

Dental Resource Center Infection Control Training Course

Required by dental professionals practicing in the state of California

2 CE Credits

California Code of Regulations Title 16 §1005

Minimum Standards for Infection Control

This CE course covers the regulations required by the California Division of Occupational Safety and Health (Cal-DOSH).

Please read through the following material and study it carefully. Then proceed to take the CE exam to receive your 2 CE credits for Infection Control.

Definitions of terms

“Standard precautions”

- Set of combined precautions that include the major components of universal precautions (designed to reduce the risk of transmission of blood borne pathogens) and body substance isolation (designed to reduce the risk of transmission of pathogens from moist body substances).
- Similar to universal precautions, standard precautions are used for care of all patients regardless of their diagnoses or personal infectious status

“Critical instruments”

- Surgical and other instruments used to penetrate soft tissue or bone

“Semi-critical instruments”

- Surgical and other instruments that are not used to penetrate soft tissue or bone, but contact oral tissue

“Non-critical instruments and devices”

- Instruments and devices that contact intact skin

“Low-level disinfection” is the least effective disinfection process:

- Kills some bacteria, viruses and fungi,
- Does not kill bacterial spores or mycobacterium tuberculosis var bovis (laboratory test organism used to classify the strength of disinfectant chemicals)

“Intermediate-level disinfection”

- Kills mycobacterium tuberculosis var bovis indicating that many human pathogens are also killed, but does not necessarily kill spores

“High-level disinfection”

- Kills some, but not necessarily all bacterial spores
- Kills mycobacterium tuberculosis var bovis, bacteria, fungi, and viruses

- All germicides must be used in accordance with intended use and label instructions

“Sterilization”

- Kills all forms of microbial life

“Personal Protective Equipment” includes items such as:

- Gloves, masks, protective eyewear and protective attire (gowns/labcoats) which are intended to prevent exposure to blood and body fluids

“Other Potentially Infectious Materials” (OPIM) means any one of the following:

- Human body fluids such as saliva in dental procedures and any body fluid that is
- Visibly contaminated with blood, and all body fluids in situations where it is
- Difficult or impossible to differentiate between body fluids;
- Any unfixated tissue or organ (other than intact skin) from a human (living or dead)
- HIV-containing cell or tissue cultures, organ culture and blood, or other tissues from experimental animals

All dental offices shall:

- Comply with infection control precautions mandated by the California Division of Occupational Safety and Health (Cal-DOSH)
- Comply with and enforce the following minimum precautions to minimize the transmission of pathogens in health care settings: Standard precautions shall be practiced in the care of all patients

Written protocol

- A written protocol shall be developed by the dental office for proper instrument processing, operatory cleanliness, and management of injuries
- A copy of this regulation shall be conspicuously posted in each dental office

Personal Protective Equipment:

- Health care workers shall wear surgical facemasks in combination with either chin length plastic face shields or protective eyewear when treating patients whenever there is potential for splashing or spattering of blood or OPIM
- After each patient, and during patient treatment if applicable, masks shall be changed if moist or contaminated
- After each patient, face shields and protective eyewear shall be cleaned and disinfected, if contaminated
- Health care workers shall wear reusable or disposable protective attire when their clothing or skin is likely to be soiled with blood or OPIM.
- Gowns must be changed daily or between patients if it should become moist or visibly soiled
- Protective attire must be removed when leaving laboratories or areas of patient care activities. Reusable gowns shall be laundered in accordance with Cal-DOSH Bloodborne Pathogens Standards

Hand Hygiene:

- Health care workers shall wash contaminated or visibly soiled hands with soap and water
- and put on new gloves before treating each patient
- If hands are not visibly soiled or contaminated an alcohol based hand rub may be used as an alternative to soap and water
- Health care workers who have exudative lesions or weeping dermatitis of the hand shall refrain from all direct patient care and from handling patient care equipment until the condition resolves

Gloves:

- Medical exam gloves shall be worn whenever there is a potential for contact with mucous membranes, blood or OPIM
- Gloves must be discarded upon completion of treatment and before leaving laboratories or areas of patient care activities
- Healthcare workers shall perform hand hygiene procedures after removing and discarding gloves
- Gloves shall not be washed before or after use

Sterilization and Disinfection:

- Heat stable critical and semi-critical instruments shall be cleaned and sterilized before use by using steam under pressure (autoclaving), dry heat, or chemical vapor
- FDA cleared chemical sterilants/disinfectants shall be used for sterilization of heat-sensitive critical items and for high-level disinfection of heat-sensitive semi-critical items
- Critical and semi-critical instruments or containers of critical and semi-critical instruments sterilized by a heat or vapor method shall be packaged or wrapped before sterilization if they are not to be used immediately after being sterilized
- These packages or containers shall remain sealed unless the instruments within them are placed onto a setup tray and covered with a moisture impervious barrier on the day the instruments will be used and shall be stored in a manner so as to prevent contamination
- All high-speed dental hand pieces, low-speed hand piece components used intraorally, and other dental unit attachments such as reusable air/water syringe tips and ultrasonic scaler tips, shall be heatsterilized between patients.
- Single use disposable instruments (e.g. prophylaxis angles, prophylaxis cups and brushes, tips for high-speed evacuators, saliva ejectors, air/water syringe tips) shall be used for one patient only and discarded.
- Needles shall be recapped only by using the scoop technique or a protective device.
- Needles shall not be bent or broken for the purpose of disposal. Disposable needles, syringes, scalpel blades or other sharp items and instruments shall be placed into sharps containers for disposal according to all applicable regulations.

- Proper functioning of the sterilization cycle shall be verified at least weekly through the use of a biological indicator (such as a spore test). Test results must be maintained for 12 months.

Irrigation:

- Sterile coolants/irrigants shall be used for surgical procedures involving soft tissue or bone
- Sterile coolants/irrigants must be delivered using a sterile delivery system

Facilities:

- If items or surfaces likely to be contaminated are difficult to clean and disinfect they shall be protected with disposable impervious barriers
- Clean and disinfect all clinical contact surfaces that are not protected by impervious barriers using a Cal-EPA registered, hospital grade low- to intermediate-level disinfectant after each patient. The lowlevel disinfectants used shall be labeled effective against HBV and HIV.
- Use disinfectants in accordance with the manufacturer's instructions.
- Clean all housekeeping surfaces (e.g. floors, walls, sinks) with a detergent and water or a Cal-EPA registered, hospital grade disinfectant.
- Dental unit water lines shall be anti-retractive. At the beginning of each workday, dental unit lines shall be purged with air, or flushed with water for at least two (2) minutes prior to attaching handpieces, scalers and other devices. The dental unit line shall be flushed between each patient for a minimum of twenty (20) seconds.
- Contaminated solid waste shall be disposed of according to applicable local, state, and federal environmental standards.

Lab Areas:

- Splash shields and equipment guards shall be used on dental laboratory lathes.
- Fresh pumice and a disinfected, sterilized, or new ragwheel shall be used for each patient.
- Devices used to polish, trim or adjust contaminated intraoral devices shall be disinfected or sterilized.
- Intraoral items such as impressions, bite registrations, prosthetic and orthodontic appliances shall be cleaned and disinfected with an intermediate-level disinfectant before manipulation in the laboratory and before placement in the patient's mouth. Such items shall be thoroughly rinsed prior to placement in the patient's mouth.

The Board shall review this regulation annually.

NOTE: Authority cited: Section 1614, Business and Professions Code. Reference: Section 1680, Business and Professions Code.

HISTORY:

1. New section filed 6-29-94; operative 7-29-94 (Register 94, No. 26).
2. Repealer and new section filed 7-8-96; operative 8-7-96 (Register 96, No. 28).

3. Repealer of subsection (a)(5) and subsection renumbering, amendment of subsections (b)(7), (b)(10), (b)(18)-(19) and (b)(23) and repealer of subsection (c) and subsection relettering filed 10-23-97; operative 11-22-97 (Register 97, No. 43).
4. Change without regulatory effect amending subsection (b)(4) filed 12-7-98 pursuant to section 100, title 1, California Code of Regulations (Register 98, No. 50).
5. Amendment of subsections (b)(11), (b)(13) and (b)(15) filed 6-30-99; operative 7-30-99 (Register 99, No. 27).
6. Amendment filed 3-1-2005; operative 3-31-2005 (Register 2005, No. 9). 9.