JOE LOMBARDO Governor



DR. KRISTOPHER SANCHEZ

Director

PERRY FAIGIN NIKKI HAAG MARCEL F. SCHAERER Deputy Directors

A.L. HIGGINBOTHAM Executive Director

## DEPARTMENT OF BUSINESS AND INDUSTRY OFFICE OF NEVADA BOARDS, COMMISSIONS AND COUNCILS STANDARDS NEVADA STATE BOARD OF DENTAL EXAMINERS

## PUBLIC MEETING NOTICE & CE COMMITTEE MEETING AGENDA

**Meeting Date & Time** 

Thursday, April 24, 2025 6:00 p.m.

**Meeting Location** 

Nevada State Board of Dental Examiners 2651 N. Green Valley Pkwy, Ste. 104 Henderson, NV 89014

<u>Video Conferencing/ Teleconferencing Available</u>
<u>To access by phone,</u> +1(646) 568-7788

To access by video webinar,

https://us06web.zoom.us/j/82956950762

Webinar/Meeting ID#: 829 5695 0762 Webinar/Meeting Passcode: 093352

#### **PUBLIC NOTICE:**

<u>Public Comment by pre-submitted email/written form and Live Public Comment by teleconference</u> is available after roll call (beginning of meeting and prior to adjournment (end of meeting). Live Public Comment is limited to three (3) minutes for each individual.

Members of the public may submit public comment in written form to: **Nevada State Board of Dental Examiners**, **2651 N. Green Valley Pkwy, Ste. 104, Henderson, NV 89014; FAX number (702) 486-7046; e-mail address <a href="mailto:nsbde@dental.nv.gov">nsbde@dental.nv.gov</a>. Written submissions received by the Board on or before <a href="mailto:Tuesday, April 23, 2025">Tuesday, April 23, 2025</a>, <a href="mailto:by 12:00 p.m">by 12:00 p.m</a>. may be entered into the record during the meeting. Any other written public comment submissions received prior to the adjournment of the meeting will be included in the permanent record.** 

The Nevada State Board of Dental Examiners may: 1) address agenda items out of sequence to accommodate persons appearing before the Board or to aid the efficiency or effectiveness of the meeting; 2) combine items for consideration by the public body; 3) pull or remove items from the agenda at any time. The Board may convene in closed session to consider the character, alleged misconduct, professional competence or physical or mental health of a person. *See* NRS 241.030. Prior to the commencement and conclusion of a contested case or a quasi-judicial proceeding that may affect the due process rights of an individual the board may refuse to consider public comment. *See* NRS 233B.126.

Persons/facilities who want to be on the mailing list must submit a written request every six (6) months to the Nevada State Board of Dental Examiners at the address listed in the previous paragraph. With regard to any board meeting or telephone conference, it is possible that an amended agenda will be published adding new items to the original agenda. Amended Nevada notices will be posted in compliance with the Open Meeting Law.

We are pleased to make reasonable accommodations for members of the public who are disabled and wish to attend the

meeting. If special arrangements for the meeting are necessary, please notify the Board, at (702) 486-7044, no later than 48 hours prior to the meeting. Requests for special arrangements made after this time frame cannot be guaranteed.

Pursuant to NRS 241.020(2) you may contact at (702) 486-7044, to request supporting materials for the public body or you may download the supporting materials for the public body from the Board's website at <a href="http://dental.nv.gov">http://dental.nv.gov</a> In addition, the supporting materials for the public body are available at the Board's office located at 2651 N. Green Valley Pkwy, Ste. 104, Henderson, NV 89014.

**Note:** Asterisks (\*) "For Possible Action" denotes items on which the Board may take action.

Note: Action by the Board on an item may be to approve, deny, amend, or table it.

#### 1. Call to Order

a. Roll Call/Quorum

## 2. <u>Public Comment (Live public comment by teleconference and pre-submitted email/written form):</u>

The public comment period is limited to matters <u>specifically</u> noticed on the agenda. No action may be taken upon the matter raised during the public comment unless the matter itself has been specifically included on the agenda as an action item. Comments by the public may be limited to three (3) minutes as a reasonable time, place and manner restriction, but may not be limited to based upon viewpoint. The Chairperson may allow additional time at his/her discretion.

Members of the public may submit public comment via email to <a href="mailto:nsbde@dental.nv.gov">nsbde@dental.nv.gov</a>, or by mailing/faxing messages to the Board office. Written submissions received by the Board on or before <a href="mailto:April 23">April 23</a>, at 12:00 p.m. may be entered into the record during the meeting. Any other written public comment submissions received prior to the adjournment of the meeting will be included in the permanent record.

The Chair may prohibit comment if the content of that comment is a topic that is not relevant to, or within the authority of, the Nevada State Board of Dental Examiners, or if the content is willfully disruptive of the meeting by being irrelevant, repetitious, slanderous, offensive, inflammatory, irrational, or amounting to personal attacks or interfering with the rights of other speakers.

- **3.** Chairperson's Report: Lance Kim, DMD (For Possible Action)
  - **a.** Request to Remove Agenda Item(s) (For Possible Action)
  - **b.** Approve Agenda (For Possible Action)
- **4. Old Business:** (For Possible Action)
  - a. NA
- **5. New Business:** (For Possible Action)

- **a.** Review, Discussion and Possible Recommendation of the Continuing Education (CE) Committee Bylaws to the Board NRS 631.190 (For Possible Action)
- b. Discussion, Consideration, and Possible Approval/Rejection of the Continuing Education Provider Course Application – NRS 631.342; NRS 631.190; NAC 631.173 (For Possible Action)
  - i. Course #19-016
  - ii. Zest Education

#### 6. Public Comment (Live public comment by teleconference):

The public comment period is limited to matters <u>specifically</u> noticed on the agenda. No action may be taken upon the matter raised during the public comment unless the matter itself has been specifically included on the agenda as an action item. Comments by the public may be limited to three (3) minutes as a reasonable time, place and manner restriction, but may not be limited to based upon viewpoint. The Chairperson may allow additional time at his/her discretion.

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- 7. Announcements:
- **8.** Adjournment: (For Possible Action)

## Bylaws of the Continuing Education Committee Board of Dental Examiners

#### **Establishment**

The Continuing Education Committee (the "Committee") is hereby established as a standing committee of the Board of Dental Examiners (the "Board"). The Committee shall operate in accordance with these bylaws and any applicable laws and regulations governing the Board.

#### **Purpose**

The Committee shall provide oversight and recommendations to the Board on matters related to continuing education (CE). The Committee's primary responsibilities include reviewing and recommending continuing education providers to the full Board and addressing continuing education matters to ensure competency, professionalism, and regulatory compliance.

#### Membership

- 1. The Committee shall be composed of at least 4 members, appointed by the Board, but no more than 5 members. At least 1 committee member must be a dental hygienist on the Board.
- 2. The Executive Director shall serve as an ex-officio, non-voting member and provide administrative support as needed.
- 3. The Board President appoints a Chair to the Committee at the 1st or 2nd board meeting of the calendar year.
- 4. The Board President appoints Committee Members to serve at the 1st or 2nd board meeting of the calendar year.
- 5. Any Committee Member may consult with the Board President to discuss the removal of any Committee Member from the Committee for actions that are unethical and/or result in unprofessional conduct.

#### Meetings

- The Committee shall meet as determined by the receipt of a CE Provider Application requiring review or at the request of the Chairperson or the Board. The committee shall meet within 10 days of receipt of a CE Provider Application.
- 2. Meetings shall be conducted in accordance with applicable open meeting laws and Board procedures.
- 3. A majority of Committee members shall constitute a quorum for conducting business.
- 4. The Committee shall keep minutes of its meetings and submit them to the Board for review.

#### **Authority and Responsibilities**

The Committee shall have the authority to:

- 1. Review and make recommendations to the Board regarding applications for continuing education course approval.
- 2. Evaluate continuing education content for compliance with statutory and regulatory requirements.
- 3. Recommend changes to continuing education policies, standards, or regulations under the Board's jurisdiction.
- 4. Review and make recommendations to the Board regarding continuing education provider complaints or reported concerns.

#### **Reporting and Recommendations**

- 1. The Committee shall submit formal recommendations to the Board for consideration and approval.
- 2. The Committee does not have independent decision-making authority but serves in an advisory capacity to the Board.

#### **Amendments**

These bylaws may be amended by a majority vote of the Board, provided that notice of proposed amendments is given in advance.

#### **Effective Date**

These bylaws shall take effect immediately upon approval by the Board of Dental Examiners.

#### **Nevada State Board of Dental Examiners**



6010 S. Rainbow Blvd., Bldg. A, Ste.1 • Las Vegas, NV 89118 • (702) 486-7044 • (800) DDS-EXAM • Fax (702) 486-7046

March 4, 2019



Re: Provider Application for the Laser Proficiency Course: Introduction to Lasers (6.0 units)

Dear Ms.

The Nevada State Board of Dental Examiners is in receipt of your application, application fee and synopsis for approval as a Board recognized Continuing Education Provider for the above listed course. Please be advised, pursuant to NAC 631.173(5 and 6) which states;

- (5) To be approved as a provider of a course in continuing education, the instructor of the course must complete a form provided by the Board and submit it to the Board for review by a committee appointed by the Board not later than 45 days before the beginning date of the course. Upon receipt of the form, the committee shall, within 10 days after receiving the form, approve or disapprove the application and inform the applicant of its decision.
- (6) Study by group may be approved for continuing education if the organizer of the group complies with the requirements of subsection 5 and furnishes the Board with a complete list of all members of the group, a synopsis of the subject to be studied, the time, place and duration of the meetings of the group, and the method by which attendance is recorded and authenticated.

The Board has received the required documents noted above and will be forwarded to the Continuing Education Committee for review. You will be notified in writing if your course is granted approval or if it is rejected.

Should you need further assistance, please do not hesitate to contact me at (702) 486-7045.

Sincerely,

Sandra Spilsbury

Budan

Site Inspection - CE Coordinator

Nevada State Board of Dental Examiners

cc: File



### **Nevada State Board of Dental Examiners**

6010 S. Rainbow Blvd., Bldg. A, Ste. 1 Las Vegas, NV 89118 (702) 486-7044 • (800) DDS-EXAM • Fax (702) 486-7046

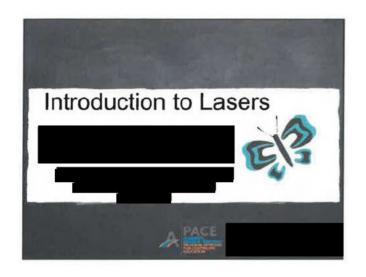


#### CONTINUING EDUCATION PROVIDER APPLICATION

Instructor Name:
Business Address:
City, State & Zip:
Business Telephone:
Course Title and Objectives [Must relate directly to the practice of dentistry and/or dental hygiene]:
Introduction to Lasers
6 hour lecture
combined with hands on instruction of the
use of lasers by the dental hygienist
Number of Participants:
Hours of Actual Instruction:
Location/Facility Name and Address:
TBD
Date(s) of Course: TBD
Business Address:
City, State & Zip:
Business Telephone:
Date of Request: 3/1/2019
Date of Request. Shizons
Signature of Person Authorized to Represent Course Provider
PLEASE ATTACH NAMES AND BRIEF BIOGRAPHICAL SKETCHES OF INSTRUCTORS AND OUTLINE
OF COURSE, INCLUDING METHOD OF PRESENTATION TO THIS FORM.
FOR OFFICE USE ONLY - DO NOT WRITE BELOW THIS LINE.
Approved by:
Number of Hours Approved:
Effective Date of Approval:
Disapproved [Explanation]:

was born and raised in Phoenix, AZ. From a very young age
knew wholeheartedly that dentistry would be her passion. She began working for her
childhood dentist in her teens. In order to pursue this perennial desire, sought and ob-
tained her degree in dental hygiene from Rio Salado College in Phoenix, AZ.
Immediately upon graduation navigated the dental industry working with various
doctors gaining insight and experience with cutting edge tools and processes. At her very first
office in 2009 she was introduced to the Biolase Diolase Plus. She took her first laser standard
proficiency course at that time. Sensing a need for personal growth and professional growth,
returned to school to earn her Bachelor's degree in Communication. She also served on
the board of the Northern Nevada Hygiene Association, including a stint as President.
Now, after almost ten years as a clinical hygienist, four years on the Northern Nevada
Hygiene board, and staying active in the dental community, has pursued getting her
Academy of General Dentistry PACE provider approval. Her goal is to provide high quality CE
courses to the dental community, one of those being on the subject of lasers and laser training.
began her serious study of lasers in 2016 after taking her second standard
proficiency course in Reno, NV with the Academy of Laser Dentistry. From there she has com-
pleted her advanced proficiency in both the diode and CO2 lasers. This advanced proficiency is
awarded after rigorous testing in clinical applications. This process also involves treating pa-
tients and following their periodontal progress for a minimum of one year, five cases per laser.
She will be presenting her reports next month in Dallas at the annual Academy of Laser Dentis-
try conference.
In addition to her professional pursuits, spends time with her family hiking, scuba
diving, and running throughout the Lake Tahoe and Reno Nevada areas.

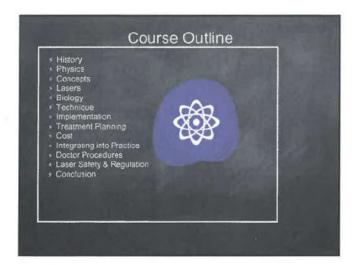


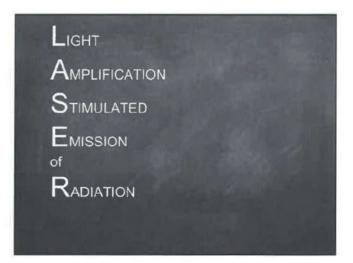


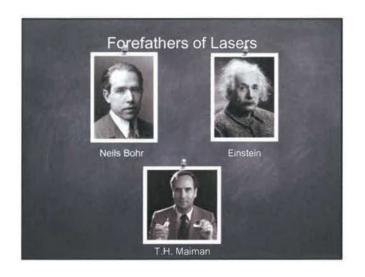
A standard course developed according to the guidelines established by the Academy of Laser Dentistry

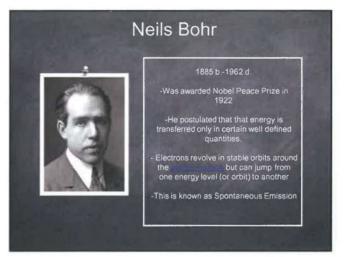






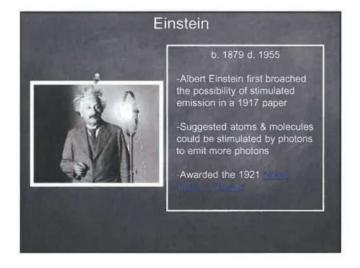


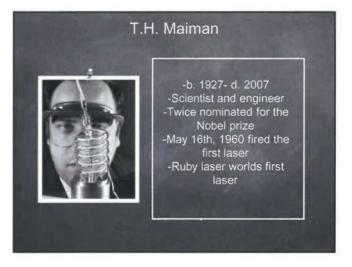


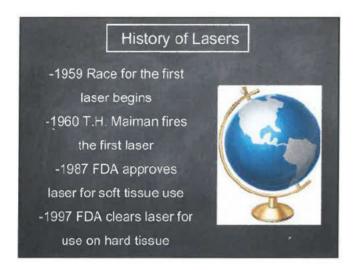


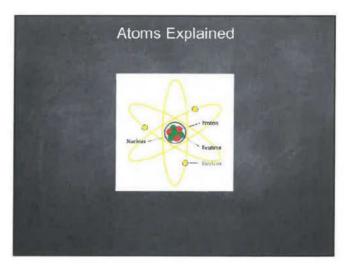










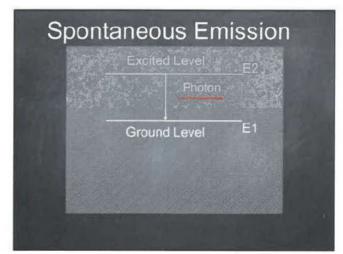


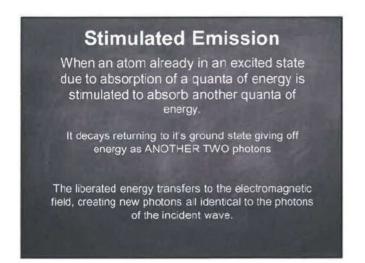


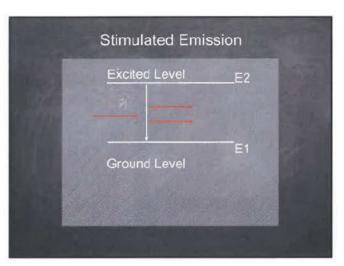
### **Spontaneous Emission**

The atom absorbs new energy and there is another energy level created.

Spontaneous emission occurs. The excited state decays to the lower energy state, emitting the excess energy as a photon or quantum of light.



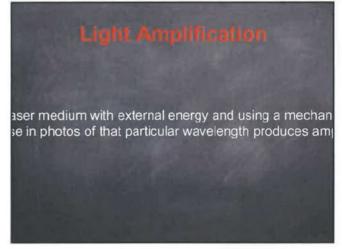


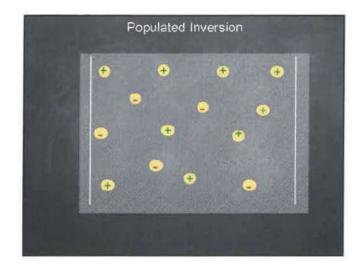


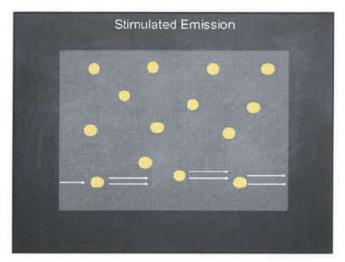




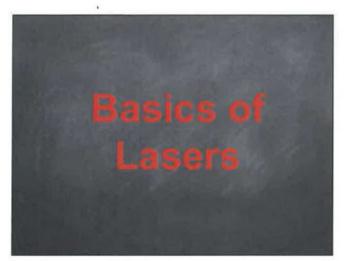


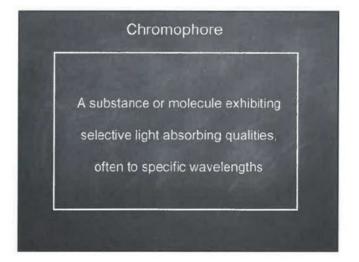




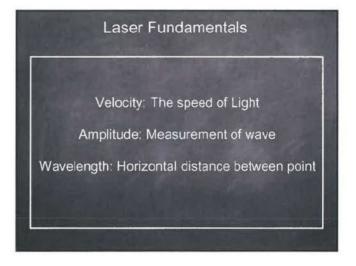






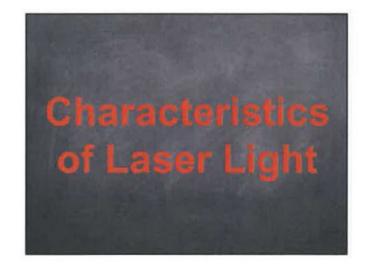


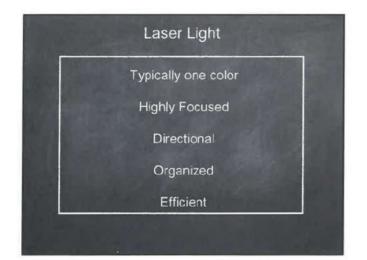
# Photon √Smallest packet of energy. √Responsible for electromagnetic phenomena √Travels at the speed of light √No Mass √Ceases to exist when it stops moving

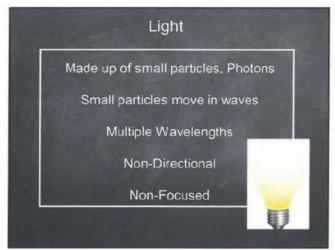




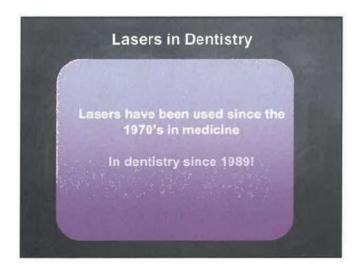
# Absorption Absorption, in chemistry, is a process in which atoms, molecules, or ions enter some bulk phase - gas ,liquid or solid material.

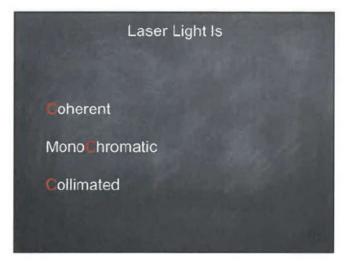


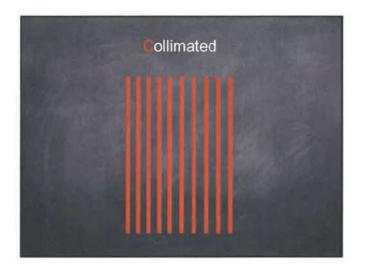


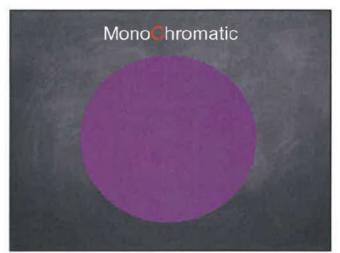






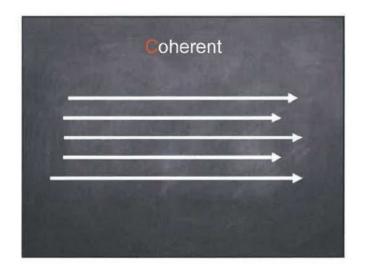


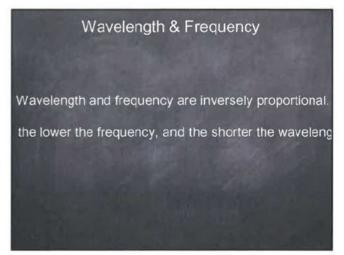


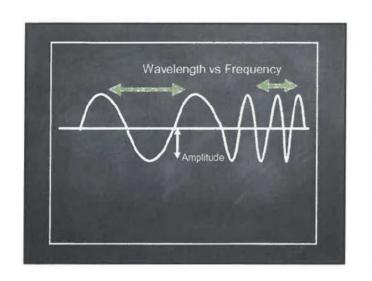








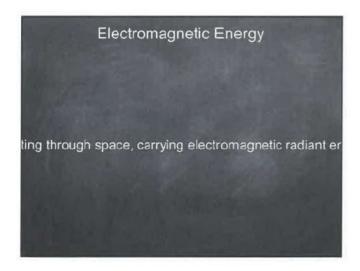


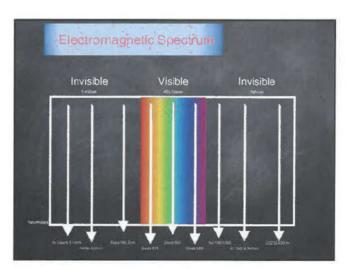


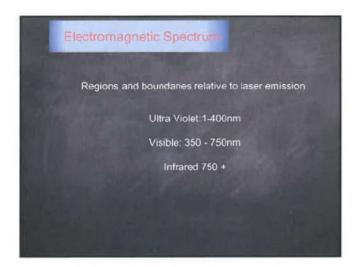
#### Laser Terminology

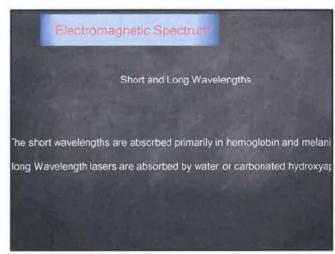
Joule - unit of energy, ability to do work
Watt - Unit of Power, Rate of doing work
One Watt - One joule for one second
Hertz - Number of pulses per second of laser energy H.
Pulse Width- The emission time of a single pulse





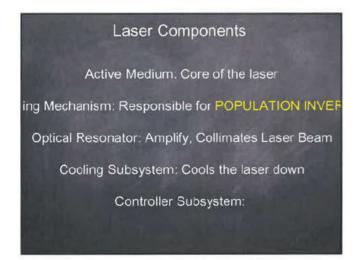


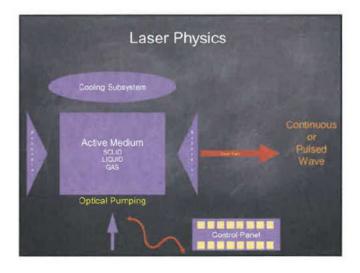




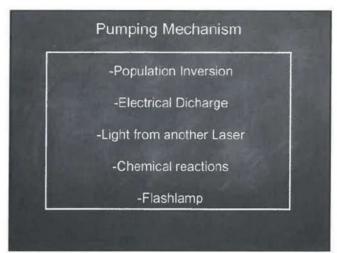




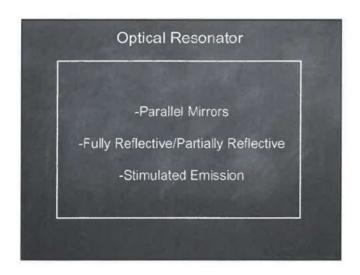


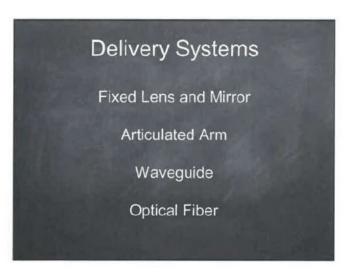




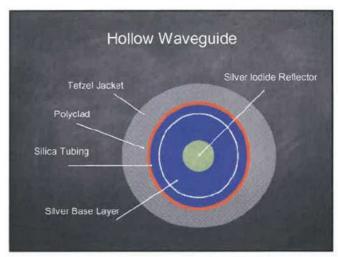


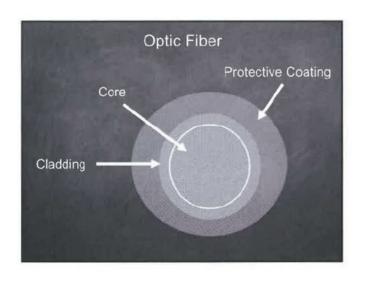


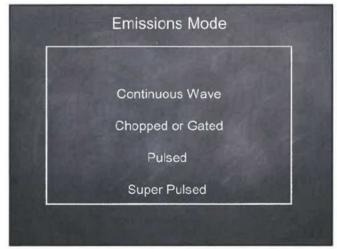




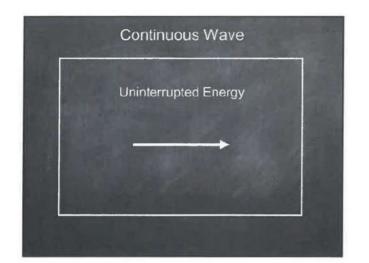


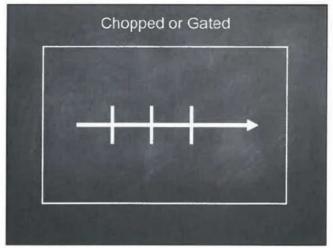


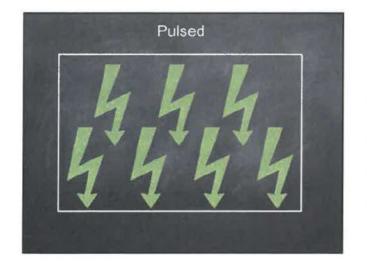


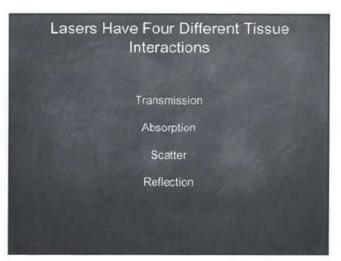




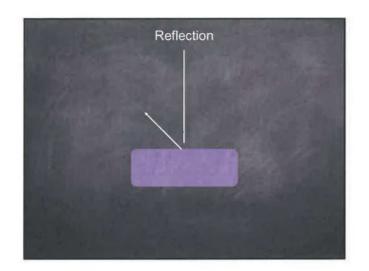


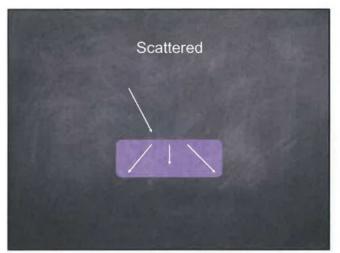


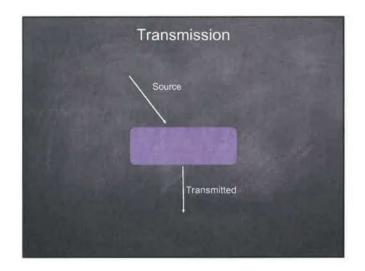


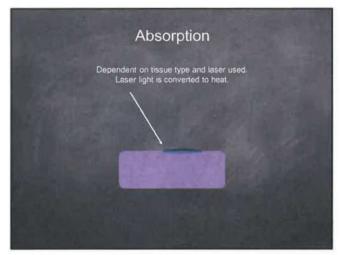




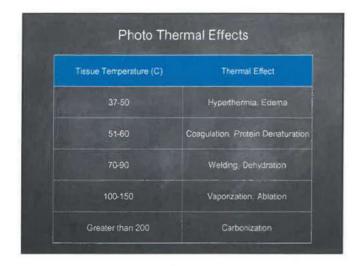


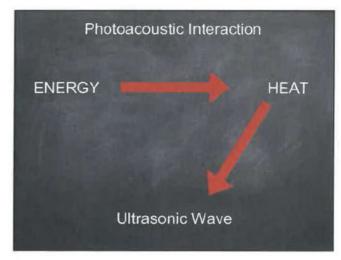


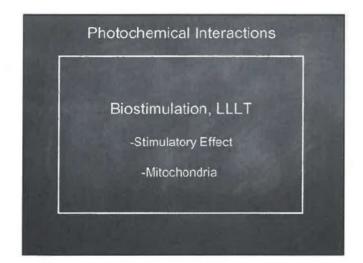


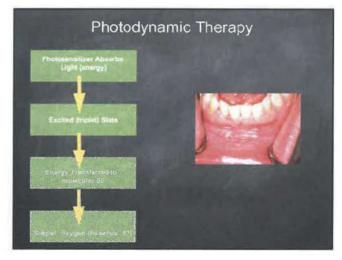






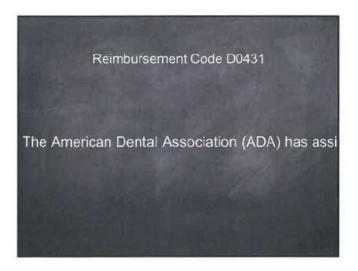


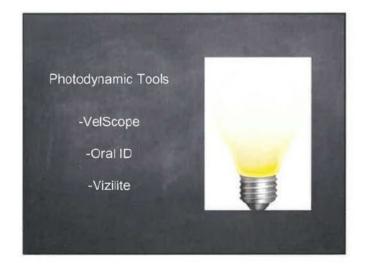






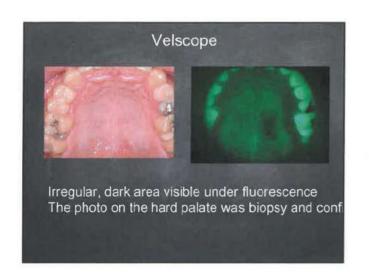
Close to 53,000 Americans will be diagnosed with classes over 9,750 deaths, killing roughly 1 per Human papillomavirus version 16

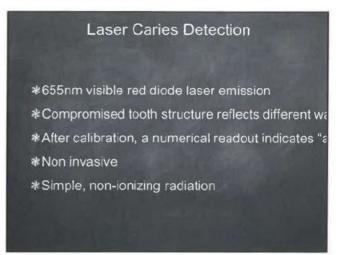


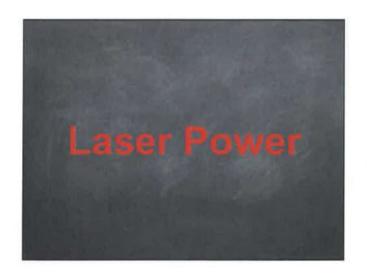


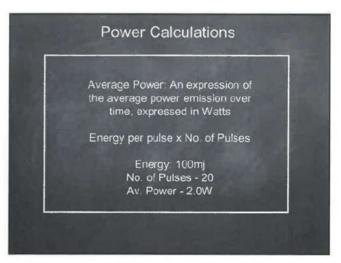




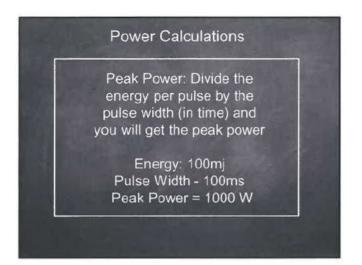


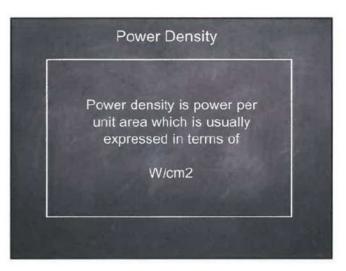


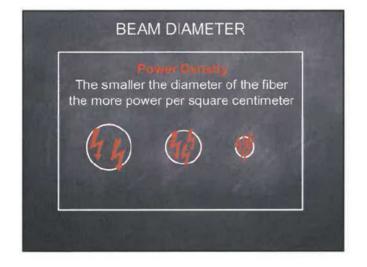


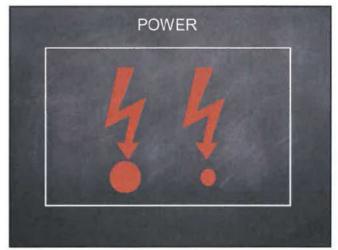








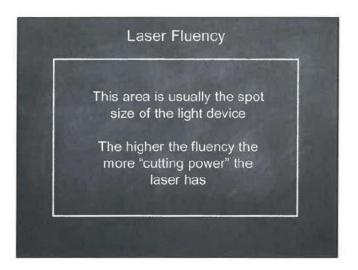








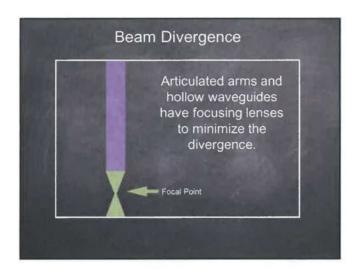
## Duty Cycle = Emission Expressed in Percent Percent that laser is actually firing in relation to total laser activation time Example: Duty Cycle may be 50%

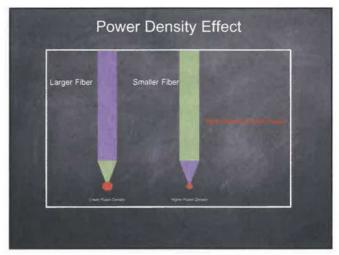












Laser Tissue Interaction

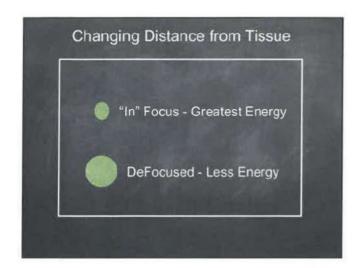
Power Density + Duration of Exposure
+ Amount of Cooling + Wavelength +
Emission Mode + Tissue
Characteristics
= Biological Effect

Modes of Use

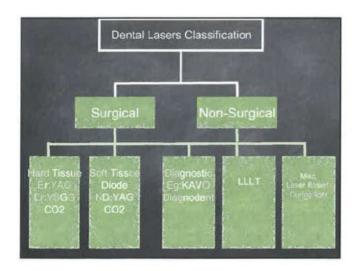
Contact Mode

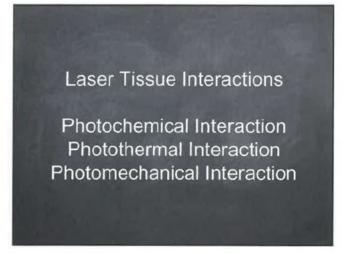
Non - Contact Mode





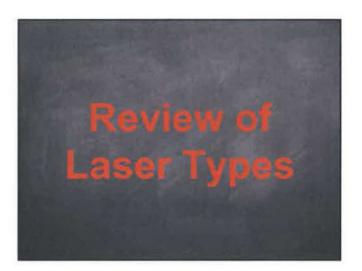








Photochemical:
tions occur when photon energy causes a chemical rea
occur when the chromophores absorb the laser energy
otomechanical: Breaking apart of structures by laser lig



Argon Lasers

- Active Medium GAS

- Photons reflected off mirrors

- Surgery, Resin Placement

- Attracted to Melanin, Hemoglobin





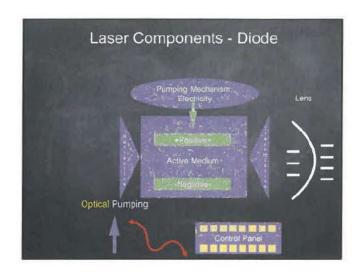
Diode Lasers

Active Medium Solid, Semiconductor Chip

Energy is released as Heat

810, 950, 980, 1064nm

Fiber Delivery

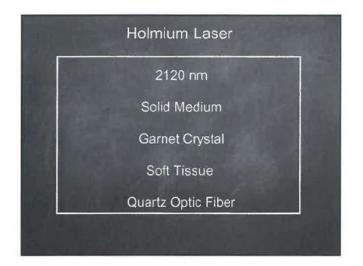


Erbium Laser

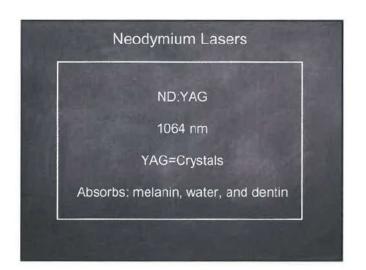
2790-2940nm

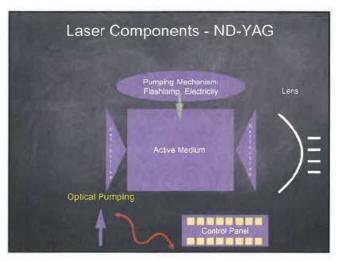
Absorbed by WATER and hydroxyapatite

Cuts Hard Tissue with micro explosions of water



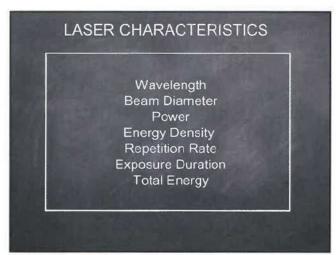




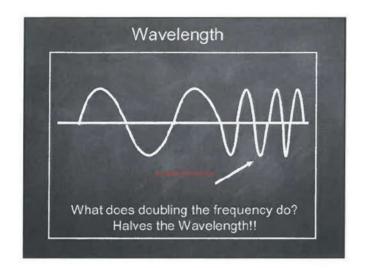


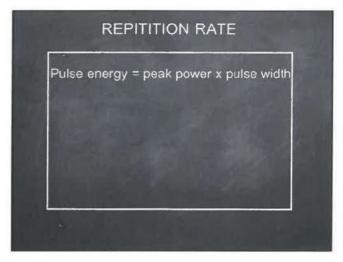


, 13<sup>36</sup>







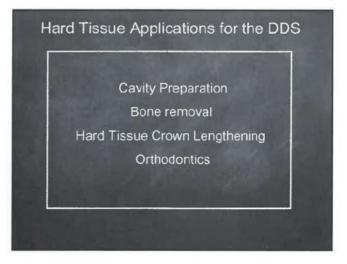


ENERGY DENSITY

Fluence is joules/cm

Poorly cleaved Fiber

Check for Aiming Beam









### Regulatory Organizations

U.S. FDA Center for Devices & Radiological Health

American National Standards Institute

U.S. Occupational Safety and Health Administration

## U.S. FDA Center for Devices & Radiological Health

Maintains awareness of new and existing radiation-emitting products

Studies the biological effects of radiation-emitting products

Assesses radiation emission levels

Provides direction and guidance to the general public

Oversees product manufacturer compliance



American National Standards Institute

Sets manufacturing and and safety guideline
Defines control measures

for the safe use of lasers and laser systems. Classifie

yers for establishing laser safety policies and procedu

U.S. Occupational Safety and Health Administration

Responsible for maintaining safe work place

No Comprehensive Laser Safety Standard

Relies on ANSI

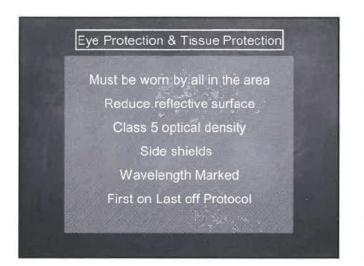
#### Laser Safety Officer

One in Every Office
Keeper of the key
Sets Standard Operating Procedures
Knows the operational Characteristics of the laser
Knows Laser Limitations
Determines Control Area
Posts Warning Signs
Supervises Staff Education and Training
Ensures Laser Maintenance
Oversees PPE
Medical Reports and Incident Reporting
Potentail Hazards
OSHA and ANSI Regulations

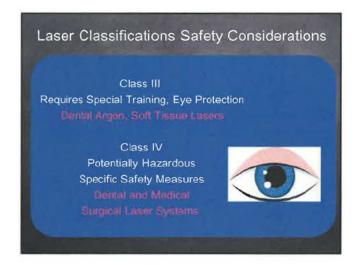
#### Laser Safety Mechanisms

ON/OFF Key
Safety Interlock
Remote Interlock
Guarded Foot Pedal
Emergency Stop Button
Time-Out
Audible Noise
Visible Warning Sign





Maximum Permissible Exposure (MPE). This is the minimum irractive flected or scattered radiation during operation exceeds the application or the energy per surface unit becomes lower than the Maximum for the energy per surface unit becomes lower than the Maximum for the energy per surface unit becomes lower than the Maximum for the energy per surface unit becomes lower than the Maximum for the energy per surface unit becomes lower than the Maximum for the energy per surface unit becomes lower than the Maximum for the energy per surface unit becomes lower than the Maximum for the energy per surface unit becomes lower than the Maximum for the energy per surface unit becomes lower than the energy per surface unit becomes lower the energy per surface unit becomes lower t

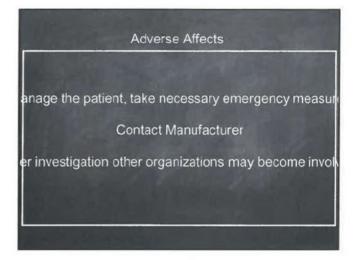


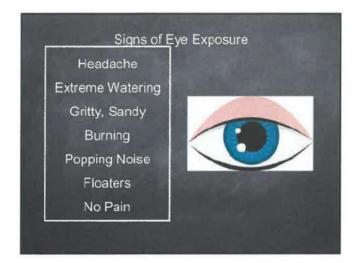




Laser Safety with Combustible Gases

Nitrous Oxide and Laser Use
les that Nitrous Oxide can be used with proper scaven
retics alcohol moistened gauze should not be used to











Laser Infection Control

Identification of Biological Hazards

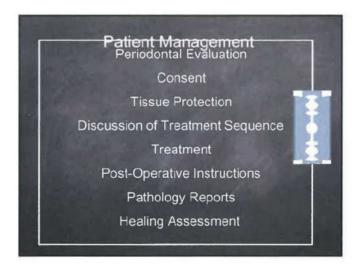
Plume Hazards

Sterilization of Instruments

Decontamination of Field

Disposal of used-up supplies

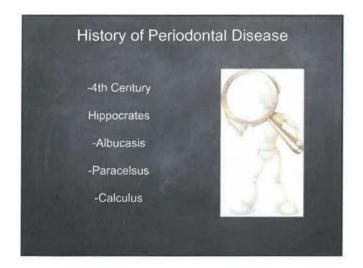
# Chart Documentation Laser Used Fiber Size Contact/Non-Contact Mode Settings Used Minutes Used Vitamin E Safety Goggles







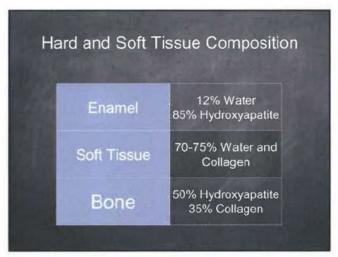


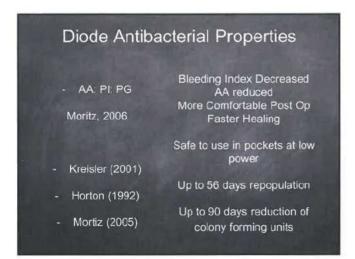






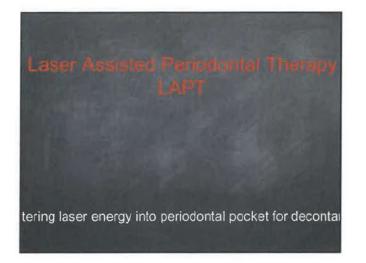












## A. (2013). Soft-tissue lasers in dental hygiene. Ames, R. A. (2007). Atlas of laser applications in dentistry. C ssional IndependentSource for Dental Laser Education er Foundation. (n.d.). Retrieved from https://oralcancer

## undation. (n.d.). Retrieved from https://www.cd/founde (n.d.). Retrieved from http://dh.adia.org/ & Pick, R. M. (1995). Lasers in dentistry. Chicago: Qu





#### Conditioning of the Fiber

- Focuses laser energy
- Can be done with articulating paper or a
  - marker
- Can become conditioned in periodontal pocket

#### Laser Settings Decontamination

Always start with lowest possible setting!!!

Diode: 810-980 1.5 W Pulsed 10-15 Seconds per site

> CO2 380us 25 Hz

#### Laser Settings Laser Bacterial Reduction

Always start with lowest possible setting!!!

Diode: 810-980 .5 W Continuous Wave 10-15 Seconds per site

> CO2 450us 45 Hz

#### Fiber Technique

✓Calibrate Fiber length to Pocket Depth

✓Angle Away from Tooth

✓Angle towards tissue

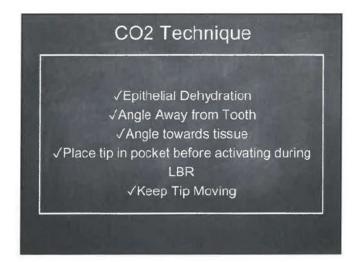
✓Place fiber in pocket before activating

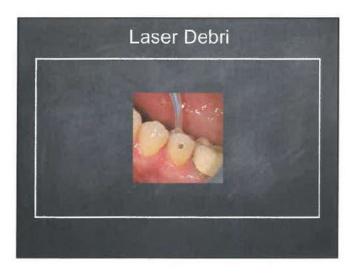
✓Keep Fiber Moving

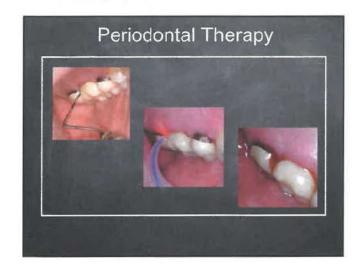
✓Revisits calibrate fiber 2mm less than initial pocket depth





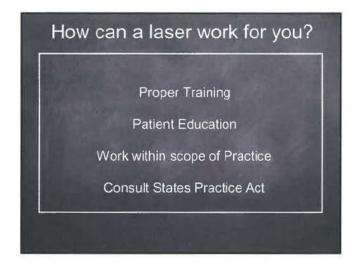


















#### **Nevada State Board of Dental Examiners**



2651 N. Green Valley Parkway, Suite 104, Henderson, NV 89014 (702) 486-7044 • (800) DDS-EXAM • Fax (702) 486-7046 nsbde@dental.nv.gov

### APPLICATION FOR CONTINUING EDUCATION CREDIT APPROVAL REQUEST SUBMISSION GUIDELINES

Please comply with the following:

I certify that continuing education courses granted Board approval will be conducted as education programs and meet the following requirements:

- 1) Instruction shall be conducted on the same education standards of scholarship and teaching as that required of a true university discipline.
- 2) The course or topic of instruction shall conform to the purpose and method of higher education.
- 3) The provider of a course of study or topic of conversation shall be able to demonstrate to the Board that an opportunity to enroll in such courses of study is available to ALL dental and dental hygiene licensees.

Home study and/or correspondence courses **must** submit with this application all material (i.e., study manuals, worksheets, audio and video) used in the completion of the course. The Nevada State Board of Dental Examiners reserves the right to monitor any and all courses being conducted by an approved provider of continuing education.

In accordance with Nevada Administrative Code (NAC) 631.177(2), each approved continuing education provider **must** furnish a certificate of completion to all Nevada dental and dental hygiene licensees who complete the course. The records concerning Nevada dental and dental hygiene licensees must be kept on file by the provider for a period of at least three (3) years.

FEE: \$150.00 FOR THE FIRST CREDIT HOUR REQUESTED, \$50.00 FOR EACH ADDITIONAL CREDIT HOUR. THIS FEE IS FOR THE PROCESSING AND REVIEW OF YOUR REQUEST FOR PROVIDER APPROVAL AND MUST ACCOMPANY THIS FORM UPON SUBMISSION OF THE REQUEST.

ALL PROVIDER APPROVAL REQUESTS MUST BE SUBMITTED TO THE BOARD FOR REVIEW NO LATER THAN 45 DAYS PRIOR TO THE BEGINNING DATE OF THE COURSE.



Name:

#### Nevada State Board of Dental Examiners

2651 N. Green Valley Parkway, Suite 104, Henderson, NV 89014 (702) 486-7044 • (800) DDS-EXAM • Fax (702) 486-7046 nsbde@dental.nv.gov

#### APPLICATION FOR CONTINUING EDUCATION CREDIT

#### **Sponsor Information:**

Business Address:				
City:		State:	Zip code:	
Business Telephone	:			
Email Address:				
Number of Attende	es: 30			
Hours of Actual Inst	ruction: 13			
Facility Name:				
Facility Address:				
Date(s) of Course: ()	6/06/25 - 06/07/25			
Date of Request: 04	/14/25			
			, , ,	
	_	Sponsor	· Signature (Digital)	
Speaker(s) Informa	ation:			
Biographical Sketch	and the International Col Dental Facial Esthetics, a Lifetime Member of the A the American College of  Dr. serv an Assistant Clinical Pro University of Nevada – L prosthodontics and impla  Dr. obtained 1995. He runs a very suc	lege of Dentists, a Regela member of the American Dental Associal Prosthodontics.  Ves as the fessor at Loma Linda Urlas Vegas, and maintain ant dentistry in California his Doctorate of Dental decessful fee for service of	niversity, a Clinical Instructor at s a successful practice limited to	for a of , is

Course Title:	- June 2025	
Course Description:	Participants will attend a LIVE hands-on course which encompasses evidence and clinical based lecture theory with a hands-on workshop with full-arch dental implant diagnosis, treatment planning, and clinical procedures. This 2-day in-person program is designed for clinicians that would like to both treatment plan and treat implant retained removable and fixed prosthodontics. This course provides didactic and hands-on training for the successful treatment of the edentulous patient utilizing contemporary implant-retained, tissue supported treatment options. Many clinical	
Learning Objectives: 1. Understand diagnosis, treatment planning, and prosthetic space requirements of implant options.		
	2. Acquire knowledge and confidence in utilizing standard diameter and narrow diameter implants and surgical kits	
	3. Acquire basic understanding of the surgical and prosthetic protocols of implant overdentures	
9 9 1 1 1 2 2 2 4	Day 1:  1:30-9:00 — Check-in, breakfast, orientation  1:00-9:30 — Presentation: Introduction to course, patent assessment (Dr. 2:30-10:00 — Presentation: Overview of overdenture systems (Professor Kanazawa)  1:00-12:00 — Hands-on: Overdenture fundamentals  1:00-1:00 — Lunch  1:00-2:00 — Presentation: Full-arch fixed dentistry (Dr. 2:00-2:15 — Coffee break  1:15-4:15 — Hands-on: Clinical techniques & hands-on (Dr. 2:00-2:00 — Q&A course completion  1:30 — dinner	
8 8 a p	Day 2: 0:00-8:30 — Check-in, breakfast 0:30-9:30 — Presentation: Surgical anatomy review, treatment planning, basic and advanced surgical protocols (Dr. 10:30-9:45 — Coffee break — O&A	

#### FOR OFFICE USE ONLY – DO NOT WRITE BELOW THIS LINE

Approved by:	
Number of Hours Approved:	
Effective Date or Approval:	
Disapproved [Explanation]:	

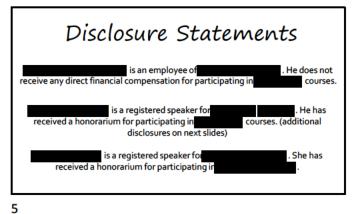




6



A Little About the Course



Disclosure I have/had a relationship of some sort either financial or otherwise with the following companies. None have influenced me in any way or demanded a quid pro quo with my discussions on preferred methods or products I may recommend.

4/15/2025

Review by State of Nevada CE



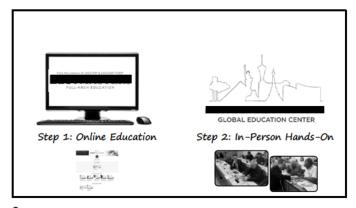
for

#### Disclaimer

The opinions expressed in this presentation are those of the speaker and not necessarily those of

The opinions expressed in this course should not be construed as advise to care for specific patients.

8



In-Person 2-Day Course:

Day 1

Morning – Fundamentals of overdentures, overdenture impressions,

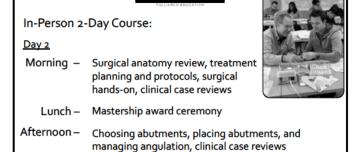
overdenture impressions, overdenture housing attachment

Afternoon – Full-Arch FIXED with LOCATOR, step-by-step

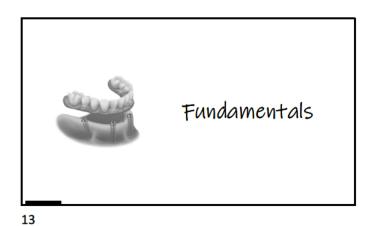
clinical technique & hands-on

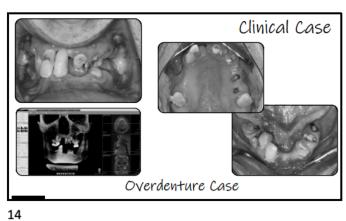
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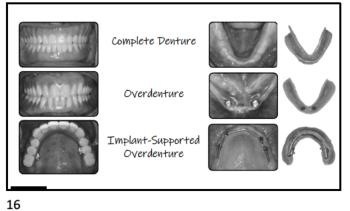




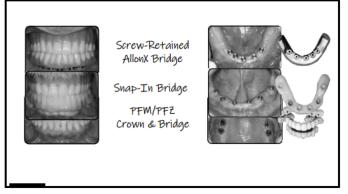




Treatment Options for Full-Arch



15



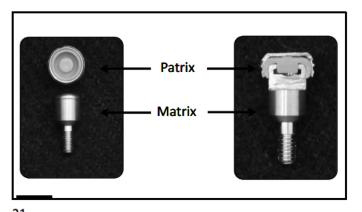


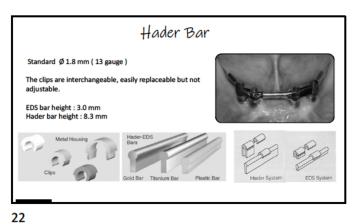
19

Attachment Systems

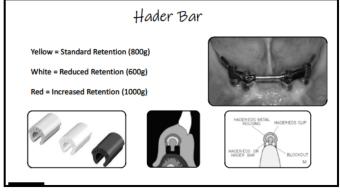
Knowing how the attachment system functions is as important as knowing the steps of how to make an overdenture! Hader Bar Dolder Bar Locator

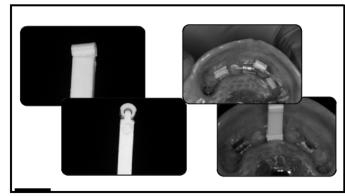
20

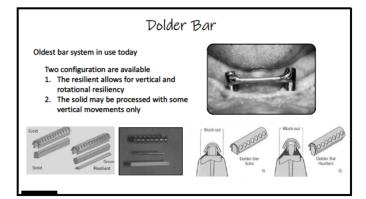


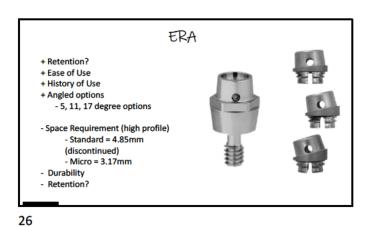


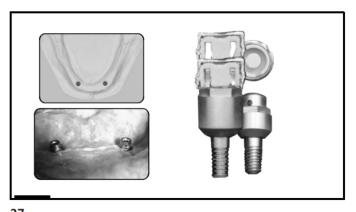
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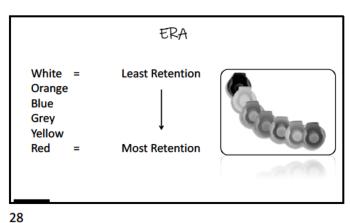




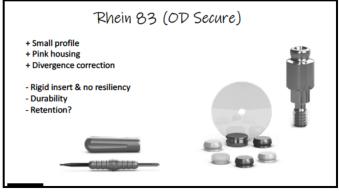


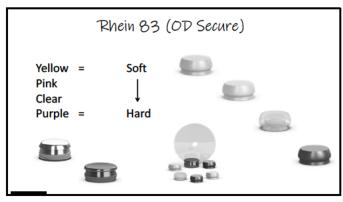




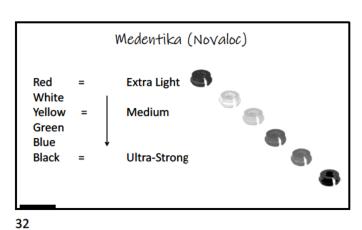


27

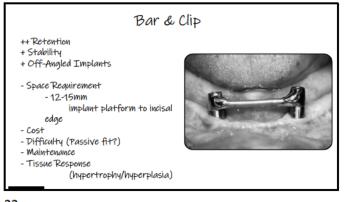


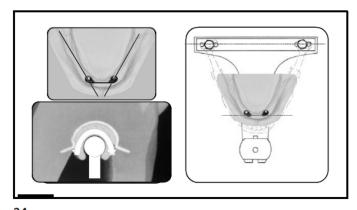




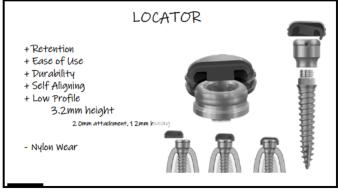


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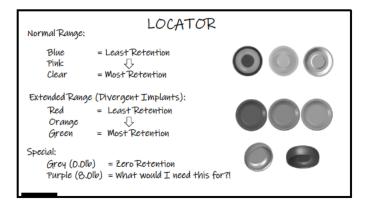




33 34

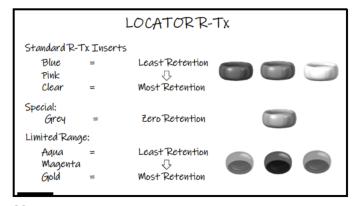






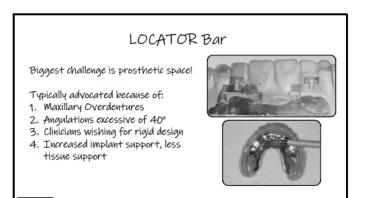


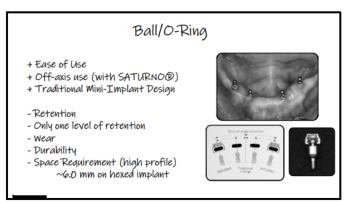
37 38



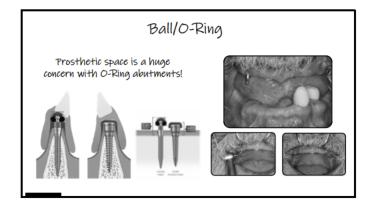
LOCATOR Bar Combination of resilient LOCATOR & rigid bar connections Ultimate control of angulation correction Available in a screw-in, cast-to, or laser-weld

39 40





41



Q: Which attachment should I use? What are you comfortable with? How much retention? Patient preference?

Cost?

How much restorative space do you have?

43 44



Meet Our Patient



43 Year Old Healthy Female Patient

Currently wearing maxillary and mandibular overdentures

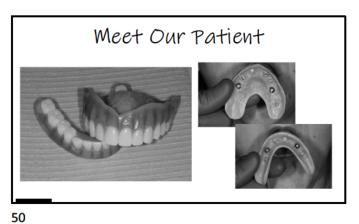
Interested in "fixed teeth"

45 46

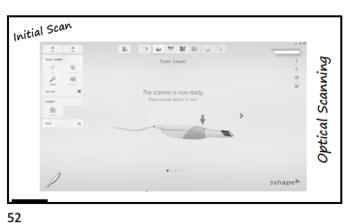
Meet Our Patient

Meet Our Patient



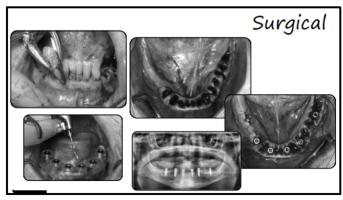




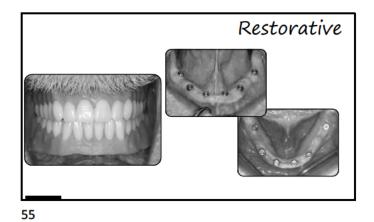


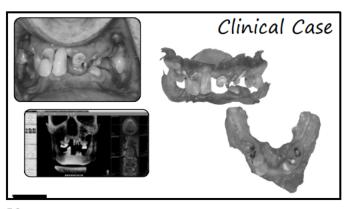
51 5



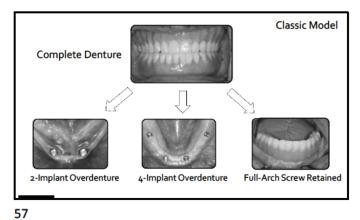


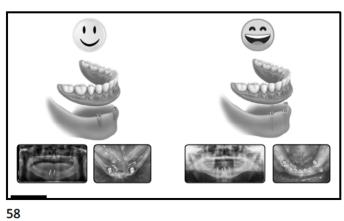
53 54

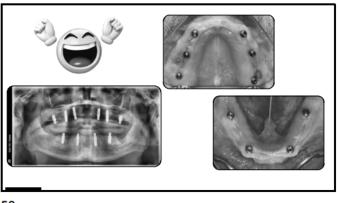


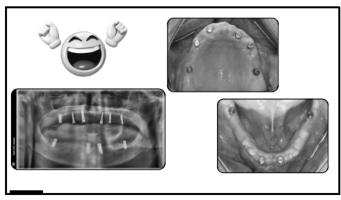


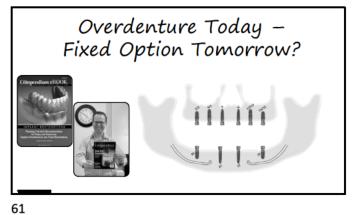
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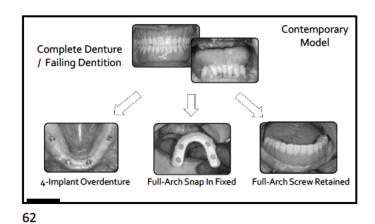




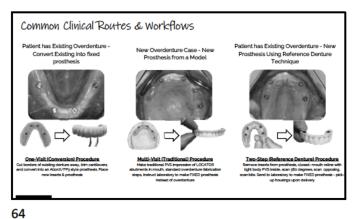


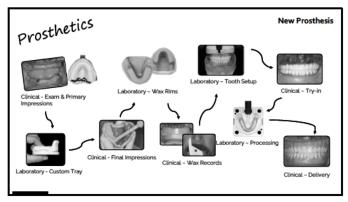


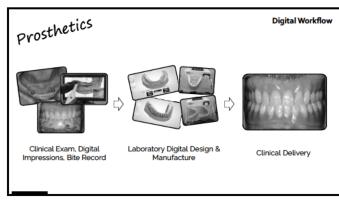


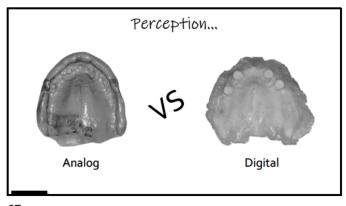


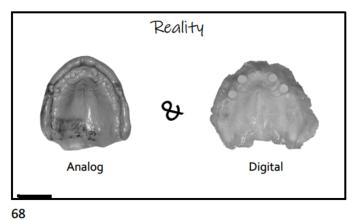


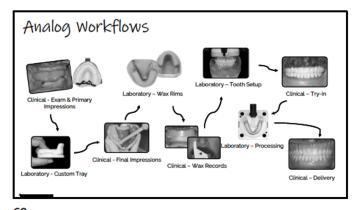


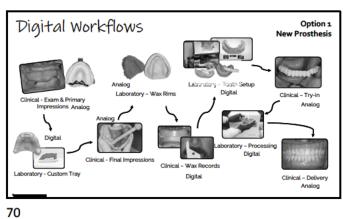




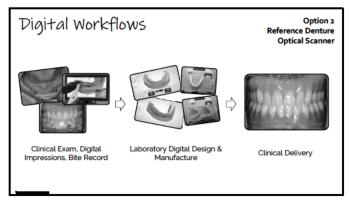


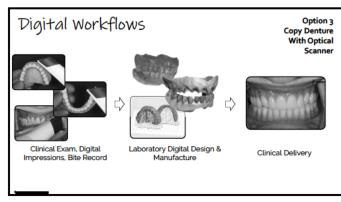


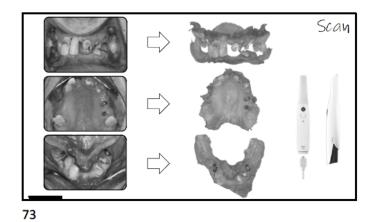


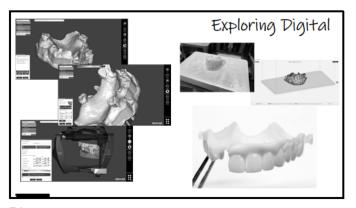


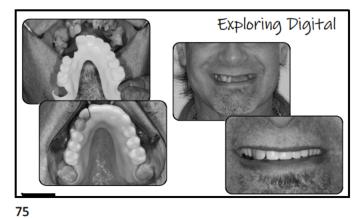
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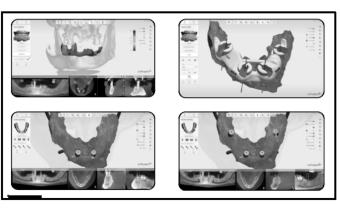


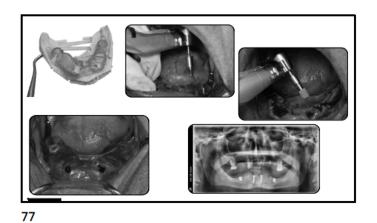










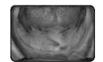




#### Case Selection for Your First Case!

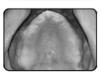
#### **Ideal Cases**

- Well-healed edentulous ridges Patients that have been edentulous for years
- Sufficient prosthetic room
- No bruxism / parafunction
- Interested in denture stabilization Adequate to limited financial resources







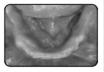


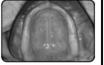
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#### Middle of the Road Cases

- Slightly undercut, moderately healed edentulous ridges Patients that have been edentulous for 3-6 months
- May have to create some prosthetic room
- Little to some bruxism / parafunction
- May need to ridge recontour slightly Adequate to limited financial resources

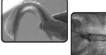






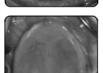
#### **Challenging Cases**

- Significantly undercut, poorly healed edentulous
- ridges Patients that have been edentulous for 30+ years
- No prosthetic room without major ridge recontouring Bruxism
- Highly medically compromised Extremely limited financial resources









81 82

#### Clinical Case Review







84

Number of Implants

#### Consensus on Implant Number

Mandibular Overdenture: 2-4 implants / arch
Maxillary Overdenture: 4-6 implants / arch
LOCATOR FIXED: 4-6 implants / arch

Parameters that increase the need for additional implants:

- ✓ Dentate opposing arch
- ✓ Implants <8 mm in length
- ✓ Implants <3.5 mm in width
- ✓ Sensitive mucosa

85

- ✓ High muscle attachments
- ✓ Sharp mylohyoid projections
- ✓ Large V-shaped ridges
- ✓ Patients with high retention needs

adowsky St. J Prosthet Dent. 3

#### 1 Implant Mandibular Midline

- ✓ Geriatric patients
- ✓ Limited funds
- ✓ Limited surgical capabilities
- ✓ Dexterity concerns

Limited information regarding attachment choice

Ball/Cap design most often used Locator/ERA/O-Ring not advocated





Courtecy Dr. Charlie Goodacre J ACP (Prosthope

#### 2 Implants Inter-foraminal

- ✓ Universal application
- ✓ Safe
- ✓ Proven
- ✓ Cost-effective

Non-splinted and splinted are both proven to be highly effective

Historically have been placed at the canines





3 Implants Inter-foraminal

- ✓ Thought to reduce A-P rocking
- ✓ Safe

86

- ✓ Proven
- ✓ Cost-effective?

Implant distribution important

**Proximity issues** 

Functions like an 'wobbly chair'





87 88

#### 4+ Implants

✓ Best stability

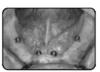
89

✓ Very retentive - Too retentive?

Implant distribution important

Parallelism critical !!

Fixed vs. Removable prosthesis?





90

Little evidence to support implant number as a factor of patient satisfaction

iadowsky SJ. JPD 2001 Meijer HJ. COIR 2009 Noccuzzo M. COIR 2012

Evidence does show that <u>simple</u> rather than complex designs that allow for ease of maintenance and cleaning are preferred by patients

Wismeijer D. JOMS 1997 Carlsson J. Oral Rehab 2010 Burns DR. JPD 2011

#### **Maxillary Overdentures**

- ✓ Most advocate for at least 4 implants
- ✓ Typically performed to eliminate palatal coverage
- ✓ Often chosen because patient wishes for a removable prosthesis for cleansibility or for prosthetic/lip support



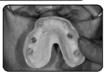
**Maxillary Overdentures** 

- ✓ Clinicians routinely place 6 implants in case of an implant losing integration
- ✓ If less than 4 implants, palate coverage highly recommended
- ✓ Some patients choose implant retention for A-P stability, not retention

92

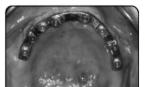
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91

#### **Maxillary Overdentures**



Many advocate a bar for maxillary overdentures

#### Rationale:

- ✓ Low bone density
- ✓ Shorter implant length
- Moderate-extreme angulation
- ✓ Minimizing occlusal forces via splinting
- ✓ Reduction in bone loss?
- ✓ Retention?

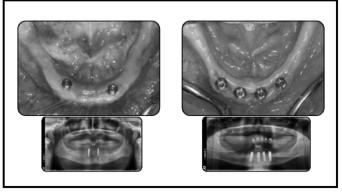
Sadowsky JPD 20

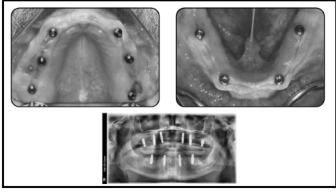
There is no conclusive evidence indicating the "ideal" number of implants for overdentures

Roccuzzo COIR 201

Empirical evidence indicates that treatment with ≥2 implants is ideal for the mandibular arch and ≥4 implants is ideal for the maxillary arch

93





#### Live Patient Demo







Surgical Procedures

97

98

#### Surgical Overdenture & Full-Arch Procedures

#### Checklist for Surgical Appointment

- 1. Medical history is current & relevant
- 2. Diagnostic imaging is current CBCT/PAN
- 3. Surgical template prepared & provided
- 4. Appropriate restoration is prepared standard denture or immediate denture
- 5. Surgical time is determined
- 6. Pre-op medication
- 7. Coordinate with care-giver or liaison

99

100

#### Surgical Appointment Timeframe

First time you do surgery, block the whole afternoon!

Experienced clinicians – delayed loading:

1-3 implants = 45-60 min 4+ implants = 60-90 min

Experienced clinicians - immediate loading:

1-3 implants = 90 min 4+ implants = 120 min

#### Surgical Appointment Timeframe

Traditional 2 implant overdenture placement = 60 min (no immediate loading)

- 10 min seat patient, prepare comfort features, review medical history, chlorhexidine rinse, place topical
- 2.  $10 \, \text{min} \text{anesthetic placement}$  and "calming down" period
- 3. 5 min flap elevation and preparation of site
- 4. 15 min osteotomy preparation & implant placement
- 5. 5-10 min suturing
- 6. 5-10 min finishing, post-op instructions, review home medication

101

#### Surgical Appointment Timeframe

4 implant overdenture placement = 90 min (with immediate loading)

- 10 min seat patient, prepare comfort features, review medical history, chlorhexidine rinse, place topical
- 10 min anesthetic placement and "calming down" period
- 5 min flap elevation and preparation of site 15 min osteotomy preparation of site 5-10 min studring 5-10 min Studring 5-10 min finishing, cool-down period

- 2 min bite registration 3 min adjust bite registration 5 min size recesses for attachn
- 5 min attachment processing
   5 min adjusting/cleaning denture/placing nylon inserts
   5-7 min patient instructions & demonstration
   5 min review home-instructions & Rx

103

#### Recommend Surgical Tray Contents Periodontal elevat 10-15x 2x2 gauze pads Topical anesthetic ≥ 4 carpules local anesthetic 1x pack suture Bite-block Monoject syringe Sterile water Contraangle surgical ha Straight surgical handp Any extraction forceps 12 blade w/ handle

104

#### Recommend Surgical Tray Contents



Some clinicians utilize two implant surgical kits to enhance systems and encourage 4-handed assisted implant surgical procedures

#### Recommend Surgical Tray Contents

Assistants should prep as much as can to enhance efficiency

- Drill stops sized & loaded on □ drills to be used
- Sterile floss tied on directional indicators
- Torque wrench assembled with drivers pre-loaded



105 106

#### Sterility & Patient Prep



107



#### Sterility & Patient Prep



108

Some practitioners prefer "hospital-grade" sterility for implant surgical procedures

- Mobile stand with sterile blue wraps
- Patient body & head wraps with towel clamps holding wraps
- Head & eye cover for patients Plastic covering for surgical tubing

#### Sterility & Patient Prep



Simple sterile surgical setups with "clean-disinfected" surfaces is as effective as hospital-level sterile surgical setups

Sterile latex/nitrile gloves Blue paper wrap for surgical kits for opening sterile and holding instruments Sterile aluminum foil wrap for handles

#### Implant Motors



Use an implant-specific surgical motor system

Traditional operative dental handpieces are insufficient in implant surgical applications

Controlling water flow during implant surgical procedures is critical

109

110

#### Local Anesthesia

#### Mandibular overdentures

- IAN Block
- Long-Buccal & Infiltration

#### Maxillary overdentures

- Regional Anesthesia via Infiltration Palatal Injections
- Consider Palatal Regional Anesthesia

Anatomy Review

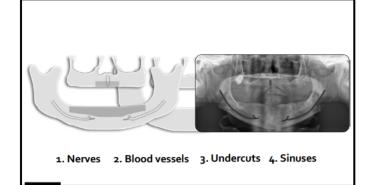
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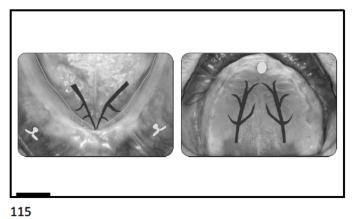
#### The "Big Four"

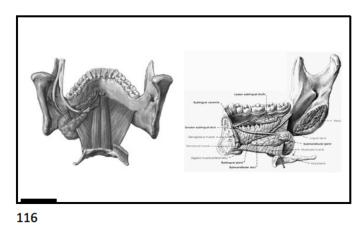
- 1. Nerves
  - 2. Blood vessels
    - 3. Undercuts

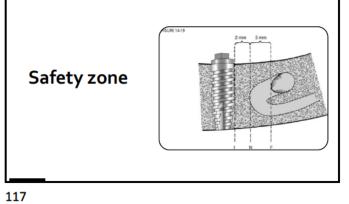
4. Sinuses

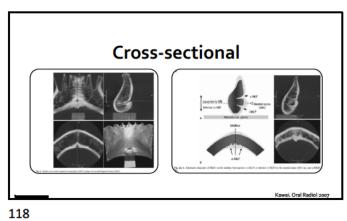


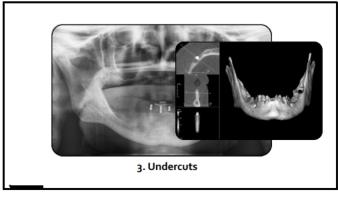
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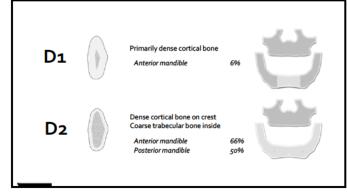


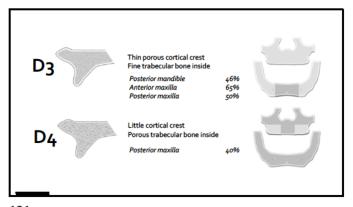


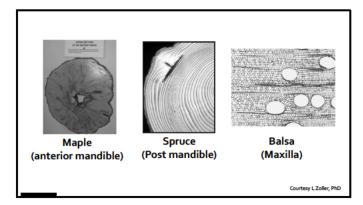


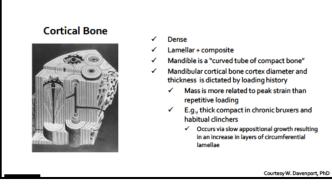


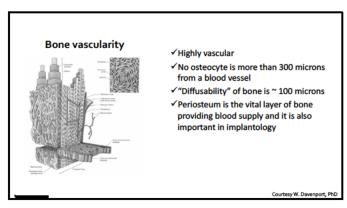




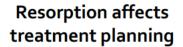








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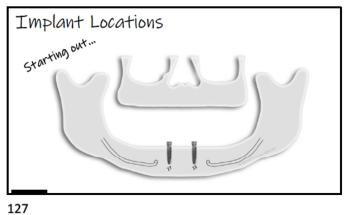


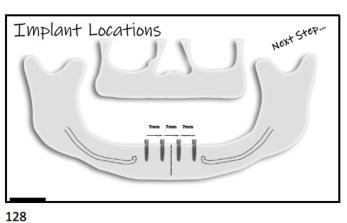


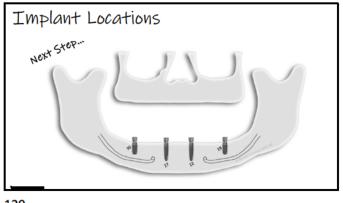
Predictable Implant Locations

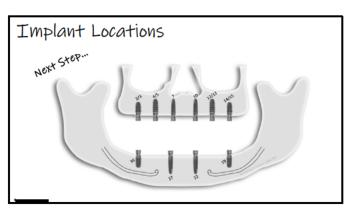
4/15/2025

Review by State of Nevada CE

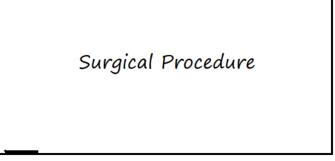




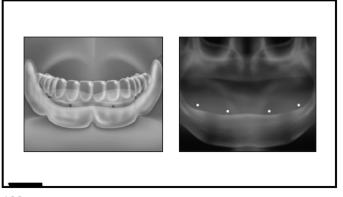


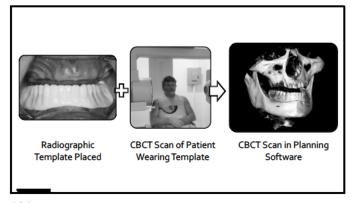


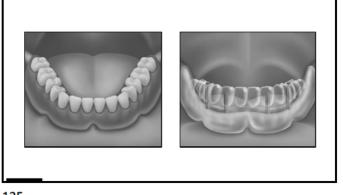
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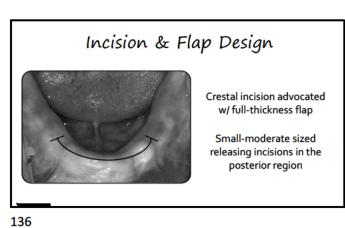




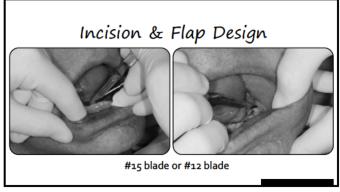


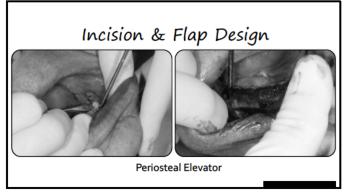


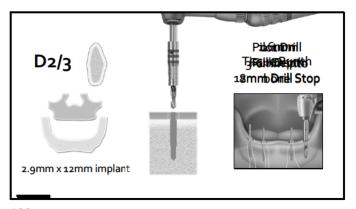


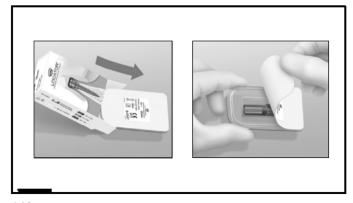


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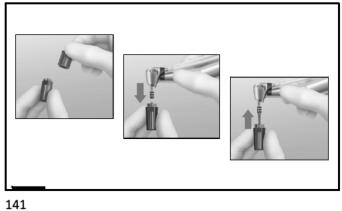


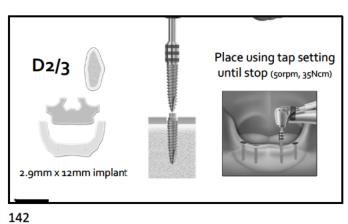


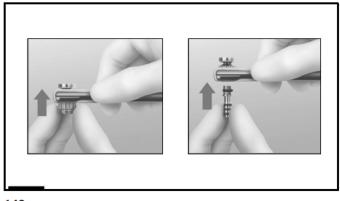


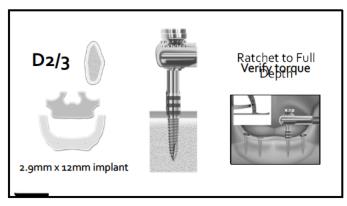


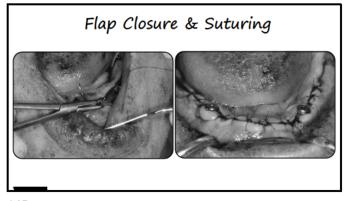
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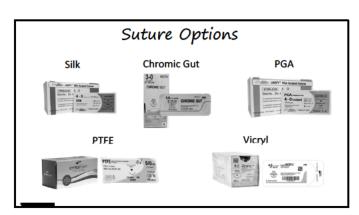


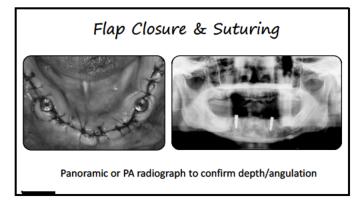


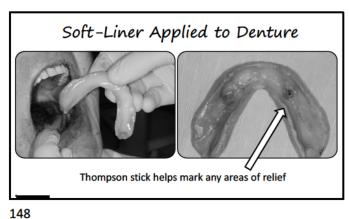




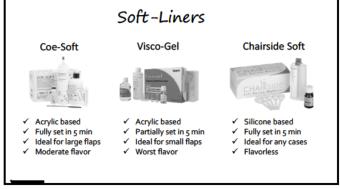








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#### 1-Week Follow-Up



Bruising is a normal part of overdenture surgery

Inform patients they should expect some bruising and swelling

Expect higher rates of submental swelling/bruising in older female patients

152



#### Healing Strategies

#### Mandibular Cases

✓ High-torque implants: 6-8 weeks recall & PAN/PA
 ✓ Low-torque implants: 8-12 weeks recall & PAN/PA

#### **Maxillary Cases**

- High-torque implants: 8-12 weeks recall & PAN/PA Low-torque implants: 4-6 months recall & PAN/PA



153 154



Restorative Clearance





**Healing Abutments** Ready for Restorative Procedures

Cover Screws & Flap Closure Requires Surgical Uncovery

#### Essential Surgical Procedures for Implant Overdentures

#### Overdenture Surgery Options

1. Free-Hand with Panoramic X-ray





Free-Hand with CBCT & "denture duplicate pilot guide"



Guided Surgery with CBCT & "computerized guide"

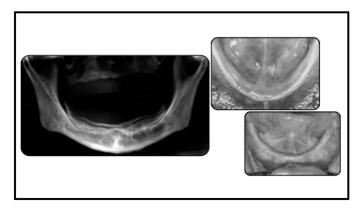




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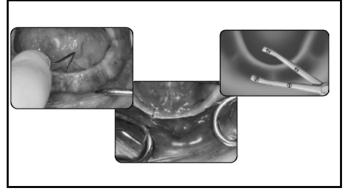
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Free-Hand with Panoramic X-Ray



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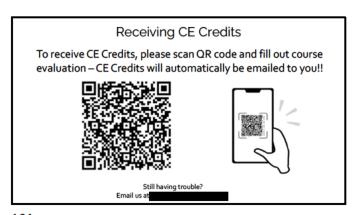
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