



Towards Healthier Tomorrow

Dr. Babasaheb Ambedkar Medical Research Society

# MEDI-SEARCH

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VOL - XII - OCTOBER -2015

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## *From the editors' desk .....*

Pre Diwali wishes for the readers of Medisearch. We have always been instrumental in stimulating the academic appetite of medical practitioners and successful, to a certain extent, in sharpening their quintessential clinical skills. In addition to providing academic and clinical inputs, a medical magazine should also nurture an inquisitive mode in its subscribers' mind about the technological advances being used to enhance and enrich the therapeutic modalities.

Technological advances have always boosted up the speed and quality of surgery and the medical therapeutics. We, as practitioners, should not only keep ourselves well informed about these changes, but also be active in getting trained in the optimal utilization of such innovations, to ensure a better overall health for our patients.

With the same objective in mind, we have come up with the present volume of Medisearch which dwells into the use of various newer gadgets in Dentistry. It gives us immense pleasure to share with our readers that the department of dentistry at Dr. Hedgewar hospital is striving hard to bring these technological advances in reach of the underprivileged and to have a holistic approach towards oral health. The department has equipped itself to deliver a wide spectrum of dental therapies, ranging from the basic procedures like tooth extraction and dental fillings to the more complex aesthetics-the Orthodontics.

We hope this edition enlightens our readers regarding the availability of a vista of newer instruments and their use in dental practice.

*-Editors.*



## IN THIS ISSUE

### 1 A Complete Dental Care.

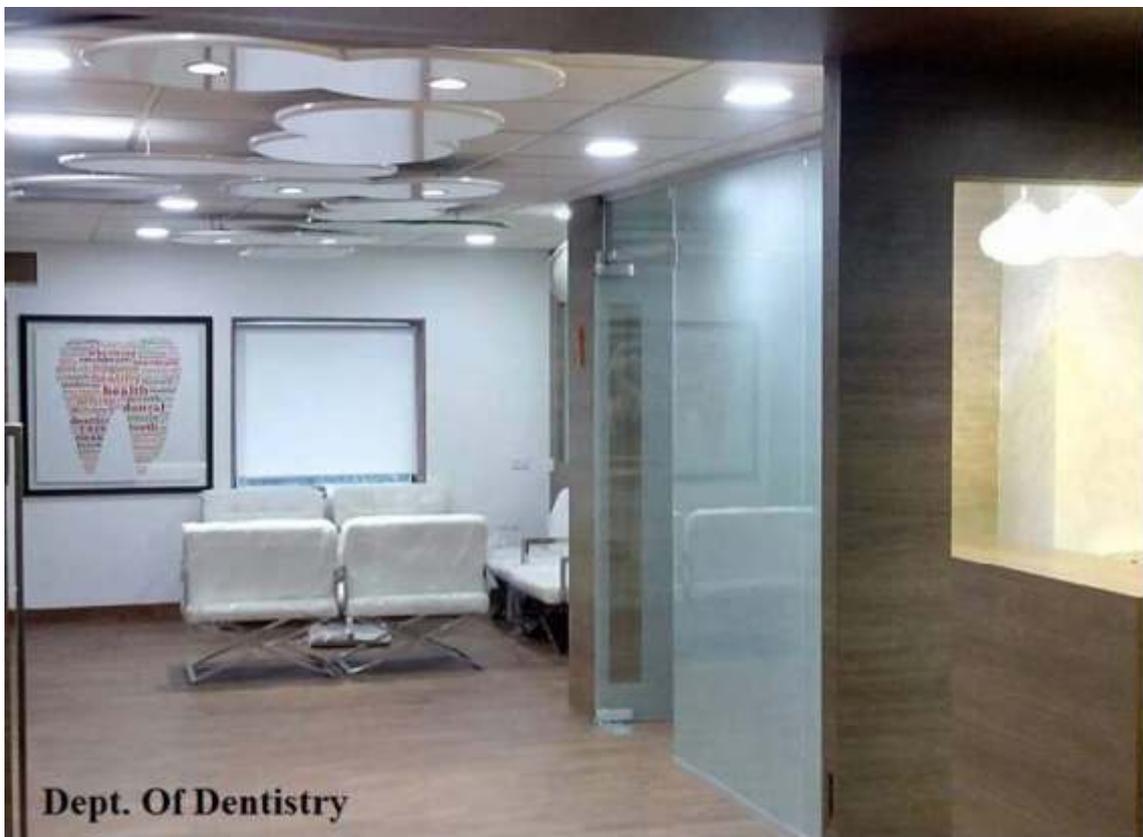
Dr. Abhijeet Chapalgaonkar  
Dr. Hedgewar Hospital.

### 2 Quiz

## ***A Complete Dental Care.***

*Dr. Abhijeet Chapalgaonkar  
Dr. Hedgewar Hospital.*

One of the important clinical components of basic health care services-the Dentistry department of Dr. Hedgewar Hospital provides clinical and diagnostic evaluation of oral and maxillofacial ailments for all age groups. State-of-the-art modalities, round the clock availability and affordable costs are some of the unique features of our services.



### ***Services We Provide:***

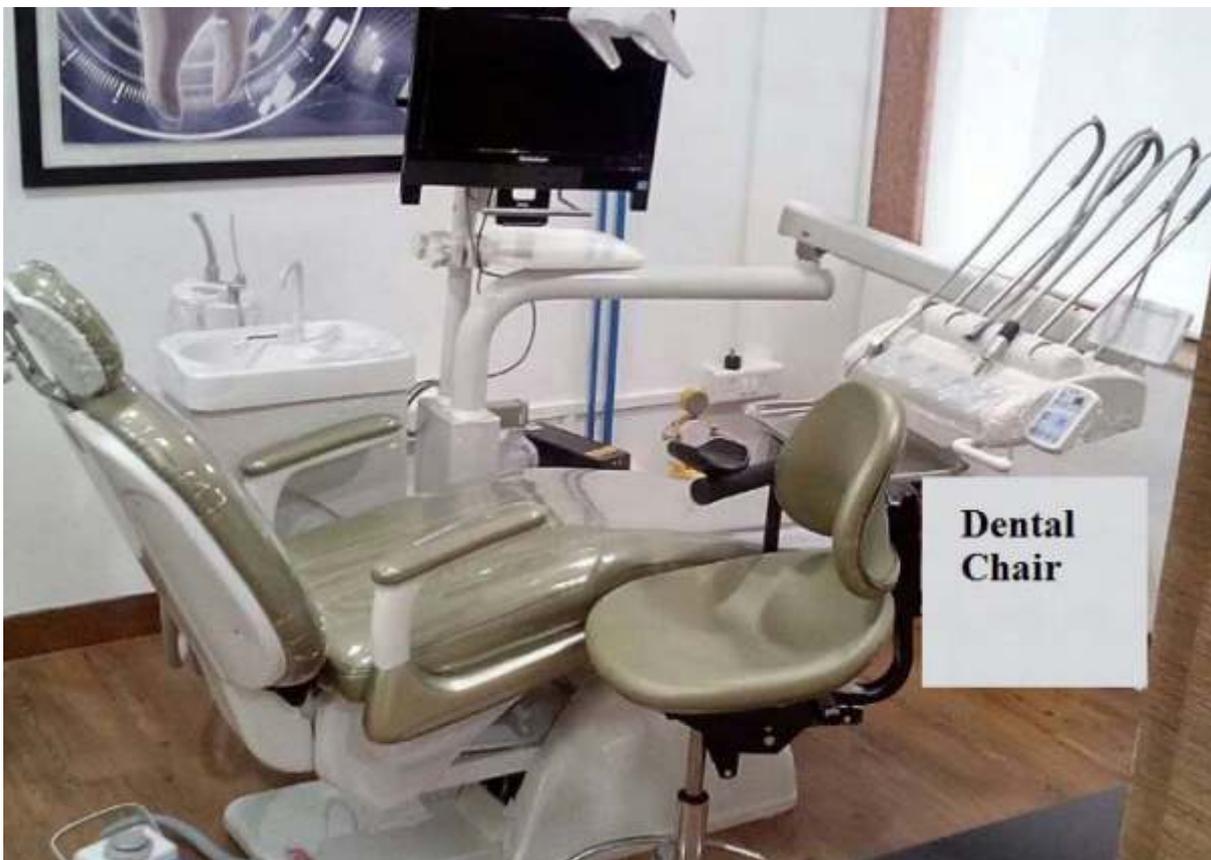
- A. Tooth Extraction.
- B. Root canal treatment,
- C. Complete denture,
- D. Crown & bridge,
- E. Post & core restoration.

## Our Services in cosmetics dentistry

- A. Laminates and veneer,
- B. Full ceramic crown,
- C. Composite restoration.

We proudly introduce our new premises that flaunt a fully equipped dental unit which encompasses,

1. A total of six Dental chairs, as shown in the photograph below.



2. Complete diagnostic dental set up including.
  - OPG X-ray
  - Radio-visuography
  - IOPA X ray.
3. Technological advances like
  - Dental loops
  - Intra-oral Cameras
  - Dental Implant Kits.

## An Orthopantomogram



An Orthopantomogram (OPG) is a panoramic radiograph, a panoramic scanning dental X-ray of the upper and lower jaw. It shows a two-dimensional view of a half-circle from ear to ear. It is a form of tomography in which images of multiple planes are taken to make up the composite panoramic image, where the maxilla and mandible are in the focal trough and the structures that are superficial and deep to the trough are blurred.

### Indications for OPG:

1. Impacted wisdom teeth - to determine the status of wisdom teeth and trauma to the jaws.
2. Periodontal bone loss and periapical involvement.
3. Finding the source of dental pain
4. Assessment for the placement of dental implants
5. Pre and post operative Orthodontic assessment.
6. Diagnosis of developmental anomalies such as Cherubism, cleido-cranial dysplasia
7. Carcinoma in relation to the jaws
8. Temporomandibular joint dysfunctions and ankylosis.
9. Diagnosis and pre- and post-operative assessment of oral and maxillofacial trauma, e.g. dentoalveolar and mandibular fractures.
10. Salivary stones (Sialolithiasis).

## Digital Imaging system.



It is the most concise and advanced intraoral imaging system available to date. It has a unique ultraviolet disinfection technology that takes imaging hygiene to a new height. It inactivates viruses and bacteria on the transport plate. It has thin and flexible imaging plates (Phosphor plates) that add value to the patient comfort.

In this new set-up we will be performing the following

1. Laser assisted soft tissue surgeries
2. Orthodontic Treatment
3. Pediatric dental care.
4. Treating trauma, space infections and TMJ disorders in coordination with the department of ENT and Maxillofacial surgery.
5. Dental therapy for high risk patients with systemic ailments like Diabetes, Hypertension etc.

### Laser assisted soft tissue surgeries:



**AMD Picasso Diode Laser**

The use of laser in oral soft tissue operative procedures has the following advantages-

1. Clean cutting and good hemostasis.
2. Good cauterization of nerve endings.
3. Adequate decontamination of the surgical site.
4. Minimal post operative pain
5. Quick healing.
6. Extremely useful in treating peri-implantitis

We are using the AMD Picasso Diode Laser, as shown in the Picture above.

### Orthodontics:

One of the Orthodontic procedures that we commonly do is the

1. Correction of malocclusion. There are various problems associated with malocclusion. For example,
  1. Increased risk of caries.
  2. Periodontal abscess.
  3. Poor facial appearance.
  4. Psychological disturbances.
  5. Risk of trauma (traumatic bite).
  6. Temporomandibular joint problems.

Photos below show the abnormal occlusions corrected in our set up.

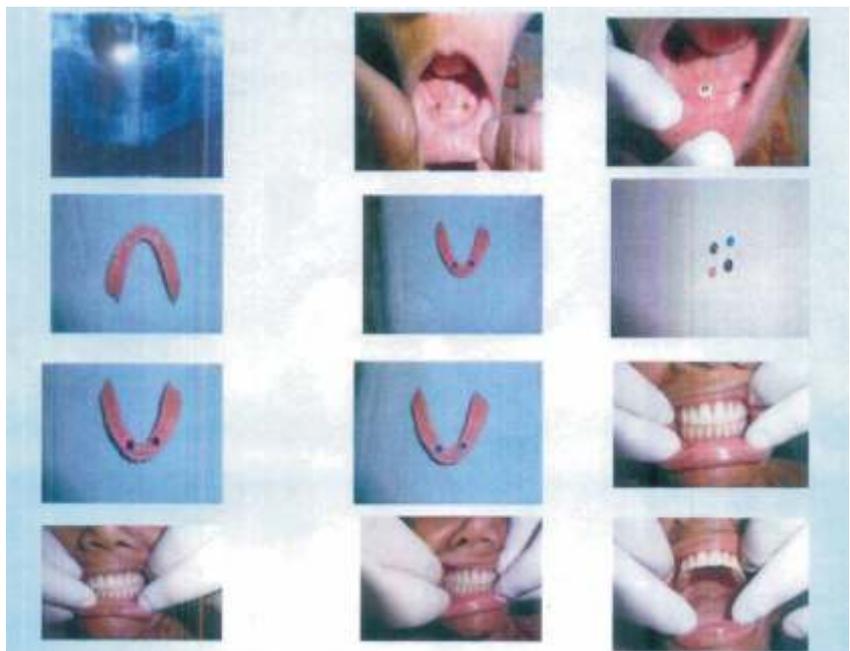
#### Malocclusion (before)



#### Normal alignment (after correction)



#### 2. Over Dentures



### 3. Correction of an open bite.

The cast in the picture below shows the abnormal open bite, which has an abnormal facial appearance as seen in the face profile.



We can see a remarkable change in the reduction in open bite by use of appropriate braces and a consequent change in the facial profile.



This is then to be followed by the use of appropriate retainers, as shown in the photos below, to maintain the ideal alignment achieved.

### Other advanced instruments used in our set up:



1. Shade selector: for easy selection of the shade of teeth.



2. Osstem Implant kit.



3. Intra oral Camera: used to have a close and clear look of the dental pathology.

### Hawley's temporary Retainer



### A Permanent Retainer.



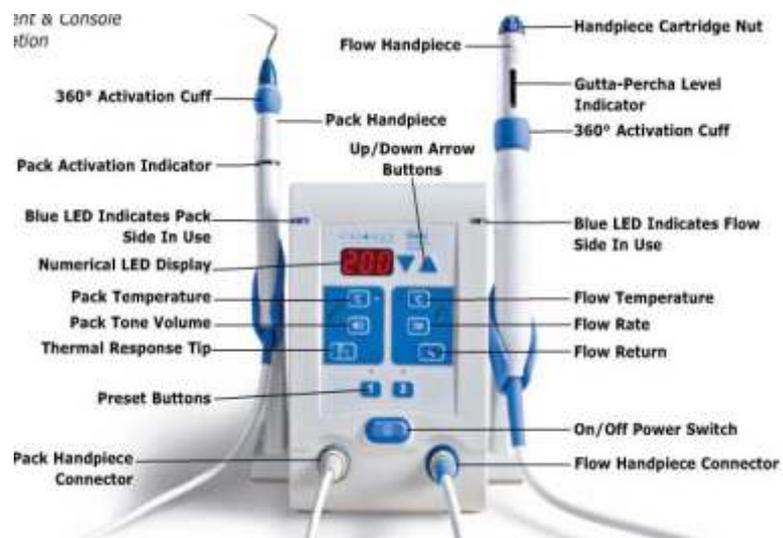
## 4. Use of modern gadgets for root canal procedure



**The Endo activator.**



**The Apex Locator.**



**The Camus Dual**

These ultramodern gadgets improve precision, reduce pain and decrease the overall time required for the root canal procedure. We endeavour to abreast ourselves to use this modern technology, and to make it tangible to the underprivileged, who deserve to enjoy good oral health as much as people from the affluent class.

## *Now its Quiz time !*

Following is the photograph of a two day old newborn.



- Q1. What is this physical finding called?
- Q2. Name any two syndromes associated with it.
- Q3. What is the sensory organ most likely to be affected in such newborns?

*First Three Winners  
will get  
Attractive Prizes.*

Please send your suggestions /  
queries to [abhishekarlikar@gmail.com](mailto:abhishekarlikar@gmail.com)

Please send your answers at the following address  
within a week of receipt of this volume  
Your answers are welcome

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