

Dental Apogee



ISSUE - 1

Biannual Official Newsletter Of K.M.Shah Dental College & Hospital

Sumandeep Vidhyapeeth

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NAAC 'A' Grade University with Highest CGPA (3.53) in Gujarat
and Conferred with UGC-CATEGORY-1 status.

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Message From The Editor-In-Chief

"The only true wisdom is in knowing you know nothing." — Socrates

Its often when mere few changes can make a massive difference to a community like the ones wrought by those whose mind do not rest, those whose thirst to knowledge is never quenched. And its contribution of such minds that makes the Socrates quote above so apt.

And on this note, we the Editorial Board present you with the Februray Issue of Dental Apogee - Our Biannual Newsletter.



MESSAGE FROM THE DEAN

Dr. Bhavna Dave (DEAN, KMSDCH)

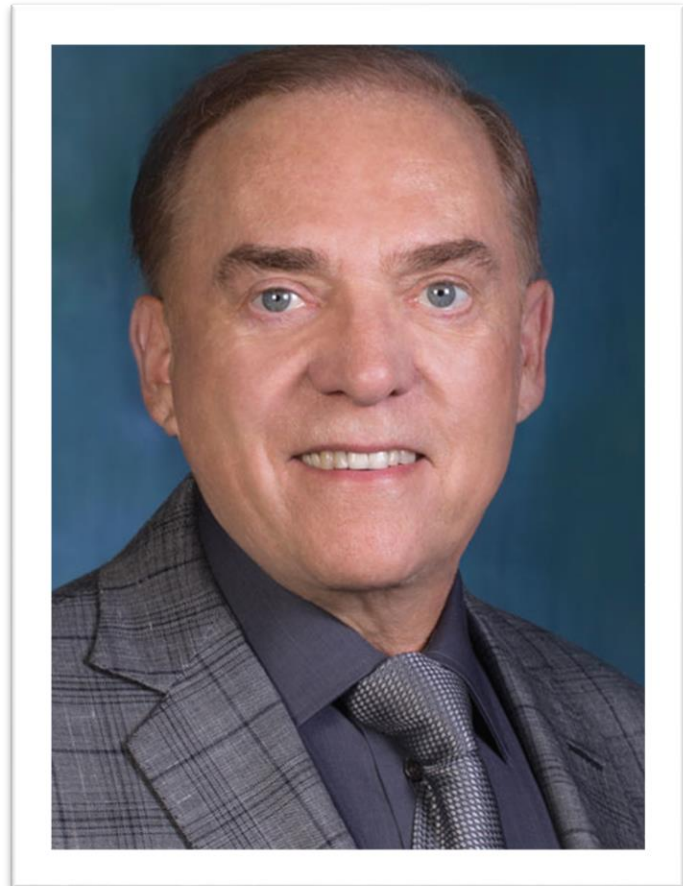
K. M. Shah Dental College & Hospital has always encouraged all its students to broaden their horizons and push themselves forward to gather maximum knowledge for the benefit of the patients and society. New ideas have always been welcomed by this institute through research work and programmes like evidence based dentistry that we believe cultivates all students to do better. Knowledge is transitional and sharing it becomes a powerful mode of experiencing wisdom. Hence, I would like to request all students to go ahead and read this newsletter and explore various ideas and inventions in this wide world of dentistry. I extend my heartiest blessings to all students, faculty and the editorial board for a great issue.

I hope you all enjoy reading it.



KNOW YOUR SCIENTIST

DR. GERALD A. NIZNICK, DMD, MSD, a researcher, innovator, implantologist. Barron's Magazine Article of Dental Implant Industry, referred to Dr. Niznick as 'a prosthodontist and entrepreneur who is considered by many as the Godfather of American Implant Dentistry'. By the late 80s, Niznick developed four different types of implant designs. In 1990, the philosophies of these four implant designs, Core-Vent, Screw-Vent, Micro-Vent and Bio-Vent, were synthesized into a protocol and the implants were relaunched as Spectra-System. Niznick developed industry's first "lights out" 24/7 manufacturing facility, reducing costs while maintaining highest precision and quality. His revolutionary contributions to Implant Dentistry have been recognised nationally and internationally by academic institutions and dental implant organisations. He is a recipient of Honorary Doctorate degrees, among his professional awards is the Isaah Lew Research award from the American Academy of awards, Alpha Omega Dental Fraternity's highest honour, the Achievement medal, and a commendation from the United States Department of Veteran Affairs for conceiving and funding the largest dental implant study worldwide.



HERBAL CORNER

Dinosaurs grew new teeth when one was lost or broken.

Biting down can exert 55 pounds of pressure on your front teeth and over 200 pounds on your back teeth.

It takes 43 muscles to frown.
It only takes 17 to smile.

It was customary during the middle ages to kiss a donkey if you had a toothache.

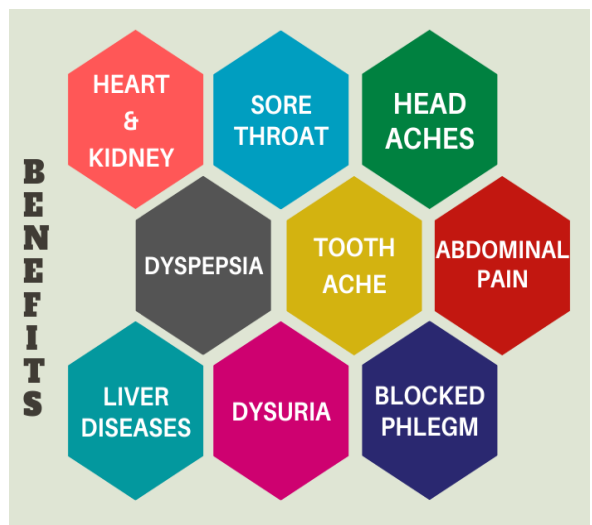
TOOTHACHE TREE is known for its peculiar sharp attributes and used in many herbal medicines. The bark skin of this tree is pungent like chilly. All parts of the plant, especially the fruit, bark and roots are used for medicinal purposes. It is used to treat many diseases and disorders such as in cases of rheumatism, spasmodic, diuretic, irritant, odontalgic, stimulant, etc. These are generally found in Himalaya region, Southeastern USA.

Parts Used

Fruit

Root

Bark Skin



- Contains Xanthoxylol oil
- The fruits are used as anti-spasmodic, carminative & anti-rheumatic.
- Inner Bark used for tea & treating of itchy skin.
- Taste – pungent
- Actions – Relieves Dental pain, appetizers, digestant.

Coronaviruses are a group of related viruses that cause diseases in mammals and birds. In humans, coronaviruses cause respiratory tract infections that can range from mild to lethal.

Mild illnesses include some cases of the common cold (which has other possible causes, predominantly rhinoviruses)

While more lethal varieties can cause SARS, MERS, and COVID-19. **Symptoms** in other species vary: in chickens, they cause an upper respiratory tract disease, while in cows and pigs they cause diarrhea.

PLASMAPHERESIS OR TPE

- Therapeutic plasma exchange (TPE), also known as plasmapheresis, removes and replaces a patient's blood plasma
- TPE is used in the treatment of various autoimmune diseases, in which the body recognizes a part of itself as foreign and generates proteins, called autoantibodies.
- During this therapy, small amounts of blood are gradually removed through an inserted needle or central line catheter and circulated through a machine that portion blood into a plasma substitute added to your own blood cells (red cells, white cells, and platelets).
- They are returned by intravenous or central venous catheter access.
- The plasma is discarded in a waste bag. One procedure typically removes 65 to 70 percent of the disease-causing proteins (antibodies) in the plasma.

Diseases Treated by Therapeutic Plasma Exchange

- Multiple sclerosis
- Recurrent-focal segmental glomerulosclerosis
- Myasthenia gravis.
- Neuromyelitis optica.

What to Expect During Plasma Exchange.?

Plasma exchange is a safe procedure with a few side effects. If intravenous catheters are placed, the arms will be propped on pillows and you will be asked to intermittently pump a fist to help promote blood flow. One may experience bruising or discomfort at the insertion sites. If a larger catheter or port is used, one will have free use of their arms during the procedure.

How to Prepare for Plasma Exchange?

Prior to a procedure, we recommend drinking large amounts of non-carbonated, non-alcoholic beverages a couple of days prior to the procedure. We also recommend eating prior to your scheduled procedure. Since plasma exchange can affect levels of circulating medication, we recommend discussing with your regular physician if they should be taken after, instead of prior, to our procedure.

REPAIR DAMAGE DENTURE???!?

TISSUE CONDITIONING

Tissue conditioning is an effort to restore the health of the tissues of the denture foundation area before master impressions are made by relining the dentures with temporary denture liners.

TISSUE CONDITIONER

Tissue conditioners are short-term soft liners, formed in situ from a mixture of a polymer powder and a liquid plasticizer.

USES

- 1) improve the fit and function of an ill-fitting denture.
- 2) make denture wearing less hurtful by protecting the oral mucosa.



➤The polymer powder, used in the formulation of TCs generally consists of polyethyl methacrylate (PEMA) and the liquid plasticizer is ester-based in ethyl alcohol solution without an acrylic monomer.

➤Mixing of the powder and liquid results in polymer chain entanglement and the formation of a coherent gel characterized by viscoelastic behavior appropriate to its intended clinical use.

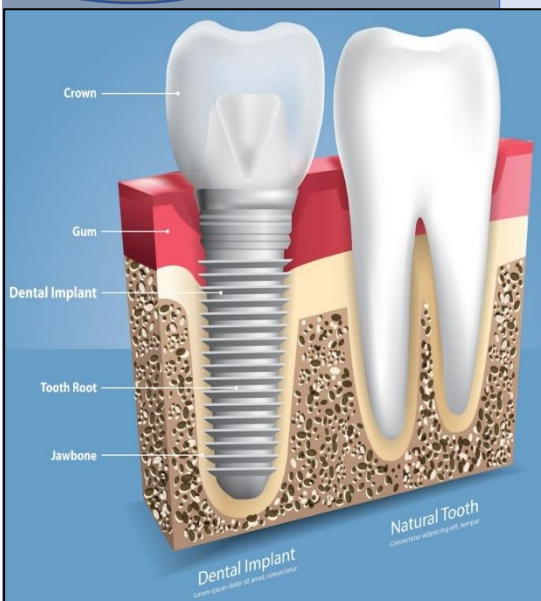
IMMEDIATE LOADING IMPLANTS

What are Dental Implants?

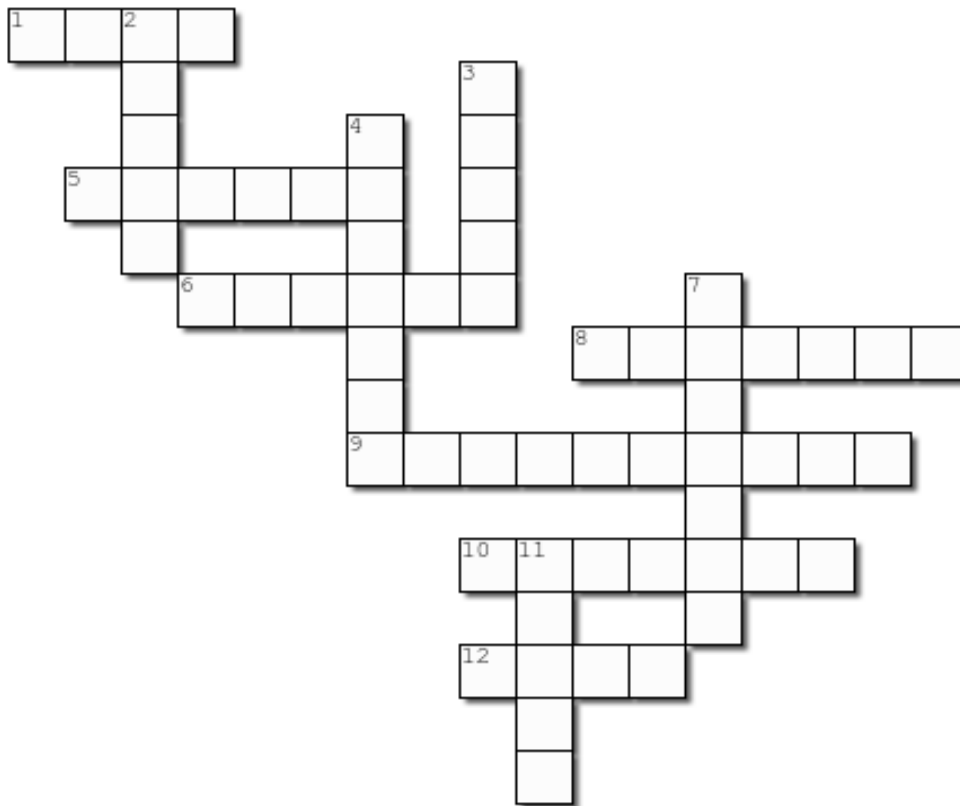
Dental implants are metal posts or frames that are surgically positioned into the jawbone beneath your gums. Once in place, they allow your dentist to mount replacement teeth onto them.

Modern dentistry have witnessed, a rapid and continuing evolution. Concerning the implant-rehabilitation protocols, they have been redefined in order to satisfy patient's increasing expectations in terms of comfort, aesthetic and shorter treatment period. When it comes to the timing of procedure, three protocols for implant load timing have been classified: Immediate loading implants (ILI); Early loading implants (ELI); and Conventional loading implants (CLI). The determinant and most accessible parameter to assess the primary stability is the implant insertion torque value [consumed electric current during tapping or **implant insertion** by a motor unit-connected computer and is indirectly a **value** of the primary **implant** stability]. To achieve the necessary torque value to perform immediate loading, it is therefore important to evaluate the bone density at the implant site. Computerized tomography (CT) has been regarded as the best radiographic method to evaluate the residual bone.

The clinical success of this technique is highly dependent on many factors: patient selection, bone quality and quantity, implant number and design, implant primary stability, occlusal loading and clinician's surgical ability. Among these, implant primary stability is undoubtedly the most important. Studies on ILI show that successful outcome can be expected, if the previous criteria are fulfilled. It seems that ILI demonstrate a greater risk for implant failure when compared to CLI, although the survival rates were high for both the procedures.



CROSSWORD



Created using the Crossword Maker on TheTeachersCorner.net

Across

1. Soft tissue lining of the mouth which surround the teeth .
5. A pitted area in a tooth caused by caries.
6. Make the surface of (something) smooth and shiny by rubbing it.
8. A thorough examination, especially a medical or dental one, to detect any problems.
9. The action of taking away or abolishing something unwanted.
10. Important for esthetics.
12. Picture taken of the inside of something using high energy electromagnetic radiation with short wavelengths.

Down

2. The one that performs grinding of your food.
3. Hard, calcified structure found in the jaws.
4. Conditions conducive to maintaining health and preventing disease, especially through cleanliness.
7. Who are you ?
11. A person trained to care for the sick, especially in a hospital.

