

Infection Control Risk Assessment (ICRA) Completion Guide for Health Care Facilities in All Settings

Site Applicability:

All Vancouver Coastal Health Owned and Operated Acute, Ambulatory, Community, Long Term Care and Assisted Living Facilities.

Purpose:

The purpose of the Infection Control Risk Assessment (ICRA) is to minimize the risk of infection related to construction, renovation, and maintenance activities. *The contractor or the Project Manager shall complete the ICRA form and submit it to Infection Prevention and Control (IPAC) for review and sign-off, at least 5 days prior to the start of any construction activities.* If the scope of work changes at any time during the project, an updated ICRA will need to be re-submitted.

Pr	Procedure:					
1.	ICRA Form Completion	1. Project name: Name of project				
		2.	Project location: Location of work (e.g. site/facility, unit/programs)			
		3.	Project start date: Expected start date			
		4.	Project completion date: Expected completion date or duration of the project			
		5.	a. VCH Project Manager name and contact number			
			b. Contractor site supervisor name and contact number			
		6.	Brief description of the project: Provide a brief description of the work and any activities that			
			may impact any shared utilities, plumbing, HVAC system, etc.			
		7.	Population risk group of the construction area: Risk group 1, 2, 3, or 4			
		8.	Identify area(s) above the construction zone			
		9.	Identify area(s) below the construction zone			
		10	Identify area(s) laterally adjacent to the construction zone(s) and identify highest risk			
			group(s) adjacent to construction zone(s) (Table 2)			
			1. Identify Construction Activity: A, B, C, or D (Table 3)			
			. Identify Preventative Measure level: I, II, III, or IV (Table 4)			
		13.	Risk mitigation strategies: Describe mitigation strategies, including any processes, equipment			
			to contain dust, etc.			
-	6 1 11 15 1		Signatures: prior to sending the document to IPAC, collect relevant signatures for the project			
2.	Submittal Package	•	Mandatory:			
			i. Completed ICRA Form with relevant signatures and contact information.			
			ii. Include a floor plan that shows hoarding lines, point of exhaust for Construction Air			
			Handling Units (CAHUs), air pressure differential monitor, dust mats, anteroom (if			
			applicable), route lines for waste, construction materials and construction workers, impact to adjacent systems (if applicable) such as plumbing, heating, ventilation and air			
			conditioning (HVAC), etc. <i>Please ensure to clearly identify the differences in hoarding</i>			
			using different coloured lines – true slab; ceiling; envelope; hard hoarding to true slab;			
			hard hoarding to ceiling and soft hoarding to true slab; hard hoarding to ceiling and			
			poly across ceiling; soft hoarding to ceiling; soft hoarding to true slab; etc.			
			optional:			
			i. Infection Control Plan			
			ii. Any supplemental documents from the constructor (e.g., photos, reports, etc.)			
3.	Submission and Review	•	Email Submittal Package to IPAC <i>at a minimum of 5 business days</i> prior to the construction			
-	Timeline		start date. Late submission may result in construction delays and thus impact project			
			schedule. If the primary infection control practitioner (ICP) is not available, please email the			
1			appropriate IPAC team:			
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Acute - Vancouver General Hospital: ICP-VGH@vch.ca



		 Acute – UBC Hospital: lCP-UBC@vch.ca & GF Strong lCP-GFS@vch.ca
		 Acute – Lion's Gate Hospital: ICP-LGH@vch.ca
		 Acute – Richmond Hospital: ICP-RH@vch.ca
		 Acute – Coastal Region (Powell River, Sechelt, Squamish/Sea-to-Sky): ICP-
		Coastal@vch.ca
		 Long Term Care: ICP-LTC@vch.ca
		 Ambulatory and Community: ICP-ambulatorycommunity@vch.ca
		IPAC will review and provide a written response within 5 business days of package receipt.
		*** Any exception to this timeline shall be discussed with IPAC and agreed upon in advance.
		*** In the event of an emergency (i.e. fire and flood), immediate remediation may proceed,
		followed by an ICRA submission during business hours.
4.	Pre- and Post-	Construction site inspection by IPAC is <i>recommended for PM III and IV</i> projects.
	Construction IPAC	VCH project manager is expected to be present at the pre- and post-construction IPAC site
	Inspection	visits.
		Pre-construction visit: After all appropriate containment measures are in place:
		Notify IPAC for an inspection of the site
		If IPAC is not available, other forms of inspection can be arranged between
		PM/contractor and IPAC (i.e. photos, virtual walkthrough)
		Construction activities: can start once approved by IPAC
		 If deficiencies are identified, prompt remediation must be completed before
		construction can start.
		Post-construction visit: After the final construction clean, an IPAC visit is recommended
		before barrier removal.
		Terminal clean: Following construction clean, environmental services must perform a
		terminal clean.
		*** Any exception or deviation from these requirements shall be discussed with IPAC and agreed
		upon in advance .
		*** Occasional site visits by IPAC may occur throughout the project.

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Table 1 - Preventive measures analysis - Minimum values

Preventive measure analysis matrix:					
Population risk group (detailed	Construction activity type (detailed description from table 3)				
description from table 2)	Type A	Type B	Type C	Type D	
Group 1	I	II*	II	III	
Group 2	II	II	III	IV	
Group 3	II.	III*	III	IV	
Group 4	II	III*	IV	IV	
Table was adopted from CSA Z317.13:22. * Denotes where a lower level might be used in accordance with Clause 7.5 in CSA Z317.13:22					

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Table 2 - Population risk groups and geographical areas

Population risk group	Typical areas
Group 1	Office areas (i.e., non-clinical)
Lowest risk	Decanted patient care units (i.e., shell or decommissioned space) ¹
	Transient public areas (i.e., areas of pass through) not intersecting a patient care area ²
	Laundry and soiled linen sorting or storage areas
	Loading dock (main area)
	Physical plant workshops
	Housekeeping rooms and closets
Group 2	Patient care areas, unless listed in Group 3 or Group 4
Medium risk	Outpatient clinics (except oncology and surgery)
	Unoccupied patient care units (e.g., ambulatory care units during off-hours, decanted spaces that
	still house equipment in use) ¹
	Admission and discharge units
	Autopsy and morgue
	Occupational therapy and physical therapy areas remote from patient care areas
Group 3	Emergency (except trauma rooms)
Medium to high risk	Diagnostic imaging
	Labour and birthing rooms (without operating room capability)
	Nurseries for healthy newborns
	Nuclear medicine
	Hydrotherapy
	Echocardiography
	Laboratories
	General medical and surgical wards or units (includes all areas including soiled and clean utility
	rooms)
	Pediatric units
	Geriatric units
	Long-term care units
	Food preparation, service, and dining areas
	Respiratory therapy
	Clean linen handling and storage areas
•	Supply/material management handling and storage (e.g., central stores)
Group 4	Intensive care units (ICU, PICU, NICU, etc.)
Highest risk	Operating rooms (including prep, induction, post-anaesthetic care unit (PACU), and scrub areas)
	Anaesthesia storage areas and workrooms Oncology units and outpatient clinics
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	Transplant units and outpatient clinics Inpatient units and outpatient clinics for patients with AIDS or other immunodeficiency diseases
	Dialysis units
	Critical care nurseries
	Labour and delivery operating rooms
	Interventional or high-risk diagnostic imaging, e.g.,
	Cardiac catheterization and angiography
	Interventional radiology
	Endoscopy
	Bronchoscopy
	Cystoscopy
	Cardiovascular and cardiology patient areas
Last Undated: Decembe	Pharmacy admixture rooms



Medical device reprocessing areas (wherever located), including sterile supply storage*

Clean and sterile storage located in patient care areas

Burn care units

Animal rooms

Trauma rooms

Protective isolation rooms

Tissue culture laboratories

Pacemaker insertion rooms

Dental procedure rooms

Table was adopted from CSA Z317.13:22. *Denotes population risk group remains at level 4 even during off hours.

¹Decanted patient care areas refer to those areas that are shelled or decommissioned spaces. These spaces must also be decanted of equipment and supplies. This is distinct from unoccupied patient care areas that are active patient care areas, but work is being conducted during off-hours (i.e., no patient present).

²Population risk group determination for public areas and waiting rooms shall be based on the population served.

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Table 3 - Construction activity type

Construction activity	Description	
type		
Туре А	Inspection and non-invasive activities. These include, but are not limited to, activities that involve a single controlled opening in a wall or ceiling within a single defined space for visual inspection, that is accessed by a) removing no more than one ceiling tile; or b) opening of an access panel on a wall or ceiling Note: A single defined space refers to a continuous series of walls that extend the full height to the underside of the deck above. This definition is to ensure that multiple ceiling tiles within one area are not removed, above ceiling investigations are contained, and dust disturbance is minimized. Any existing holes or penetrations observed in the continuous series of walls shall be reported back to the MDT. A plan should be in place to deal with any existing holes or penetrations observed above the ceiling.	
	Minor plumbing work that disrupts the water supply to a single fixture in a localized area (i.e., one room) for a short duration (e.g., less than 1 h).	
Туре В	Small-scale, short-duration (e.g., less than 2 hours) activities that create minimal dust. These include, but are not limited to, a) activities that require access to and use of chase spaces	
	b) cutting a small opening in a contained space where dust migration can be controlled, e.g., cutting of walls or ceilings to provide an access point for installing or repairing minor electrical work, ventilation components, telephone wires, or computer cables; and c) sanding or repair of a small area of a wall	
	Plumbing work that disrupts the water supply to a single fixture in a localized area (i.e., one room) for a short duration (e.g., less than 1 h).	
Type C	Activities that generate a moderate to high level of dust, cause a moderate service disruption, require demolition, require removal of a fixed facility component (e.g., a sink) or assembly (e.g., a countertop or cupboard) and can be completed in a single or continuous work shift(s).* These include, but are not limited to, a) activities that require sanding of a wall in preparation for painting or wall covering	
	b) removal of floor coverings, ceiling tiles, and casework c) new wall construction d) minor ductwork	
	e) electrical work above ceilings; and f) major cabling activities Plumbing work that disrupts the water supply of more than three fixtures for a short duration (e.g.,	
	less than 1 h).	
Type D	Activities that generate high levels of dust, activities that necessitate significant service disruptions, and heavy demolition and construction activities requiring consecutive work shifts to complete. These include, but are not limited to, a) soil excavation b) new construction that requires consecutive work shifts to complete; or c) activities that involve heavy demolition or removal of a complete cabling system	
	Plumbing work that disrupts the water supply of more than three fixtures for 1 hour or more	
Table was adopted from CSA Z317.13:22. *The intent of specifying contiguous shifts at Type C construction activity is to highlight the importance of ong monitoring and constructor presence in the work area. Multiple shifts that occur one right after the other with hand-off of activities from the constructor lead of the first shift to the constructor's lead of the subsequent shift ensure continuity of preventive measures. Time gaps between work periods (e.g., d shifts occurring on subsequent days with evening and night hours unattended) have the potential to increase risks and are not considered to fall under type construction activity.		

Note: Type C and Type D Construction Activities both refer to demolition activities. Demolition activities can generate varying levels of dust or interruption to plumbing systems, which can create stagnation of water flow within piping. Both situations exacerbate the production and aerosolization of fungal or bacterial spores. Project MDT should determine intensity of demolition that they deem to fit within each construction activity type.



Table 4 - Preventive measure (PM) level and description

 hoist ways, duct shafts, pipe shafts and active laundry chutes and how it may impact operational requirements. 4. MDT to consider an elevator to be dedicated to construction use only. 5. MDT to consider the impact of isolating the area using polyethylene sheeting from floor to ceiling, sealin all edges. 6. MDT to review requirements with constructor regarding water mist work surfaces to control dust while cutting. 7. MDT to be aware of the requirements to seal unused doors with duct tape. 8. MDT to be aware of the requirements to block off and seal air vents. 9. MDT to be aware of the requirements to wipe work surfaces with disinfectant prior to hand over to the constructor. 10. MDT to be aware of the requirements to contain new materials in tightly covered containers during transport through the occupied areas. 11. MDT to be aware of the requirements to contain construction waste before transport in tightly covered containers. 	PM level	Description
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4. MDT to be aware of the requirements to maintain of 7.5 Pa negative air pressure within the worksite		9,
utilizing HEPA-equipped construction air handling units (CAHU). Exhaust ideally to the outside of the		,
		building. The pressure differential monitor shall be no closer than 5 m to the entrance to the construction
area. The differential pressure monitoring device should be connected to a permanently mounted data		
recorder.		



- 5. MDT to be aware of the requirements to not remove barriers from the work area until complete project is thoroughly cleaned by housekeeping.
- 6. MDT to be aware of the requirements to vacuum the area (with a HEPA-filtered vacuum) and wet mop area daily with a hospital-grade low-level disinfectant.
- 7. MDT to be aware of the requirements to remove barrier materials carefully to minimize spreading of dirt and debris associated with construction.
- 8. MDT to be aware of the requirements to contain construction waste before transport in tightly covered containers
- 9. MDT to ensure the constructor plans routing for transporting receptacles or carts.
- 10. MDT should plan for removal/isolation of HVAC system in areas where work is being performed.
- 11. MDT shall identify risks or impacts associated with disinfection processes that may be used to disinfect the water lines before occupancy, draft the procedure and, if applicable, determine the flow path to be used to disinfect water lines, in accordance with CSA Z317.1.

PM IV PM I, II, and III measures shall be followed

- 1. MDT to be aware of the requirements to construct an anteroom at access points to the construction area if access is from within the HCF.
- 2. MDT to be aware of the requirements for at least 2.5 Pa of negative pressure between the anteroom and the occupied area (no need for monitoring device or CAHU in anteroom).
- 3. MDT to be aware of the requirements to place walk off mat outside the anteroom in patient care areas and inside the anteroom.
- 4. MDT to plan for construction workers:
 - a. leaving the construction area through the anterooms so they can be vacuumed using a HEPA vacuum cleaner before leaving work site; or
 - b. wearing protective clothing that is to be removed each time they leave the construction area and before going into patient care areas.
- 5. MDT to be aware of the requirements for repairing holes in walls within 2 hours or more quickly if negative pressure has been compromised.
- 6. MDT to ensure that ventilation systems are working properly in adjacent areas.

Table was adopted from CSA Z317.13:22.

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References

- 1. Alberta Health Services. October 2021 (Updated May 2022). Infection control risk assessment (ICRA) and preventive measures toolkit for construction, renovation and maintenance
- 2. CSA Group. Z317.13:22. Infection control during construction, renovation, and maintenance of health care facilities
- 3. Fraser Health Authority. January 23 2023. Infection control risk assessment (ICRA) form
- 4. **Fraser Health Authority**. May 10 2023. Standard Operating Procedure. Process: Infection prevention and control during construction, renovation, and maintenance of health care facilities

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