



Misch International Implant Institute

Randolph R. Resnik, DMD, MDS ~ Director

"Advancing a Legacy of Educational Excellence for over 35 years"

248-642-3199

JANUARY 2021

Upcoming Sessions



ORLANDO

Margaritaville Resort Hotel
Orlando, Florida

Session 5

March 5-6, 2021

Immediate Placement & Loading,
Tx of Peri-Implant Disease

Prosthetic Boot Camp

March 25-27, 2021

Fixed & Removable Prosthetics
in Oral Implantology



Sign up for
the next
Misch Course

FEATURED ARTICLE

PROTON PUMP INHIBITORS: Do They Cause Implant Complications?



DALLAS

Westin Irving Convention Center
Las Colinas - Dallas, TX

Session 1

April 16-17, 2021

Socket Grafting, Treatment Planning, &
Implant Placement into Abundant Bone

Session 2

June 11-12, 2021

Multiple Edentulous & Complete Arch
Implant Treatment



Proton pump inhibitors (PPIs) [Omeprazole, Lansoprazole, Pantoprazole, and Rabeprazole] are among the most frequently prescribed medications in the United States. PPIs are most commonly used for the prevention and treatment of gastroesophageal reflux disease (GERD) and esophageal/duodenal/stomach ulcers. These medications result in an irreversible

inhibition of the proton pump in gastric parietal cells, thereby suppressing gastric acid secretion. Recently, there have been numerous reports suggesting that patients taking PPIs may be predisposed to compromised bone hemostasis and an increased dental implant complication rate.

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MISCH COMPLETE COURSE SCHEDULE

SURGICAL SESSION Orlando

Session 5

January 15-16, 2021

Immediate Placement & Loading, Soft Tissue Considerations

SURGICAL SESSION Dallas

Session 1

April 16-17, 2021

Patient Evaluation, Treatment Planning, & Implant Placement into Abundant Bone

Session 2

June 11-12, 2021

Multiple Implant Placement and Treatment of the Edentulous Arch

CBCT BOOT CAMP

July 22, 2021

Session 3

July 23-24, 2021

Implant Placement & Bone Augmentation into Compromised Sites

Session 4

September 24-25, 2021

Treatment of the Posterior Maxilla: Osteotome & Lateral Wall Technique

Session 5

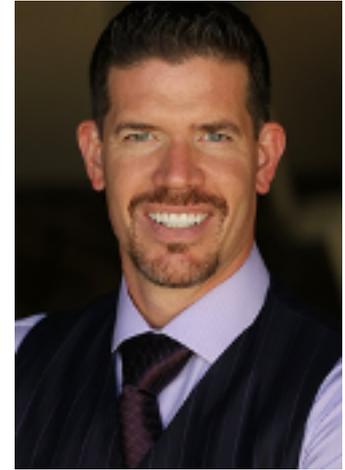
November 12-13, 2021

Immediate Placement & Loading, Soft Tissue Considerations

FACULTY HIGHLIGHT

WELCOME Dr. John Nosti as our newest faculty member

JOHN NOSTI, DMD, FAGD, FACE, FICOI



The Misch Implant Institute would like to welcome Dr. John R. Nosti as the newest member of the Misch Institute faculty. As a world renown restorative and cosmetic dentist from Mays Landing, NJ, Dr. Nosti brings a wealth of knowledge especially with functional cosmetics, full mouth rehabilitation procedures, and TMJ dysfunction. As Clinical Director of the Clinical Mastery Series, he has co-authored their restorative continuum.

DVD series. Dr. Nosti is a consistent speaker at various dental conferences, including the annual sessions for the American Academy of Cosmetic Dentistry and Academy of General Dentistry. He is an adjunct professor at the Arizona School of Dentistry and Oral Health. In addition, he holds fellowships in the Academy of General Dentistry, International Congress of Oral Implantology and Academy of Comprehensive Esthetics.



Follow Dr. Resnik on Instagram
#drrandolphresnik for weekly tips

PROTON PUMP INHIBITORS: Do They Cause Implant Complications?

PPIs EFFECTS ON BONE:¹

- Impairs calcium absorption via decreased stomach acid
- Reduces osteoclast activity
- Decreases osteoclastic differentiation mediated by osteoblasts
- Impedes collagen cross-linking
- Increases parathyroid hormone levels which increases calcium release from the bone (decreases bone density)

PPIs EFFECTS ON DENTAL IMPLANTS:

Decreased Bone Density: Al Subaie et al.² concluded that the use of PPIs results in a decreased bone mineral content, thinner cortical bone, and decreased bone-implant contact.

Increased Crestal Bone Loss: Ursomanno et al.³ reported that PPI medications are associated with greater crestal alveolar bone loss at implant sites resulting in increased implant

thread exposure.

Increased Failure Rate: Wu et al.⁴ in a cohort study showed twice the failure rate of dental implants with patients taking PPIs. Chrcanovic et al.⁵ reported a threefold difference in implant failure between PPI and non-PPI users.

Compromised Bone Regeneration: Xe et al.⁶ concluded that PPIs reduce calcium availability by increasing the pH in the small intestine. This has been shown to accelerate bone loss and negatively affects bone regeneration.

CONCLUSIONS

Patients presenting for dental implants which are taking PPIs are not contraindicated from having dental implants. However, because of the reported detrimental effects PPIs have on bone, it is advisable to inform patients of the increased risk for dental implant complications. Clinicians should emphasize the importance of more frequent maintenance appointments and reduction of parafunctional habits.

1. Altay, Mehmet Ali, et al. "Proton pump inhibitor intake negatively affects the osseointegration of dental implants: a retrospective study." *Journal of the Korean Association of Oral and Maxillofacial Surgeons* 45.3 (2019): 135-140. 2. Al Subaie A, 2016. Systemic administration of omeprazole interferes with bone healing and implant osseointegration: an in vivo study on rat tibiae. *J Clin Periodontol.* 43:193-203. 3. Ursomanno, , et al. "Effect of Proton Pump Inhibitors on Bone Loss at Dental Implants." *International Journal of Oral & Maxillofacial Implants* 35.1 (2020). 4. Wu, Xixi, et al. "Proton pump inhibitors and the risk of osseointegrated dental implant failure: a cohort study." *Clinical implant dentistry and related research* 19.2 (2017): 222-232. 5. Chrcanovic, (2017). Intake of Proton Pump Inhibitors Is Associated with an Increased Risk of Dental Implant Failure. *The International Journal of Oral & Maxillofacial Implants*, 32(5), 1097-1102. 6. Ye X2011. Proton pump inhibitors therapy and risk of hip fracture: systematic review and meta-analysis. *Eur J Gastroenterol Hepatol.* 23:794-800.



Instagram Post Contest

Congratulations to Dr. Jason Baker for winning the January Instagram Contest (\$250. Voucher). Please keep posting and sharing #mischinstitute to be eligible for the February contest.

[#mischinstitute](#)



[Click to Join](#)

Did You Know ?

If you have taken Misch courses in the past, you are eligible to sign up and join our "WhatsApp". This forum allows doctors to present cases and ask questions and is followed by Dr. Resnik and the Faculty.



[#drrandolphresnik](#)

Follow Dr. Resnik on Instagram for weekly questions and tips!

TREVISANI'S CORNER



How to Protect your Assets

Dr. Ronald J. Trevisani is a Board Certified Oral and Maxillofacial Surgeon, Pharmacist, and an Attorney. As a Misch Institute faculty member, he has a passion for teaching clinical dentistry as well as advising dentists from a legal perspective on protecting your assets.

Dentists choose to attend school for an extended time, at considerable expense, and sacrifice many personal and professional opportunities to achieve this goal. After a few years in private practice, they may achieve significant wealth accumulation. These likely include professional wages and salary, personal savings, real estate assets, and other associated business entities. These assets may be at risk if a judgment is held against them in a Court of Law. It's not just professional malpractice concerns that we are worried about. Risk of lawsuits may also come from Divorce, automobile accidents, business contract disputes, employees, and the IRS, among others.

Although most Estate Planning Statutes and Asset Protection considerations are State specific, this article will include a few Tips for Dentists that are common across jurisdictions in one form or another. The goal is to have successful Dentists enjoy many additional years in their practices without the worry of catastrophic financial loss due to an untoward event or circumstance. We plan to have a Series of Financial articles to address the many concerns of the average dentist. By considering these Asset protection Tips, one may minimize their financial risk to creditors. One does not have to wait until they accumulate a certain amount of assets. Also, earlier planning far exceeds any planning in response to a letter from an attorney or a judgment in a Court of Law. Lets begin.

1) MALPRACTICE INSURANCE:

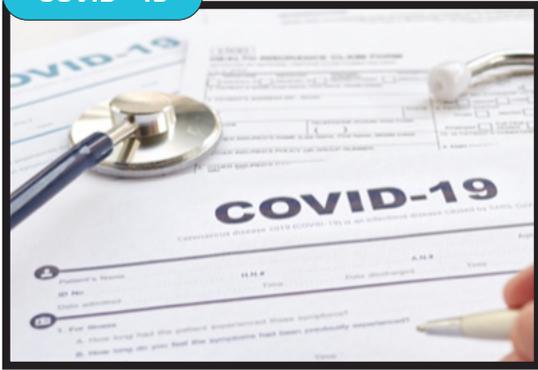
Studies have shown that on average, a dentist will be sued at least once in their career. 1 Therefore, it is imperative that the dentist secure adequate coverage to protect their assets. If a judgement goes beyond the policy limits, the dentist is responsible for this amount. This could result in financial catastrophe for a dentist. One option to minimize this possibility is to obtain an Umbrella Insurance Policy, which will be discussed in the second article of this series.

The second recommendation concerning malpractice insurance is to secure a sufficient amount of insurance. It is common for dentists to have a 1M/3M policy coverage, with Oral Surgeons usually carrying a 2M/6M coverage. It is essential that dentists understand these limits. In the 1M/3M example, the \$ 1,000,000. is the "per patient limit" and is the most the insurance company will pay for damages for one patient. The "total limit" (\$ 3,000,000) is the maximum the insurance company will pay for claims during the policy period. In general, the more coverage the dentist has, the higher the premiums, and the higher the level of protection.

This is the initial article in a Financial Series to benefit Dentists in their quest to protect themselves, decrease their level of stress, and minimize their financial risk before and after retirement.

* Dr. Trevisani may be reached with comments or questions at rontrev001@gmail.com

1. Medical Protective internal data. http://seattletimes.com/html/localnews/2021413726_dentistverdict.xml.html Medical Protective Closed Claims Analysis, 2003-2012.



The Misch Institute is dedicated to providing a safe, healthy environment for our future meetings. Strict social-distancing protocols will be implemented along with COVID-19 prevention supplies being made available to all staff and attendees. In addition, the Misch Institute has integrated the following CDC recommended strategies and guidelines;

NEW MEETING GUIDELINES DUE TO COVID - 19

- All lectures will be in an enlarged space (Main Ballroom)
- One attendee per 6-foot table
- Enlarged Exhibitor space and tables
- Hand Sanitizer , Disposable Facemasks, and Trash Baskets available
- Service stations to be sanitized once per hour along with common and high-traffic areas
- Coffee and other breakout times will be served with disposable cups.
- Bottled water in lieu of water carafes on meeting tables
- Temperature evaluation and questionnaire completion prior to meeting

The Misch Institute along with the Margaritaville Resort and Hotel will continually monitor the latest CDC guidelines and implement new policies as necessary. We appreciate everyone's understanding and flexibility with this very difficult situation. If you have any questions, please contact Heidi at 248-642-3199.

~ Randolph R. Resnik DMD, MDS
Director of Misch Institute

QUESTIONS OF THE MONTH



1 CBCT Question of the Month

■ A 65-year old male presented with pain in the maxillary left posterior region and nasal congestion. Upon radiographic CBCT evaluation, the coronal image depicts an **opacified sinus** with a **focal radiodense mass**. No bony expansion or erosion of the sinus walls are present.
What is this sinus pathology?

2 Implant Question of the Month

Cigarette smoking remains the leading cause of preventable disease, disability and death in the United States, accounting for more than 480,000 deaths every year, or about 1 in 5 deaths. Smoking during dental implant treatment may adversely affect wound healing and jeopardize the success of bone grafting and dental implants.

■ **What percent of patients (> 18 yrs.) currently smoke cigarettes in the United States?**

- a. 5 %
- b. 14 %
- c. 21 %
- d. 36 %

3 Interesting Statistics

How Often Do Implant Patients Return for Recall Examinations??

■ In a recent study, patients were polled on how often they returned to their dentist for recall/hygiene examinations after implant treatment. **What percentage of patients return for 6-month recall examination?**

- a. 84 %
- b. 62 %
- c. 36 %
- d. 25 %

Krishnan, Preethi, Dhanraj Ganapathy, and Antonette Rhea. "Knowledge of oral hygiene measures in patient with dental implants." Drug Invention Today 13.3 (2020).

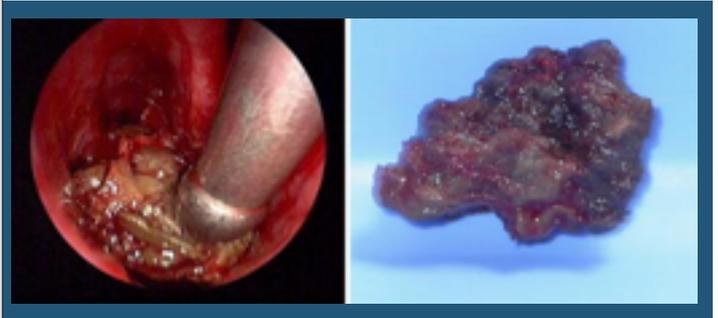
ANSWERS to the QUESTIONS of the MONTH



1 CBCT Question of the Month

Fungal Rhinosinusitis (Non-Invasive)

- Fungal disease (Rhinosinusitis) of the maxillary sinus is divided into two forms: invasive and non-invasive. Radiographically, the non-invasive form appears as unilateral complete opacification with focal areas of hyperdense foci (Fungal Balls). Fungal balls are usually caused by the fungus *Aspergillus* and bacteria which clump together and form the mass.
- Treatment involves the removal of the fungal ball via endoscopic sinus surgery.



2 Implant Question of the Month

B = Approximately 14% of the US population smoke

Additional Stats:

- * Europe = 27% smoking prevalence
- * Country with Highest Prevalence = Greece 42%
- Heat and the toxic by-products of cigarette smoking (e.g., nicotine, carbon monoxide, and hydrogen cyanide) have been implicated as risk factors for impaired healing and complications from the dental implant process.

https://www.cdc.gov/tobacco/data_statistics/fact_sheets/fast_facts/index.htm#beginning

3 Interesting Statistics

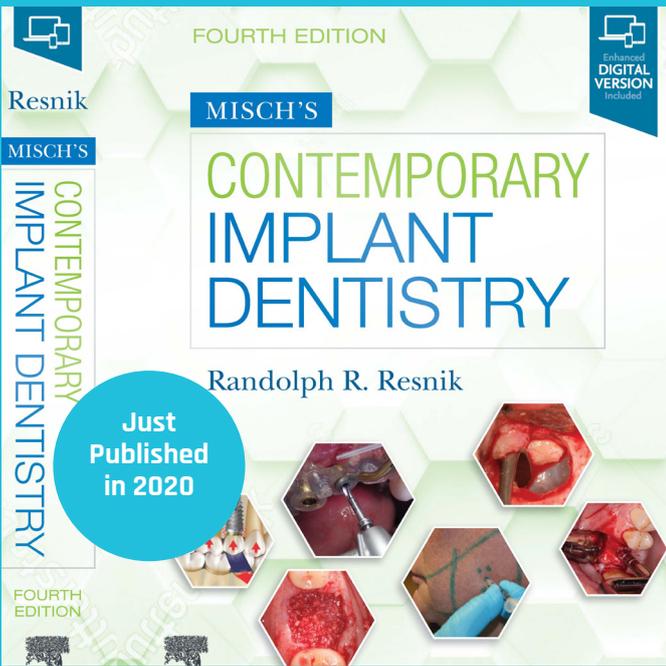
C = 36% of patients return for a 6-month recall

Additional Stats:

- 4 % return every 3 months
- 23 % return once/year
- 37 % return only when a problem arises



Misch International
Implant Institute



4th Edition
CONTEMPORARY IMPLANT DENTISTRY
by Randolph R. Resnik, DMD, MDS

“a must read...”

“most comprehensive reference available..”

~ Gordon Christensen, DDS, MSD, PhD

“an all-inclusive reference book for implants...”

“tailored for both the new and seasoned implant dentist “

~John Cianciola, DDS
 Periodontist, Arizona

* Available at Amazon.com or Elsevier.com

Misch's
AVOIDING COMPLICATIONS
IN ORAL IMPLANTOLOGY

by Randolph R. Resnik DMD, MDS
Carl E. Misch DDS, MDS

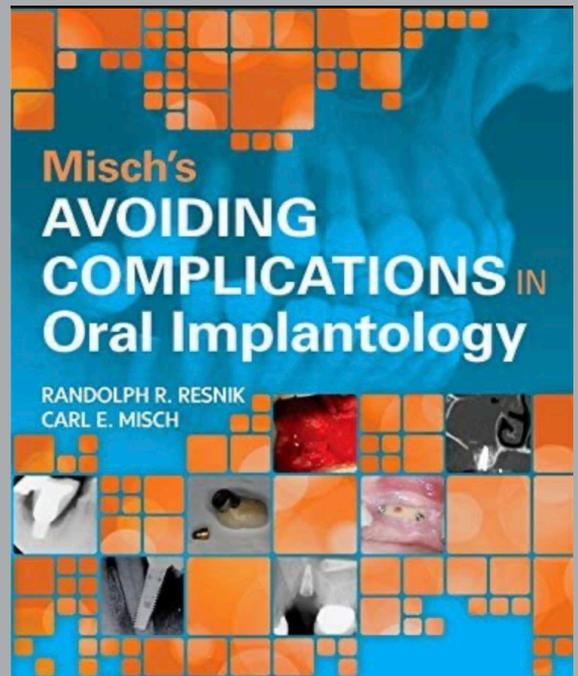
“best implant book from the best implantologists”

~ Dr. Eun Young Cho (Amazon)

“Super recommended...if you are studying or placing implants, this book is indispensable.”

~ Dr. Rodrigo Cuevas

* Available at Amazon.com or Elsevier.com



Read Dr. Resnik's Latest Article:
Guided Bone Regeneration:
8 Steps to Successful
Ridge Augmentation

