



Choices

Drew Markham, DDS, LVIF, IACA President Elect

Life is about choices – our current status in life is the result of thousands of choices – many made by ourselves and some made by others (parents, government, friends). One of the nice things about getting older and having more resources and experience, is that we tend to not be as affected by the choices of others and have more control over making the ones that will fulfill us the most.

As members of the IACA, we have many previous decisions in common – going to dental school, becoming involved in neuromuscular dentistry, and joining the IACA. Previous surveys as well as my own personal anecdotal evidence suggest that we are proud of all of those decisions.

Attending the actual conference is another choice that some members make consistently, while others have chosen to attend occasionally or not at all. Any level of support is appreciated, but the Board feels very strongly that the decision to attend is a win-win for everyone. Higher attendance allows the Board to plan for a larger event from speakers to entertainment. Besides consistently bringing elite content to our members, it allows us to recruit more vendors and sponsors which are also vital to our existence. This is passed along to the attendees in the form of savings on goods and services. It allows all of those in attendance increased opportunities to network and simply learn from the experiences of colleagues around the world. In reality this is a case of “the more, the merrier!”

These ideas are not new, but I would also like to reach out to those who have chosen not to join us in Atlantis. Your membership is still important, but I feel that membership to this organization comes with an implied responsibility to do your part in supporting it. It can take many forms which can include:

Taking a colleague to an LVI Regional Event (and attending yourself).

Making the commitment to attend a future IACA meeting by writing down and executing a plan.

Presenting NM dentistry to colleagues at a study club or local dental meeting.

YOU have the power to make the choices that will not only support this organization, but yourself. As a Board our first choice is always for as many as possible to attend the meetings, but there are still plenty of ways to be active within the IACA.

The take home message is that only through the efforts of many, will the vision of the few who originated this organization be achieved. Please engage yourself in this meaningful quest!

See you in Atlantis (and beyond)!



Bisphosphonate-Related Osteonecrosis of the Jaw (BRONJ): Prevention by Low-Intensity Pulsed Ultrasound (LIPUS) in a Rat Model.

Hidaka KI, Saita M, Kawamata R, et al., J Orthop Trauma. 2014 Jun;28(6):S2-3. doi: 10.1097/01.bot.0000450467.90398.b3

Researchers hypothesized that loss of occlusal force caused by tooth extraction and bacterial infection increases the risk of bisphosphonate-related osteonecrosis of the jaw (BRONJ). If mechanical stimulation is required to sustain remodeling and prevent osteoblast apoptosis, then tooth extraction will induce BRONJ. The aim of this study was to induce BRONJ in a rat model through tooth extraction and to test whether LIPUS exposure can prevent BRONJ.

METHODS:

To evaluate the effect of LIPUS exposure, we removed maxillary first molars from female ovariectomized rats following 4 weeks of subcutaneous alendronate administration. In addition, *Porphyromonas gingivalis* was topically applied to the molar during the last 3 weeks. LIPUS was applied extrabuccally to the extraction socket 5 times a week for 4 weeks in LIPUS-treated cells and was not applied in non-LIPUS-treated cells.

RESULTS AND DISCUSSION:

In rats given alendronate and not LIPUS, delayed healing of the epithelium and alveolar bone was observed in the socket. In addition, there were involucrum sequestra in which the epithelial invaginations contained pieces of necrotic bone. In rats given alendronate with LIPUS, wounds healed normally, as judged by the restored activity of TRAP and ALP. In this rat model, we showed that tooth removal resulted in BRONJ-like pathology. LIPUS exposure can prevent BRONJ, perhaps by providing an alternative mechanical stimulus which inhibited inflammation. LIPUS normalized the healing process in the wound and the alveolar bone.

PMID:

24854462 [PubMed - in process]

Malignant transformation of oral lichen planus by a chronic inflammatory process. Use of topical corticosteroids to prevent this progression?

Otero-Rey EM, Suarez-Alen F, Peñamaria-Mallon M, et al., Acta Odontol Scand. 2014 May 22:1-8.

Oral lichen planus is a potentially malignant disorder with a capacity, although low, for malignant transformation. Of all the factors related to the process of malignant transformation, it is believed that the chronic inflammatory process plays a key role in the development of oral cancer. This inflammatory process is capable of providing a micro-environment based on different inflammatory cells and molecules that affect cellular growth, proliferation and differentiation.

The objectives of our study are: to review the available evidence about the possible relationship between the chronic inflammatory process present in oral lichen planus and its malignant transformation, to discuss the potential therapeutic implications derived from this relationship and to study the role that topical corticosteroids play in the control of oral lichen planus inflammation and its possible progression to malignant transformation. **Conclusion:** The maintenance of a minimum dose of topical corticosteroids could prevent the inflammatory progression of oral lichen planus to oral cancer.

PMID: 24850508 [PubMed - as supplied by publisher]

<http://www.ncbi.nlm.nih.gov/pubmed/24850508>

Is there a Perfect 10?

Dan Jenkins, DDS, LVIF, FACD, FICD, CDE-AADE



10 years ago the first IACA meeting was held in San Diego. The speakers were from various backgrounds. The attendees were excited over having a new meeting with a new structure of being open to all philosophies of dental treatment. Founder, Dr. William G. Dickerson and the first IACA president, Dr. Joe Barton, had determined to not only make this the premier dental organization, but for its meetings to be open; and for the presentations to be unique each annual meeting. This would assure that those who came every year would have new things to learn.

10 years have passed and their idea of having each year's presentations be unique has been followed. The presentations have not only been on various topics, (cosmetics, physiological neuromuscular TMJ dentistry, implants, new materials and equipment, nutrition, sedation, endodontics, sleep dentistry, and much more!), but over these last ten years, not a single presentation has been duplicated! This assures that each year an attendee will learn something new.

10 plus years ago Gregory Hines was a famous innovative outstanding tap dancer. He was acknowledged as the best tap dancer that ever was – a perfect 10. Yet, in an interview he said he was always learning. In fact, he said he would literally travel across the world to learn just one new step to make himself better. IACA members are like that. With the various topics and various levels of instruction at an IACA meeting there is always something for each member to learn no matter what level of education they may be at...and it is worth it! Essentially, while many members might be considered a perfect 10 by their peers they know they could learn more. They still do not know “enough” to be a perfect 10.

10 is a score that many athletes strive for. **10** years is longer than many marriages last! **10** is a number accepted as perfection in beauty. **10** IACA meetings have been outstandingly perfect and they have kept getting better each year.

I hope to see each of you at this year's meeting at the Atlantis Resort as we all seek to reach that perfect ten and like Gregory Hines, learn at least that “one new step” as we seek answers in treatment for our patients!



A promotional poster for a pirate-themed event. The background is a dark blue night sky with palm trees in shades of red and yellow. In the center, a man dressed as Jack Sparrow from the movie 'Pirates of the Caribbean' stands next to a smiling woman in a black and white pirate costume with a large black hat. The text 'After Dark' is written in a large, yellow, stylized font across the middle. Below it, a scroll contains the text 'Pirates of the Caribbean'. Further down, more text in yellow font describes the event: 'Join the fun dressed in your best Pirate garb' and '9:30pm on July 25th, 2014'. At the bottom left, it says 'Credentials Required must be 18+ to attend'. At the bottom right, there is a logo for 'Protech dental studio' with the text 'sponsored by' above it.

After Dark

Pirates of the Caribbean

Join the fun
dressed in your best Pirate garb

9:30pm on July 25th, 2014

Credentials Required
must be 18+ to attend

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Protech
dental studio