



DEPARTMENT OF PERIODONTICS

7.2 Best Practices

1. Title:

Evidence-based practice and research by adopting non-invasive procedures for reducing the periodontal pocket depth for patients using Photodynamic therapy.

2. Objectives:

- Non-invasive therapeutic modality treatment as an alternate antibacterial, antifungal, and antiviral treatment against drug-resistant organisms.
- Can be applied topically into the periodontal pocket thus avoiding pain to the patient.
- Can reduce drug overdose as they can be applied topically into the periodontal pocket.

3. The Context: Evidence-based practice delivered through the application of PDT (Photodynamic therapy), which aims to provide painless and reduced drug intake treatment for patients.

Education:

Undergraduate students: lectures and Video presentations are given on:

- Importance and components for PDT (1 hour)
- Clinical chair-side training and supervision of the treatment method.
- Students and interns are motivated to prepare Posters and models to educate patients and parents.

Postgraduate students: Seminars are presented on PDT and their components through PowerPoint presentations by the PG students.

Journal club: recent articles on PDT in periodontics were discussed by the PG students with the guidance of the faculty.

Service: Clinical training

- Clinical Case presentations and discussion on treatment plan
- Documentation of cases with preoperative and postoperative photographs
- Counseling patients on maintaining their oral hygiene

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- Diet analysis and counseling
- Periodic recall every 3 months for re-evaluation

Problems Encountered:

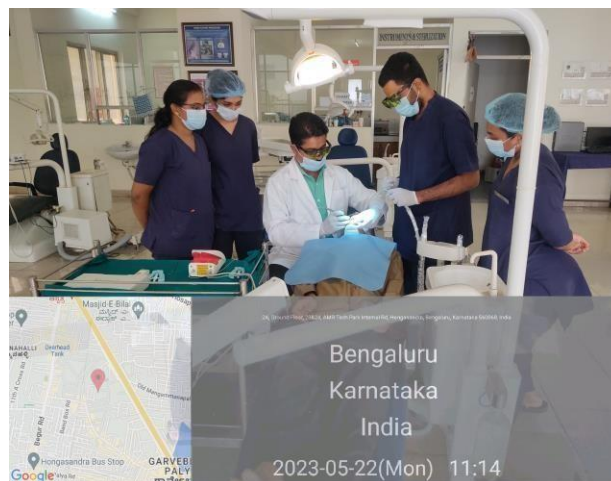
- Convincing /counselling for the treatment as it is relatively new treatment modality.
- Requires repeated patient follow ups to check the prognosis of the treatment.

Evidence of Success:

The use of PDT for pocket reduction treatment has an effective bactericidal effect. We have done a total of 17 cases during the period of 2 months wherein we mainly dealt with treating periodontal pockets. We found there was a success rate of 90% in the treated cases. This therapy being painless and non-invasive has been accepted by patients with tangible results.



Lecture to PG students on Photodynamic therapy



Demonstration of the procedure



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Preoperative probing depth



photosensitizer dye liquid (Indocyanine green) applied with a blunt needle at the bottom at the periodontal pocket



pockets rinsed with distilled water to remove excess liquid



810nm Laser application performed circumferentially around the periodontal pockets



Postoperative probing



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DATE	OP No.	PATIENT NAME	PROCEDURE	STUDENT NAME	STUDENT SIGNATURE	STAFF SIGNATURE
1.	E093436	Sugunav.	Pocket Elimination with PDT 31	Dr. Tuli	Dr. Tuli	Dr. Tuli
2.	E094104	Hainsh	Pocket elimination with PDT 1st 61	Dr. Hygga	Dr. Hygga	Dr. Hygga
3.	E041655	Ravikumar	Pocket elimination with PDT 2nd 52	Dr. Tuli	Dr. Tuli	Dr. Tuli
4.	E087174	Narayanan S	Pocket Elimination with PDT 2nd 75	Dr. Tuli	Dr. Tuli	Dr. Tuli
5.	E083303	Nihar Mendal	Pocket elimination with PDT 1st 56	Dr. Tuli	Dr. Tuli	Dr. Tuli
6.	E052125	Pajeshwari	Pocket elimination with PDT 1st 34	Dr. Hygga	Dr. Hygga	Dr. Hygga
7.	E083307	Gurumurthy BT	Pocket elimination with PDT 1st 45	Dr. Tuli	Dr. Tuli	Dr. Tuli
8.	E087657	Roopa	Pocket Elimination with PDT 1st 46	Dr. Hygga	Dr. Hygga	Dr. Hygga
9.	E095477	Geethanjali Dalal	Periimplantitis with PDT 31	Dr. Tuli	Dr. Tuli	Dr. Tuli
10.	E084124	Abhishek	Pocket elimination with PDT 1st 63	Dr. Tuli	Dr. Tuli	Dr. Tuli
11.	E095602	Naveenada	Pocket elimination	Dr. Hygga	Dr. Hygga	Dr. Hygga



Department of Pediatric and Preventive Dentistry

Best Practice 2:

1. Title: ¹

Evidenced based practice and research by adopting an infant oral health care counselling to new mothers by utilization of virtual reality (VR) device.

2. Objectives:

- To recognize Infant oral health counselling to new mothers as early intervention measures.
- To educate and impart clinical training to both under graduate and post graduate students.
- To render comprehensive management in an excellent clinical setting
- To encourage research on counselling through virtual reality and bring forth newer modalities in patient care
- To improve oral health related quality of life in children
- To educate parents and teachers and thus increase awareness of the community

3. The Context: Evidence based practice delivered through the application of AI (Artificial Intelligence assisted learning) by application of virtual reality (VR) device, which aims delivery of education, service and research involving stakeholders is the core.

Education:

Under graduate students: Didactic lectures and Video presentations are given on:

- Importance of first dental visit (1 hour)
- Clinical chair side training and supervision of infant oral health care practices
- Students and interns are motivated to prepare Posters and models to educate patients and parents.

Postgraduate students: Seminars are presented on all aspects of infant oral health counselling by various visual aids by PG students.

Journal club : recent articles on VR as tool to prevent early oral diseases are presented by PGs with contributions from faculty

Service: Clinical training

- Clinical Case presentations and discussion on treatment plan
- Documentation of cases including information on feeding practices and diet analysis
- Early assessment, risk-based prevention, and disease management
- Comprehensive dental treatment to manage ECC
- Counseling to parents on infant oral care
- Diet analysis and counseling

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- Oral hygiene instructions
- Periodic recall every 3 months for preventive strategies

Community service

- Conducted dental camps utilizing mobile dental clinic.
- Counseling to parents on infant oral care

Problems Encountered:

- multiple training sessions to make patient aware and adherent to routine oral hygiene procedure.
- Cost involvement for virtual reality treatment modality.

Evidence of Success:

The utilization of newer preventive strategies has resulted in good treatment outcomes. Improvement in oral health of the child gives students confidence, and increases the interest and trust of parents, and improvement in quality of life of children.

BENEFITS OF INFANT ORAL HEALTH CARE COUNSELLING:

Virtual reality is quickly emerging, as one of the most promising tools as a mode of visual education. It provides immersive and interactive experience, creating a familiar and comfortable environment, providing educational experiences through multidimensional approach than the conventional face to face counselling.

Infant oral health care counselling to young mother aims at:

- Early detection of oral health issues.
- Alleviate discomfort and pain
- Establish good oral health practices
- Prevents long term oral health issues by incorporating brushing & flossing regularly, proper breast-feeding practices, limiting sugary food & drinks and encouraging a healthy diet.



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DEMONSTRATION OF INFANT ORAL HEALTH PRACTICES & EARLY PREVENTION TO MOTHER BY VIRTUAL REALITY GLASSES.





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April - 2022

07/04/22	D001915	Rohit	4m/M	infant care counselling	Dr. Prabhu	↓
11/04/22	E007698	Simran	12m/F	infant care counselling	Dr. Sadiya	↓
14/04/22	E061859	Aksnya	1.9m/F	infant care counselling	Dr. Radheshree	↓
21/04/22	D099901	Monika	4m/F	infant care counselling	Dr. Akhilesh	↓
28/04/22	D042566	Misban	10m/F	parenting counselling	Dr. Sana	↓

May - 2022

06/05/22	E054475	Tejas	2m/M	infant care counselling	Dr. Prabhu	↓
08/05/22	E051333	Aswini	5m/F	infant care counselling	Dr. Sana	↓
09/05/22	E061949	Dhruva	5m/F	parenting counselling	Dr. Deepak	↓
12/05/22	E0282116	Anushe	10m/F	parent counselling	Dr. Shonadi	↓
18/05/22	D038212	Vinay	8m/M	infant oral counselling	Dr. Sadiya	↓



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