



Bapuji Educational Association (Regd.)

**COLLEGE OF DENTAL SCIENCES**

**I Q A C**

**INTERNAL QUALITY ASSURANCE CELL**



## **Best practice: 2**

### **1. Title of the Practice**

Management of haemophilia patients with dental needs

### **2. Objectives of the practice:**

Haemophilia is inherited bleeding disorder in which blood does not clot properly which leads to spontaneous bleeding following injuries or surgeries. Haemophilia occurs in about 1 of every 5,000 male births. Dental problems in these patients poses difficulty in managing emotionally as well as psychologically, along with specific care to avoid/manage bleeding during the treatment. Poor oral hygiene and iatrogenic factors also can induce oral bleeding in these patients, which is a challenge of next level to the dentists. Our institute took up the social responsibility of providing oral health care and educate them regarding the oral health maintenance in turn attempting to improve their quality of life in collaboration with Karnataka Haemophilia society.

### **3. The context:**

There is always a way when there is will, we faced challenges initially when the patients were referred. The patients were hesitant for dental treatments advised and were unaware of possible complications of poor maintenance of oral health. They were in need of dental health education and were supposed to be made aware of severe complications if ignored.

On the other side, there was need for training the students and treating dentists, who handed these patients and also they were supposed to be familiarized with the possible complications during the treatment of such cases, protocol for handling and precautions to be taken during the treatments of patients with these special needs.

These hurdles were cleared and protocols were set and familiarized by proper training to the concerned students, to facilitate the treatment of these patients

PO BOX NO. 327, PAVILION ROAD, DAVANGERE-577004. KARNATAKA INDIA.

Tel: (08192) 230432, 231285, 231029. Fax: 91-8192-251070 & 236493

E-Mail: [principalcods@gmail.com](mailto:principalcods@gmail.com)

Website: [www.cods.edu](http://www.cods.edu)



Bapuji Educational Association (Regd.)

**COLLEGE OF DENTAL SCIENCES**

**I Q A C**

**INTERNAL QUALITY ASSURANCE CELL**



#### **4. The practice:**

Management of haemophilia patients usually depends on severity of the condition with avoidance of harsh maneuvers during dental treatment by preventing accidental damage to oral mucosa and protecting the soft tissue during restorations, while using saliva ejectors and placement of X-ray films along with use of local hemostatic measures and resorbable sutures. Endodontic therapy restoration is the main treatment preferred in our institution. Institution took all measures to follow International guidelines which advise the use of clotting factor replacement therapy for all invasive surgical interventions. Surgical management of these patients are done in consultation with Haematologist regarding the factor levels, factor replacements, type of surgery and the need for systemic hemostatics. All these patients are given good oral hygiene instructions to maintain oral hygiene to prevent bleeding from gingiva.

Regular gatherings are held at Karnataka Haemophilic Society for Haemophilic patients. During these events we conduct regular dental screening for patients and their parents/attenders. Lectures are also arranged regarding dental health and tobacco, Gutka ill-effects. Face to face interaction with the parents regarding oral hygiene measures and importance of regular dental check ups was conducted.

In haemophilic society regular clotting factor replacement is done for these patients, once these patients are stabilised, we request the authority to refer the patients for routine dental check up. Required dental treatment was done under the same factor replacement, thus reducing the overall burden on the patient.

These precautions and international guidelines being followed is relatively rare experience during routine dental practice because of lack of awareness regarding the protocols to be followed and/ or precautions to be taken during the dental procedures. This leads to blind referral to higher centres, which delays the care and also makes it meticulous to the patient who either ignore or postpone because of cost constraints or fear. Due to the initiative in our institute, students both undergraduates and post graduates are being exposed to the patients and the precautions and protocols to be followed while treating them.

**PO BOX NO. 327, PAVILION ROAD, DAVANGERE-577004. KARNATAKA INDIA.**

**Tel: (08192) 230432, 231285, 231029. Fax: 91-8192-251070 & 236493**

**E-Mail: [principalcods@gmail.com](mailto:principalcods@gmail.com)**

**Website: [www.cods.edu](http://www.cods.edu)**



Bapuji Educational Association (Regd.)

**COLLEGE OF DENTAL SCIENCES**

**I Q A C**

**INTERNAL QUALITY ASSURANCE CELL**



Apart from above fact, patients are given special care and are being attended compassionately with priority considering their health needs. The same is being done at an economical mode not burdening the patients who are already facing the economical constraints.

#### **5. Evidence of success:**

Dental treatment of these special care needy patients are being regularly handled in our institute and treating dentists and students are more confident once they are trained in the protocols and precautions to be followed. Dental needs are effectively fulfilled among referred hemophilia cases.

Regularly, patients with health needs are referred for dental problem addressal by the Karnataka hemophilia society. Regular referral itself is proof of satisfaction obtained by the referring doctors.

Apart from the dental treatment, proper dental health education to these patients is mandatory. The joint activities to educate the patients are regularly being organized and are effectively conducted in collaboration with The Karnataka hemophilia society, Davangere. The association also has provided letter of appreciation for the initiating such programs and also actively involves the department of Oral Medicine and radiology in such programs.

#### **6. Problems Encountered and Resources Required:**

Following up of these patients over a long period is difficult these days. Sometimes referral doctors are available in phone contact just during the chairside treatment procedures, in case of emergency.

Link to referral letters:

Link to MoU  
*S. K. S. H. Patel*  
**CO-ORDINATOR**  
**IQAC**  
**COLLEGE OF DENTAL SCIENCES**  
**DAVANGERE**

*V. S. S. S. S.*  
**Director**  
**College of Dental Sciences**  
**Davangere.**

PO BOX NO. 327, PAVILION ROAD, DAVANGERE-577004. KARNATAKA INDIA.

Tel: (08192) 230432, 231285, 231029. Fax: 91-8192-251070 & 236493

E-Mail: [principalcods@gmail.com](mailto:principalcods@gmail.com)

Website: [www.cods.edu](http://www.cods.edu)



Bapuji Educational Association (Regd.)  
**COLLEGE OF DENTAL SCIENCES**  
**I Q A C**  
**INTERNAL QUALITY ASSURANCE CELL**



**Best practice: 1**

**Title of the Practice:**

**M-TRAIN PRACTICE: A value added specialty service**

**(Management of Trauma (maxillofacial), Residual deformities, Aesthetic correction, Infections, Neoplasia)**

**Objectives of the practice:**

- To provide quality, ethical and economical specialty service to the community
- Unburdening the economical weaker section seeking the specialty care.
- Sensitizing and exposing the budding resident doctors to plethora of surgical challenges.
- Effective diagnosis and management of maxillofacial trauma/injuries.
- Postoperative rehabilitation of residual deformity patients.
- Management of oral cancer patients

**The context:**

Davangere district with a population in 2022 is 20.93 lakhs ( as per adhar uidai.gov.in Dec 2020 date) and lacks a treatment center to address the various complex maxillofacial cases. Our Institution with as maxillofacial unit, well equipped with operating theatre, in-patient ward, dedicated team of teaching staff, nursing staff and post-graduate students is strategically situated in close proximity to the District Hospital and Bapuji Hospital. This positioning and connectivity along with the facilities creates a steady inflow of maxillofacial cases from these hospitals and surrounding villages to our dental unit and makes it a primary referral center for so many complex cases which demands expertise advice and management. Approximately 250 dental clinics are functioning in Davangere district, which when encountered, refer to us the complex cases needing expertise and advanced diagnostic and treatment facilities.





Bapuji Educational Association (Regd.)  
**COLLEGE OF DENTAL SCIENCES**  
**IQAC**  
**INTERNAL QUALITY ASSURANCE CELL**



**The practice:**

College of Dental Sciences, Davangere is one among the best reputed PG Institutions in India. The wide spectrum of cases operated in the Institution provides a rich source of clinical exposure to the undertraining students.

The Maxillofacial unit in our Institution holds trained surgeons who work round the clock in a cohesive manner to bring the best quality in the management of maxillofacial cases. The same is greatly complemented by other allied specialties like Emergency medicine, Ophthalmologist, ENT surgeons, Neurosurgeons, Radiologist and General Pathologist in case of need with multidisciplinary approach. Our college is equipped with advanced diagnostic aids like CBCT and active Oral pathology department, making the approach to these complex cases much more effective.

Being one among the few hospitals handling maxillofacial cases in the district, our college prides in equipping with fiber-optic intubation facility, with a well-trained team of on-call anesthesiologist, which greatly helps in the management of space infection cases like Ludwig's Angina, TMJ ankylosis, oral cancer with limited or nil mouth opening.

Effective management of severe pan-facial trauma has been successfully carried out, restoring the form and function. Throughout the year maxillofacial PGs are posted at the casualty ward of the District Hospital to assist and get first hand exposure to the trauma and infection cases. Our in-patient ward consists of 14 beds, which is sufficiently manned by PGs and staff who work on a rota system 24 x 7 throughout the year.

Workshops such as Management of oro-facial clefts, microvascular reconstruction etc had been conducted by our Institution, wherein experts from the specific field have participated in the collaborative treatment of these deformities. Dentofacial & skeletal deformities with functional and/or aesthetic problems are treated by means of orthognathic surgery.

During the COVID pandemic, there was surge in the incidence of Mucormycosis in the District Hospital. Our team and the ENT Department collaborated in the successful management of these cases medically and surgically. Post-operative care of these cases with huge maxillary defects were rehabilitated by our Prosthodontists.

As the dental awareness and services are lagging in the rural areas, there is always delay in the treatment of dental infections initially, resulting in severe oro-facial space infections compromising their airway (Ludwig's Angina) and increasing their morbidity. Such cases are attended on emergency basis to maintain their airway and successfully managed in our Institute to save the life.

**PO BOX NO. 327, PAVILION ROAD, DAVANGERE-577004. KARNATAKA INDIA.**

**Tel: (08192) 230432, 231285, 231029. Fax: 91-8192-251070 & 236493**

**E-Mail: [principalcods@gmail.com](mailto:principalcods@gmail.com)**

**Website: [www.cods.edu](http://www.cods.edu)**



Bapuji Educational Association (Regd.)  
**COLLEGE OF DENTAL SCIENCES**  
**IQAC**  
**INTERNAL QUALITY ASSURANCE CELL**



Oral cancer is a bane on the society, affecting their quality of life, destroying the fragile livelihood of the families. The maxillofacial unit of this Institution have successfully treated oral cancer patients at a very reasonable cost, thereby improved their quality of life and restored their livelihood.

**Evidence of success:**

Success of any healthcare institution is measured by its longevity, success of their students and the number of patients benefitted.

College of Dental Sciences is a 25-year-old institution with well-established maxillofacial unit with well trained surgeons, treating these cases since many years.

Apart from regular dental treatments and surgeries, Maxillofacial unit has been performing the M-TRAIN program and handling numerous complex cases. Complex cases treated on inpatient basis have been tabulated and their numbers speaks for itself.

Year	Trauma	Pathology/ cancer	Orthognathic	Space infection
2014	84	44	14	4
2015	67	34	10	2
2016	64	37	9	3
2017	64	45	11	10
2018	82	41	13	20
2019	84	40	5	15
2020	42	17	0	9
2021	44	45	6	8
2022	42	31	3	12
Total	573	334	71	83

Alumni of our institute trained under Maxillofacial unit are well placed in their career and are rendering valuable contribution at their own levels. The training undergone during their Internship and Post-Graduation have inspired them immensely to reach their current position. List of few alumni of Maxillofacial unit occupying eminent positions, has been enclosed and geotagged photos of the medical record room with records has been attached.

PO BOX NO. 327, PAVILION ROAD, DAVANGERE-577004. KARNATAKA INDIA.

Tel: (08192) 230432, 231285, 231029. Fax: 91-8192-251070 & 236493

E-Mail: [principalcods@gmail.com](mailto:principalcods@gmail.com)

Website: [www.cods.edu](http://www.cods.edu)



Bapuji Educational Association (Regd.)  
**COLLEGE OF DENTAL SCIENCES**  
**IQAC**  
**INTERNAL QUALITY ASSURANCE CELL**



**Problems encountered and resources required:**

- Lack of Indemnity insurance from the institution
- Lack of protection against violence by patient attenders towards hospital staff.

**Medical records room**



PO BOX NO. 327, PAVILION ROAD, DAVANGERE-577004. KARNATAKA INDIA.

Tel: (08192) 230432, 231285, 231029. Fax: 91-8192-251070 & 236493

E-Mail: [principalcods@gmail.com](mailto:principalcods@gmail.com)

Website: [www.cods.edu](http://www.cods.edu)



Bapuji Educational Association (Regd.)  
**COLLEGE OF DENTAL SCIENCES**  
**IQAC**  
**INTERNAL QUALITY ASSURANCE CELL**



**Medical records files**



GPS Map Camera

**Davanagere, KA, India**  
University BDT College of Engineering,  
Davanagere, 577004, KA, India  
Lat 14.455903, Long 75.916815  
12/02/2022 04:25 PM GMT+05:30

Mapbox

PO BOX NO. 327, PAVILION ROAD, DAVANGERE-577004. KARNATAKA INDIA.

Tel: (08192) 230432, 231285, 231029. Fax: 91-8192-251070 & 236493

E-Mail: [principalcods@gmail.com](mailto:principalcods@gmail.com)

Website: [www.cods.edu](http://www.cods.edu)





Bapuji Educational Association (Regd.)  
**COLLEGE OF DENTAL SCIENCES**  
**IQAC**  
**INTERNAL QUALITY ASSURANCE CELL**



**Medical records files**



GPS Map Camera



**Davanagere, KA, India**

University BDT College of Engineering,

Davanagere, 577004, KA, India

Lat 14.455679, Long 75.916790

12/02/2022 04:24 PM GMT+05:30

*Shobha*

**CO-ORDINATOR**  
**IQAC**  
**COLLEGE OF DENTAL SCIENCES**  
**DAVANGERE.**

*M. Lakshmin*

**Director**  
**College of Dental Sciences**  
**Davangere.**

PO BOX NO. 327, PAVILION ROAD, DAVANGERE-577004. KARNATAKA INDIA.

Tel: (08192) 230432, 231285, 231029. Fax: 91-8192-251070 & 236493

E-Mail: [principalcods@gmail.com](mailto:principalcods@gmail.com)

Website: [www.cods.edu](http://www.cods.edu)