Everyday Dentistry

Why Lasers, Why Now?

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What is Everyday Dentistry?
How can we improve the Dental care we provide to our patients on a daily basis?
How is Dentistry changing?
- Technology is improving Dental care
- Cosmetic procedures are increasing
- People are more knowledgeable of Dental procedures
after
What is your view of how dentistry is progressing?

Are you seeing more patients?

Are you providing more services?

How do you perceive Technology?
The Good Life
Cash For Clunkers
Some Questions to Ask

• Is your practice successful?
  Was incorporating technology part of your success?

• When would be a better time to incorporate technology that differentiates your practice and positions your practice for the future?

• How can we provide better care to our patients?
How could you make your practice more successful?

- See more patients.
- Charge More
- Do more procedures on each patient.
- Have more fun
- Provide better care for your patients
- Try new technologies
With Technology

This is how you can differentiate yourself from other dentists to attract new patients.
What type of laser is right for you?

- Er,Cr:YSGG
- Nd:YAG
- Er:YAG
- Diode
Questions to Ask

• Fact: Lasers *have* become a part of dentistry
• What do you know about Lasers?
• What do you want to learn?
• Can your practice benefit from Laser Technology?
• Would Lasers help you do better dentistry?
• What is holding you back from incorporating Laser Technology into your practice?
More questions to ask?

• What does a dentist expect laser technology to do for their practice?
• How can we tailor laser technology to our office and practice style?
• How can we educate our patients?
What makes a Dentist successful?

- Training
- Training
- Training
- Training
What makes a Laser Dentist successful?

• Training
• Training
• Training
Luke Skywalker Yoda Koceja
Born Oct. 28th 2008
Laser Technology

• This is Different
• This is Better
• This is not Rocket Science
Energy, Pulse Menu, **ezlase™**

3 pages, 15 pre-sets

Beep – 3 levels
Aiming – 5 levels

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Tissue Effects

• To get an overall effect on tissues, all of the following factors come into play:
  1. Power density (watts per cm squared)
  2. Cooling of tissue
  3. Duration of exposure to laser
  4. Specific wavelength
  5. Emission mode
  6. Tissue characteristics
Soft Tissue Indications

• Hemostasis
• Crown troughing
• Sulcular debridement
• Gingivectomy/gingivoplasty
• Frenectomy/frenotomy
• Implant recovery
• Excisional/incisional biopsies
What About Laser-Assisted Periodontal Treatment?
Clinical Studies

Perio Articles and Implant Uncovering Article

Utilizing Lasers in Dental Hygiene

Combined with scaling and root planing
Benefits of Laser Periodontal treatment

- Non surgical treatment
- Higher Patient acceptance
- Motivates your Patients to become part of their treatment
- Increased hygiene production

Better Results
Differentiate your Practice
World’s Biggest Tongue Fibroma
Differentiate

• Do procedures you haven’t done in the past.
• Increases production.
• Do procedures better and more comfortable for your patient than the Dentist next door.
• Increases patient referrals
Diode vs. Electrosurgery

• Can use diode around metal
• Has zone of necrosis only 3-5 cells deep
• Perio applications
• Whitens teeth
• Desensitizes teeth
• Herpetic and aphthous ulcer treatment
• Marketing benefits
In Office Whitening

- 12 shades
- No Sensitivity
- Works every time
After
Laser Whitening

• Differences from past in-office whitening

• Advantages of laser application
  » Time
  » Penetration
  » Tissue Interaction

• Advantages to patient
  » Time
  » Sensitivity
  » Results
Commit

• To do better Dentistry everyday.
• Better Dentistry equates to more productive use of time.
• Better use time equates to greater production and income
Commit

• To change the perception of Dentistry.
• To draw a better quality of patients to your office.
Commit

- To provide the best in cutting edge technology available for Dentistry.
Commit

• To change your office and invigorate your staff.
• Show them the benefits of laser technology.
Incorporate
Incorporate

• Into multiple procedures per patient everyday.
• Increase production per appointment.
Incorporate

Into all aspects of

“Everyday Dentistry”
Ortho Induced Hyperplasia
Tooth Exposure For Bracket Placement
Operculectomy
Restorative Indications
Existing Denture Patients
Incorporate

- The laser that fits your needs.
- There are numerous lasers available.
Incorporate

• Pain management treatment into your practice
Low Level Laser Therapy
ezlase 940 nm
Therapeutic Indications

- FDA cleared indications
  - Temporary relief of minor muscle and joint pain and stiffness
  - Temporary relaxation of muscle
  - Temporary increase in local blood circulation
- Applicable Dental Procedures
  - TMJ Arthralgia (treatment of the Joint)
  - Myofacial Pain related to TMJ (treatment of the muscle related to painful trigger point)
  - Muscle relaxation related to pain and muscle stiffness after dental procedures or in general
A concentrated beam of energy is delivered to tissue via a small diameter 200-400 µm fiber tip, and upon contact tissue is vaporized and removed.

A diffused beam of energy size 35 x 8 mm is delivered to the tissue site over a period of time. The level of laser energy is low enough to have a therapeutic effect without any tissue destruction.
Therapeutic Mechanisms of Action

- Increased micro-circulation in tissue
- Photo-activation of inactive enzymes (catalysts) present in painful muscle cells

Normal Cell

- Improved cellular functions through increase of ATP (fuel for the cell) production in cells
TMJ Clinical Protocol – Therapeutic Settings

- Laser Coverage Area = 2.80 cm² (35 x 8 mm)
- Exposure Time (t) = 1 min and up to 10 min

<table>
<thead>
<tr>
<th>Method</th>
<th>Contact Mode</th>
<th>Power Setting (P)</th>
<th>Power Density</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>contact</td>
<td>2.0 - 2.5 W</td>
<td>0.71 - 0.89 W/cm²</td>
</tr>
<tr>
<td>2</td>
<td>Contact/non-contact</td>
<td>4.0 - 4.5 W</td>
<td>1.43 - 1.61 W/cm²</td>
</tr>
<tr>
<td>3</td>
<td>non-contact</td>
<td>5.0 - 5.5 W</td>
<td>1.79 – 1.96 W/cm²</td>
</tr>
</tbody>
</table>

- Settings vary depending on the type of skin and patient response
- Start at the lowest recommended setting (power and exposure time), and increase as necessary
- Therapeutic energies applied to any muscle or joint are measured in “Dose of energy”
  The formula to calculate the Dose is as follows: Dose [J] = P (W) x t (s)
• Treatment of Painful Trigger Points (Myofacial Pain)
  • Palpate masseter and temporalis to identify painful trigger points; mark each point with a small dot and the covered area.
  • VAS Pain measurements for each point pre- and post-
• Treatment of the Joint (TMJ Arthralgia)
  • Treat the joint at the three locations provided in the image to the right
Therapeutic Applications - Clinical Benefits

- Progressive/immediate relief of pain
- Reduction in muscle tenderness and stiffness
- Improved functionality of the affected
- Improve quality of life
- Gentle to tissue in comparison to other alternatives such as steroid injections, or appliances such as mouth guards
Finally…

• How would you like dentistry performed on you and your family?

• With outdated technology or with the most advanced, comfortable technology that is available today?

• If a Dentist successfully incorporates technology, are they more likely to incorporate more technology into their office?
Technology helps change Everyday Dentistry into “Extraordinary Dentistry”
Thank You
For your time and attention

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