











Non-Sterile Exam Glove Selection Guide

February 2018

A joint initiative between BCCSS and Workplace Health (OH&S).

Contained within this document:

- A decision tree for guidance on non-sterile exam glove selection.
- A fact sheet for each standardized non-sterile exam glove.
- Glove safety reminders.
- Ordering information.
- Workplace Health / Occupational Health & Safety contact information.
- References and compliance information.





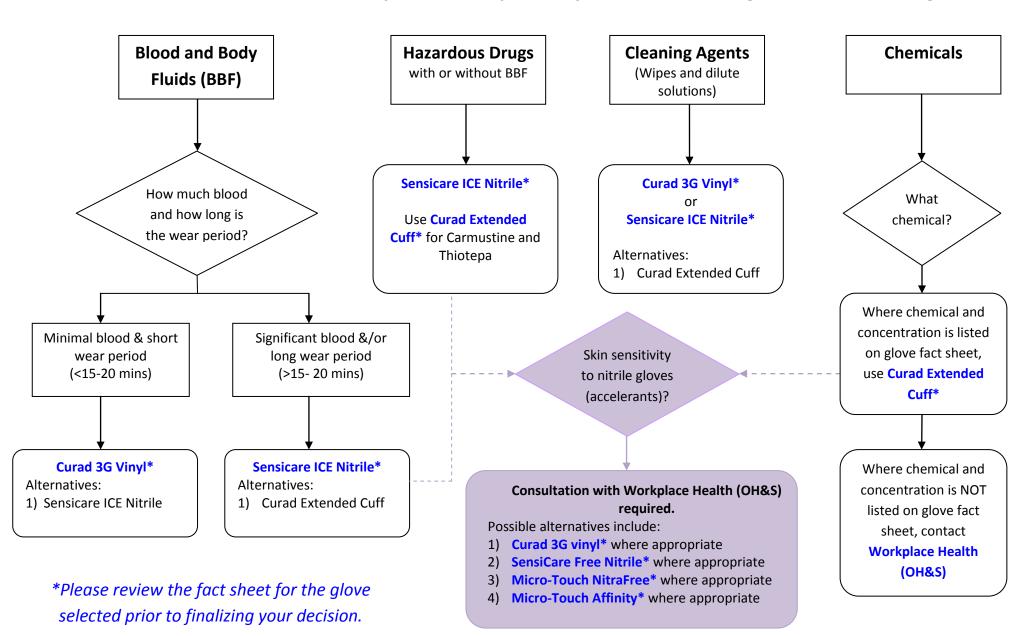








Decision Tree - What hazards do you need to protect yourself from using non-sterile exam gloves?



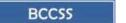












Curad 3G Vinyl Exam Glove

Non-sterile, Powder-Free

Manufacturer: Medline, 9 inch cuff

Box Ref: XS CUR6073, S CUR6074, M CUR6075,

L CUR6076, XL CUR6077



Recommended for:

Use	Hazard	Approved
Patient Care	Blood and body fluid (BBF):	Yes
where contact is made with mucous	Small amounts of blood, and	
membranes, body secretions and	Short wear time (approximately 15-20 minutes)	
soiled equipment.		
Bathing.	Blood and body fluid:	No
 Phlebotomies. 	Large amounts of blood, and/or	Use nitrile
 Emptying catheter bags. 	Extended wear time (> 20 minutes)	gloves
NG insertion.		J
 Suctioning. 		
 Vaginal/rectal exams. 		
Routine care of contact		
precaution patients.		

Also can be used for:

Use	Hazard	Approved
Cleaning	Ammonium hydroxide, 28%	Yes
with wipes and dilute solutions.	Bleach, 10-13%	Change gloves
	Chlorhexidine digluconate, 4% (hand care)	at least every
Note: Thicker chemical resistant	Cidex OPA	10 minutes
gloves are required for	Povidone iodine, 10% (wound care)	
concentrated cleaning solutions and	Quaternary cleaner	
when hands must be immersed for	Accel Intervention wipes	No
long periods of time.	Caviwipes	Contact
	Isopropyl alcohol, 70%	Workplace
	Oxivir TB wipes	Health (OH&S).













Sensicare ICE Nitrile Exam Glove

Non-sterile, Powder-Free

Manufacturer: Medline, 9 inch cuff

Box Ref: XS MDS6800, S MDS6801, M MDS6802, L MDS6803, XL MDS6804



Recommended for:

Use	Hazar	d	Approved
 Patient Care where contact is made with mucous membranes, body secretions and soiled equipment. Exposure to large amounts of blood and body secretions. High risk trauma patients in ED. Activity where integrity of the glove is likely to be stressed. Staff or patients that react to vinyl gloves. 	Blood and body fluid, plus:	Yes	
Hazardous Drugs e.g. chemotherapy administration. These gloves have been tested against a broad range of hazardous drugs and thus are approved for use when handling any hazardous/cytotoxic drugs, except for Carmustine and Thiotepa. The specific hazardous drugs against which the gloves have been tested are listed.	5-Azacytidine (25 mg/ml) Bleomycin (15 mg/ml) Bortezomib (1 mg/ml) Busulfan (6 mg/ml) Carboplatin (10 mg/ml) Cisplatin (1 mg/ml) Cyclophosphamide (20 mg/ml) Cytarabine HCl (100 mg/ml) Dacarbazine (10 mg/ml) Daunorubicin (5 mg/ml) Docetaxel (10 mg/ml) Doxorubicin HCl (2 mg/ml) Epirubicin (2 mg/ml) Etoposide (20 mg/ml) Fludarabine (25 mg/ml) Fluorouracil (50 mg/ml) Ganciclovir (10 mg/ml) Gemcitabine (38 mg/ml) Idarubicin (1 mg/ml) Ifosfamide (50 mg/ml)	Mechlorethamine HCl (1 mg/ml) Melphalan (5 mg/ml) Methotrexate (50 mg/ml) Mitomycin C (0.5 mg/ml) Mitoxantrone (2 mg/ml) Oxaliplatin (5 mg/ml) Paclitaxel (6 mg/ml) Pemetrexed (25 mg/ml) Raltitrexed (0.5 mg/ml) Vinblastine (1 mg/ml) Vincristine sulfate (1 mg/ml) Vinorelbine (10 mg/ml)	Yes Single or double glove as per your procedures. Change gloves at least every 30 minutes.
	Carmustine (3.3 mg/ml)* Thiotepa (10 mg/ml)*		No Use Curad Extended Cuff Nitrile gloves.













Use	Hazard	Approved
Cleaning	Accel Intervention wipes	Yes
with wipes and dilute solutions.	Ammonium hydroxide, 28%	Change gloves at
	Bleach, 10-13%	least every 10
Note: Thicker chemical resistant	Caviwipes	minutes.
gloves are required for	Chlorhexidine gluconate, 20% (hand care)	
concentrated cleaning solutions and	Oxivir TB wipes	
when hands must be immersed for	Povidone iodine, 10% (wound care)	
long periods of time.		

^{*}If procedures exceed the recommended glove use time, VersaShield gloves are an alternative.

Curad Extended Cuff Nitrile Exam Glove

Non-sterile, Powder-Free

Manufacturer: Medline, 12 inch cuff

Box Ref: XS CUR7003, S CUR7004, M CUR7005, L CUR7006, XL CUR7007



Recommended for:

Recommended for.	T		
Use	Haz	ard	Approved
Chemical Handling	Bleach, 10-13%	Potassium hydroxide	Yes
Formalin use (e.g. pouring in	Cidex OPA	Povidone iodine, 10%	Change gloves
ORs)	Citric acid, 70%	(wound care)	at least every
	Fentanyl	Sodium Hydroxide, 50%	60 minutes.
	Formaldehyde, 37%	Triclosan	
Note: Thicker chemical-resistant	Formalin, 10%	For other chemicals,	
gloves are required for	Glutaraldehyde, 4%	contact Workplace	
concentrated chemicals (such as	Hydrazine, 35%	Health (OH&S).	
acids) and when hands must be	Hydrogen peroxide, 30%		
immersed for long periods of time.	Isopropyl alcohol, 90%		
	Acetic acid		Caution
	Formic acid, 88%		Change gloves
	Isopropyl alcohol, 99%		at least every
			15 minutes.
	Acetone, 99%		No
	Chloroform, 99.8%		Contact
	Ethanol, 99.5%		Workplace
	Methanol, 99.5%		Health (OH&S).
	Phenol, 10%		
	Toluene, 99.5%		
	Xylene, 98.5%		













Also can be used for:

Use	Haz	Approved	
Patient Care	Blood and boo	Yes	
	Extended wear tin		
Hazardous Drugs	Carboplatin (10 mg/ml)	Methotrexate (25	Yes
e.g. chemotherapy administration.	Cisplatin (1 mg/ml)	mg/ml)	Single or double
	Cyclophosphamide (20	Mitomycin C (0.5	glove as per
These gloves have been tested	mg/ml)	mg/ml)	your
against a broad range of hazardous	Dacarbazine (10 mg/ml)	Mitoxantrone (2	procedures.
drugs and thus are approved for use	Doxorubicin HCl (2 mg/ml)	mg/ml)	
when handling any	Etoposide (20 mg/ml)	Paclitaxel (6 mg/ml)	Change gloves
hazardous/cytotoxic drugs.	Fluorouracil (50 mg/ml)	Thiotepa (10 mg/ml)	at least every
	Ifosfamide (50 mg/ml)	Vincristine sulfate	30 minutes.
*Note: duration of use with		(1 mg/ml)	
Carmustine should be limited to 15			
minutes.	Carmustine (3.3 mg/ml)*		Caution
			Single or double
The specific hazardous drugs against			glove as per
which the gloves have been tested			your
for are listed.			procedures.
			Change gloves
			at least every
			15 minutes.
Cleaning	Accel Intervention wipes	Cidex OPA	Yes
with wipes and dilute solutions.	Ammonia hydroxide, 28%	Isopropyl alcohol, 90%	Change gloves
	Bleach, 10-13%	Oxivir TB wipes	at least every
Note: Thicker chemical resistant	Caviwipes	Povidone iodine, 10%	10 minutes.
gloves are required for	Chlorhexidine	(wound care)	
concentrated cleaning solutions and	digluconate, 4%	Quarternary cleaners	
when hands must be immersed for			
long periods of time.			













SensiCare Free Nitrile Exam Glove

Non-sterile, Powder-Free

Manufacturer: Medline, 9 inch cuff

Box Ref: XS FREE500, S FREE501, M FREE502, L FREE503, XL FREE504



Recommended for personnel with skin sensitivities to other products.

Use	Hazar	d	Approved
Patient Care	Blood and body	Yes	
	Extended wear time		
Cleaning with wipes and dilute solutions.	Ammonia hydroxide, 28% Bleach, 10-13% Caviwipes	Isopropyl alcohol, 70% Povidone iodine, 10% (wound care)	Yes Change gloves at least every
Note: Thicker chemical resistant gloves are required for concentrated cleaning solutions and when hands must be immersed for long periods of time.	Chlorhexidine Digluconate, 4% (hand care)	(would care)	10 minutes.
Hazardous Drugs e.g. chemotherapy administration.	Cisplatin (1 mg/ml) Cyclophosphamide (20 mg/ml)	Methotrexate (25 mg/ml)	Yes Double glove
These gloves have been tested against a broad range of hazardous drugs and thus are approved for use when handling any hazardous/cytotoxic drugs, except	Dacarbazine (10 mg/ml) Doxorubicin Hydrochloride (2 mg/ml) Etoposide (20 mg/ml) Fluorouracil (50 mg/ml)	Mitomycin C (0.5 mg/ml) Paclitaxel (6 mg/ml) Thio-Tepa (10 mg/ml) Vincristine Sulfate (1 mg/ml)	Change gloves at least every 30 minutes.
for Carmustine.	Carmustine (3.3 mg/ml)		No
The specific hazardous drugs against which the gloves have been tested are listed.			Contact Workplace Health (OH&S).
Chemical Handling	Bleach, 10-13%		Yes
• Labs	Citric Acid, 70%		Change gloves
Formalin use (e.g. pouring in	Formaldehyde, 5%		at least every
ORs)	Formalin, 10% Sodium Hydroxide, 40%		30 minutes.
Note: Thicker chemical-resistant	Sociali nyaroxide, 40%		
gloves are required for	For other chemicals, contact Workplace Health (OH&S).		
concentrated chemicals (such as	Acetic Acid		Caution
acids) and when hands must be	Isopropyl Alcohol, 70%		Change gloves
immersed for long periods of time.			at least every
	Ethanal 00 E9/		15 minutes.
	Ethanol, 99.5% Hydrogen Peroxide, 30%		No Contact
	Toluene, 99.5%		Workplace
	Xylene, 98.5%		Health
			(OH&S).













Micro-Touch Nitrafree

Non-sterile, Powder-Free, Accelerant Free

Manufacturer: Ansell, 9 inch cuff

Box Ref: XS 6034510, S 6034511, M 6034512, L 6034513, XL 6034514



Recommended for personnel with skin sensitivities to other nitrile products.

Use	Haza	ord .	Approved
Patient care	Blood and body		Yes
Cleaning with wipes and dilute solutions. Note: Thicker chemical resistant gloves are required for concentrated cleaning solutions	Extended wear tim Ammonium hydroxide, 28- 30% Bleach, 10-13% Chlorhexidine gluconate, 4% (hand care) Cidex OPA	es (>20 minutes) Povidone iodine, 10% (wound care) Quaternary cleaner	Yes Change gloves at least every 10 minutes.
and when hands must be immersed for long periods of time.	Accel Prevention RTU Accel Intervention wipes Caviwipes	Isopropanol, 99.5% Oxivir TB wipes Virox wipes	No Contact Workplace Health (OH&S).
Hazardous Drugs e.g. chemotherapy administration.	Carmustine Cyclophosphamide Doxorubicin HCl Etoposide 5-Fluorouracile	Methotrexate Paclitaxel ThioTEPA Vincristine	Yes Single or double glove as per your procedures. Change gloves at least every 30 minutes.
 Chemical handling Labs Formalin use (e.g. pouring in ORs) Note: Thicker chemical-resistant gloves are required for concentrated chemicals (such as acids) and when hands must be immersed for long periods of time. 	Acetic Acid, 10% Bleach, 10-13% Cidex OPA Citric Acid, 70% Formaldehyde, 37% Glutaraldehyde, 4% For other chemicals, contact (OH&S).	Hydrazine, 35% Potassium Hydroxide Sodium Hydroxide, 50% Triclosan, 5% t Workplace Health	Yes Change gloves at least every 30 minutes.
inimersed for long periods of time.	Formalin, 10% Hydrogen Peroxide, 30% Isopropanol, 70% Acetone, 99.9% Chloroform, 99.8% Ethanol, 99.5% Formic Acid, 88%	Isopropanol, 90% Methanol, 99.5% Phenol, 10% Toluene, 99.5%	Caution Change gloves at least every 15 minutes. No Contact Workplace Health (OH&S).













Micro-Touch Affinity

Non-sterile, Powder-Free, Neoprene

Manufacturer: Ansell, 9 inch cuff

Box Ref: XS 3770, S 3771, M 3772, L 3773, XL 3774



Recommended for personnel with skin sensitivities to other products.

Use	Hazard	Approved
Patient Care	Blood and body fluids (BBF) Extended wear times (>20 minutes)	Yes
Cleaning with wipes and dilute solutions. Note: Thicker chemical resistant gloves are required for concentrated cleaning solutions and when hands must be immersed for long periods of time.	Ammonium hydroxide, 25% Isopropanol, 70% Bleach, 10-13% Oxivir (AHP) Chlorhexidine gluconate, 4% (hand care)	Yes Change gloves at least every 10 minutes.
Hazardous Drugs Note: Tested as per ASTM F739, consult with Workplace Health (OH&S) if you regularly handle or administer hazardous drugs.	Cisplatin Melphalan Cyclophosphamide Paclitaxel Doxorubicin Hydrochloride Etoposide 5-Fluorouracile	Yes Double glove Change gloves at least every 30 minutes.
	Carmustine ThioTEPA	No Contact Workplace Health (OH&S).
 Chemical Handling Labs Formalin use (e.g. pouring in ORs) Note: Thicker chemical-resistant gloves are required for 	Bleach, 10-13% Hydrogen Peroxide, 30% Ethyl Alcohol, 70% Isopropanol, 70% Formaldehyde, 37% Sodium Hydroxide, 50% Glutaraldehyde, 4% For other chemicals, contact Workplace Health (OH&S).	Yes Change gloves at least every 30 minutes.
concentrated chemicals (such as acids) and when hands must be immersed for long periods of time.	Methanol	Caution Change gloves at least every 15 minutes.
	Acetone	No Contact Workplace Health (OH&S).





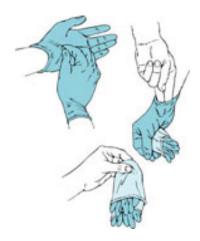






Glove Safety Reminders

- Perform hand hygiene before donning gloves.
- Wear the appropriate glove for the specific task, and remove immediately once the task is complete.
- Remove gloves immediately if torn. Perform hand hygiene and put on a new pair of gloves.
- Do not wear the same pair of gloves from patient to patient.
- Do not wear gloves out of a patient's/resident's/client's room.
- Remove gloves by pulling them inside out. Avoid coming in direct contact with the outside of the used glove.



 Always perform hand hygiene immediately after removing gloves. Gloves do not replace hand hygiene. Note: when working with chemicals or hazardous drugs, hands must be washed with soap and water to remove possible contamination.

Sizing may be a bit different between each model of glove. When trying a new glove, start with the size you usually use and adjust to a larger or smaller size if needed.











Order Numbers

Reference Codes on Box:

Size	Curad3G	Sensicare ICE	Curad Extended	Micro-Touch	Micro-Touch	SensiCare
	Vinyl	Nitrile	Cuff Nitrile	Nitrafree	Affinity	Free
XS	CUR6073	486800	CUR7003	6034510	3770	FREE500
S	CUR6074	486801	CUR7004	6034511	3771	FREE501
M	CUR6075	486802	CUR7005	6034512	3772	FREE502
L	CUR6076	486803	CUR7006	6034513	3773	FREE503
XL	CUR6077	486804	CUR7007	6034514	3774	FREE504

FH Order Numbers:

Size	Curad3G	Sensicare ICE	Curad Extended	Micro-Touch	Micro-Touch	SensiCare
	Vinyl	Nitrile	Cuff Nitrile	Nitrafree	Affinity	Free
XS	411315	418120	330175	408709	Contact	471576
S	336347	418121	330176	407418	Workplace	471577
M	336348	418122	330177	408472	Health (OH&S)	471578
L	336349	418123	330178	398845		471579
XL	336350	418127	424568	415366		471580

PHC Order Numbers:

Size	Curad3G	Sensicare ICE	Curad Extended	Micro-Touch	Micro-Touch	SensiCare
	Vinyl	Nitrile	Cuff Nitrile	Nitrafree	Affinity	Free
XS	00079760	00089473	00092540	00093815	Contact	00119459
S	00079761	00089476	00092534	00093816	Workplace	00119460
M	00079762	00089477	00092535	00093817	Health	00119461
L	00079763	00089474	00092536	00093818	(OH&S)	00119462
XL	00079764	00089475	00092537	00093819		00119463

PHSA Order Numbers:

Size	Curad3G	Sensicare ICE	Curad Extended	Micro-Touch	Micro-Touch	SensiCare
	Vinyl	Nitrile	Cuff Nitrile	Nitrafree	Affinity	Free
XS	Not itemized	00085935	00085980	Not itemized	Contact	00092402
S	00086328	00085936	Not itemized	Not itemized	Workplace	00092403
M	00086329	00085937	00031946	Not itemized	Health (OH&S)	00092404
L	00086330	00085938	00085981	Not itemized		00092405
XL	00086331	00085939	Not itemized	Not itemized		00092406

VCH Order Numbers:

Size	Curad3G	Sensicare ICE	Curad Extended	Micro-Touch	Micro-Touch	SensiCare
	Vinyl	Nitrile	Cuff Nitrile	Nitrafree	Affinity	Free
XS	00079760	00089473	00092540	00093815	Contact	00119459
S	00079761	00089476	00092534	00093816	Workplace	00119460
M	00079762	00089477	00092535	00093817	Health	00119461
L	00079763	00089474	00092536	00093818	(OH&S)	00119462
XL	00079764	00089475	00092537	00093819		00119463

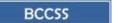












Contact Information

FH Workplace Health

Intranet home page Site Safety Consultants

PHC Occupational Health and Safety

<u>Intranet home page</u> <u>Site Occupational Health and Safety Advisors</u>

PHSA Workplace Health

Intranet home page workplacehealth@phsa.ca

VCH Workplace Health

<u>Intranet home page</u> <u>Site Occupational Health and Safety Advisors</u>













References and Compliance Information

Glove specifications data:

- Medline resistance data for hazardous drugs and chemicals sent to Workplace Health (OH&S) in 2016 and 2017.
- Ansell Chemotherapy Drug Permeation Chart (2017) and Chemical Resistance Guide (2017) sent to Workplace Health (OH&S) in Oct. 2017. Microtouch Affinity chemical permeation data was derived from the Ansell Examination Gloves Document (2012).

All gloves tested in accordance with:

- Blood and body fluid penetration:
 - ASTM D6319 10 Standard Specification for Nitrile Examination Gloves for Medical Application.

or,

 ASTM D5250 - 06(2011) Standard Specification for Poly(vinyl chloride) Gloves for Medical Application

and,

 ASTM F1671: Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Blood-Borne Pathogens Using Phi-X174 Bacteriophage Penetration as a Test System.

• Hazardous drugs:

 ASTM D6978 Standard Practice for Assessment of Resistance of Medical Gloves to Permeation by Chemotherapy Drugs

Chemicals:

 ASTM F739: Standard Test Method for Resistance of Protective Clothing to Permeation by Liquids, Gases Under Conditions of Continuous Contact

or,

• EN 374: Protective Gloves Against Chemicals and Micro-Organisms – Part 3: Determination of Resistance to Permeation by Chemicals

This selection guideline was developed to comply with:

- WorksafeBC Occupational Health and Safety Regulation.
- BCCA Pharmacy Practice Standards for Hazardous Drugs, September 2016. Retrieved January 24, 2017 from http://www.bccancer.bc.ca/pharmacy-site/Documents/Safe%20Handling/8%20Safe%20Handling%20Standards%20Summary_September
 %202016.pdf