemporary appliances: Design & Fabrication
- f. Removable appliances: Basic principles, contemporary' appliances: Design & Fabrication

**February 2024: 24<sup>th</sup> Thursday 7 PM to 9 PM IST**

- g. Case selection & diagnosis in interceptive Orthodontics (Cephalometric, Image processing, Tracing, Radiation hygiene, Video imaging and advance Cephalometric techniques).

**March 2024: 7<sup>th</sup> Thursday 7 PM to 9 PM IST**

- h. Space Management: Etiology, Diagnosis of space problems, analysis, Biomechanics, Planned extraction in interception orthodontics.

**March 2024: 21<sup>st</sup> Thursday 7 PM to 9 PM IST**

Oral Habits in Children:

- Definition, Etiology & Classification
- Clinical features of digit sucking, tongue thrusting, mouth breathing & various other secondary habits.

**April 2024: 11<sup>th</sup> Thursday 7 PM to 9 PM IST(review class before on campus course)**

Online assessment and progress of the candidates and preparation for the upcoming in campus module.

**April 2024: 25<sup>th</sup> Thursday 7 PM to 9 PM IST(review class before on campus course)**

Online assessment and progress of the candidates and preparation for the upcoming in campus module.

**May 2024: 9<sup>th</sup> Thursday 7 PM to 9 PM IST**

- Management of oral habits in children.

**May 2024: 23<sup>rd</sup> Thursday 7 PM to 9 PM IST**

Case History Recording, Outline of principles of examination, diagnosis & treatment planning. Principles of Biostatistics & Research Methodology & Understanding of Computers and Photography

**June 2024: 13<sup>th</sup> and 27<sup>th</sup> Thursday 7 PM to 9 PM IST**

Role of speech therapist and dentist

- Introduction
- Articulation
- Speech
- Place Of Articulation
- Manner Of Articulation

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- Tongue & Teeth
- Speech retraining
- References
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**July 2024: 11<sup>th</sup> Thursday 7 PM to 9 PM IST**

ENT and dentistry the missing link

- Anatomy of upper and lower airway
- Clinical significance of adenoid and tonsils
- Patho-physiology with indication for adeno-tonsillectomy
- OSA in children
- Patho physiology of OSA
- Diagnosis and management of pediatric OSA
- VIDEO demonstration of adeno-tonsillectomy

**July 2024: 18<sup>th</sup> Thursday 7 PM to 9 PM IST**

Pediatric disturbed sleep disorder and role of pulmonologist

- The Nature and Structure of Sleep
- Sleep Neurobiology
- A Dental Perspective on the Classification of Sleep Disorders
- Role of Dentists in Sleep Medicine
- Overview of Guidelines/Protocols for SDB
- Sleep-Related Breathing Disorders
- Pathophysiology of OSA
- Mouth Breathing, Dentofacial Morphology, and SDB
- Diagnosis and Management of Pediatric OSA

**August 2024: 8<sup>th</sup> Thursday 7 PM to 9 PM IST (review class before on campus course at MUCM)**

Online assessment and progress of the candidates and preparation for the upcoming in campus module at Malaysia

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