Infection Control Risk Assessment Matrix of Precautions for Construction & Renovation

Step One:

Using the following table, *identify* the <u>Type</u> of Construction Project Activity (Type A-D)

	Inspection and Non-Invasive Activities.					
	Includes, but is not limited to:					
TYPE A	 removal of ceiling tiles for visual inspection only, e.g., limited to 1 tile per 50 square feet 					
IIIEA	painting (but not sanding)					
	 wallcovering, electrical trim work, minor plumbing, and activities which do not generate dust or require cutting of walls or access to ceilings other than for visual inspection. 					
	Small scale, short duration activities which create minimal dust					
	Includes, but is not limited to:					
TYPE B	 installation of telephone and computer cabling 					
	access to chase spaces					
	 cutting of walls or ceiling where dust migration can be controlled. 					
	Work that generates a moderate to high level of dust or requires demolition or					
	removal of any fixed building components or assemblies					
	Includes, but is not limited to:					
	 sanding of walls for painting or wall covering 					
TYPE C	 removal of floorcoverings, ceiling tiles and casework 					
	new wall construction					
	 minor duct work or electrical work above ceilings 					
	major cabling activities					
	 any activity which cannot be completed within a single workshift. 					
	Major demolition and construction projects					
	Includes, but is not limited to:					
TYPE D	 activities which require consecutive work shifts 					
	 requires heavy demolition or removal of a complete cabling system 					
	• new construction.					

SICP 1

Step Two:

Using the following table, *identify* the <u>Patient Risk</u> Groups that will be affected. If more than one risk group will be affected, select the higher risk group:

Low Risk	Medium Risk	High Risk	Highest Risk
• Office areas	 Medium Risk Outpatient Clinics (Refer to IC-828B) Physical Therapy Radiology/Imaging Laboratory Blood Donor Center 	 High Risk Outpatient Clinics (Refer to IC-828B) Dialysis Emergency Room Medical/Surgical Units Pharmacy Post Anesthesia Care Unit Duque 6 North 	 Highest Risk Outpatient Clinics (Refer to IC-828B) BMT 4 East/4 West Cardiac Cath Lab Sterile Processing Dept. Intensive Care Units ASC Sedation Unit Radiation Oncology Operating Rooms

Step 2

Step Three: Match the

Patient Risk Group (*Low, Medium, High, Highest*) with the planned ... Construction Project Type (*A, B, C, D*) on the following matrix, to find the ... Class of Precautions (*I, II, III or IV*) or level of infection control activities required. Class I-IV or Color-Coded Precautions are delineated on the following page.

IC Matrix - Class of Precautions: Construction Project by Patient Risk

Construction Project Type

Patient Risk Group	TYPE A	TYPE B	TYPE C	TYPE D
LOW Risk Group	I	Ш	П	III/IV
MEDIUM Risk Group	I	Ш	III	ΙΛ
HIGH Risk Group	I	Ш	III/IV	ĪΛ
HIGHEST Risk Group	П	III/IV	III/IV	ĪΛ

Note: Infection Control approval will be required when the Construction Activity and Risk Level indicate that Class III or Class IV control procedures are necessary.

Step 3 _____

Description of Required Infection Control Precautions by Class

Dui	ring	Construction Project	Upon Completion of Project	
CLASS 1	1. 2.	Execute work by methods to minimize raising dust from construction operations. Immediately replace a ceiling tile displaced for visual inspection	Clean work area upon completion of task.	
CLASS II	1. 2. 3. 4. 5. 6.	Provide active means to prevent airborne dust from dispersing into atmosphere. Water mist work surfaces to control dust while cutting. Seal unused doors with duct tape. Block off and seal air vents. Place dust mat at entrance and exit of work area Isolate HVAC system in areas where work is being performed.	 Wipe work surfaces with cleaner/disinfectar Contain construction waste before transport tightly covered containers. Clean and/or vacuum with HEPA filtered vabefore leaving work area. Upon completion, restore HVAC system whwork was performed. 	in
CLASS III	1. 2. 3. 4. 5.	Remove or Isolate HVAC system in area where work is being done to prevent contamination of duct system. Complete all critical barriers i.e. sheetrock, plywood, plastic, to seal area from non work area or implement control cube method (cart with plastic covering and sealed connection to work site with HEPA vacuum for vacuuming prior to exit) before construction begins. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units or by other means. Contain construction waste before transport in tightly covered containers. Cover transport receptacles or carts. Tape covering unless solid lid.	Do not remove barriers from work area until completed project is thoroughly cleaned. Remove barrier materials carefully to minim spreading of dirt and debris associated with construction. Vacuum work area with HEPA filtered vacu 4. Clean/Dust area. Upon completion, restore HVAC system wh was performed.	ums.
CLASS IV	1. 2. 3. 4. 5.	Isolate HVAC system in area where work is being done to prevent contamination of duct system. Complete all critical barriers i.e. sheetrock, plywood, plastic, to seal area from non work area or implement control cube method (cart with plastic covering and sealed connection to work site with HEPA vacuum for vacuuming prior to exit) before construction begins. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units or by other means. Seal holes, pipes, conduits, and punctures. Construct anteroom and require all personnel to pass through this room so they can be vacuumed using a HEPA vacuum cleaner before leaving work site or they can wear cloth or paper coveralls that are removed each time they leave work site. All personnel entering work site are required to wear shoe covers. Shoe covers must be changed each time the worker exits the work area.	 Do not remove barriers from work area until completed project is thoroughly cleaned. Remove barrier material carefully to minimi spreading of dirt and debris associated with construction. Contain construction waste before transport covered containers. Cover transport receptacles or carts. Tape of unless solid lid. Vacuum work area with HEPA filtered vacuumless completion, restore HVAC system where was performed. 	ze in tightly overing ums.

^{*} For each CLASS - Infection Prevention approved hand wipes should be available at the site during the construction project.

Step 4. Identify the areas surrounding the project area, assessing potential impact

Unit Below	Unit Above	Lateral	Lateral Behind		Front	
Risk Group	Risk Group	Risk Group	Risk Group	Risk Group	Risk Group	

Step 5. Identify specific site of activity e.g., patient rooms, medication room, etc.

Step 6. Identify issues related to: ventilation, plumbing, electrical in terms of the occurrence of probable outages.

Step 7. Identify containment measures, using prior assessment. What types of barriers? (E.g., solids wall barriers); Will HEPA filtration be required?

(Note: Renovation/construction area shall be isolated from the occupied areas during construction and shall be negative with respect to surrounding areas)

- Step 8. Consider potential risk of water damage. Is there a risk due to compromising structural integrity? (e.g., wall, ceiling, roof)
- Step 9. Work hours: Can or will the work be done during non-patient care hours?
- Step 10. Plan to discuss the following containment issues with the project team. E.g., traffic flow, housekeeping, debris removal (how and when),

New Construction:

- Step 1. Do plans allow for adequate number of isolation/negative airflow rooms?
- Step 2. Do the plans allow for the required number & type of handwashing sinks?
- Step 3. Does the infection prevention & control staff agree with the minimum number of sinks for this project
- Step 4. Does the infection prevention & control staff agree with the plans relative to clean and soiled utility rooms?

Identify and communicate the responsibility for project monitoring that includes infection prevention & control concerns and risks. The ICRA may be modified throughout the project.

Revisions must be communicated to the Project Manager.

Infection Prevention and Control Construction Permit								
Project Name:								
Location of Construction:				Project Start Date:				
Project Coordinator:				Peri	mit Expiration Date:			
			rforming Work			1		
	rviso				Tele	ephone:		
YES	NO		NSTRUCTION ACTIVITY	YES	NO	INFECTION CONTROL RISK GROUP		
			PE A: Inspection, non-invasive activity		1	GROUP 1: Low Risk		
			PE B: Small scale, short duration,			GROUP 2: Medium Risk		
		TYP	moderate to high levels PE C: Activity generates moderate to high levels of	<u> </u>		GROUP 3: Medium/High Risk		
			dust, requires greater 1 work shift for completion		 			
		TYP	PE D: Major duration and construction activities Requiring consecutive work shifts			GROUP 4: Highest Risk		
CLAS	S I	1.	Execute work by methods to minimize raising dust from	3.	Clean wo	ork area upon completion of task.		
Da	ite	2.	construction operations. Immediately replace any ceiling tile displaced for visual					
Init	tial	2.	inspection.					
CLAS	S II	1.	Provides active means to prevent air-borne dust from	6.		construction waste before transport in tightly		
	~	2.	dispersing into atmosphere Water mist work surfaces to control dust while cutting.	7.	covered containers. Clean and/or vacuum with HEPA filtered vacuum			
Da	to	3.	Seal unused doors with duct tape.		before le	eaving work area.		
Init		4. 5.	Block off and seal air vents. Wipe surfaces with cleaner/disinfectant.			cky mat at entrance and exit of work area.		
		٥.	wipe surfaces with cleaner/distinectant.	9.	Isolate HVAC system in areas where work is being performed; restore when work completed.			
		1.	Obtain infection control permit before construction begins.			Vacuum worksite with HEPA filtered vacuums.		
CLAS	S III	Remove or Isolate HVAC system in area where work is being done to prevent contamination of the duct system. Complete all critical barriers or implement control cube				hly clean floors to remove dust.		
					Remove barrier materials carefully to minimize spreading of dirt and debris associated with			
		3.	(cart with plastic covering and sealed connection to work	construction. Clean/Dust area.				
Date			site with HEPA vacuum for vacuuming prior to exit) method before construction begins.	9.		construction waste before transport in tightly		
		Maintain negative air pressure within work site utilizing			covered containers. 10. Cover transport receptacles or carts. Tape coverings			
Init	tial		HEPA equipped air filtration units or by other means.			unless solid lid.		
		Do not remove barriers from work area until completed project is thoroughly cleaned.			Upon completion, restore HVAC system where work			
		1.			was performed. Do not remove barriers from work area until			
CLAS	S IV	2.	Isolate HVAC system in area where work is being done to	8.	complete	ed project is thoroughly cleaned.		
		prevent contamination of duct system. 3. Complete all critical barriers or implement control cube method before construction begins.		9.	Vacuum	work area with HEPA filtered vacuums.		
				10	TI	11 1 0 4		
Date		4.	Maintain negative air pressure within work site utilizing		Thoroughly clean floors to remove dust. Remove barrier materials carefully to minimize			
Initial		_	HEPA equipped air filtration units or by other means. 5. Seal holes, pipes, conduits, and punctures appropriately.		spreading of dirt and debris associated with			
		6.	Seal holes, pipes, conduits, and punctures appropriately. Construct anteroom and require all personnel to pass through	12.		tion. Clean/Dust area. construction waste before transport in tightly		
			this room so they can be vacuumed using a HEPA vacuum	12.		containers.		
			cleaner before leaving work site or they can wear bunny suits that are removed each time they leave the work site.			ansport receptacles or carts. Tape covering.		
		7.	All personnel entering work site are required to wear shoe			wn wheels of carts. mpletion, restore HVAC system where work		
			covers. Shoe covers must be changed each time the worker	17.	was perf	•		
exits the work area.								
Additional Requirements: *Infection Prevention approved hand wipes should be available at the site during the construction project.								
				Permi	t Authori	ized by Infection Preventionist (Print Name):		
Permit Request By:				Signature:				
Date:				Date:				
Date:					Date:			