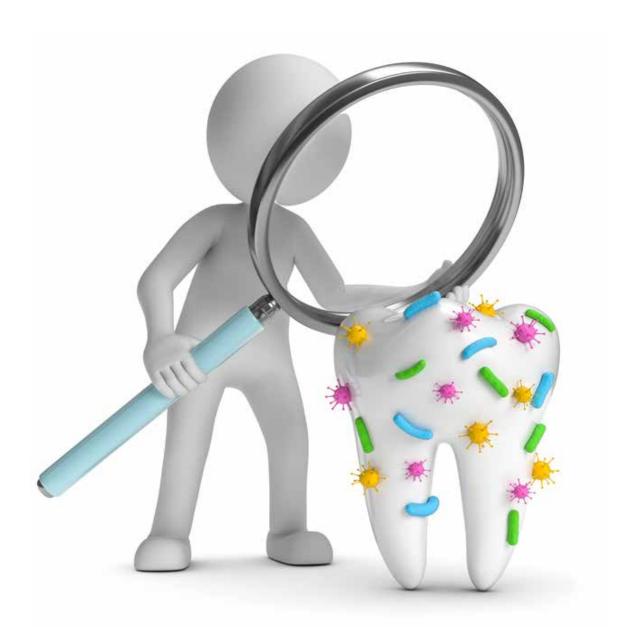


### **Infection Prevention and Control Practices**





The College of Dental Hygienists of Manitoba supports and approves of the Infection Prevention Control Practices document for its registrants.

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# MANITOBA DENTAL ASSOCIATION INFECTION PREVENTION AND CONTROL PRACTICES

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## 1.0 INTRODUCTION

## 1.1 Purpose of Document

industry leaders, who have given their time in the interest of public safety, and we are sincerely grateful. The safety through the development of documents and guidelines for use by Oral Healthcare Providers (OHCPs) such, the MDA has the fiduciary duty to regulate our profession in the public interest and to ensure public The Manitoba Dental Association (MDA) is the regulatory body for dentists and dental assistants in Manitoba. As It is meant to augment and support it. skill and judgment in the delivery of safe dental care. delivery of safe oral care. This document is not meant contributions to this document and as partners in the and we are grateful for their valuable insight and regulatory body for dental hygienists in Manitoba, dental offices in Manitoba. It was developed through requirements of infection prevention and control for of a dental practice. This document represents minimum provincial and federal regulations related to the operation maintain a safe office environment for patients, staff and in the delivery of dental care. Dentists have a duty to to replace the prudent dental professionals' knowledge, College of Dental Hygienists of Manitoba (CDHM) is the the collaboration and support of hardworking dedicated visitors alike. They must follow all current municipal,

and control practices of their offices. Annex 1 of the coordinator are to oversee the infection prevention Prevention and Control (IPC) Guidelines. It is control coordinator (dentist or designate/s). The duties recommended that each office identify an infection when compared with the 2006 MDA Infection Users will notice that there are revisions and updates 1.1.1 Summary of major revisions and additions

In this document, the following assumptions have been

- The terms "OHCP" and "staff" are used offices, and includes dentists, dental hygienists, dental conducting activities within or associated with dental assistants, anesthetists and other support persons. interchangeably. "Staff" encompasses all persons
- The term "dental office" includes any facility in which collective living centres and other institutional settings. community and school-based dental clinics, and oral care is provided, such as traditional dental

Other key revisions in this document:

organize this document: These four guiding principles have been used to

- Take action to stay healthy
- Avoid contacting blood/body fluids
- Limit the spread of contamination
- Make objects safe for use
- New vocabulary: definitions included in Glossary
- Requirements are best practices that are based on science and will be identified as a MUST in this
- Recommendation to acquire manufacturers Recommendations are based on the fact that there equivalent to that provided in a hospital setting. and patient safety provided in a clinical office setting is is an expectation by the public that the level of care
- Encourage the development of staff immunization to reprocessing

instructions for use (MIFUs) prior to purchase and prior

- Encourage Hand Hygiene Audit Program
- Management of disinfection for intraoral prosthesis and appliances before and after care
- Management of water quality for dental unit waterlines
- Recommend use of instrument dryer for drying
- Recommend use of borescopes for cleaning verification of small diameter lumens
   Removal of sterilization using dry heat
- Traceability of reprocessed instruments

Aseptic presentation of sterile instruments at point of

- Guidance during surgical procedures
- Chairside instrument sharpening protocol
- .1.2 Intended use

This MDA document of practices describes the minimum requirements that all OHCPs must meet to deliver dental care in a safe environment. This document also provides recommended practices to provide optimal oral health care.

aware and comply with infection prevention and control best practices. Every dental healthcare professional is responsible to be

settings, including but not limited to, community clinics, hospital based dental clinics, private offices and educational institutions involved in the delivery of dental and recommended policies care. Please see Annex 2 and 3 for a list of required for the safe delivery of dental care in various healthcare This document is intended to be used by all OHCPs

time and supported by scientific evidence. working document that will be updated from time to findings and expert opinion. This document is a fluid This document has been based on published research

## 1.2 Ethical Considerations

diagnosed infectious diseases. This includes using discriminating against any persons, including those with extraordinary and unnecessary infection control Oral healthcare professionals are prohibited from practices or other measures that are not used for all

Manitoba) recognizes persons living with AIDS or HIV-related illness as disabled. For example, Human Rights Legislation (Canada and

safeguards are in place for a culture of safety in their It is every dentist's responsibility to ensure that proper to report all workplace related injuries. workplace. Staff should be encouraged and supported

include a thorough medical history review. each time the patient presents for treatment, which will An assessment of transmission risk must be conducted

## Point of Care Risk Assessment (PCRA)

(HCW) in any healthcare setting in a continuum of care A PCRA is an activity whereby a healthcare worker

- Evaluates the likelihood of exposure to an infectious agent a. or a specific interaction with a specific patient
- Ω c. in a specific environment (e.g., single room under available conditions
- (e.g., no designated hand hygiene sink)
- iЛ patient, other patients in the environment, the minimize the risk of exposure for the specific Chooses the appropriate actions or PPE needed to (Preventing the Transmission of Infection in HCW, other staff, visitors or contractors, etc

Point of Care Risk Assessment (PCRA) -lealthcare - MHSAL) /www.gov.mb.ca/health/publichealth/cdc/

1.2.1 Duty to Notify
1.2.1.1 Healthcare provider self-reporting It is the responsibility of all regulated OHCPs to know their serologic status.

restricted from performing exposure prone procedures (EPP). Regulated OHCPs who know they are infected must

and/or hepatitis B. infected with bloodborne diseases, e.g., HIV, hepatitis C, A written protocol is required for staff who know they are

1.2.1.2 Reporting a patient with a communicable

The Public Health Act - Reporting of Diseases and and that the patient has been referred to a physician are followed if they have not already been reported appropriate notification requirements to Manitoba Health communicable disease, the dentist must ensure that Conditions Regulation [Schedule B] When a patient is diagnosed with a reportable

https://www.gov.mb.ca/health/publichealth/cdc/protocol/mhsu\_0013.pdf Annex 4

and lack of compliance using the most current version of the MDA IPAC practices document. compliance and retrained based on performance gaps appropriately trained in IPAC procedures, and that It is the dentist's responsibility to ensure that staff is fully operational. Staff members are monitored for necessary supplies and equipment are available and 1.3 Education, training and compliance

compliance and requirement for training. these practices are carried out in their facility. Hand must be done. All OHCPs should understand how hygiene audits are strongly recommended to ensure This document provides direction for what should or

## .3.1 Infection Prevention and Control Coordinator

IPACC (dentist or designate). See **Annex 1** for a suggested list of IPACC duties. is strongly recommended that each office identify an

approach It is recommended that offices take a collaborative team available for tailoring in individual offices. this document to do so and if there are choices Policies are developed when there is a requirement in

### .3.3 Eating and drinking

sterilization areas and in-office dental laboratories. Food and drink must not be stored in patient walkways drugs and other supplies. nor in refrigerators dedicated for biomedical wastes, Eating and drinking must not occur in operatories,

with CSA-Z800 is recommended. facilities, consultation with a contractor that is familiar For practices that may be renovating or building new 1.3.4 Environmental and structural considerations

Consideration should be given to the following:

surfaces that are flat, smooth, nonporous, cut resistant materials trequent cleaning should be protected with water barner humidity, and walls adjacent to areas that experience materials that will withstand frequent cleaning and high frequently. Walls and floors should be constructed of seamless, and can be cleaned and disinfected For all areas of the office, choose materials for work

## 1.3.4.2 Design principles in the medical device reprocessing (MDR) area

- be separated from patient care. There must be a central reprocessing area and it must
- The traffic and workflow in the MDR area must be one-way and continuous.
- PPE used in the MDR area is stored to prevent contamination from aerosols.
- the contaminated area rub stations are provided at the entrance and exit of Designated hand wash sinks or alcohol-based hand
- and (wet) clean instruments. one metre should exist between the final rinse sink Physical separation or spatial separation of at least
- Adequate storage space must be available for materials and equipment used for packaging and monitoring
- Storage for materials is appropriate to meet MIFUs for heat and humidity.
- there is no other space available, sterile items must Storage of sterile items, whenever possible, should not be in the contaminated area. be separate from the reprocessing area. When
- Storage of sterile instruments should not be in prevent contamination from aerosols available, it must be stored in an enclosed area to treatment areas. However, if no other space is

## .3.4.3 Ventilation and air changes in reprocessing

It is recommended that ventilation and air handling

The use of fans for cooling must not be used reprocessing area to the decontamination side. systems move air from the clean side of the

For practices that may be renovating or building new in reprocessing or in the clinical treatment area as fans deposit dust and airborne transmitted

builds or renovations, see **Annex 5.** .3.5 Purchasing medical/dental devices

CSA-Z800 is recommended. For additional information

on design principles in the MDR area for new office facilities, consultation with a contractor familiar with

dental devices must not be modified without Health manufactured and sold with the intention for use in a Canada approval must be purchased for use in the dental office. Medical healthcare setting and used according to their intention Only instruments and devices that have been

### and equipment used in healthcare 1.3.6 Health Canada approval for instruments, devices

following prior to purchasing: ensure that a product has been licensed, consult the All medical devices purchased for use in direct patient Health Canada's Medical Devices Regulations. treatment in Canada must meet the requirements of

- License (MDEL) listing
   For Classes 2, 3, and 4 Medical Device Active For Class 1 devices - Medical Device Establishment
- License Listing (MDALL)

### and/or previously used .3.7 Risks of buying medical devices from the internet

device from a source other than an authorized dental that is not trustworthy could result in the following: distributor. Purchasing a medical device from a source There are risks involved with purchasing a medical

- Procurement of a device that does not meet Health quality, and may not have the required Health Canada licence Canada's requirements for safety, effectiveness and
- Procurement of a product that has been recalled because of safety concerns
- Procurement of a counterfeit device or a lower quality
- product falsely labelled as being a higher quality brand
   Procurement of a product that has not been stored best before date) properly (some materials must be refrigerated until to heat) or for how long (and the product is past its used, while others should never be frozen or exposed
- A used medical device may have parts missing, no issues related to previous use and cleanliness warranty and/or no instructions, as well as safety

## 1.4 Manufacturer's Instructions for Use (MIFU)

note that not all MIFUs are validated. At the time of printing this document, the reader should Request validated (if available) MIFUs prior to purchase

where MIFUs are provided, unless they are single-use Only purchase instruments, devices, and equipment

MIFUs for reprocessing. accompanying device-specific validated (if available) Offices should create a device inventory with

Single-use devices that do not come with validated MIFUs must not be sterilized in the dental office setting. and do not come with validated MIFUs, they must be applicators. When single-use items are required sterile gauze, cotton rolls, cotton pellets and cotton tipped This includes disposable cotton products such as

## 1.5 Principles of Infection Prevention and Control

### 1.5.1 Chain of infection

the susceptible host through a portal of entry.

The transmission occurs directly when there is no cross-contamination. this is known as indirect transmission, also known as intermediary. When there is an intermediary, either an exits the source through a portal of exit and enters inanimate object (fomite) or an animate object (vector) Diseases are transmitted when an infectious agent

### 1.5.2 Modes of transmission

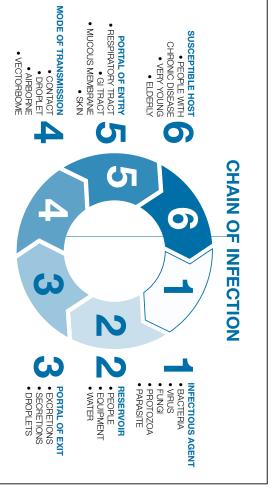
classification of modes of transmission are as follows: An infectious agent may be transmitted from its natural reservoir to a susceptible host in different ways. The

- Direct
- Droplet spread Direct contact

Indirect

- Airborne
- Fomite (surface)
- Vector borne (mechanical or biologic)

https://www.niinfectioncontrolmanual.net/basic-principles Figure 1: Chain of Infection



**INFECTION PREVENTION AND CONTROL PRACTICES - PAGE 10** 

and OHCP from transmission of disease. the patient, in any setting where healthcare is delivered regardless of suspected or confirmed infection status of prevention practices that apply to all patient care, Routine precautions are the minimum infection These practices are designed to protect both the patient

settings. The MDA, in collaboration with government suspected infection or colonization with highly airborne) that apply to patients with documented or publications/diseases-conditions/routine-practices precautions-healthcare-associated-infections.html authorities, will provide guidance when required. are needed to interrupt transmission in healthcare for which precautions beyond the routine precautions transmissible or epidemiologically important pathogens These are additional set of practices (contact, droplet

### 1.5.5 Guiding principles

this document: following four guiding principles and used to organize Routine precautions have been allocated into the

- Take action to stay healthy
- Avoid contacting blood/body fluids
   Limit the spread of contamination
- Make objects safe for use

## 2.0 TAKE ACTION TO STAY HEALTHY

respiratory diseases diseases, systemic diseases with oral lesions, and of four basic conditions: bloodborne diseases, oral Pathogenic agents may occur in the mouth as a result

### Requirements and Workplace Hazardous 2.1 Occupational Health and Safety

protective devices or clothing required by the employer its regulations, and use or wear any equipment, Employees must work in compliance with the Act and Materials Information System (WHMIS)

health of workers and others in the workplace. Employers are responsible for ensuring the safety and

employees. These procedures may include, but are not establish written procedures for the health and safety of and Regulation 2020, there is a duty for an employer to Under the Manitoba Workplace Safety and Health Act limited to, the following:

safe work practices and working conditions

Employers are obligated to keep WHMIS documents control of infections

proper hygiene practices and the use of hygiene

accessible in their workplace. Workplace Hazardous 2.2 Work restriction policies for healthcare Materials Information System (WHMIS): A Guide to the \_egislation is available at: /www.gov.mb.ca/labour/satety/index.html

## providers

Annex 6 healthcare providers with a communicable disease. Offices should have policies regarding exclusion of

### 2.3 Immunization

immunization policy. It is recommended that offices have a written

to develop and implement safe work procedures in document, found at the link below: vaccination. The following is excerpted from the full accordance with sections 39.3 to 39.6; including provides information on the employers' responsibility Regulation 2020, Section 39 - Health Care Facilities, Manitoba's Workplace Safety and Health Act and

www.gov.mb.ca/labour/safety/pdf/whs\_ace\_safety\_act\_and\_regs.pdf

the worker's risk of exposure to infectious materials eliminate or, so far as is reasonably practicable, reduce exposed to infectious materials, an employer must develop and implement safe work procedures to 39.3(1) If a worker at a health care facility may be

materials should include the following: 39.3(2) The safe work procedures on infectious

(a) procedures for storing, handling, using and disposing of infectious materials;

(b) procedures for identifying workers at the workplace who may be exposed to infectious

(c) intection control measures at the workplace, such

(i) vaccination,
(ii) engineering controls,
(iii) personal protective equipment,
(iv) personal hygiene,
(iv) pers

(v) management of the environment and equipment

(vi) patient accommodation,

(viii) infection control practices based on specific (vii) precautions for blood-bome pathogens, and

modes of transmission that may be micro-organisms require extra caution used in situations where certain diseases or

status and ensure that it is up to date All OHCPs must know their personal immunization

schedules.htm https://www.manitoba.ca/health/publichealth/cdc/div/ recommended immunization protocol HCWs should follow the Government of Manitoba-

to inform workers about recommended immunizations. immunization-workers.html#p3c10t1 guide-part-3-vaccination-specific-populations/page-11https://www.canada.ca/en/public-health/services/ Guide for health care workers. Employers have a duty recommendations from the Canadian Immunization Employers need to be aware of immunization canadian-immunization

### 2.4 Patient screening

safety during dental care. current health and health history that may affect patient information to provide a good overview of the patient's A medical history form should request sufficient

A PCRA should be performed before each interaction with the patient in order to determine the interventions that are required to prevent the transmission of infection.

systemically ill with diseases spread through airborne transmission, fit-tested N95 masks should be used If your office commonly treats patients who are Precautions must apply. when providing treatment and Iransmission

respirators/health-professionals.html devices/personal-protective-equipment/medical-masksdrugs-health-products/covid19-industry/medical https://www.canada.ca/en/health-canada/services/

advisories. Ask patients who appear ill if they have travelled to a country with a health advisory. Check government websites to learn about any health

## 2.5 Cough and sneeze etiquette

etiquette for patients and staff. It is recommended that a waiting room and staff room. Annex 7 poster for cough and sneeze etiquette be posted in the Instructions should be available on cough and sneeze

## 2.6 Disease management in the dental office

emergent. Patients infected with an acute infectious respiratory illness such as influenza and who have determine if their needs are non-urgent, urgent or (e.g., influenza, TB, "cold sore"), should be assessed to Patients infected with active communicable disease

> pharmacologically until they are no longer ill, if at all urgent or emergent needs should be managed

### attended to using Transmission Precautions and the disease. The patient's emergent needs must be who have contact with patients with airborne infectious Offices should develop written instructions for OHCPs 2.6.1 Patients with Airborne Infectious Disease

Elective dental treatment should be deferred until a physician or appropriately designated public health official confirms that the patient is no longer infectious

elapsed for air changes to remove infective particles. aerosols have been generated until sufficient time has operatory must not be used for further patient care if

Preventing the Transmission of Infection in Healthcare Routine Practices and Additional Precautions for

precautions-healthcare-associated-infections.html For reference see Table 4, pages 108-160 publications/diseases-conditions/routine-practices-/www.canada.ca/en/public-health/services/

### 2.6.2 Herpes Simplex

sores". Delaying care until the lesions are completely patients who exhibit what is commonly termed as "cold nealed should be considered. There should be a policy surrounding elective care for

www.novascotia.ca/dhw/cdpc/cdc

### 2.6.3 Bloodborne disease

An office culture of safety should be adopted, where reporting is encouraged and the use of safe practices for working with blood will help minimize occupational

Healthcare Workers in Healthcare Settings bloodborne diseases must follow the guidelines for Transmission of Bloodbome Viruses from Infected (PHAC) document: "Guideline on the Prevention of practice from the Public Health Agency of Canada Healthcare professionals who are diagnosed with

accessible\_aug-2-2019.pdf bloodbome-viruses-healthcare-workers/guideline occupational-infections/prevention-transmissiondocuments/services/infectious-diseases/nosocomialhttps://www.canada.ca/content/dam/phac-aspc/

for all staff. 2.6.3.1 Hepatitis B (HBV)
There should be a policy regarding HBV immunization

load in an infected person. treat HCV by lowering or eliminating the detectable viral for Hepatitis C, however, there are antiretroviral agents to There is no vaccine or post exposure treatment available

### .6.3.3 HIV/AIDS

although post-exposure prophylaxis is available and, provided as quickly as possible (within two hours is if deemed appropriate, after an exposure is ideally There is no immunization to protect against HIV,

infected person. lowering or eliminating the detectable viral load in an There are new antiretroviral agents to treat HIV by

guidance of their regulatory body. Regulated health professionals must also follow the

## 2.6.4 Human Papilloma Virus (HPV)

The use of vaccines is encouraging and dentists should consider discussing HPV vaccinations with their patients as HPV 16 and 18 are associated with oropharyngeal

## 2.6.5 Creutzfeldt-Jakob Disease

routinely reprocessed. See page 6 on the link below for devices used on at-risk, asymptomatic patients is instruments, including endodontic instruments and negligibly low, and therefore, such instruments can be The risk of prion transmission via non-surgical

gration/phac-aspc/nois-sinp/pdf/cjd-eng.pdf https://www.canada.ca/content/dam/phac-aspc/mi-

## 2.7 Guidelines for the identification of patients who may require antibiotic prophylaxis before dental

prophylaxis prior to dental procedures to prevent infective endocarditis American Heart Association's guidelines for antibiotic The Canadian Dental Association supports the

http://www.cda-adc.ca/en/about/position\_statements/

### Additionally,

magazine/articles/6233 https://www.rcdso.org/en-ca/rcdso-members/dispatch-

## 2.8 Prevention of prosthetic joint infection

Prophylactic antibiotics are not recommended for procedures to prevent prosthetic joint infection. patients with prosthetic joint implants prior to dental

recommend the appropriate antibiotic regimen and, it is most appropriate that the orthopedic surgeon In cases where antibiotics are deemed necessary, when reasonable, write the prescription.

Joint Replacement CDA Consensus Statement: Dental Patients with Tota

## 2.9 Antibiotic stewardship

use of antibiotics through appropriate: Antibiotic stewardship is the judicious and appropriate

- prescribing based on diagnosis
- correct dosing
- duration of therapy
- route of administration for the selected antibiotic

https://cahd-acdh.ca/antibiotic-stewardship/why-is-antimicrobial-stewardship-important-for-dentists/

### 2.10 Hand hygiene

 Table 1: Schedule of hand hygiene while providing patient care

Procedure	Rationale
Upon entrance to operatory	To prevent contamination of decontaminated clinical contact surfaces and/or when handling charts, viewing analogue radiographs, or accessing computer
	To reduce risk of contamination of other masks when retrieving mask
Immediately before donning gloves	To remove transient microorganisms transferred to skin during placement of mask and eyewear
	To prevent contamination of gloves during access and donning
	To reduce concentration of transient microbes on skin as the glove environment offers an ideal growing medium for microorganisms during patient care
After glove removal	Either immediately following glove removal and also following eyewear and mask removal OR following removal of gloves, mask, and eyewear. Choice will depend on perceived risk due to amount of body fluid transferred to gloves during treatment
Prior to leaving operatory	To reduce risk of transfer of transient microorganisms from the contaminated treatment area to general clinic setting

Hand hygiene is the single most important IPAC practice. Staff must be provided instructions for correct hand washing and correct alcohol-based hand rub (ABHR) use.

Hand hygiene must also be performed outside of the operatory whenever the hands have become contaminated with blood, saliva or other body fluid directly or indirectly in the dental laboratory, in the reprocessing area, and following cleaning other areas of the dental clinic.

## 2.10.1 Effective hand hygiene techniques

2.10.1.1 Handwashing using soap and water Hands must be washed with soap and water to remove visible soil. Routine use of antimicrobial soaps is not necessary. Bar soaps must not be used.

Products purchased for use in Canadian healthcare settings should have either a Health Canada Drug Identification Number (DIN) or a Natural Product Number (NPN).

Surgical hand hygiene must be performed with an antimicrobial scap with residual antimicrobial activity.

Refillable soap dispensers must not be topped up. They are to be cleaned, rinsed, dried, and then refilled according to MIPUs.

## http://publications.gc.ca/collections/collection\_2012/aspc-phac/HP40-74-2012-eng.pdf

Hand wipes may be used as an alternative to soap and water when hands are visibly soiled and running water is not available. Use of wipes in this instance should be followed by an ABHR and hands should be washed as soon as a suitable hand washing sink is available. After washing, hands must be thoroughly rinsed and dried using single-use disposable towels.

Standing water must not be used when rinsing hands after washing.

Figure 2: How to perform hand hygiene using soap and water



Table 2: Technique for handwashing

- Avoid use of wrist and hand jewellery.
- 2. Running water of a comfortable temperature should be used to wet hands (not hot water)
- Enough soap should be used to lather all surfaces of the hands, including fingers, fingertips, between fingers, palms, backs of hands and thumbs, and base of thumb.
- The palms and backs of each hand should be rubbed vigorously, interocking and interfacing fingers to ensure finger and thumbs are rubbed to remove visible soil and/or organic material (should take 15 to 30 seconds).
- 5. Hands should be rinsed thoroughly in a downward position under running water
- 6. Hands should be dried thoroughly by patting with a single-use towel; electric hand dryers and multi-use hand towels should not be used in clinical areas.
- Manual faucets should be turned off with paper towels so that hands are not re-contaminated in the process.
- 8. Skin products should be applied regularly to maintain healthy intact skin

used. 2.10.1.2 Alcohol-based hand rubs (ABHR)
Only products specifically designed as ABHR with DIN or NPN, and with 70-90% ethanol formulation should be

Products will have an expiration date and no recall notice from Health Canada.

http://publications.gc.ca/collections/collection\_2012/aspc-phac/HP40-74-2012-eng.pdf

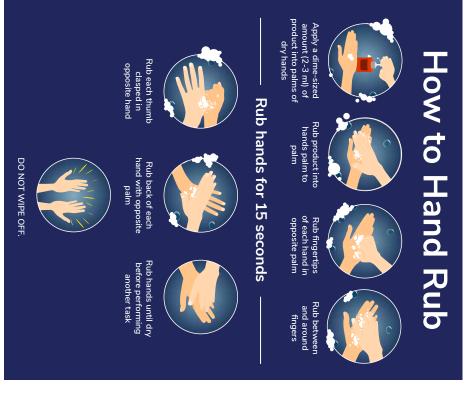
sanitizer.html drugs-health-products/disinfectants/covid-19/handhttps://www.canada.ca/en/health-canada/services

Table 3: Technique for using alcohol-based hand rubs

- Long sleeves should be rolled up.
- 2. Product should not be applied to wet hands, as they will dilute the alcohol.
- Manufacturer's instructions should be followed.
- 4. Enough product should be applied to wet the fingers, finger tips, between fingers, palms, backs of hands, thumbs and base of thumb.
- 5. All hand surfaces should be rubbed until product has dried

**INFECTION PREVENTION AND CONTROL PRACTICES - PAGE 16** 

Figure 3: How to perform hand hygiene using alcohol-based hand rubs



## 2.10.1.3 Hand hygiene audits

Offices should perform hand hygiene audits at least yearly or based on staff compliance. A goal of 100% compliance is desired for all team members. **Annex 8** 

2.10.1.4 Fingernalls and jewellery Offices should provide instructions about fingemails including length. Nail polish, artificial nails, hand and wrist jewellery should not be worn.

2.10.1.5 Latex sensitivity and allergies

dams, prophy cups, elastics, and certain medication vials). questionnaire. Dental patients with true latex allergy may latex allergy should be included on the medical history Offices are encouraged to develop a policy on their use of latex for staff and patients. A question regarding react to common products (e.g. masks, gloves, rubber

### propnylaxis 2.11 Exposure management and post-exposure

Offices must have a written exposure plan to manage injuries in the dental office. It should address the following:

- need for first aid or other medical assistance
- whether the injury is a significant exposure
- team member's medical history

### provide care and document Administer First Aid or activate EMS

### Identify and repor

- source person testing protocol
   report the injury to IPACC or designate
- facility that will carry out testing, treatment and follow
- up for a significant exposure IPACC will contact the designated treating facility/ ensure timely intervention department to inform of a significant exposure to
- document in employee file and/or chart

 who will transport the injured party and patient (if required, see source person testing protocol)

 who will pay for travel, treatment and follow up, if required

healthcare facility. further care or follow up counseling from their treating The injured worker will be given contact information for

The injured team member will provide IPACC or designate with information on the treatment received, cost and plan for follow up.

### 2.11.1.1 Assess 2.11.1 Steps in managing a significant exposure

Assess the extent of the injury; remove gloves or immediate clothing.

### 2.11.1.2 Administer First Aid and activate EMS First aid principles will apply

- Wash the area, including the wound using by squeezing the wound. This may introduce tissue damage. pathogens by negative pressure and/or promote to bleed normally. Do not promote bleeding antimicrobial soap and water. Allow the area
- 4 Exposed eye, mouth or nose mucosa should be flushed with copious amounts of water using an
- Ġ Do not apply caustic agents such as bleach or antiseptic into the wound.

2.11.1.3 Identify and Report 6. Report the injury to the Report the injury to the IPACC who should then transferred, if possible. the exposure to determine the amount of blood examination of the instrument involved during following injury. The protocol should include initiate the required documentation and protocol

- 2.11.1.4 Transport
   7. Transportation Transportation to a hospital or urgent care center which has been predetermined.
- φ Communicate with the source person to review care center for testing if required medical history. Iransport to the hospital or urgent
- 9 Risk counselling should be made available amount of exposure to blood and the depth of the Counselling will be needed most if the source, the injury are unknown.
- <u>1</u>0. particulars of the work place injury. that this is a significant exposure and provide When presenting at the designated facility, state

### 2.11.1.5 Cost

## Documentation should include

- The name of the exposed OHCP
- The date and time of the exposure
- A description of the exposure
- The name and health status of the source person Referral and follow-up for counselling and post-

## exposure management as necessary. Annex 9

## 2.11.2 Post-exposure prophylaxis (PEP)

qualified medical professional to determine the risk of Every significant exposure must be evaluated by a of risk and transmission will be based on: transmission of bloodbome pathogen. The assessment

- the nature of the exposure (i.e., percutaneous injury, mucous membrane or non-intact skin exposure) the type and amount of body fluid or tissue involved
- known infection status of the source
- the susceptibility of the exposed person

necessary, it should be done as soon as possible after If the need to administer PEP is determined to be the exposure.

ideally provided one to two hours after the exposure. Anti-retroviral drugs to treat an HIV exposure are

its coverage for HIV PEP medication and will The Government of Manitoba has expanded provide coverage for the full 28-day course of PEP

- Clients who have active Manitoba Health to receive PEP medications free of charge for Workers Compensation claim), will be eligible Assistance, private insurance program, eligible drug program, Employment and Income through an insurance program (e.g., federal coverage and who do not have 100% coverage
- medications provided depending on the Clients will still receive a three-day starter kit if other participating sites, with additional presenting at an Emergency Department or at
- protocol/hiv\_prescription.pdf on the Public Health website at Claims Submission Procedure. It can be found The PEP prescription form has been updated to include program eligibility and the Pharmacy https://www.gov.mb.ca/health/publichealth/cdc/

## 2.12 Exposure prevention

Regular documentation as required for OHCP injuries should be completed by the IPACC to determine types of injuries, and if these injuries can be reduced through use of work-practice controls focused training, use of engineering controls, or through

## 3.0 AVOID CONTACTING BLOOD/BODY FLUIDS

## 3.1 Personal Protective Equipment (PPE)

Act) requires that office owners protect their workers. Offices must comply with MDA and public health which is determined by the procedure and public health dental office. The choice of PPE is dependent on risk guidelines regarding the use of worker and PPE in the Manitoba Legislation (Workplace Health and Safety

contamination. OHCPs must avoid touching their face, hair, and other PPE with their gloved hands following and during treatment should be developed to limit cross placement Documented procedures for adjustment of PPE prior to

appropriate, in compliance with office and public health Protective clothing may remain on if deemed PPE must be removed prior to leaving the operatory.

Protective clothing is wom to protect the skin from potentially infectious fluids. When short sleeved protective clothing is worn, hand hygiene must include cleaning the forearms to the elbow 3.1.1 Protective clothing for routine precautions

> Protective clothing is changed at least daily or more frequently if contaminated with visible soil or penetrated by blood or other potentially infectious fluids

- When scrubs are worn as a uniform, they are protective clothing during treatment. donned and doffed in-office, covered by other
- to launder at home. a laundry service or taken off and placed in a bag Clothing or scrubs may be laundered in office, by

is discouraged. Wearing of uniforms or scrubs outside the dental office

### 3.1.1.1 Gowns

on the clinical procedures being performed. used is appropriate for fluid resistance and dependent Offices using disposable gowns must ensure the gown

and forearms. They should also cover the torso from neck to knees and wrap around the back to prevent contamination of street the clothes. Gowns should have long sleeves to protect the wrists

available in oral healthcare settings to ensure appropriate coverage for all staff members. **Annex 10** to manufacture gowns, they must be resistant to liquid to gown performance. Regardless of the material used and microbial penetration. Several gown sizes should be materials (OPIM) penetration of the barrier and contribute Gowns, which are Class II medical devices, may be fabric affect blood and other potentially infectious disposable or reusable. Repellency and pore size of the

and before leaving patient-care areas. as soon as possible when penetrated by blood or OPIM Surgical gowns should be changed between patients,

### 3.1.1.2 Masks

clinical procedure being performed the facility, identifying the appropriate mask for the Written instructions for mask use should be available for

it becomes wet. changed between patients or during patient treatment if procedures. When a mask is used, it should be mouth and chin and worn during patient care Surgical or procedural masks must cover the nose,

providing treatment and Transmission Precautions must transmission, fitted N95 masks should be used when systemically ill with diseases spread through airborne If your office commonly treats patients who are

Table 4: Gown level & clinical use

Barrier protection	Potential fluid level, spray or splash guidance (FDA)	Cross-reference for dentistry
Level 1 for minimal risk	Basic care, standard isolation, cover gowns for visitors, or for use in a standard medical unit	Examination, perio-probing, hand scaling, routine restorative dentistry or endodontic treatment with a rubber dam or simple extractions
Level 2 for low risk	Drawing of blood, suturing, in the intensive care unit (ICU), or a pathology lab	Spatter or aerosol generating procedures (AGPs) including those without a rubber dam, ultrasonic scalers, or dental prophylaxis. Complex extractions, perio-surgery and implant procedures
Level 3 for moderate risk	Arterial blood draw, inserting an intravenous (IV) line, while in the emergency room, or for trauma cases	Equivalent oral and maxillofacial procedures
Level 4 for high risk	Long fluid intense procedures, surgery when pathogen resistance is needed, or infectious diseases are suspected (non-airborne)	Equivalent oral and maxillofacial procedures

(IPAC Canada) provides a tight facial seal with less than 10% leakage. one micron in size, has 95% filter efficiency and apply. A NIOSH-certified N95 respirator filters particles

3.1.1.3 Protective eyewear must be wom by the dental team the cheeks goggles, safety glasses or loupes that touch the top of and patient. Appropriate protective eyewear includes:

and have top and side shields

have top and side shields. A face shield is required if prescription eyewear does not

> worn, a mask is still required to protect against aerosols becomes visibly contaminated. When a face shield is following MIFUs between patients and whenever it Protective eyewear must be cleaned and disinfected

### Eyewash station

and must meet the requirements identified in Safework Manitoba #104, Emergency Washing Equipment [Section III-C, Subject G-17] Emergency eyewash equipment must be available

emergency-eyewash-equipment.pdf safe\_workplace/section-iii/section-iii-c/pubs/g-17https://www.gov.mb.ca/inr/publications/

**Table 5:** American Society of Testing and Materials (ASTM) Criteria for Healthcare Mask Levels

	The second secon	o i i i i i i i i i i i i i i i i i i i	a o magazina	
Level	Clinical Use	Fluid Resistance (Increased resistance to fluid as pressure rises)	Filtration (Increased filtration as percentage increases)	Breathability (Increasing resistance results in less breathability)
_	For procedures producing low fluid, spray, or aerosol	80 mm Hg	95%	4 mm H2O/cm2
2	For procedures producing moderate fluid, spray, or aerosol	120 mm Hg	98%	5 mm H2O/cm2
З	For procedures producing high fluid, 160 mm Hg spray, or aerosol	160 mm Hg	98%	5 mm H2O/cm2

# **INFECTION PREVENTION AND CONTROL PRACTICES - PAGE 20**

contact with bodily fluids, mucous membranes, or them. Gloves must be wom when direct or indirect non-intact skin (including rashes) is anticipated. immediately before donning gloves and after removing infection and injury. Hand hygiene must be performed Gloves are worn to protect OHCPs and patients from

- New gloves must be worn for each patient and were intended placed immediately before the activity for which they
- where they are used Gloves must not be worn outside any room or area
- Once removed, they must be discarded immediately, not carried, nor placed into pockets.
- Gloves must not be washed or re-used.
- Double-gloving may be utilized but must be procedure-specific, not patient-specific.
- Utility gloves must be worn during any activity where reprocessing. instrument or injury from chemicals. Follow MIFUs for there is risk of a puncture from a contaminated

## 3.2 Order of placement or donning PPE

- Protective outer clothing
- Hand hygiene
- Protective eyewear Mask
- Hand hygiene
- Gloves

## 3.3 Order of removal or doffing PPE

fluids during doffing. there is suspected or actual contamination from body Additional hand hygiene should be performed whenever

- Hand hygiene
- Protective eyewear
- Protective outer wear
- Mask
- Hand hygiene

### Donning Shared Health video: https://youtu.be/B5ew8020twc

https://youtu.be/Lly8DjGcvDM Doffing Shared Health video:

### 4.0 LIMIT THE SPREAD OF CONTAMINATION

## 4.1 Aseptic Technique Principles

the contaminated items with clean or sterile items. infection control is broken, stop treatment and replace preventing the spread of microorganisms using the OHCP's must understand the facility's protocols for following aseptic techniques. Anytime the chain of

## 4.1.1 Aseptic presentation of sterile instruments

opened in front of patients whenever possible. Outside of sterile packages are not handled with gloved hands Operatories must be set up as close to the start time as possible. Sterile instruments and devices should be that are used for patient care (outside is not sterile).

## 4.1.2 Unit dose principle for materials

- Dispense the projected amounts of disposables and
- Discard unused disposables including single-use materials that have been partially used. materials. Disinfect the dispensers following care.

### dispensed during treatment 4.1.3 Touching only patient and patient care items

gloved hands Touch as few surfaces as possible with contaminated

- When a surface cannot be disinfected, it must be protected with a medical grade barrier.
- PPE, personal clothing, skin or hair, or any operatory be touched once treatment gloves have been placed. surfaces not involved with direct patient care are not to

## 4.1.4 Removal of all storage containers from treatment

with other clinical contact areas following each patient. If items are not removed, they must be decontaminated

### 4.1.5 Equipment barriers

according to MIFUs. Bib holders should be disposable or reprocessed

4.1.6 Reducing airborne bioburden Consideration should be given to reducing airborne This can be reduced through the use of: bioburden during aerosol generating procedures.

- Pre-procedural mouth rinse
- Use of treatment barriers such as rubber dam and high volume suction

## 4.2 Environmental disinfection

on non-critical medical devices are regulated under environmental surfaces, inanimate objects, or for use Chemical products used as disinfectants on Canada's Food and Drugs Act and Regulations

broad spectrum of bacteria including enveloped and non-enveloped viruses, fungi, and a choose hard surface disinfectants that will inactivate determine their needs for microorganism kill prior to purchase of hard surface disinfectants. The use of the oral environment, it is recommended that offices Because of the variety of microorganisms that are in disinfectant they are choosing will meet their needs longer directive. Hospital level means 'low level' the terms' low level' and 'intermediate level' are no Offices need to perform a risk assessment to The office needs to read labels to determine if the

Canada to demonstrate efficacy. have a drug identification number (DIN) from Health mycobactericidal. Hard surface disinfectants must

1. DIN on the Disinfectant products approved by Health Canada will

- DIN on the label: A computer-generated eightdrug or product prior to being sold in Canada. digit number assigned by Health Canada to a applications-submissions/guidance-documents/ services/drugs-health-products/drug-products/ nieciants/summary.htm
- Ņ Disinfectant products must have four (4) Kill Claims on the label
- Mycobactericidal
- Virucidal (broad spectrum including lipid and non-lipid test organisms) NOT Virucidal\* which means specific virucidal
- Bactericidal Fungicidal
- Annex 12 prior to purchase to ensure these two criteria are met OHCP's are encouraged to review the product labels

that meets the labelling requirements (provided above) day, following barrier removal, between patients, and followed by disinfection) before the first patient of the surfaces must be decontaminated (vigorous cleaning dental healthcare practitioner's (DHCP) gloved hands generated during dental procedures or by contact with from patient materials either by direct spray or spatter following the last patient of the day using a disinfectant instruments, devices, hands or gloves. Clinical Clinical contact surfaces can be directly contaminated These surfaces can subsequently contaminate other

> of microorganisms clean first for disinfectants to effect inactivation or kill production and risk of inhalation. Surfaces must be trigger sprayers is not recommended due to aerosol wipe method is preferred to spray-wipe-spray. Use of and according to disinfectant MIFUs. Use of wipe-

to ensure compatibility and should be consulted prior to purchase. Equipment and disinfectant MIFUs must be followed

during environmental decontamination. PPE appropriate to the level of risk must be worn

## 4.2.2 Housekeeping surfaces

Housekeeping surfaces, such as floors and walls, have a limited risk of disease transmission. Routine schedules patient use are also considered housekeeping surfaces. **Annex 13** contaminated. Toys and objects in the waiting room for be part of your IPAC policy and must occur when visibly and methods of cleaning housekeeping surfaces should

## 4.2.3 Cleaning up blood and bodily fluid spills on hard

may be required. Annex 14 cleaning carpets is inadequate, replacement of flooring contained, cleaned and disinfected (see 4.2). When Spills of blood and other body substances must be

## 4.3 Dental laboratory asepsis

paper prescriptions separate from wet impressions. **Annex 15** Finished devices, prostheses and appliances delivered to the patient must be free of contamination. Keep essential. Impressions, prostheses or appliances must Effective communication and coordination between the be cleaned and disinfected before transport to the lab. dental facility and commercial dental laboratory is

new gloves. Aprons must be disinfected following use. included with regular clinical surface cleaning following aerosol generating procedures, aprons must be and lead aprons are stored less than 2 meters from gloves are wom, they must be discarded. If equipment protected by barriers according to equipment MIFUs. cleaned and disinfected between patients and/or equipment (e.g. tube heads and control panel) must be 4.4 Asepsis during dental radiography Radiographic patient care when aerosols are produced. Lead aprons must be handled with clean bare hands or

decontaminated according to MIFUs must be reprocessed following use. Photostimulable Plates (PSP's) barriers and Digital Sensors must be Radiographic Image Receptor Positioning Instruments

## 4.4.1 Disinfection of analogue film, no barrier

appropriate surface disinfectant following exposure. Analogue film without barner must be disinfected using Expose films, drop film packets onto disinfectant

- Clean packets, drop onto new disinfectant wipe wipe or disinfectant soaked paper towel or cloth
- Drop into clean paper cup without touching and discard gloves, perform hand hygiene, contact time following disinfectant MIFUsRemove contaminated gloves to packets and allow correct and disinfect

## 4.4.2 Disinfection of analogue film with barrier

transport and process film.

hygiene, transport and process film. surface. Remove barrier from the film, dropping film onto a clear Remove and discard gloves, perform hand

### 4.5 Suction

Suction lines should be cleaned by purging with water between patients. Additionally, on a daily basis:

- Use an enzymatic cleaner, or
- Use a cleaner with a residual action, and
- Use according to MIFUs of unit manufacturer and separator MIFUs manufacturer of cleaning product and amalgam

Suction traps should be cleaned or replaced daily according to MIFUs.

### 4.5.1 Saliva ejectors

tightly to evacuate oral fluids backflow could occur when patients close their lips avoid closing their lips over the saliva ejector tip as OHCPs using saliva ejectors should instruct patients to

## 4.6 Amalgam separators

Amalgam hygiene is mandated federally. All offices that place, alter or remove dental amalgam must have and disposal of amalgam. documentation on the installation, maintenance of unit

## 4.7 Dental Unit Waterlines (DUWL)

DUWLs should consist of: Standard operating procedures for the management

- Monitoring through testing each DUWL including ultrasonic scalers to maintain waterline quality Management of failed tests for biofilm and E. ( <u>8</u>

coli and total coliform counts must be zero The biofilm count should be less than 500 cfu/ml, and E.

significance of high counts trained to interpret test results and understand the All members of the dental treatment team should be

> Clinical judgement will apply. Opened, unfinished bottles of sterile water and sterile saline must be that exposes initially sterile areas of the oral cavity involve the incision, excision, or reflection of tissue means must be used during surgical procedures that Sterile water or sterile saline delivered through sterile

saline for pulpotomies. Consideration should be given to use of sterile water,

## DUWL quality 4.7.1 General rules about monitoring and maintaining

monitoring products MIFUs. Water quality must be monitored through testing. Testing should follow equipment and water quality/

A suggested testing regime would be to monitor:

• Monthly for each DUWL and ultrasonic scaler until

- three consecutive monthly tests pass
- Waterlines that do not pass must be treated and every three months. retested. Tests thereafter should be conducted

change in water quality i.e., brown water, odor, or water Testing should also occur when there is a noticeable

## 4.7.1.1 Routine DUWL care

- Waterlines must be purged daily prior to treating must be purged for a minimum of 20 seconds following patient care two minutes or according to MIFUs. Waterlines oatients, with no attachments to the waterline for
- the office disinfectant according to unit MIFUs disinfectant that is safe for intraoral use such as contaminated from handling, clean it with a pickup tube. If the pickup tube becomes clean hands or clean gloves. Avoid touching the otherwise. Water bottles should be handled with during operatory disinfection unless MIFUs state Disinfect the outside of exposed water bottles before replacing the water bottle
- achieved using direct plumbing supply (city or the water supply must follow equipment and water maintenance product MIFUs. This step cannot be Continuous and intermittent (shock) disinfection of town water supply
- or in dental equipment

Waterline heaters must not be used in a dental unit

- Dead legs in building plumbing and dental units should be identified and clamped.
- Follow MIFUs for end of day or extendedabsence-waterline-shut-down-procedures

### 4.7.2 Boil water advisory

must be taken: During a boil water advisory, the following precautions

- Municipal water must not be delivered to the patient through DUWL
- as the alternative source has been tested to through closed delivery systems are used as long Alternative water sources that are delivered demonstrate that it is safe.
- Patients must not rinse their mouths with tap water. Use bottled or distilled water that is known
- should be used for hand hygiene. When hands Tap water is not used for hand hygiene. ABHRs can be used followed by ABHR. bottled or distilled water and soap or, hand wipes are visibly soiled, they should be washed using
- cleaning, rinsing and sterilizing, must be from a Water for instrument processing, including
- Postpone patient care if these conditions cannot clean or sterile source.
- When the boil water advisory is cancelled, follow water system lines, including any taps or other regarding adequate flushing of all incoming public guidance provided by the local water utility waterlines in the oral health care facility.

including waterlines, for equipment that uses the public minimum of five minutes prior to using for patient care, All faucets should be turned on completely for a

advisory\_3.pdi public-info/fact sheets/pdf/pr 5 factsheet boil water https://www.gov.mb.ca/sd/waterstewardship/odw/

### 4.8 Waste management

biomedical and general office waste Waste from dental offices is divided into two categories

## 4.8.1 Biomedical waste (anatomical and non-

and must not be disposed with regular garbage microorganisms. Biomedical waste is hazardous waste a manner that avoids transmission of potential infectious Biomedical waste must be handled and disposed of in

> 4.8.1.1 Anatomical waste (i.e., human tissue) biomedical waste carrier for disposal. stored appropriately and released only to an approved labelled with the universal biohazard symbol then be separated and collected in a "red liner" bag that is Anatomical waste, other than extracted teeth, must

### acutecare/Waste\_Management\_OD.pdf http://www.wrha.mb.ca/extranet/ipc/files/manuals

## 4.8.1.2 Non-anatomical waste (sharps and blood-

4.8.1.2.1 Sharps Sharps must be separated and collected in a

for disposal. released to an approved biomedical waste carrier the container or no more than 3/4 full, it must only be universal biohazard symbol. Once the container puncture proof 'sharps' container labelled with the has reached the capacity designated by a line on

## 4.8.1.2.2 Blood-soaked materials

- Blood-soaked materials are defined as those that release liquid or semi-liquid blood if compressed.
- Items that do not release blood when compressed are considered general office waste.
- Blood soaked materials must be separated and collected in a "yellow liner" bag that is labelled with the universal biohazard symbol. If blood-soaked an approved biomedical waste carrier for disposal Blood-soaked materials must only be released to days, they must be stored like anatomical waste. materials are to remain on site for more than four

### 4.8.2 General office waste

careful containment and removal. do not require any special disposal methods other than waste. Most soiled items generated in dental offices General office waste is no more infective than residential

provincial regulations and municipal bylaws. For further information regarding the disposal of these and chemical wastes from dental offices, refer to the MIFUs and requirements or bylaws in your municipality or city. Disposal of mercury, silver, and lead are subject to

## 4.8.2.1 Handling of extracted teeth

- Extracted teeth are not classified as biomedical waste. Extracted teeth with amalgam fillings should be treated as mercury-containing waste and disposed
- If being sent to a dental laboratory for shade or size comparisons, extracted teeth should be cleaned and

## 5.0 MAKE OBJECTS SAFE FOR USE

carried out. (IPAC Canada) reprocessing shall be met in any setting where it is where the procedure is performed, and standards of Clients expect and require safe care regardless of

instruments and devices have adequate training to correctly perform all the steps of reprocessing. Staff who at least annually. are not trained must not work without supervision. A 5.1 Medical device reprocessing
The dentist owner must ensure that staff who reprocess review of processes and training should be conducted

### Requirements:

treatment of patients requires: The reprocessing of instruments and devices used in the

- Manufacturer's "validated" instructions for cleaning and sterilization
- Staff must have current knowledge of effective who are trained in the complex tasks of reprocessing and devices must be trained or supervised by those documentation. OHCPs who reprocess instruments reprocessing methods, maintenance, monitoring, and
- Written standard operating procedures (SOPs) should be included in the office infection control manual for medical device reprocessing and provided to all staff. This would include policy development within the individual dental office for those issues where MDA

### One-way workflow

- There should be physical separation between the of the work area producing splashes and spatter barrier a physical barrier of 1 metre minima should separate the two areas from the level and clean instruments is not available, a physical separation between the rinse sink or rinse basin final rinse and drying area). Where spatial (CSA-Z8000) contaminated area and the clean area (between minimally
- Ensures that each level of reprocessing, including to a higher level came into contact with a lower-level-processed medical device or processing areas. (CSA contamination that would occur if items processed being reprocessed. One-way workflow prevents reduces the microbial load on medical devices cleaning, disinfection and sterilization, incrementally Z314-18)
- station must be available at the entrance to and exit be used as hand hygiene sinks. A sink or an ABHR Sinks used for instrument reprocessing must not from the instrument cleaning area
- When sterile instrument packages are stored in the

obtain packages must be performed prior to entering that area to clean part of the reprocessing section, hand hygiene

## 5.1.1 PPE for reprocessing

Staff working in the reprocessing area must wear appropriate PPE. During all stages of instrument reprocessing, OHCP must wear:

- protective outerwear appropriate to the task being wrist during activities where splashing is expected front of body, at least to the knee, and arms to the performed and with fluid resistant gowns covering the
- protective eyewear: face shield preferred in the masks, appropriate to the need for fluid resistance all other processes cleaning area and, at minimum, safety glasses during
- treatment gloves when risk of injury from exposure to puncture-resistant utility gloves when there is risk of injury from contaminated and/or sharp instruments
- consideration should be given to shoes that are enclosed front and back, non-skid, can be disinfected and sufficiently durable to protect the OHCP if an instrument should fall and strike the foot. instruments is considered minimal

decontaminated in washer/disinfectors stage. Gowns and gloves for further steps are not done between the final rinse and the instrument drying and/or automated washers, it is recommended that PPE used during cleaning is replaced with new PPE required for devices the next steps in reprocessing (CSA Z314-18). This is When devices are cleaned manually, using ultrasonics ರ್

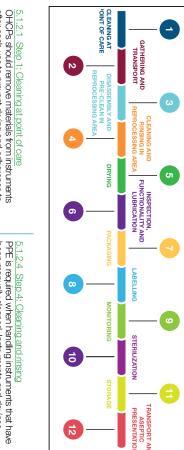
determined by risk. PPE for other staff while in the reprocessing area will be

- 5.1.2.1 cleaning at point of care
  5.1.2.2 gathering and transport
  5.1.2.3 clisassembly and pre-clean
  5.1.2.4 cleaning and rinsing
  5.1.2.6 inspection, functionality testing, lubrication
  5.1.2.7 packaging
  5.1.2.8 labeling
  5.1.2.9 monitoring
  5.1.2.10 sterilization
  5.1.2.11 storage
  5.1.2.12 transport and aseptic presentation for 5.1.2 Instrument reprocessing steps (CSA Z314-18)

inspection, functionality testing, lubrication

- patient use

Figure 4: Steps for instrument reprocessing



is preferable amalgam, at point of care. Use of non-woven gauze of materials, notably composite, luting agents and after each use to prevent drying and adherence to OHCPs should remove materials from instruments instruments. Offices should follow MIFUs for removal

## .2.2 Step 2: Gathering and transpor

- Instruments from packages opened during patient care are considered contaminated.
- Instruments from unopened packages exposed to reprocessed as if used. aerosols are considered contaminated and must be
- OHCP must wear protective outerwear, masks, contaminated instruments protective eyewear and utility gloves to gather
- PPE must be worn during transport when the outside of the transport container becomes contaminated
- Customization of PPE use during transport should be during placement of instruments.
- Instruments and devices must be transported from disinfected following each use. closed, puncture proof, leak proof container that is the treatment area to the reprocessing area in a

determined based on office design.

## 5.1.2.3 Step 3: Disassembly and pre-clear

- Hinged instruments must be opened for cleaning and must remain open throughout reprocessing.
- Instruments should not be allowed to dry and/or is to be delayed. should be treated with an enzyme pre-clean if cleaning
- Disinfectants, including high level disinfectants, are not to be used to keep instruments moist
- Devices that require disassembly are disassembled at

been manually cleaned. Instruments and devices that were decontaminated using a washer/disinfector required during the remaining reprocessing steps are microscopically clean, therefore PPE is no longer

- Sterilization Instruments and devices must be visibly clean prior to
- Protein verification tools are used to identify
- microscopic soil in the following situations: Instruments that cannot be readily inspected and
- are known to be difficult to clean
- For all critical instruments When cleaning accessories for implant placement

- MIFUs must be followed for cleaning and drying
- Consideration should be given to borescope use to surgical suctions.

  An atternative to cleaning would be to consider singleverify the cleaning of small diameter lumens such as
- use items

patients following MIFUs. removed from the air and waterlines of dental units must be cleaned (inside and outside) and sterilized between Handpieces and other intraoral instruments that can be

### Manual cleaning and rinsing

- Manual cleaning must be performed according to MIFUS
- Where MIFUs are missing or critical portions are water), manufacturers should be contacted. missing (e.g., type of detergent, type of brush, type of
- Ideally two sinks (or one sink with two compartments)

arge and deep enough to immerse the largest piece of equipment are preferred.
The first sink is for soaking/scrubbing and the second

- to reduce aerosol production. one is for rinsing. Instruments must be fully immersed
- Only cleaning tools intended for use in healthcare decontaminated, dried and stored as per MIFUs. should be utilized. These must be cleaned,

### Automated cleaning

than manual cleaning. When a washer/disinfector is not been decontaminated prior to packaging. are cleaned, dried, inspected, and lubricated but have disinfection unlike manual cleaning, where instruments used, the instruments are decontaminated by thermal Automated cleaning results in more consistent cleaning

Ultrasonic cleaners

maintenance of ultrasonic cleaners and solutions. Offices must retain documentation for the

equipment. of equipment must be retained for the life of the to MIFUs. Documentation of testing and maintenance Ultrasonic cleaning tests, utilizing either foil or commercial products, must be performed according the ultrasonic cleaner and following their removal. Instruments must be rinsed prior to placement into

 Automated washers and washer/disinfectors MIFUs including correct detergents, enzymes and final rinse water must be followed. A soil removal test must be maintained for the life of the equipment. by Health Canada may be purchased and used for Only washers or washer/disinfectors that are licensed records of routine maintenance and servicing should be performed daily and a log of those tests as well as cleaning instruments and devices in the dental office.

and packaging Instruments and devices must be dry prior to inspection

When drying is performed manually, a low-linting material should be used. Instruments should not be allowed to air dry or be dried through the use of fans.

over the distal end to absorb moisture and prevent inspection. Clean absorbent material should be placed grade air from a dryer (portable or built in) to dry aerosolization from drying. lumens especially those with a small diameter prior to Consideration should be given to the use of instrument

> tools need to be returned for further cleaning. soiled or have not passed tests with cleaning verification reprocessing. Instruments/devices that remain visibly they are clean and dry prior to further steps for instruments and devices must be inspected to ensure

should be inspected using a light; lumens with should be used for instrument inspection. All lumens borescope diameters too small to check should be inspected with a Adequate overhead lighting and illuminated magnifiers

Functionality means that the instrument is intact, sharp, and will perform optimally during patient care. for testing functionality of instruments and devices Manufacturers are required to include the criteria

Follow MIFUs for lubrication including use prior to 'best before date

All instruments that are used for patient care and are heat tolerant must be packaged for sterilization and

- Must be compatible with the sterilizer and the instruments/devices to be sterilized
- Must be used according to MIFUs, specifically packaging temperature, humidity, storage time and conditions of
- Must be used prior to expiry date
- Prevention of package contamination prior to Packaging within packaging must only be used if validated by MIFUs.
- Internal chemical indicators are placed into the sterilization should be included in SOPs
- packages prior to sealing
- Self-sealing peel pouch seals must be smooth and no gaps at outer edges.
- Tape must not be used to seal peel pouches
- When using wraps, two single sheets or one used regardless of whether sequential or simultaneous composite (two sheets bonded together) must be
- Wrapper configuration shall provide a tortuous barrier systems pathway to impede microbial migration into the sterile wrap method is being used
- Non-sterile gauze should not be packaged for If sterile gauze is required it should be purchased sterilization because validated MIFUs are not available.

### 1.2.8 Step 8: Labeling

packages back to the sterilizer and biological indicator Sterile packages must be labeled in order to trace

The label on each package must display the following

- date of sterilization
- sterilizer load # sterilizer #
- initials of the person who performed the packaging
   identification of the contents for wrapped packages
- system or manually, using validated medical grade markers. Labeling can be done either before placement or after removal from the sterilizer. Labeling can be done utilizing an automated label

paper side packages. They should not be placed directly on the flaps of peel pouches, or on the tape of wrapped Labels should be placed on the plastic side or closure

### 5.1.2.9 Step 9: Monitoring

Daily monitoring of the operation of every sterilizer must be reviewed, confirmed and documented.

Mechanical and chemical indicator monitoring does not ensure that sterilization has been achieved. They are a method of verifying that the necessary conditions for changed, alert the user to sterilization problems. not been met and chemical indicators that have not sterilization have been met. Parameters that have

a Type 5 or 6 indicator and the (IUSS) process recorded without packaging) should not be used. If required, due to emergent need, the process must be monitored with low instrument inventory. in the patient chart. IUSS must not be used because of Immediate Use Steam Sterilization (IUSS) (sterilization

### within the sterilizer chamber both during and at the These provide information about physical conditions Physical parameters (e.g. mechanical gauges)

time of completion of all cycles. The critical parameters

must check the electronic data to verify the physical measured are time, temperature and pressure. parameters have been met, and initial the Load Log. When loads have finished their cycle, a staff member

determined prior to repackaging and sterilizing the load load will not be released and the cause of the problem If the parameters were not met, the contents of the

electronic data recorder) are used, a staff member must When sterilizers without a recording device (print out or been met during the sterilization cycle. **Annex 16** physically oversee that conditions for sterilization have

When the cycle parameters required by MIFUs are challenged cycle. for 6 or 10 minutes, the BI would be tested using the for parameters of 132°C for 4 minutes and for 134°C example, if the sterilizer has a pre-programmed 'cycle' by a biological indicator (BI) in a challenge device. For different, the most challenged cycle must be tested daily 132x4 pre-programmed cycle because it is the most

### Chemical Indicators (CI)

to achieve sterility were met. the location of the chemical indicator. As importantly, a 'fail' response indicates that certain conditions were not These are devices that respond with a chemical change when exposed to sterilants. A 'pass' response indicate that a device is sterile but rather that conditions achieved at this location. A pass does not necessarily indicates that certain conditions were achieved only at

an identifier for their function and not as a hierarchy (e.g. Type 1 is not 'better' or worse than Type 2, they are is appropriate to the sterilization cycle. Indicators are The choice of chemical indicator will depend on the type and quality of information that is needed. Users should unique to their purpose). identified as Types 1-6, however, the 'Type' is used as being used matches their specific sterilizer type and refer to MIFUs to ensure that the chemical indicator

Staff handling sterilized products must know the actions to take when the indicator has failed. **Annex 17** 

the lifetime of the practice. If there is a failure, retesting is required. If there is a second failure, remove the unit Type 2 indicators are used in pre-vacuum sterilizers to test that air removal (Bowie-Dick test) has been from service and contact a certified technician for repair workday. Documentation of these tests must be kept for chamber and must be done at the beginning of each achieved. These tests are done using an empty

## External chemical indicators (Type 1)

external indicator. packages being sterilized must be monitored with an tape which acts as an external chemical indicator. All Wrapped packages must be sealed using sterilization An example of a Type 1 indicator is sterilization tape

 upon placement into and out of storage, upon removing packages from the sterilizer, upon opening the sterilizer, External chemical indicators should be checked:

prior to reprocessing. external indicators have failed. Determine cause of failure Instruments must not be used from packages where and upon aseptic presentation.

## nternal chemical indicators (Type 5 and 6)

temperature, and pressure). be placed inside each package prior to sterilization. These indicators react to all critical parameters (time, ype 5 or Type 6 internal chemical indicators must

challenged area) area least susceptible to steam penetration (the most The internal chemical indicator should be placed in the

such as long cycles, that are used for sterilization of Type 6 emulating indicators are used for specific cycles

must not be used, and the following steps must occur: nstruments from packages with failed internal indicators

- Return of instruments for reprocessing
- Confirm that mechanical parameters were met during Document the failed chemical indicator on the load log to identify the sterilizer, load, and date of sterilization
- Check load log for other failures from that load sterilization of that load prior to release
- packages from that load from the same load must result in a recall of remaining Two packages with failed internal chemical indicators
- if possible, determine the cause of failure prior to
- reprocessing failed packages
  Packages are reprocessed as if they have been used for patient care

## Biological indicator (BI)/spore test

be retained for the life of the practice. All spore test results must be documented and should

A biological indicator/spore test must be used to test:

- for each cycle used at the shortest cycle time a minimum once daily for the sterilizer(s) in use that

or in the most challenged position of an in-house test chemical indicator are used by placing both inside a validated commercial process challenge device (PCD The Bl/spore test and a Type 5 or Type 6 internal

> location of the sterilizer according to sterilizer MIFUs. package PCD and positioned in the most challenged

### Annex 18

package PCD is opened, view the internal chemical indicator to confirm that it has passed and then retrieve the BI for incubation. Once the validated commercial PCD or in-house test

BI that is from the same lot number and has not been sterilized. The control is used to ensure that the resistant be compatible. The BI is incubated, along with a control functioning properly. non-pathogenic spores are viable and the incubator is The BI and the incubators used to incubate them must

### Release of loads

### BI test load

when: results are known. The BI test load may be released Optimally, loads should be held in quarantine until the BI

- Type 5 or 6 internal chemical indicator in the PCD
- Other parameters required see "Release of all other loads"

### Release of all other loads

met: Loads may be released when the following has been

- Physical parameters of the sterilization cycle were met and verified
- Load log has been initialed by the person who Type 5 or Type 6 internal chemical indicators have
- confirmed that the physical parameters were met

in these loads. The internal chemical indicator must still contents for patient treatment. Annex 19 be checked and a pass confirmed prior to using the (PCD) can be used for increased assurance for release wrapped packages, a chemical indicator test package Because internal chemical indicators cannot be seen in

## oads with surgical or implant accessories

must be monitored with a BI and CI in a validated known and passed. must not be released until the results of the BI are commercial PCD or in-house test package PCD and Loads that contain accessories for surgery or implants

- Instruments must not be used when there has been a
- The cause for the failure should be determined whenever possible prior to repeating any tests.
- until the results of the second BI are known. Recall all packages sterilized in that sterilizer back to these in a known safe sterilizer or quarantine them practice inventory of instruments, either reprocess the last negative test. Depending on the amount of
- Clearly mark the sterilizer out of service and perform a
- If there is a second failure, remove from service and contact a certified technician for repair.

  Corrective action taken for a failed test must be

## 5.1.2.10 Step 10: Sterilization

surgical handpieces Gravity sterilizers, as the name implies, replaces air the chamber, categorized as either gravity or dynamic. sterilization method for dental handpieces, especially gravity sterilizers have been found to be an unreliable types. Dynamic sterilizers are preferred in dentistry, as pre-vacuum or steam flush pressure pulse (SFPP) passively with steam. Dynamic sterilizers are either Sterilizers differ with respect to how air is removed from

the same time each day. The chamber pressure in SFPP sterilizers does not fall below atmospheric pressure; therefore, an air removal tack is not accommodified to the continuous track is not accommodified. procedure daily or if the sterilizer is run 24 hours a day, (frequently referred to as a "Bowie-Dick test") is used to test the sterilizer in an empty chamber either as the first of this, if pockets of air remain prior to steam being An air removal test using a Type 2 chemical indicator introduced, the air will act as a barrier to the steam pressure falls to below atmospheric pressure. Because Pre-vacuum sterilizers evacuate the chamber and the

### For more information:

### disintection/sterilization/steam.htm /www.cdc.gov/infectioncontrol/guidelines/

- All heat tolerant reusable instruments and devices must be sterile for patient use.
- MIFUs should be obtained prior to purchase for all method and cycle required is available in individual instruments and devices to ensure that the sterilizing
- MIFUs should be easily accessible

### Sterility Assurance

The following is excerpted (with permission) from the Canadian Standards Association Z314-18:

when delivered for use. Annex 21 Sterility assurance refers to the integrated system of tests, controls and the development of SOPs intended to ensure that reprocessed medical devices are sterile

Sterilizer Qualification and Requalification Sterilizers must be confirmed for function:

- for operational qualification (OQ) by the manufacturer at installation qualified (IQ) by the manufacturer at installation and requalified following major repairs,
- for performance qualification (PQ) following the relocation, or unexplained failure by the office loading configuration from MIFUs purchase of new equipment requires a different than instructions provided in MIFUs, or when introduction of new packaging or loading differently

performed. and successful (negative growth) BI tests have been The sterilizer must not be used until three consecutive

- including maximum weight of the load Sterilizers must be loaded according to MIFUs
- Packages must be loaded to allow adequate space chamber which allows steam to penetrate the between packages and the walls of the sterilizer package
- Peel pouches are loaded plastic to paper or following
- to allow condensate to drain Surfaces that collect water must be placed according to sterilizer MIFUs, usually upside down or at an angle
- Heaviest items must be placed on bottom shelf

- Packages must only be removed when cooled to room temperature.
- External Cls must be checked and signed off on the Load log after unloading to confirm the load has been
- require reprocessing. Investigate the cause for wet Wet packages are considered contaminated and will packages prior to reprocessing.
- or packages that fall during unloading and are still in Packages that are compromised (e.g., torn, opened) storage. This includes ensuring that the integrity of the Critical and semi-critical instruments must be package is maintained during unloading and loading. reprocessed in a way that will maintain sterility during

 Every load containing implantable devices must be removal from storage need to be reprocessed. that fall onto the floor during transport or placement or

Packages that become compromised including those

monitored using a biological indicator PCD (CSA 16.6.8.2)

## 5.1.2.11 Step 11: Storage

indefinitely if not compromised. Sterilized packages placed into storage remain sterile

Packages are removed from storage based on:

- patient care requirements compromised packaging
- according to MIFUs
- voluntary date determined by practice
   first in first out (FIFO) to achieve stock rotation

If sterilized packages are stored in the reprocessing area, they must be in an enclosed space

Sterile packages must be stored in areas that:

- are clean and dry
- are away from environmental contamination
- have enough space between packages to prevent sticking or damage during removal
- can be placed on end rather than being stacked

nor stored in an area containing supplies stored in containers (e.g. corrugated cardboard, paper boxes) stored items (due to the amount of dust). cardboard. Cardboard must not be collapsed near Packages must not be stored in external shipping

## 5.1.2.12 Step 12: Transport and aseptic presentation

contamination. Packages are opened on a dry clean a manner that protects instruments and devices from Ensure Type 5 or 6 internal chemical indicators have hands are washed and gloved, and patient is seated area with clean hands. Instruments are removed once Transporting sterile instruments should be performed in

### Aseptic Presentation

prevention of microbial contamination Aseptic presentation is a term used to describe the

others regarding aseptic technique. must develop a professional conscience for IPAC, well as a willingness to supervise and be supervised by responsibility of the entire dental team. Each member Maintaining aseptic technique is a cooperative as

These practices are as follows:

- chairside area is separated into clean or sterile versus contaminated
- packages are placed in the clean area
- hand hygiene is performed
- hand hygiene is performed and gloves are placed packages are opened or unwrapped noting the outside of the packages are not sterile
- sterile instruments are placed on a clean chairside equipment near sterile items area and care is taken to avoid placing unsterile

procedure tray, it must only be retrieved using transfer forceps or by first ensuring that the OHCP's hands are clean, followed by new gloves. Transfer forceps must be If an item is needed for a procedure, but not on the readily available at all times.

## 5.2 Documentation (as per CSA Z314-18)

Offices must maintain documentation of the following: Ultrasonic washer foil tests or commercial function

at least weekly, preferably daily

- Soil removal verification tests for washers and washer disinfectors: daily
- Bowie-Dick test (only pre-vacuum sterilizers)in an empty sterilizer: daily
- Biological monitoring for each sterilizer and each cycle that is used: at least once daily that the sterilizer is
- Maintenance and interventions associated with a positive BI result (failed BI test)
- Documentation of maintenance of equipment should
- Documentation of all daily BI tests and load logs be kept for the life of the equipment
- Every load must be documented using a Load Log to demonstrate minimally:

should be kept for the life of the practice

- date
- stenlizer # o load #
- o number of packages
- o type of packages
- initials of person unloading
- o physical parameters if there is no recording with each load mechanism for print out or electronic
- o chemical indicator failures

the reprocessing area are repackaged and sterilized.

### 5.3 Traceability

Offices should have a protocol for recall and traceability This should include:

- Labelling
- Method of transferring information from labels to produced labels. Annex 22 patient charts either manually or using commercially

## 5.3.2 Instrument Labeling

the use of colored rings and colored marking tape. using embedded radio frequency identification chips (RFID), manufacturer applied laser etching/bar coding. Individual instruments may be identified and/or tracec

microorganisms to adhere more readily. of the instruments, allowing them to corrode and as these processes damage the passivity layer In-office etching and engraving should not be used

## 5.4 Periodontal instruments/stones

the device used for sharpening (i.e., sharpening card and or stone) has been sterilized in accordance with Intra-operative chairside sharpening is only permitted if and use of sharpening devices must follow MIFUs. Periodontal instrument sharpening, and the sterilization validated MIFUs.

point of care to maintain sterility. used immediately must be reprocessed and opened at treatment. Instruments that are sharpened but not of accidental exposure when sharpening during transmission. Clinicians should consider the risk/benefit a risk for accidental occupational exposure and disease Sharpening of contaminated instruments may present

following: If MIFUs allow for chair side sharpening, consider the

 Wipe debris such as blood, lubricants or metal Sharpening should be done on a stable surface filings from the instrument before and after

Dental Hygienists of Alberta, 2020) (Information courtesy of the College of Registered

## 6.0 SURGICAL PROCEDURES

involving incision, excision, or reflection of soft tissue that allows for exposure of sterile areas of the oral cavity. Oral surgical procedures increase the risk of local or systemic Oral surgical procedures are defined as any procedure

operative site from the surrounding physical environment **6.1 Surgical aseptic technique**This refers to practices that render and maintain objects to create a sterile field. prevent contamination of a wound and isolate the and the surrounding area free of microorganisms to

procedure tray. times to retrieve items needed, but must not be on the infection control practices than restorative dental Surgical dental procedures require a different set of procedures. Transfer forceps must be available at all

Consideration should be given to the following:

- Patient preparation
- Pre-procedural rinse
- Head cover Sterile drape
- OHCP preparation
- Wearing appropriate surgical PPE Surgical hand antisepsis (see 6.2)
- Protective sterile surgical gowns should be considered
- Legal Cover
- performed including raising intentional gingival, mucosal or dermal flaps and/or Sterile surgical gloves should be considered is anticipated whenever the cutting or sectioning of bone whenever invasive surgical procedures are
- and assistant must be sterile or have a protective materials and supplies that come in contact with sterile covering the surgical site. Every item handled by the dentist Aseptic field: all items that go onto the sterile field must remain sterile, including instruments,
- Irrigating solutions and devices designed for or are purchased sterile. items that are reprocessed must come with MIFUs delivering sterile irrigating fluids must be sterile and
- Items such as bulb syringes do not come with MIFUs and their use should be discontinued.
- Consideration should be given to the use of or other solutions by using sterile single-use that bypass the dental unit to deliver sterile water disposable or sterilisable tubing. handpieces, as well as piezo and ultrasonic scalers

## 6.2 Hand hygiene for surgical procedures

punctured or torn. Antimicrobial soap with residual of organisms into the operative wound if gloves become eliminate transient flora. This would prevent introduction antimicrobial activity should be used for surgical hand The purpose of surgical hand antisepsis is to reduce or

## 5.2.1 Surgical Hand Scrub

To be performed before any surgical procedures:

- Remove all jewellery.
- Use antimicrobial soap with persistent activity and approved by Health Canada
- Wash hands and at least 2 inches above the wrists thumb and index finger; the direction of the scrubbing nails, subungual areas, between fingers, and between should not be used for hand scrubs. without returning to the cleaned hands. Brushes procedure is from the hands toward the elbows, antimicrobial soap MIFUs. Pay special attention to thoroughly for the length of time according to
- Dry hands and arms with a sterile towel ensuring that sterile gloves hands and arms are completely dry before donning

## 6.3 Surgical aseptic presentation of instruments

- Prepare and organize work procedures so that all of
- Sterile instruments and devices should be stored in an They must remain wrapped until ready for use. enclosed space, such as closed or covered cabinets. the required equipment is gathered for the task
- clean versus contaminated, sterile versus unsterile. Spatially separate work areas and equipment into
- Use protective covers and barriers according to approved office-specific work procedures
- If an item is needed for a procedure, but not on the procedure tray, it must only be retrieved using transfer
- Sterile surgical gloves must only be applied before initiating patient treatment.

## 6.4 Handling of biopsy specimens

proof container with appropriate fixative. If the outside of the container is suspected to be, or has been placed in an impervious bag prior to transportation. contaminated, it must be cleaned and disinfected or Biopsy specimens should be placed in a sturdy, leak

## 6.5 Lasers/electrosurgery plumes and surgical

plumes and electrosurgery smoke by: inhaling or otherwise coming into contact with laser OHCPs must take appropriate precautions to avoid

Employing the use of appropriate PPE (e.g., masks and face shields)

- Utilizing high volume evacuation (HVE) units with in-line filters to collect particulate matter
- Considering the use of dedicated mechanical smoke exhaust systems with a high-efficiency filter to remove laser plume particles.

## 6.6 Safe handling of injectables

anesthetics, drugs and solutions for sedation) unsafe and improper handling of injectables (e.g., local microbial pathogens to patients may occur due to The transmission of blood-bome viruses and other

when preparing and administering injectables: The following aseptic practices must be adhered to

- Perform hand hygiene prior to accessing supplies administering drugs. handling vials and IV solutions, and preparing or
- Prepare drugs and supplies in a clean area on a clean
- Never administer a drug from the same syringe to Use aseptic technique in all aspects of parenteral drug administration, drug vial use and injections more than one patient, even if the needle is changed
- Never store needles and syringes unwrapped, as sterility cannot be assured.

between patients

- If an administration set is prepared ahead of time, all drugs should be drawn up as close to use as possible to prevent contamination. Once set up, an administration set should be covered.
- Do not use IV solution bags as a common source of supply for multiple patients.

### 6.6.1 Single dose vials

Single dose vials are intended for single patient use.

- Always use a sterile syringe and needle/cannula when Enter the vial once and immediately discard after use.
- Never combine or pool the leftover contents of single entering a vial.
- A syringe for the administration of a local anesthetic must only be prepared at the time of use.

### 6.6.2 Multidose vials

always preferred bacterial contamination of the vial. Single dose vials are the risk of transmission of blood-borne pathogens and The use of multidose vials for injectable drugs increases

be followed: If multidose vials are used, the following practices must

- Adhere to aseptic technique when accessing
- Multidose vials should be accessed on a surface that

- Scrub the access diaphragm of vials using friction and 70% alcohol. Allow to dry before inserting a new needle and new syringe into the vial.
- If possible, use a multidose vial for a single patient and Once medication is drawn up, the needle should be never be left in a vial to be attached to a new syringe. immediately withdrawn from the vial. A needle should
- Discard the multidose vial immediately if sterility is questioned or compromised or if the vial is not marked mark the vial with the patient's name. with the patient's name and original entry date.
- of use after entry of the multidose vial Review the product leaflet for recommended duration
- Discard opened multidose vials according to MIFUs
- Vials should be stored in a dedicated refrigerator if

## 7.0 SPECIAL CONSIDERATIONS

## 7.1 Nitrous Oxide Nasal Hood and Blood Pressure

equipment, follow MIFUs to disinfect the nasal hood. disposable type is not compatible with current nitrous The use of a disposable nasal hood is preferred; if

a Health Canada approved disinfectant. critical item. Follow MIFUs if available or disinfect using The cuff on a blood pressure unit is considered a non-

For information on controlling outbreaks of bed bugs, head lice or scabies, please contact your local Public Health office or call Health Links – Info Santé at 204-788-8200 Annex 23

Bed Bug/Lice/Scabies Fact Sheet WRHA /www.wrha.mb.ca/extranet/ipc/files/ I ools/

## BedBugsLiceScabies\_IPC\_Highlights.pdf

7.3 Service animals in dental Healthcare settings

person's disability, are not service animals. companionship and that are not trained to assist with a or mental disability. Animals that provide comfort and animal must be directly related to a person's physical disability. The work or task(s) performed by a service A service animal is trained to assist a person with a

- A person with a service animal has the right to
- Users of service animals have a visible or an enter your facility
- A service animal usually has an identifying
- a valid reason to restrict service to a customer "No pet" policies must not be applied to service animals. The preference of other customers is not animal has responsibilities including controlling the with a service animal. A person with a service

PC measures used for patient accompanied by

through reasonable measures. from such areas unless a patient's situation or a particular animal poses risk that cannot be mitigated significant risk of transmitting infection than people; No evidence suggest that animals pose a more therefore, service animals should not be excluded

areas (e.g., treatment rooms and public areas) a clean, healthy, well-behaved service animal should cleaning and disinfecting the operatory will apply. the service animal would not be permitted. SOPs for where sterile surgical (aseptic) technique is required be allowed access with its handler. In situations If visitors and patients are permitted to enter care

### TO COMPILE THIS DOCUMENT: RESOURCES & REFERENCES USED

ADA&C 2018 Guidelines ιπps://www.cac.gov/intectioncontrol/guidelines/

CAN/CSA Z314-2018 Canadian Medical Device Reprocessing

ec/En108-3-1-42-eng.pdf https://publications.gc.ca/collections/collection\_2015/

CDC https://www.cdc.gov/oralhealth/infectioncontrol/

CDC Guidelines for Infection Control in Dental Health-Care Settings (2003)

CDC Guidelines for Hand Hygiene in Health-Care

Prevention and Control Guidelines College of Dental Surgeons of British Columbia, Infection

College of Registered Dental Hygienists of Alberta RCDSO guideline - 2018 Infection Prevention and Control in the Dental Office

and-special-initiatives https://www.rcdso.org/en-ca/rcdso-members/positions-

dental-care-for-the-patient-with-an-oral-herpeticent&view=article&id=161:clinical-practice-statement-for Patient with Oral Herpetic Lesion The American Academy of Oral Medicine – Dental Care esion&catid=24:clinical-practice-statement //www.aaom.com/index.php?option=com\_cont

Cleaning for Prevention and Control of Infections in All Healthcare Settings and Programs (Provincial Infection Control Network of British Columbia (PlCnet) British Columbia Best Practices for Environmental https://www.picnet.ca/wp-content/uploads/British Healthcare-Settings-and-Programs.pdf Columbia-Best-Practices-for-Environmental-Cleaning-Prevention-and-Control-of-Infections-in-All-

Control in the Physician's Office British Columbia Guidelines for Infection Prevention and

Guidelines %20and %20 Forms / Guidelines %20and % Manuals / Epid / CD %20 Manual / Chapter %203 %20 - % C/Infection Control GF IC In Physician Office. pdf

Canadian Centre for Occupational Health and Safety needlestick\_injuries.html nttps://www.ccons.ca/osnanswers/diseases/

drugs to Class II medical devices https://www.camdr.ca/wp-content/uploads/2018/06/ Medical-Devices-Brief-June-8-18-FINAL1.pdf PAC Canada for changes to HLD and sterilants from

PAC Canada, hand hygiene resources

Hand hygiene poster, Govemment of Manitoba

Drugs https://www.canada.ca/en/health-canada Health Canada Guidance Document – Disinfectant disinfectants/disinfectant-drugs.html#a141 applications-submissions/guidance-documents/ es/drugs-health-products/drug-products/

Provided by Manufacturers for the Reprocessing and Sterilization of Reusable Medical Devices medical-devices.html drugs-health-products/medical-devices/applicationinformation-manufacturers-sterilization-reusable information/guidance-documents/guidance-document Health Canada Guidance Document: Information to Be

https://www.gov.mb.ca/health/publichealth/cdc/ Manitoba Health, Seniors and Active Living protocol/mhsu\_0013.pdf

protocol/hiv\_postexp.pdf https://www.gov.mb.ca/health/publichealth/cdc/

protocol/hiv\_prescription.pd

https://www.niinfectioncontrolmanual.net/basic-

Organization for Safety Asepsis and Prevention (OSAP) White Paper and Recommendations, Dental Unit Waterline Quality: Mills S., Porteus N., Zawada J. (2018) recommendations-2018.pdf asepsis-and-prevention-white-paper-andtopics/dental-unit-water-quality-organization-for-safety-

Practices in Healthcare Settings 2013 Public Health Agency of Canada: Hand Hygiene

in the Healthcare Settings 2019 Bloodborne Viruses from Infected Healthcare Workers Guideline on the Prevention of Transmission of Public Health Agency of Canada: https://www.canada.ca/en/public-health/services/ nfectious-diseases/nosocomial-occupational-infections/

prevention-transmission-bloodborne-viruses-healthcare-

documents/R/2012/rpap-risk-assessment.pdf?la=en Related to Routine Practices and Additional Precautions Public Health Ontario: Performing a Risk Assessment /www.publichealthontano.ca/-/media/

the Transmission of Infection in Healthcare 2019 Routine Practices and Additional Practices: Preventing /www.gov.mb.ca/health/publichealth/cdc/docs/

and Weber DJ 2008 Guideline for Disinfection and Bowie-Dick and Decontamination: Rutala, WA Center for Disease Control and Prevention Sterilization in Healthcare Facilities. www.cac.gov/intectioncontrol/guidelines/

Operational Procedure Occupational and Environmental Safety and Health disinfection/index.html

http://www.wrha.mb.ca/extranet/ipc/tools.php 3loodandBodyFluidExposure.pdf nttp://www.wrha.mb.ca/professionals/safety/files/OP-

https://www.gov.mb.ca/sd/waterstewardship/odw/

https://professionals.w/ha.mb.ca/old/extranet/ipc/files. Tools/BedBugsLiceScabies\_IPC\_Highlights.pdf

public-info/boil-water/advisory\_public.pd1

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- Annex 11: Susceptibility of organisms to disinfection
- Annex 12: Sample Product Information sheet Annex 13: Sample procedure for cleaning toys Annex 14: Cleaning blood or body fluids Annex 15: Dental lab assepsis
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### LIST OF TABLES:

- Table 1: Schedule of hand hygiene while providing patient care
- Technique for using ABHR Gown Level & Clinical Use Technique for handwashing
- ASTM Criteria for Healthcare Mask Levels

### coordinator Annex 1: Recommended duties of IPAC

- Developing policies and educational materials as directed by dentist for the office setting Prepare, review and update personnel and training
- records for current and new personnel
- and procedures including post-exposure protocols Implement and monitor all infection control policies
- Compliance with IPAC policies should be documented and evaluated at least annually or as
- maintenance of training records for new and current Schedule and monitor IPAC training /retraining and
- personnel Training/retraining of office housecleaning personnel;
- personal protection and exposure control Monitor and document breaches in operating procedures for sterilization including physical

- (mechanical), chemical and biological monitoringMonitor staff compliance for completion of sterilizer
- Develop and manage the device inventory list and the safety data sheets (SDS) of chemicals and products
- Management of equipment and PPE. Ensure decontamination of equipment prior to transport for
- May act as a liaison between patients, visitors, staff and the dentist to answer any questions
- Provide suggestions for improvement of infection
- Conduct IPAC audits annually and hand hygiene achieves 100% compliance. Audits can be assigned audits routinely as required, until office consistently

## Annex 2: List of required office policies

to another staff member or outside auditor.

Offices must have written instructions for:

- Ņ OHCPs that are infected with bloodborne Practice-specific variances from the MDA IPAC document and the reasons for those variances any changes to their regulator and employer know their serologic status at all times and report diseases such as HIV, HepC or B. OHCPs must
- ώ updates for all patients and staff The frequency and content of medical history procedures, if appropriate.

if required, who may restrict exposure prone

- 4. active communicable disease (e.g., influenza, TB, Assessment process for patients infected with "cold sore") for elective, urgent and emergent
- Ġ Work restrictions for OHCPs with a communicable disease e.g., TB, Hep B
- <u>ე</u> Exposure and post-exposure plan, including name responsible of the testing and treatment facility and who is Tor costs
- φ 7 Protocol for glove use during instrument transport federal/provincial health guidelines, is based on transmission risk, and is facility-specific Policy for PPE use which complies with MDA and
- 9 Handling of spills, including blood and bodily fluids and reprocessing
- Handling of lab cases
- Documentation for amalgam separation units maintenance and amalgam disposal methods if amalgam is used and includes installation
- 3.75 Disposal of biomedical waste SOPs for the management of DUWLs
- 14. Storing and accessibility of MIFUs for all devices instruments, appliances
- Manual cleaning or use of washer/disinfector, lumens and handpieces drying, inspection protocol and reprocessing of

Sterilization monitoring, maintenance and service for each sterilizer

Ultrasonic washer function tests, soil removal

verification tests for washers and washer/

- 18. Load traceability (load logs), labelling, quarantining release and recall
- Failed indicator processes

## Annex 3: List of recommended office policies

Offices should have written instructions for

- Hand hygiene audit program

  Monitoring OHCP to identify gaps in knowledge and/or compliance; training must be based on identified gaps
- ω 4 Immunization policy for all staff
- Cough and sneeze etiquette, hand hygiene use for all OHCPs practices, including the use of ABHR, and tissue
- 7 6 5 Fingemail length and jewellery use
- Use of latex
- 9 9 Identification of risk categories for OHCP controls to reduce their occurrence those injuries to enable targeted work practice workplace injuries and annual documentation of
- Boil Water Advisory treatment limitations
- The frequency and content of medical history
- Single-use items without MIFUs cannot be Device inventory (including single-use items) to ensure all MIFUs for reprocessing are present. updates for all patients and staff

10.

# Annex 4: Notification Form for Reportable Diseases & Conditions

If you have a suspected clinical case, please use this form to report information and/or call the Public Healtl Surveillance Unit at 204-788-6736.	Clinical Notification of Reportable Diseases and Conditions (The Reporting of Diseases and Conditions Regulation, 37/2009, made under The Public Health Act. CCS.M. c.P.21 0)	Manitoba (Smiors and Active Living

I. URGENT - Same Day Reporting		
Same-day reporting of the following s	uspected clinical cases to	Same-day reporting of the following suspected clinical cases to a live person by telephone is required:
During Business Hours, MonFri., 8:30 am to 4:30 pm	i., 8:30 am to 4:30 pm	204-788-6736 [Surveillance Unit]
After Business Hours		204-788-8666 [Medical Officer of Health]
Please also fax this completed form to Confidential Fax 204-948-3044.	Confidential Fax 204-94	8-3044.
Botulism	Mumps	Rubella
Cholera	Pertussis	SARI (Severe Acute Respiratory Infection)
Diphtheria	Plague	Smallpox
Measles (Rubeola)	Poliomyelitis	Viral Hemorrhagic Fever
Maningaccal invacing disease	Dahior (human)	

## S ₽ F

Diphtheria	Plague	Smallpox
Measles (Rubeola)	Poliomyelitis	Viral Hemorrhagic Fever
Meningococcal invasive disease	Rabies (human)	
Reporting within 5 Business Days		
inical cases of the following require completion and faxing of this form within 5 business days to infidential Fax 204-948-3044.	completion and faxing of thi	s form within 5 business days to
Acquired immune deficiency syndrome (AIDS)		Tetanus
Congenital Rubella Infection/Syndrome		Tuberculosis
Creutzfeldt-Jakob Disease		Yellow Fever
Leprosy		
naplasmosis, Babesiosis and Lyme infections, report using the Tick-Borne Disease Clinical Case Report	ections, report using the Tick-B	orne Disease Clinical Case Report
Tm: http://www.gov.mb.ca/health/publichealth/cdc/protocol/tickborneform.pdf	hth/cdc/protocol/tickborneform.pdf	

Check applicable box:

Suspected Outbreaks of Illness

5	Credizient-Jakob Disease
Lep	Leprosy
٩nap	Anaplasmosis, Babesiosis and Lyme infections, report using the Tick-Borne Disease Clinical Case Report
rm:	OTM: http://www.gov.mb.ca/health/publichealth/cdc/protocol/tickborneform.pdf
7	II. Further Reporting
ny re	my reportable disease suspected under the following circumstances is also reportable by a health professional:
a	a) At death, if the health professional reasonably believes that the patient may have had the reportable disease
	at the time of death or the reportable disease contributed to the patient's death.
5	b) At biopsy or autopsy, if, in performing the biopsy or autopsy, the health professional finds evidence of a
	reportable disease.
ු	c) Upon becoming aware that a person has a disease or condition that is not otherwise reportable, if the disease
	or condition is:
	i. occurring in a <b>cluster or outbreak</b> , or
	ii has presented itself with unusual clinical manifestation.

https://www.gov.mb.ca/health/publichealth/cdc/protocol/mhsu\_0013.pdf

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## Annex 5: Design considerations for renovations or new builds

- Receiving area for contaminated instruments and devices should have:
- adequate space to store staff PPE for MDR

no-touch trash receptacles and sharps containers

- counter space for receiving instruments; for disassembly; and for holding in pre-clean when instruments and devices cannot be processed
- Hand hygiene: there must be a separate sink for hand hygiene, or an ABHR station, at the entrance to and exit from the instrument cleaning area.
- selection.pdi Recommendations for hand hygiene sink requirements: Alberta Health Services https://www.albertahealthservices.ca/assets/ healthinfo/ipc/if-hp-ipc-guidelines-sink-and-faucet-
- For manual cleaning of instruments and devices, there
  must be a minimum of two sinks one for washing,
  one for rinsing large enough to emerge the largest
- For ultrasonic cleaning, there should be adequate space for the ultrasonic cleaner, preferably adjacent to a sink and optimally between sinks.
- There should be adequate counter space adjacent to automated washers for placing clean instruments prior to inspection and packaging
- There must be adequate lighting and optimally with magnification for inspection.
- There should be a source of instrument grade air for
- The packaging area must have adequate space for storage of materials for packaging and monitoring with conditions for storage appropriate to MIFUs.
- The packaging area should have adequate and ergonomically designed counter space for packaging and holding packaged instruments for sterilization.
- There must be adequate space for labelling whether labelling is done prior to or after sterilization.
- There must be adequate counter space for

- high level disinfection, if used
- space for documentation, including storage of binders or computer for MIFUs
- There must be space for storage of sterile packages. compromise to packages. preferably designed for optimal humidity and temperature, and adequate space to prevent
- Ventilation and air handling systems should move air from the clean side of the reprocessing area to the decontaminated side, and meet the current CSA Standard and municiple building codes for optimal exchanges per hours for reprocessing areas.
- Ventilation for contaminated areas should be negative pressure and clean areas should be positive pressure

# Annex 6: Work Restriction Policies for Healthcare Providers

Disease/Problem C	Clinical Restriction	Duration
_	No modifications or restrictions to	
Conjunctivitis - Adenovirus	No modifications or restrictions	
<u>is</u> .		
_	No modifications or restrictions	
	No modifications or restrictions	
nal infections		
	Restrict from patient contact	Until symptoms resolve
Shigella R	Restrict from patient contact	Until symptoms resolve
		provincial health authorities
		cultures
Hepatitis A	Restrict from patient contact	Until 7 days after onset of jaundice
D Z 9 (	evidence of HAV immunization)  No modifications for workers  ex-posed to HAV	
	No restrictions, refer to	
hepatitis B who do not perform ex-	precautions are always to be	
	followed.	
Personnel with acute or Ruchronic hepatitis B who Ni	Report condition to MDA Registrar  No restrictions to exposure prone	Avoid exposure prone procedures until:
	procedures (EPPs) if HBV DNA	a) under the care of a physician with
	levels are less than 103 IU/ml (5 x 103 GF/ml)	expertise in HBV management and b) HBV DNA level is below 103 IU/
•	( in	ml (5 x 103 GE/ml) or equivalent
		months)
ho test positive to HCV to do not perform EPP	No restrictions	
	Report condition to MDA Registrar	Restricted for EPPs until they are
tut to to to to to to	no restrictions to realiticate workers performing EPPs who tested negative to HCV RNA at least 12 weeks post-treatment	expertise in HCV management b) has completed effective therapy c) has tested negative to HCV RNA

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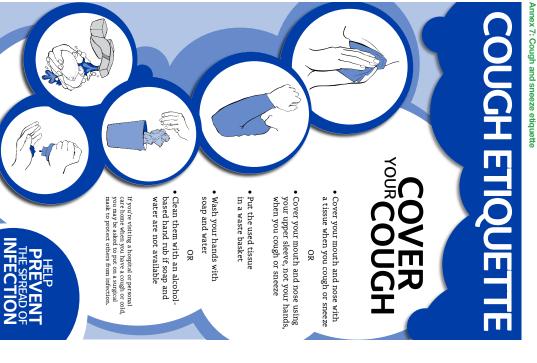
Disease/Problem	Clinical Restriction	Duration
Herpes simplex 1		
Hands (herpetic whitlow)	Restrict from patient contact and contact with patient's environment.	Until lesions heal. (Can be reassigned to non-patient care tasks.)
Orofacial or weeping lesions other than hands	Cover lesions with a protective dressing/wear a mask and wear gloves. Avoid touching lesions during patient care. Ensure careful honders	Lesions are contagious at both vesicular and crusted stage.
Human immunodeficiency virus	38000	
HCW who do not perform EPPs	No restrictions	
HCW who perform EPPs	Do not perform exposure-prone procedures until the MDA Registrar	
	has been informed. The Registrar will determine who to consult on	
	this matter if they find it necessary.	
	Document precautions are always to be followed.	
Influenza	Exclude from work	Exclude HCW from onset of symptoms (day 1) until 7 days after onset.
Measles (should know immune status)	Exclude from work	Until 5 days after resolution of the rash or extended if symptoms persist
Meningococcal infection	Exclude from work	Until 24 hours after start of effective therapy.
Mumps (should know immune status)	Exclude from work	Until 9 days after onset of parotitis.
Pediculosis	Evolude from work	Eyolude until 94 hours after of-fective
Pediculosis	Exclude from work	Exclude until 24 hours after et-tective treatment and observed to be free of adult and immature lice.
Pertussis (should know status) Active	Exclude from work	From beginning of catarrhal stage through third week after onset of
		paroxysms or until 5 days after start of effective anti-biotic therapy.
Waning immunity in adults: Following exposure		From beginning of catarrhal stage through third week after onset of
Post exposure (asymptomatic personnel).	No restriction, prophylaxis recommended.	paroxysms or until 5 days after start of effective antibiotic therapy.
Post exposure, asymptomatic, unable or refuse to take prophylactic antibiotics	Exclude from work until 20 days after contact.	

Disease/Problem	Clinical Restriction	Duration
Rubella (should know status) Active	Exclude from work	Until 7 days after rash appears
Post exposure (susceptible personne)	Exclude from work	through 21st day after last exposure
Staphylococcus aureus infection Active, draining skin lesion	Exclude from work	Until lesions have resolved
Carrier state	No restriction unless personnel are epidemiologically linked to transmission of the organism	
Streptococcal Infection, Group A	Exclude from clinical activity	Until 24 hours after adequate treatment is started
<b>Tuberculosis</b> Active disease	Exclude from work	Until proven non-infectious
Latent TB	No restriction	
Varicella (should know status) Active disease	Exclude from work	Until all lesions dry and crust
Post exposure (susceptible personnel)	Exclude from work	From day 8 after first expo-sure through day 21 (restrict to day 28 if varicella- zoster immune globulin [VZIG] administered)
Zoster (shingles) Localized, in healthy person	Cover lesions, restrict from care of patients at high risk	Until all lesions dry and crust

 $\underline{\text{https://ipc.gov.ns.ca/sites/default/files/Occupationall/anagementofCommunicableDiseasesExposureandlliness.pdf} = \underline{\text{https://ipc.gov.ns.ca/sites/default/files/Occupationall/anagementofCommunicableDiseasesExposureandlliness.pdf} = \underline{\text{https://ipc.gov.ns.ca/sites/default/files/Occupationall/anagementofCommunicableDiseasesDiseasesDiseasesDiseasesDiseasesDiseasesDiseasesDiseasesDiseasesDiseasesDiseasesD$ 

https://www.canada.ca/content/dam/phac-aspc/documents/services/infectious-diseases/nosocomial-occupational-infections/prevention-transmission-bloodborne-viruses-healthcare-workers/guideline\_accessible\_aug-2-2019.pdf

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http://www.bccdc.ca/resource-gallery/Documents/Guidelines%20and%20Forms/Guidelines%20and%20Manuals/Epid/CD%20Manuals/Chapter%203%20-%20IC/InfectionControl. GF.IC. In. Physician. Office.pdf

## Annex 8: Hand Hygiene Audit Tool

								Staff Member
								Date
								Upon Entering Operatory
								Before Gloving
								After Glove Removal
								Before Leaving Operatory
								If Arms Bare Washed to Elbows
								Score (Percentage)

How and when during exposure occurred:	Type and brand of device:	Did exposure involve a sharp device: □Yes □No	Where and how exposure occurred:	Procedure being performed:	Date and time of Exposure:	Hepatitis B vaccination completed: date//_	Name of Exposed Person:	Phone number	EXPOSURE REPORT FORM  Name of facility which will be used for testing	Annex 9: Sample Exposure Report Form (Confidentiality of this form must be ensured)

\_\_\_ Post vaccination titre:

\_mIU/ML

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Date\_\_\_/\_\_\_ yy / mm / dd

Caregiver\_

Action Taken\_

Skin or mucous membrane exposure:
 Estimated volume of fluid:\_\_\_\_\_\_\_

Was fluid injected:

☐Yes ☐No

Depth of wound:Gauge of needle:

Follow up care (describe in detail):

Condition of skin: □Intact □Chapped □Abraded

Percutaneous injury:

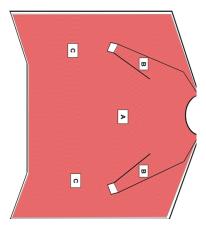
Extent of the exposure (describe):

□ Blood □ Saliva □ Other body fluid Describe\_

## Annex 10: Gown Level & Clinical Use

- Level 1: Minimal risk, to be used, for example, during basic care, document isolation, cover gown for visitors, or in a document medical unit
- or a pathology lab Level 2: Low risk, to be used, for example, during blood draw, suturing, in the Intensive Care Unit (ICU),
- Level 3: Moderate risk, to be used, for example, during arterial blood draw, inserting an Intravenous (IV) line, in the Emergency Room, or for trauma cases
- Level 4: High risk, to be used, for example, during long, fluid intense procedures, surgery, when pathogen resistance is needed or infectious diseases are suspected (non-airborne)

Regardless of how the product is named (that is, iso-lation gown, procedure gown, or cover gown), when choosing gowns, look for product labeling that describes an intended use with the desired level of protection. Product names are not standardized.



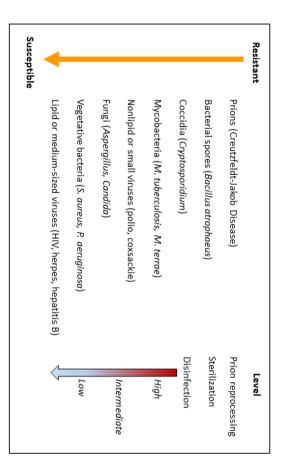
### non-surgical gowns Critical zones for surgical isolation gowns and

- The entire gown (areas A, B and C), including seams but excluding cuff, hems and bindings, is required to have a barrier performance of at least Level 1.
- Surgical isolation gowns are used when there is a medium to high risk of contamination and need for larger critical zones than traditional surgical gowns.

protective-equipment-infection-control/medical-gowns

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## Annex 11: Susceptibility of Organisms to Disinfection



Modified from Russell and Favero https://www.cdc.gov/infectioncontrol/guidelines/disinfection/tables/figure1.html

## Annex 12: Sample Product Information Sheet

	18			17	16	15	14		13			12	11	10	9	8	7	6	5				4				3	2	1
☐ WHMIS attached	SDS attached	SDAWINIS	SDAMAMIS	Environmental compatibility & disposal requirements	Disposal	Application	Monitoring methods (if applicable)	☐ Measuring device	☐ Water quality	□ Rates	Concentration/Dilution:	Storage	Cost per use	Expiry date	Personal Protective Equipment required	Contact time required for disinfection	Pre-clean surfaces (separate product?)	Active ingredients	What surfaces	☐ Virucidal	□ Virucidal*	☐ Tuberculocidal	☐ Mycobactericidal	☐ Fungicidal	□ Bacterial	Product Claims:	Intended Use for Product	Drug Identification Number (DIN)	Product Name
																										*What Viruses			

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## Annex 13: Sample procedure for cleaning toys

Toys should be inspected for damage, cracked or broken parts, as these may compromise cleaning. Any toy that is found to be damaged, cracked or broken should be discarded.

loys should be cleaned according to the manufacturer's instructions or local practices (e.g., in hot, soapy water) prior to disinfection.

### Disinfection options include:

- Use of a commercial dishwasher/cart washer (must reach 82<sup>o</sup>Cfor 10 seconds)
- Hospital-grade, approved low-level disinfectant which is safe and suitable for the cleaning of toys (follow manufacturer's recommendations regarding dilution and contact times)
- Phenolics (must not be used for toys or equipment that comes into contact with infants)
- 70% alcohol solution1/100 dilution of sodium hypochlorite (bleach)
- If a disinfectant is used, toy must be rinsed with potable water thoroughly prior to use.
- Allow toys to air-dry, in a manner to prevent contamination, prior to storing

ntp://www.ipac-canada.org/photos/custom/ //embers/pdf/Toys%20Practice% 20Recommendations\_%202016\_final\_Jan2017% 20-%20FINAL%20FINAL%20ENGLISH.pdf

## Annex 14: Cleaning blood or body fluids

### Staff would

- Restrict activity around the spill until the area has been cleaned, disinfected and completely dry;
- Wear a fluid resistant gown, mask, eye protection, and utility gloves:
- and utility gloves;

  Absorb blood or body fluid spills immediately using disposable towels or a product designed for this purpose;

  Dispose used materials by placing them into regular waste receptacle, unless blood can be soueszed fit.
- Dispuse used in attentions by placing in term in the regularity waste receptacle, unless blood can be squeezed from the soiled materials;
   When blood can be squeezed from soiled materials.
- When blood can be squeezed from soiled materials, they must be segregated into the yellow biomedical waste container;
- Wash the affected area with soap and water then disinfect the entire spill area with appropriate disinfectant, for example - 1:10-1:100 dilution of 5.25% sodium hypochlorite and allow it to remain wet for the recommended contact time according to MIFUs;

- Wipe the area using disposable towels soaked with tap water and discard into regular waste;
- Allow area to dry;
- Care should be taken to avoid splashing or generating aerosols during the cleanup;
- Remove gloves and perform hand hygiene.

## Annex 15: Dental Lab Asepsis

Disinfection of impressions and interim cases:
Disinfection shall be performed for all patient laboratory cases before and after patient care. Disinfection is performed by thorough cleaning, followed by use of a disinfectant that is appropriate for use on laboratory cases i.e., impressions, interim cases, try-ins, final prosthesis and appliances.

MIFUs shall be obtained prior to purchase of disinfectants for laboratory use to ensure they are intended for, and safe for, this purpose. MIFUs shall be followed. Offices should have written instructions for disinfection of laboratory cases.

If MIRUs allow, surface disinfectants used for clinical surfaces in the operatory may be used for disinfecting impressions and other laboratory items.

Note: Dilute sodium hypochlorite, which does not have a DIN, is recognized as a disinfectant that is appropriate and can be made by diluting one part sodium hypochlorite (at least 5%) to 10 parts tap water (provides 5250 ppm). However, this solution must be made fresh daily as the active ingredients become ineffective after 24 hours. To avoid problems with corrosion to plumbing from discarding unused diluted mixtures, flush with copious amounts of water when discarding unused solutions. Wear appropriate PPE.

As with all disinfection, cases must be clean prior to application of disinfectant. Both spray and immersion techniques can be used (except for glutaraldehyde which should never be sprayed).

It is the responsibility of the dental office to clean and disinfect all laboratory cases after patient care and to ensure they are disinfected properly before being

## Disinfection of alginate impressions:

inserted for the patient

- All alginate impressions can be disinfected using spray
- Alginates with MIFUs that allow immersion can be immersed without causing distortion to the resultant cast.

disinfecting alginate impressions: For spray disinfection - suggested technique of

- Rinse under running water to remove all visible soil
- Spray to fill tooth indentations Wrap in paper towel that has been wetted with disinfectant
- Store in sealed plastic bag for specified kill time on
- Remove impression and rinse, shake to remove label (to maintain humidity for alginate)
- for laboratory indicating disinfection status Pour immediately or bag for transport with instructions

excess moisture

When pouring, use gloves for impression tray is still

considered contaminated Remove impression and rinse, shake to remove

disinfecting alginate impressions: For immersion disinfection - suggested technique for

- Rinse under running water to remove all visible soil Immerse in 1:10 dilution of (at least 5%) sodium
- is safe for this use) MIFUs or disinfectant MIFUs (ensure that disinfectant hypochlorite for 10 minutes OR as per impression
- shake to remove excess moisture prior to pouring Remove impression, rinse under running water and

between the impression tray and impression material if of the impression or loosening of the adhesive bond disinfection with the manufacturer to prevent distortion ZOE impressions: It is important to verify the method of For disinfection of polyether - addition silicone (PVS) &

- Rinse under running water to remove all visible soil
- Immerse or spray using 1:10 dilution of (at least 5%) sodium hypochlorite for 10 minutes OR as per impression MIFUs or disinfectant MIFUs (ensure that disinfectant is safe for this use)
- remove excess moisture prior to pouring Remove impression; rinse under running water and

appliances: periodontal splints, and orthodontic and/or pedodontic including complete and partial dentures, crowns, Suggested disinfection of interim and final prosthesis,

- Rinse thoroughly under running water
- of (at least 5%) sodium hypochlorite (do not leave in disinfectant longer than 10 minutes) to MIFUs contact time or 10 minutes in 1:10 dilution Immerse or spray for disinfection of choice according
- remove excess moisture Rinse thoroughly under running water, shake to

- Bag for transport to patient
- Rinse again prior to insertion to ensure that no residual disinfectant remains

such as articulators, case pans and lathes, shall be disinfected according to MIFUs or, in the absence of MIFUs, using surface disinfectants. contaminated and cannot withstand heat sterilization, prosthetic device or appliance, but frequently become pans shall be reprocessed ("sterilized") according to MIFUs. Items that do not normally contact the patient, trays, facebows and facebow forks, and water bath laboratory fabrication such as metal impression Heat-tolerant devices used for treatment involving

be considered single use items, such as rag wheels Only devices with MIFUs shall be used or otherwise shall

Iransportation to the laboratory:

- Impressions and appliances shall be placed in an in-house and external commercial laboratories impervious bag prior to transportation to both
- The dental prescription shall be attached to the outside of the bag

Communication between dental offices and commercial

 Offices shall request that commercial laboratories items to be inserted into the patient's mouth. appliances, fixed or removable prosthodontics or utilize tamper-evident containers for delivery of

procedures before and after patient care. The dental office shall be responsible for final disinfection

shipping of infectious materials and municipal regulations regarding transportation and decontaminated and are transported from a dental office overexposure. Clinical materials that have not been impressions or prosthetic materials due to disinfectant the dental office, and does not damage or distort is safe and compatible with procedures followed in disinfection performed in the commercial laboratory is done to ensure that any additional cleaning and procedures to commercial dental laboratories. This to an off-site laboratory may be subject to provincial Dental offices shall communicate their disinfecting

containers shall be used for disposable sharps. impression materials may be discarded with general nazardous materials and discard accordingly. Sharps waste. Refer to Safety Data Sheets for laboratory Laboratory waste such as disposable trays or Waste generated in the dental laboratory:

Annex 16: Typical sterilization temperatures and times for dynamic and gravity cycles

For Dynamic Air Removal Cycles Pre-vacuum Pre-vacuum SFPP SFPP	270°F /132°C 275°F /135°C 270°F /132°C 270°F /132°C	4 minutes 3 minutes 4 minutes 3 minutes 3 minutes
SFPP SFPP	270°F / 132°C	4 minutes
SFPP	275°F / 135°C	3 minutes
For Gravity Cycles		
Gravity	250°F / 121°C	30 minutes
Gravity	270°F / 132°C	15 minutes

## Annex 17: Description of Chemical Indicators

items, and/or indicates gross failure of a sterilization differentiation between unprocessed and processed Type 1 — Indicates exposure to a process to allow

Bowie-Dick type test). Type 2 — Indicators for use in special applications (e.g.

Type 3 — Indicators to be placed inside individual load items and to assess attainment of the critical process variables at the point of placement. This single-variable indicator only reacts to one critical process variable.

vanable items and to assess attainment of the critical process indicator reacts to more than one critical process variables at the point of placement. This multi-variable Type 4 — Indicators to be placed inside individual loac

Type 5- Indicators to be placed inside individual load items and to assess attainment of the critical process variables at the point of placement. This integrating indicator reacts to all critical process variables

items and to assess attainment of the critical process indicator reacts to all critical process variables variables at the point of placement. This emulating Type 6 — Indicators to be placed inside individual load

## Annex 18: Creating an In-house Test Package

When purchasing commercial PCDs, do not purchase unless the manufacturer can demonstrate that the PCD has been validated.

the package to the individual office \*\*In-house test package (PCDs) are made by tailoring

> elevator, any restorative instrument can be replaced by of instruments or has the greatest weight of all the practice e.g., the sterilized set with the greatest number straight elevator can be replaced with a different instruments or devices need to be similar (e.g., a packages that are sterilized in the practice. The the most challenged package that is sterilized in the An in-house test package (PCD) is representative of

- another restorative instrument).
   The in-house test package (PCD) is packaged (both as the most challenged package. the container and the outer packaging) the same way
- The BI and the appropriate chemical indicator (5 or package for the steam to penetrate. the area which is the most challenged position in the 6) are placed in the in-house test package (PCD) in

in-house test package (PCDs) can be developed for inventory of instruments remains unaffected and devices are subjected less frequently to reprocessing. Also, an By using instruments for developing in-house test each sterilizer package (PCDs) that are no longer functional, the

Suggested method for creating an In-House Test

The test package will be equivalent to the most the instruments used are no longer functional (e.g. made up of instruments that are exact or similar to sterilizer where it is used, and that the package be each sterilizer, that it be labelled to identify the recommended that there is one test package for either by numbers of instruments or weight. It is challenged package that is sterilized in the office broken, corroded). those in the most challenged package, however, that

By using instruments that are no longer functional the office inventory of usable instruments is not

compromised. This practice can also reduce the premature degradation from reprocessing the functional instruments will require reprocessing after the Bl and internal chemical indicator are removed from the test package and before patient use.

The test package will contain a BI and a Type 5 or Type 6 internal chemical indicator placed into the most challenged position in the package. The most challenged position may be any of the following and is dependent on the package.

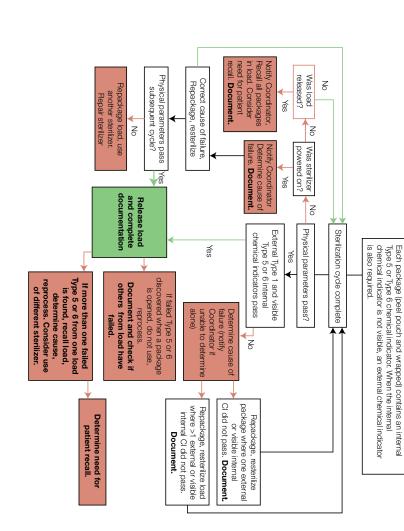
ю

- In packages where the instruments are loose (not in cassettes), between the heaviest instruments. (Follow MIFUs for numbers of instruments that are allowed in peel pouches.)
- In cassettes, between any instruments that are placed in areas outside of the silicone rails
- In cassettes, in the interface that will occur between an instrument that is clipped onto the upper part of the cassette and any instrument that it concess.
- Inside a lumen (if the size of the lumen allows a BI & CI)
- The test package will be packaged the same way as the most challenged package is packaged – either peel pouch or wrap.
- The test package will be loaded in the position that is the most challenged in the sterilizer according to sterilizer MIFUs.

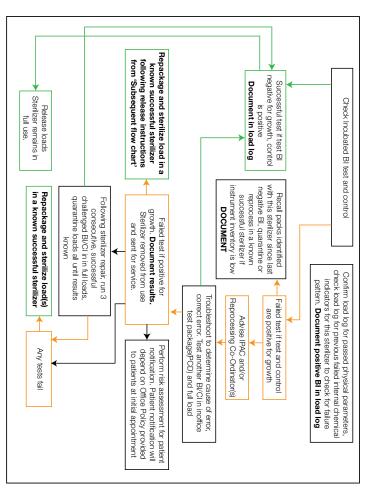
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## Annex 19: Algorithm for Release of loads

# Release of non-implant loads subsequent to daily BI test (based on physical parameters pass and Type 5 or Type 6 internal chemical indicators in each package)



## Annex 20: Steps to investigate BI Failure



## Annex 21: Explanation of Sterility Assurance

Canadian Standards Association Z314-18: The following is excerpted (with permission) from the

- Sterility assurance refers to the integrated system of tests, controls and backup SOPs intended to ensure on a validated system that includes the following monitoring program for sterility assurance is based delivered for use. In Canada, the testing and that reprocessed medical devices are sterile when
- a. Installation qualification (IQ) IQ confirms that the manufacturer's specifications and local regulations required services according to the sterilizer sterilizer has been installed and connected to the
- b. Operational qualification (OQ) OQ has two
- it verifies that the sterilizer meets the includes calibration of temperature and manufacturer's operating specifications, which features and alarms and pressure sensors as well as verification of safety
- it also verifies that the sterilizer consistently manufacturer's claims. It is performed at that the sterilizer is working according to the sterilization by testing with a process challenge repairs or other significant occurrences. installation and at least annually, and following device (PCD). Operational requalification verifies produces the necessary process conditions for
- and loads can be successfully and consistently sterilized using routine processes, products, the healthcare setting verifies that the healthcare setting-specific packs personnel and equipment that are processed in Performance qualification (PQ) — PQ testing
- d. Routine monitoring provides ongoing confirmation that equipment and processes are working as expected, and includes monitoring of:
- The physical parameters of every load
- Every package with Cls
- Sterilizer efficacy with Bls

'n

Validation testing is performed by manufacturers of circumstances. Canadian healthcare settings before approval for sale and in some other special devices, sterilizers and packaging to demonstrate that a sterilization process is effective. This is done testing. Canadian healthcare settings do not conduct perform sterilization process monitoring or verificatior

> assurance: Utilizing the above, the following is required for sterility

working correctly shall install and test the sterilizer to ensure that it is for the sterilizer and that a manufacturer's representative sterilizer, the office shall ensure that MIFUs are provided Installation qualification or IQ: When purchasing a

The office shall ensure the Operational qualification or OQ is performed at least annually.

alarms and other safety features to consistently meet the manufacturer's operating specifications through calibration and verification of The sterilizer shall be verified to have the capability

consecutive cycles (i.e., one immediately after the Challenging and re-challenging the sterilizer in three

- installation, as well as the following conditions: other) using a BI PCD must be done annually following if a sterilizer is moved, following sterilizer repair (repair, not normal maintenance such as gasket replacement)
- for a loaner sterilizer (for example when a sterilizer has been sent for repair and a loaner has been provided)
- unexplained sterility failures

results are known negative that were used for the challenge shall be quarantined despite a pass for the Type 5 integrator until the BI greatest challenge for the steam available. Instruments Tests are ran in a full chamber because that presents the

If the sterilizer is a pre-vacuum, three consecutive Bowie-Dick tests shall also be ran.

confirm through documentation of process that the time the sterilizer is used staff, equipment, and the procedures used, assure that Performance qualification or PQ: The office shall equipment is being used properly and monitored, each

## Annex 22: Sample Load Log form

Sterilizer Model:		Sterilizer Serial Number:	l Number:		
Load Details	Pouch Contents	Sterilizer Readings Met*	Operator Initials	Quality Indicators*	Operator Initials
Date:		Temperature:		Chemical indicator Change:	
Time:		1		Yes No	
Load #:		☐ Yes ☐ No		Biological Indicator:	
		Yes No		☐ Pass ☐ Fail	
		Temperature:		Chemical indicator	
Date:		Yes No		Change:	
Time:		Yes No		_	
Load #:		] " [		Pass Fail	
		T res [No			
Date:		Yes No		Change:	
Time:		Time:		Yes No	
oad #:		Yes No		Biological Indicator:	
		Pressure:		Pass Fail	
		Temperature:		Chemical indicator	
Date:		Yes No			
Time:		Time:		Biological Indicator	
Load #:		Pressure:		Pass Fail	
		☐ Yes ☐ No			
	* Any "no"	or "fail" requires syste	em failures pr	* Any "no" or "fail" requires system failures procedure documentation and follow up	ind follow up.
Print Name:		Signature:		Initials:	
Print Name:		Signature:		initials	
References: Ontario Agency for Health Protectio	n and Promotion (Public Health Ontari	o), Provincial Infectious Disease	s Advisory Commit	7	Ontario
cleaning, disinfection and sterilization www.publichealthontario.ca/en/eR CSA Group. SPE 1112-14: The user h	cleaning, disinfection and sterilization in all health care settings. 3rd ed. Toronto, ON: Queen's Printer for Ontario; 2013. Available from: <a href="http://www.publichealthontario.ca/en/efeapository/PiDAC Cleaning Distriction and Sterilization 2013.pdf">http://www.publichealthontario.ca/en/efeapository/PiDAC Cleaning Distriction and Sterilization 2013.pdf</a> CSA Group, SPE 1112-14: The user handbook for medical device reprocessing in community health care settings. Toronto, ON: CSA Group, 2014.	pronto, ON: Queen's Printer for nand Sterilization 2013.pdf ing in community health care se	Ontario; 2013. Ava		Agency for Health Protection and Promotion Agence de protection et de premotion de la santé

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# Annex 23: Bed Bug/Lice Scabies Fact Sheet https://professionals.wrha.mb.ca/old/extranet/pc/files/Tools/BedBugsLiceScabies\_IPC\_Highlights.pdf

Precautions & correct PPE use extenuating situations; conta	Educate visitors regarding Routine Practices & hand hygiene; and Contact Precaudins Correct PPE use Advise symptomatic visitors to stay home; exception may be considered in extenuating situations; contact IP&C	Educate visitors regarding Routine Pactices & hand hygene; and Contact Precations some source to the Advise symptomatic visitors to stay home; exception may be considered in extenualing Studies & Correct Precations.  And distillat more than one adjustic of in excess virtuals PE PE and certor HI between patients.  And distillat more than one adjustic of in excess virtuals PE PE and certor HI between patients.	Visitor Management
Once prescribed time has passed after treatment initiation, clothing/personal effects sealed in bag or laken home, treatment washed off, linen changed, & are disherted by 15KG      Norwegam: multi-stons resolve     Terminal clean after dischange or resolves.	Once 24 hours has passed since treatment application, clothing and personal effects sealed in bag or taken home, and linen changed	Once patient bathed, clothing/personal effects scaled in bag or taken home, and area disinfected by HSKG     Terminal clean after discharge or precautions discontinued	Discontinuation of Additional Precautions
nsport/procedure ired	for medically essential purposes only Northy Patient Transport Services & reteining department in advance of transport/procedure Hand Inlygiene by transport staff and patient when leaving com Outside room, transport staff reapply clean gloves and clean gown as required	<ul> <li>For medically essential purposes only         <ul> <li>Notify Patient Transport Services &amp; receiving department in adv</li> <li>Hand linglene by transport staff and patient when leaving room</li> <li>Outside room, transport staff reapply clean gloves and clean gov</li> </ul> </li> </ul>	Patient Transport
2metres between patients	Single room preferred if available, or 2metres between patients:     Door can remain open	<ul> <li>Single room preferred if available, or 2m b/w patients</li> <li>Door can remain open</li> <li>Double sided tape at door, around patient bedspace</li> </ul>	Patient Accommodation
Contact Precautions until     24 hours after effective     treatment (normal)     Lesions resolved (Norwegian)	Routine Practices plus gloves for direct patient contact until 24 hours after effective treatment	Contact Precautions if > 1 bug seen     Post sign on door/curtain     Provide PPE as per signage	Additional Precautions & PPE
Apply treatment; follow product instructions for use     After waiting, wash off treatment following the product instructions for use, change all linens     Bag patient items     Provide clean dothes, linens	Intellular, Apply tearment, follow product ble bugs, Apply tearment, follow product works:  Note: Apply tearment, follow product start with the large tearment from the start tearment treents a bag patient terms  Provide dean clothes, linens as linens	Look for bites & visite bugs, including mobility devices     Bag and seal clothing. Send home to launder or store until discharge     Inform other departments patient has visited     Provide clean clothes, linens	For Patients with Signs/ Symptoms
Intense itching, worse at night, & after bathing     Pimply rash, tiny crooked lines on skin folds or skin eruptions     Dematitis, scaling     Norwegian: thick crust over skin; may look like psoriasis or eczema	Itching     Sores from scratching     Visible nits or lice	Red bump or flat welt similar to a     mosquito bite     Linear or cluster bite pattern     Bugs visible on ciothing or     belongings	Signs & Symptoms
DIRECT contact with mite, infested skin, laundry     Crusted/Norwegian Scables more highly contagious due to large number of mites	DIRECT contact with louse     Direct/indirect contact with comb, clothes, bedding, towel, belongings     Head to head contact     Cannot jump or fly	DIRECT contact with bugs on clothes, bedding, bed frames, headboards, baseboards, walls, walker, w/chair or environment     Cannot Jump	Transmission
nents	<ul> <li>Until effective treatment</li> <li>Usually after 1, occasionally 2 treatments</li> </ul>	<ul> <li>Until removed from environment, patient and clothes</li> </ul>	Communicability
Pimple-like rash or tiny lines in finger webs, wrists, elbows, arm pits, waist, penis, and buttocks     Thick crust with Norwegian scabies	Nits and lice around ears, forehead, nape of neck, near the scalp     Body lice on clothes     Crab lice on groins	Bites on exposed skin     Bugs or dark spots/stains on bed frame, mattress & bedding, headboard, baseboards, clothes, items with close body contact	Location
<ul> <li>Diagnosed by skin scraping</li> <li>Eggs are laid under the skin</li> <li>Do not transmit disease</li> <li>Die if off host for 3-4 days</li> </ul>	<ul> <li>Nits adhere to hair</li> <li>Do not transmit disease</li> <li>Die if off host for 2 days</li> </ul>	<ul> <li>Visit host to feed, not live</li> <li>Most active at night</li> <li>Do not transmit disease</li> <li>Live up to 550 days without food</li> </ul>	Facts
<ul> <li>1/3 mm long</li> <li>Bites can be mistaken for Psoriasis or other skin condition</li> </ul>	<ul> <li>Size of a rice grain</li> <li>Grayish brown in colour</li> <li>Nits can be mistaken for dandruff</li> </ul>	<ul> <li>Size of apple seed; flat oval body</li> <li>Brown; after feeding swell and can be bright or dark red</li> </ul>	'Bug' Appearance
Normal Scabies Norwegian	(eggs)	Bites	Photos
*		•	
SCABIES Protocol	Head LICE Protocol	BED BUGS Protocol	
ol) as appropriate	Housekeeping (HSKG) and Facility Management (pest/environmental control) as appropriate     IP&C (patient management) and OESH (staff exposures)	Housekeeping (HSKG) and Facility N     IP&C (patient management) and OI	Contact

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### Annex 24: Change Log

Revisions to this document will be listed by page, in date

### LIST OF ACRONYMS

ABHR - alcohol based hand rub

CDC - Centers for Disease Control Safety CCOHS - Canadian Centre for Occupational Health and BBV - bloodborne virus

CSA - Canadian Standards Association CHX rinse - chlorhexidine gluconate rinse

DUWL-dental unit waterline DIN – drug identification number

IAHCSMM - International Association of Healthcare Central Service Material Management EPP – exposure prone procedures

ISO TS - ISO technical specifications IPAC - infection prevention and control

IQ - installation qualification IUSS – immediate use steam sterilization

MDA - Manitoba Dental Association

MDR - medical device reprocessing

MIFU or MIFUs - manufacturers' instructions for use MHSAL- Manitoba Health, Senior's and Active Living

OPIM - other potentially infectious materials OHCP - oral healthcare provider

PCRA - point of care risk assessment PCD - process challenge device

PEP - post exposure protocol

PIDAC - Provincial Infectious Disease Advisory PHAC - Public Health Agency of Canada

Columbia) PICnet - Provincial Infection Control network (British Committee (Ontario)

PPE - personal protective equipment

SDS – safety data sheet

SFPP - steam flush pressure -pulse

SOP – standard operating procedure TST- tuberculosis skin test

WRHA - Winnipeg Regional Health Authority WSHA – Workplace Safety and Health Act

### GLOSSARY OF TERMS

additional precautions in addition to Routine Precautions. These depend on the pathogens mode of transmission: Contact Precautions, Droplet Precautions, Additional precautions: certain pathogens require Airborne Precautions (IPAC Canada)

and environmental sources. These particles may be airborne for extended periods in the indoor environment inhaled or absorbed by the skin and may remain fumes. Aerosols can be generated by both humans diameter or droplets in the air, such as dusts, mists, or Aerosols: a suspension of particles less than 5µm in

and air/water syringes. (<5µm) during use of handpieces, ultrasonic scalers, dentistry that produces particles of respirable size Aerosol generating procedure: a procedure in

ethanol is recommended. (IPAC Canada) consuming to use than washing with soap and water. emollients to reduce skin irritation and are less timewhen the hands are not visibly soiled. ABHRs contain to reduce the number of microorganisms on hands (IPAC Canada) For healthcare in Canada, 60-90% formulation of alcohol (e.g., ethanol, isopropanol) used Alcohol-based hand rub (ABHR): a liquid, gel or foam

teeth. As biomedical waste, it requires special handling. human tissues, organs and body parts but not including Anatomic waste: biomedical waste that includes

growth of bacteria, but not other microorganisms Antibacterial: A product that kills or suppresses the

more antibiotics (Health Canada) have mutated and are no longer susceptible to one or Antibiotic-Resistant Organism (ARO): bacteria that

**Antimicrobial:** a product that kills or suppresses the growth of microorganisms (PHAC)

soaps have residual antimicrobial activity and are other care areas. (PICnet) care areas but is not required and not recommended in Antimicrobial soap may be considered for use in critical not deactivated by the presence of organic material Antimicrobial Soap/Antiseptic Soap: antimicrobial

> **Antiseptic:** a product with antimicrobial activity that is designed for use on skin or other superficial tissues; it removes or kills both transient and resident flora. The term is used for preparations applied to living tissue.

on materials and in rooms, as obtained by excluding, removing, or killing organisms. (CDC Glossary for Oral microorganisms. Includes sterile conditions on tissues **Asepsis:** prevention from contamination with

person to another by keeping the microbe count to an irreducible minimum. Also referred to as sterile transfer of microorganisms from the patient's body surface to a normally sterile body site or from one technique. (PHAC) Aseptic technique: The purposeful prevention of

(CDC Glossary) Bacterial endocarditis: A bacterial induced inflammation of the lining of the heart and its valves

**Bioburden:** Population of viable microorganisms on or in a product and/or a sterile barrier system (ISO TS 11139-18)

and cannot be easily removed, and which may protect (Health Canada) bacteria within from being destroyed by disinfectants extracellular material that is tightly adhered to a surface **Biofilm:** A dynamic accumulated mass of bacteria and

**Biological indicator (BI):** A test system containing viable microorganisms providing a defined resistance to a specified sterilization process. (ISO TS 11139-18)

disease transmission. Term further divides into anatomic waste and non-anatomic waste special handling and disposal due to potential risk of Biomedical waste: contaminated waste requiring

(Merriam-Webster medical dictionary) optical fiber) used to inspect an inaccessible space **Borescope:** An optical device (such as a prism or

test for sterilization. (Rutala) sterilizer. The air-removal or Bowie-Dick test is not a to remove air from the chamber of a prevacuum steam Bowie-Dick test: Diagnostic test of a sterilizer's ability

Reprocessing in Canada (Document's document, CSA) CAN/CSA Z314-18: Document for Medical Device

> when high-frequency sound waves are introduced into a solution. (CSA Z314-18) Cavitation: A mechanical vibration effect that occurs

11139-18) change resulting from exposure to a process (ISO TS system that reveals change in one or more predefined process variables based on a chemical or physical Chemical indicator (CI): A non-biological indicator test

disinfectants) (Miller) Cidal: Kills microorganisms (usually applied to

Clean: Visually free of soil

disinfectant). (MDA) (cleaned followed by use of an appropriate surface Clean area: Any area that has been decontaminated

Document) properties of the formulation. (Health Canada, Guidance and organic material) from environmental surfaces and Cleaner: A substance, or mixture of substances, that inanimate objects due to the detergent or enzymatic physically removes foreign material (e.g., soil, inorganic

or detergent and water or an energy-based process (e.g., ultrasonic cleaners) with appropriate chemical either the physical action of scrubbing with a surfactant inorganic contamination from a device or surface, using same as a sanitizer by Health Canada.) agents. (CDC) (A cleaning product is not defined the **Cleaning:** the removal of visible soil, organic and

products that ensure the removal of organic soil Cleaning verification: cleaning verified through

care that become contaminated through aerosols or by healthcare workers touching objects. (MDA) Clinical contact surfaces: Surfaces involved in patient

the sterilizer when wet or hot. (MDA) a wet surface or contaminated area, or unloading from self-seal, packages that have fallen or been placed onto no longer sterile due to damage, faulty application of Compromised (packaging): Sterile packages that are

the medical device are exposed to a wet chemical or thermal disinfection process to achieve the appropriate level of disinfection or decontamination. (CSA Z314-18) Contact time: The defined time for which surfaces of

or infection. (CDC Glossary) microorganisms. As used in healthcare, it generally refers to microorganisms capable of producing disease Contaminated: State of having been in contact with

surfaces, such as on hands, on fomites, or in substances (e.g., water, food, milk). (PHAC) microorganisms transported transiently on body of the patient, patient bedding, medical devices) or inanimate objects (e.g., objects within the vicinity Contamination: The presence of microorganisms on

penetration, puncture, piercing or cutting of the skin **Contaminated sharps:** Any item which has sharp point(s) or cutting edge(s) capable of causing injury by when handled during patient treatment. (WRHA)

transmission (IPAC Canada) work environment is to be safe from infection and its healthcare organization that support the belief that the demonstrated values, attitudes and actions of a Culture of IPAC Safety: shared commitment and

constitute a cycle are conditioning, exposure and drying Cycle: for steam sterilization, the distinct phases that

susceptible to high contamination counts. (Adapted do not form part of a constant circulating system, are of pipe or tubing that leads nowhere or to an outlet which is rarely or never used. These sections, which from CSA Z314-18, Annex H) **Dead Leg:** In dentistry, a DUWL which has a section

(adapted from 'decontamination', Rutala). **Decontaminated:** Safe to touch with bare hands

and the surface or item is rendered safe for handling, use or disposal. In healthcare facilities, the term generally refers to all pathogenic organisms. (Rutala) are no longer capable of transmitting infectious particles pathogens on a surface or item to the point where they means to remove, inactivate or destroy bloodborne **Decontamination:** The use of physical or chemical

reprocessing before packaging. **Decontamination area:** The area in medical device

air) from the cleaning solution in an ultrasonic cleaner. **Degassing:** The removal of unwanted gases (especially

**Deionized water (DI):** Water that has been processed through an ion-exchange resin to remove ionized salts and particles from the water. (CSA Z314-18) (CSA Z314-18)

remove minerals. (CSA Z314-18) **Demineralized water:** Water that has been treated to

> perform a special function mechanism designed to serve a special purpose or **Device:** See 'Medical device'. A piece of equipment or

'contaminated' (MDA) **Dirty:** (Colloquial): Soiled, visibly soiled.

touched with bare hands. See 'contaminated' (MDA) that has not been decontaminated and cannot be safely Dirty area: (Colloquial) Clinical or reprocessing area

See 'microbicide' (Health Canada) used on environmental surfaces and inanimate objects but not necessarily bacterial spores. Disinfectants are pathogenic and potentially pathogenic microorganisms capable of destroying or irreversibly inactivating **Disinfectant:** A substance, or mixture of substances,

represented for use as a sanitizer on hard non-porous environmental surfaces and inanimate objects as a hard surface disinfectant. **Disinfectant-sanitizer:** A chemical product

impurities are reintroduced. (CDC Glossary) vaporized, cooled, condensed and collected so that no **Distilled water:** Water heated to the boiling point,

to the healthcare provider. (CDC) specific order to reduce the risk of disease transmission **Doffing:** to remove an article of wear from the body. This applies to removal of PPE and is performed in a

risk of exposure to disease-causing organisms. (CDC) of PPE which is done in a specific order to reduce the **Donning:** to put on or dress. This applies to placement

Canada) drug or product prior to being sold in Canada. (Health eight-digit number assigned by Health Canada to a Identification Number (DIN) is a computer-generated Drug Identification Number (DIN): A Drug

results of a randomized controlled trial. (PHAC) result under ideal conditions. Efficacy is based on the procedure, regimen or service produces a beneficial **Efficacy:** The extent to which a specific intervention,

more workers. (The Workplace Safety and Health Act) his agent or representative, employs or engages one or **Employer:** includes every person who, by himself or

process for a specified sterilization cycle. (See Annex responds to all critical parameters of the sterilization Emulating indicator (Type 6): An internal indicator that Description of Chemical Indicators)

> are put in place to reduce the risk of infection to staff or patients. (IPAC Canada) Engineering Controls: Mechanical measures that

**Environmental surfaces:** Those surfaces that are used in patient care but do not contact the patient directly and are divided into housekeeping surfaces and clinical contact surfaces (MDA)

to cleaning. (CSA Z314-18) used to loosen and dissolve organic substances prior from surfaces. Detergents contain a surfactant and are such as blood, body fluids, secretions and excretions agent that contains enzymes that breaks down proteins Enzymatic detergent: A formulated pre-cleaning

chemical reaction in a living organism. (MDA) **Enzyme:** Complex proteins that speed up the rate of

breach the protection provided by the packaging (e.g. through wetting, tearing or dropping). (CSA Z314-18) is considered sterile until an event occurs that could that has undergone a validated sterilization process and Event-related shelf life: a properly packaged item

**Flash sterilization:** term that has been replaced by 'immediate use steam sterilization' (IUSS)

respirator on an individual. (IPAC Canada) the fit of a specific make, model and size of an N95 Fit-test: A qualitative or quantitative method to evaluate

may become contaminated with microorganisms and Fomites: Objects in the inanimate environment that

testing that a device will perform as intended. (MDA) Functionality: determination through inspection and/or serve as a vehicle of transmission. (Rutala)

Examples are soiled gauze or dressings, disposable related risk or threat to people or the environment General waste: Waste that does not pose a disease-

substances, capable of destroying or irreversibly inactivating all microbial pathogens, but not necessarily large numbers of bacterial spores. (Health Canada) **High-level disinfectant:** A substance, or mixture of

inanimate objects. For use in hospitals, medical clinics, dental offices or any other healthcare-related critical medical devices, environmental surfaces and bacteria and gram-negative bacteria present on nonsubstances, capable of destroying both gram-positive Hospital disinfectant: A substance, or mixture of

> previously called flash sterilization: sterilization without use of packaging. Immediate-use steam sterilization (IUSS)

microorganisms. (Rutala) suitable temperature for the growth and cultivation of **Incubator:** Apparatus for maintaining a constant and

healthcare providers, patients and visitors. (PIOnet) reduce the risk of transmission of microorganisms to consistently in healthcare settings, can prevent or based practices and procedures that, when applied infection Prevention and Control (IPAC): Evidence

organize, coordinate, establish and maintain a culture of safety in the dental practice. (IPACC): The IPACC will be a team member who will nfection Prevention and Control Coordinator

specification (ISO TS 11139-18) documenting evidence that equipment has been provided and installed in accordance with its Installation qualification: Process of obtaining and

powering devices unrelated to human respiration (e.g., surgical tools). (CSA Z314-18) Instrument air: A medical support gas intended for

process. Type 5 Cls are correlated to the performance of biological indicators (Bls). (See also Annex 16, Description of Chemical Indicators) that responds to all critical parameters of the sterilization Integrating indicator (Type 5): An internal indicator

irreversibly inactivating all microbial pathogens, including or mixture of substances, capable of destroying or mycobacteria but not bacterial spores Intermediate-level disinfectant: A substance,

performed or is performed incorrectly) (IPAC Canada) practice does not meet the document (i.e., is not that can be expected to occur if a particular operation or IPAC Risk: IPAC-related threats or negative outcomes

Canada) substances, capable of destroying or irreversibly inactivating, at a minimum, vegetative bacteria. (Health **Low-level disinfectant:** A substance, or mixture of

instrument (IAHCSMM Central Service Technical Manual, 8th Ed) **-umen:** Interior path through a needle, tube or surgical

Manufacturers' instructions for use (MIFUs): written directions provided by the manufacturer or distributor of a product that contain the necessary information for all steps of reprocessing.

- All products purchased should include written "validated" instructions for use. At the present time, not all MIFUs will be validated.
- Any questions or discrepancies regarding the appropriateness of the instructions should be resolved before the product is purchased and used by communicating with the manufacturer. (adapted from CSA Z314-18)

**Mechanical monitoring:** readings of time, temperature and pressure from sterilizer gauges and readouts to determine the use and functioning of sterilizers. Same as 'physical monitoring'. (Miller 6th Edition)

Medical device: Any article, instrument or apparatus intended to diagnose, treat, manage or prevent disease or other health conditions. (Health Canada: Food and Druss Act)

Medical device reprocessing: See 'Reprocessing'

**Medical device reprocessing staff:** a team member who has been trained specifically for reprocessing instruments and devices for patient use.

Microbicide: See 'disinfectant'

MICST: SIN

Mycobactericide: A substance, or mixture of substances, capable of destroying or irreversibly inactivating mycobacteria present on environmental surfaces or inanimate objects. Also referred to as a tuberculocide on labels but mycobactericide is preferred. (Health Canada)

**N95 Respirator:** A PPE (mask) covers the nose and mouth and should be fit-tested to reduce the wearer's risk of inhaling airborne particles.

**Needlestick injury:** Wounds caused by needles that accidentally puncture the skin. (CCOHS)

**Non-anatomic waste:** is biomedical waste saturated with blood and capable of releasing blood during handling. Requires special handling. (WRHA)

**Office:** facility that delivers oral healthcare (private, institutional, hospital based) (MDA)

**One-way workflow:** The practice of ensuring that reprocessing work flows in one direction – from the dirtiest to the cleanest – thereby reducing the microbial load throughout the stages of reprocessing.

Operational qualification (OQ): The process of obtaining and documenting evidence that installed equipment operates within predetermined limits when used in accordance with its operational procedures. (CSA Z314-18)

**Oral Healthcare Provider (OHCP):** The term is used to describe dental professionals of varying designations involved in oral healthcare.

Owner: in relation to any land or premises used or to be used as a workplace; includes (a) a trustee, receiver, mortgagee in possession, tenant, lessee, licensee or occupier of the land or premises, and (b) a person who acts for or on behalf of an owner as an agent or delegate. (The Workplace Safety and Health Act)

Performance qualification (PQ): The process of obtaining and documenting evidence that the equipment, as installed and operated in accordance with operational procedures, consistently performs in accordance with predetermined criteria, and thereby yields product meeting its specification. (CSA Z314-18)

Persistence: A reduction in skin flora which maintains an extended and low microbial release from the skin due to slow regrowth of the resident microflora. (Health Canada)

Physical monitoring: See 'mechanical monitoring'

Plain soap: Detergents that do not contain antimicrobial agents or that contain very low concentrations of antimiorobial agents that are present only as preservatives. (PlCnet)

Point-of-care: The place where the following three elements occur together: the patient, the healthcare worker and care or treatment involving contact with the patient or his/her surroundings (within the patient zone). Point-of-care products should be accessible without leaving the patient zone. (PHAC)

## Point-of-care Risk Assessment (PCRA):

A PCRA is an activity whereby a health care worker (in any healthcare setting in a continuum of care):

• Evaluates the likelihood of exposure to an infectious

Chooses the appropriate actions or PPE needed to minimize the risk of exposure (Preventing the Transmission of Infection in Healthcare-MHSAL)

**Post-exposure prophylaxis:** The administration of medications following an occupational exposure in an attempt to prevent infection. (CDC)

**Practice (Noun):** A dentist's practice is his/her business, often interchanged with the words facility or office.

**Practise (Verb):** The act of practising a skill repeatedly to maintain one's proficiency, e.g., profession of dentistry.

**Prion:** Proteinaceous infectious particles that are transmissible pathogenic agents which cause a variety of progressive neurodegenerative diseases of the central nervous system in humans and animals. Prions demonstrate a high level of resistance to inactivation by sterilization processes and disinfectants. (Health Canada)

Process challenge device (PCD): A PCD is challenge tests pack or test tray that contains a biologic indicator, a Class 5 integrating indicator, or an enzyme-only indicator. A PCD is used to assess the effectiveness of the sterilization process by simulating the product to be sterilized, and to be representative of a defined challenge to the sterilization process. PCDs are either a validated commercial or a created in-house test package. (Rutala) (See also Annex 17, Creating an in-house Test Package)

**Process indicator (Type 1):** An external indicator that is used to demonstrate that an item has been exposed to a sterilization process, and to distinguish between processed and non-processed items. (CSA 2314-18)

**Protein Verification Tool:** chemical used on a device after cleaning to assess residual protein levels on surface being tested (CSA Z314-18 12.4.7.2.4)

**Recall:** medical devices, appliances, products or instruments that have been removed from use in a healthcare setting. A recall is done due to inadequate reprocessing, improper storage, breach in the sterile environment or notification of an alert or recall. (CSA Z314-18)

### Recommended: Should

**Reprocessing:** The series of steps required to make medical devices safe for use on patients. (MDA)

Resident Organisms: Those organisms normally permanently resident on the skin. (Health Canada)

Retraction: The entry of oral fluids and microorganisms

into waterlines through negative water pressure.

(CDC Glossary)

Routine Precautions: IP&C practices for use in the routine care of ALL patients at ALL times in ALL neathcare settings, and are determined by patient

the routine care of ALL patients at ALL times in ALL healthcare settings, and are determined by patient characteristics, the environment and the task to be performed. (MHSAL)

Sanitzer: A substance, or mixture of substances, that reduces the bacterial population on environmental surfaces and inanimate objects by significant numbers (e.g., a minimum 3 log10 reduction) due to the antimicrobial action of the active ingredient(s), but which does not destroy all bacteria.

### Shall: Must

**Sharps:** Any object that is able to cut the skin can be considered a "sharp". (CCOHS)

**Sharps injury:** Wound to the skin caused by any instrument capable of causing injury during healthcare procedures. (MDA)

Should: Recommended

Significant exposure: An injury during which one person's blood or other high-risk body fluid comes in contact with another person's body cavity; subcutaneous tissue, or non-intact, chapped, abraded skin or mucous membrane. (WRHA)

**Soil:** Organic and inorganic materials on surfaces. Also see 'visibly soiled'.

Spaulding classification: classifies a medical device as critical, semicritical or noncritical on the basis of patient risk. It also establishes three levels of germicidal activity, i.e., sterilization, high-level disinfection and low-level disinfection. (Rutala)

**Specialty indicator (Type 2):** An indicator that is designed for use in specific test procedures in certain sterilizers (e.g., pre-vacuum sterilizers).

**Steam quality:** the quality of steam as it relates to the dryness fraction and the level of non-condensable gas used during sterilization. The dryness fraction should not fall below 97%. (Rutala)

Sterile: free from viable microorganisms. (CSA Z314-18)

**Sterile barrier system:** minimum package that prevents ingress of microorganisms and allows aseptic presentation of product at the point of use. (ISO TS 11139-18)

**Sterilizer (Dynamic air removal):** the evacuation of air from the sterilization chamber and the load by mechanical means (pressure or vacuum) at the beginning of the sterilization cycle. (CAN/CSA Z314-18)

### Notes:

- Pre-vacuum sterilizers depend on one or more pressure and vacuum excursions at the beginning of the cycle to remove air. This type of dynamic air removal allows the use of shorter cycle times for wrapped items because of the rapid removal of air from the chamber and the load by the vacuum system. This type of sterilizer can also achieve accelerated drying of loads by an additional vacuum at the end of the sterilization cycle.
- Steam-flush pressure-pulse steam sterilizers use steam flushes and pressure pulses to remove air from the sterilizing chamber and the load. This system uses steam at higher than atmospheric pressure, rather than vacuum, and is therefore less susceptible to air leaks.

**Sterilizer, steam:** Apparatus used to sterilize medical devices, equipment and supplies by direct exposure to the sterilizing agent, in this case saturated steam under pressure as the sterilant. (AAMI: ST79)

**Surfactant:** agent that reduces the surface tension of water or the tension at the interface between water and another liquid; a wetting agent found in many sterilants and disinfectants. (Rutala)

**Surgical:** Related to or used in surgery, and something done with great precision.

**Transient organisms:** Recent contaminants of the hands acquired from colonized or infected patients, a contaminated environment or contaminated equipment. (PHAC)

**Transmission precautions:** a set of practices that apply to patients with documented or suspected infection or colonization with highly transmissible or epidemiologically important pathogens for which precautions beyond the routine precautions are needed to interrupt transmission in healthcare settings.

**Use-life:** the length of time a diluted product can remain active and effective. (Rutala)

**Utility gloves:** heavy duty gloves used to prevent injury from chemicals and punctures. (MDA)

**Validation:** documented procedure for obtaining, recording and interpreting a process that will consistently comply with predetermined specifications. (ISO TS 11139-18)

**Vector:** a living organism that transfers a pathogen from one person to another. (CDC)

**Verification:** confirmation that following validated instructions has achieved the desired results. (Z314-18). Applies to processes such as cleaning and sterilization monitoring.

**Verified clean:** use of chemicals to determine that organic materials have been removed from the device when the

material cannot be detected visually. See 'Protein Verification Tool' (ISO 11139:2018)

**Visibly soiled:** hands or surfaces on which dirt, blood or body fluids can be seen. (PICnet, IPAC 2016)

**Virucide:** A disinfectant represented as having efficacy against any specific virus (i.e., the product has demonstrated "virucidal" efficacy). (Health Canada)

**Washer:** equipment designed to clean product (ISO 11139:2018)

**Washer-disinfector:** equipment designed to clean and disinfect product (ISO 11139:2018)

**Wicking:** absorption of a liquid by capillary action along a thread or through the material (e.g., the enhanced penetration of liquids through undetected holes in a glove). (CDC Glossary of Dental Terms)