Infection Control Risk Assessment Matrix of Precautions for Construction & Renovation

Step One:

Using the following table, identify the Type of Construction Project Activity (Type A-D)

	Inspection and Non-Invasive Activities.				
TYPE A	1 -				
	Includes, but is not limited to:				
	removal of ceiling tiles for visual inspection limited to 1 tile per 50 square feet				
	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				
TYPE D	Includes, but is not limited to:				
	activities which require consecutive work shifts				
	 requires heavy demolition or removal of a complete cabling system 				
	new construction.				

Step	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 	 Cardiology Echocardiography Endoscopy Nuclear Medicine Physical Therapy Radiology/MRI Respiratory Therapy 	 CCU Emergency Room Labor & Delivery Laboratories (specimen) Newborn Nursery Outpatient Surgery Pediatrics Pharmacy Post Anesthesia Care Unit Surgical Units 	 Any area caring for immunocompromised patients Burn Unit Cardiac Cath Lab Central Sterile Supply Intensive Care Units Medical Unit Negative pressure isolation rooms Oncology Operating rooms including C-section rooms

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 Precautions are delineated on the following page.

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

Construction Project Type

			0 01			
Patient Risk Group	TYPE A	TYPE B	TYPE C	TYPE D		
LOW Risk Group	I	П	П	III/IV		
MEDIUM Risk Group	I	П	III	IV		
HIGH Risk Group	I	П	III/IV	IV		
HIGHEST Risk Group	П	III/IV	III/IV	IV		

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_____

During Construction Project Upon Completion of Project

During Construction Project	Opon Completion of Project
 Execute work by methods to minimize raise dust from construction operations. Immediately replace a ceiling tile displace visual inspection 	
 Provide active means to prevent airborne from dispersing into atmosphere. Water mist work surfaces to control dust vecuting. Seal unused doors with duct tape. Block off and seal air vents. Place dust mat at entrance and exit of wor 6. Remove or isolate HVAC system in areas work is being performed. 	2. Contain construction waste before transport in tightly covered containers. 3. Wet mop and/or vacuum with HEPA filtered vacuum before leaving work area. 4. Remove isolation of HVAC system in areas where work is being performed.
1. Remove or Isolate HVAC system in area work is being done to prevent contaminate duct system. 2. Complete all critical barriers i.e. sheetrocl plywood, plastic, to seal area from non we or implement control cube method (cart we plastic covering and sealed connection to site with HEPA vacuum for vacuuming prexit) before construction begins. 3. Maintain negative air pressure within wor utilizing HEPA equipped air filtration uni 4. Contain construction waste before transportightly covered containers. 5. Cover transport receptacles or carts. Tape covering unless solid lid.	completed project is inspected by the owner's Safety Department and Infection Control Department and thoroughly cleaned by the owner's Environmental Services Department. 2. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. 3. Vacuum work area with HEPA filtered vacuums. 4. Wet mop area with disinfectant. 5. Remove isolation of HVAC system in areas where work is being performed.
 Isolate HVAC system in area where work being done to prevent contamination of draystem. Complete all critical barriers i.e. sheetrocle plywood, plastic, to seal area from non woor implement control cube method (cart was plastic covering and sealed connection to site with HEPA vacuum for vacuuming prevention begins. Maintain negative air pressure within wor utilizing HEPA equipped air filtration unitizing HEPA equipped air filtration unitizing helps, conduits, and punctures appropriately. Construct anteroom and require all person pass through this room so they can be vacuusing a HEPA vacuum cleaner before least work site or they can wear cloth or paper coveralls that are removed each time they the work site. All personnel entering work site are requive wear shoe covers. Shoe covers must be cleach time the worker exits the work area. Do not remove barriers from work area un completed project is inspected by the own Safety Department and Infection Control Department and thoroughly cleaned by the 	spreading of dirt and debris associated with construction. 2. Contain construction waste before transport in tightly covered containers. 3. Cover transport receptacles or carts. Tape covering unless solid lid 4. Vacuum work area with HEPA filtered vacuums. 5. Wet mop area with disinfectant. 6. Remove isolation of HVAC system in areas where work is being performed. and to unmed wing leave red to hanged ntil her's

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

Unit Below	Unit Above	Lateral	Lateral	Behind	Front
Risk Group					

Step 5. Identify specific site of activity eg, 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? (Eg, 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? (eg, wall, ceiling, roof)
- Step 9. Work hours: Can or will the work be done during non-patient care hours?
- Step 10. Do plans allow for adequate number of isolation/negative airflow rooms?
- Step 11. Do the plans allow for the required number & type of handwashing sinks?
- Step 12. Does the infection control staff agree with the minimum number of sinks for this project? (Verify against AIA Guidelines for types and area)
- Step 13. Does the infection control staff agree with the plans relative to clean and soiled utility rooms?
- Step 14. Plan to discuss the following containment issues with the project team. Eg, traffic flow, housekeeping, debris removal (how and when),

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

Revisions must be communicated to the Project Manager.

Infection Control Construction Permit					
				Permit No:	
Location of Construction:			Project Start Date:		
Project Coordinator:			Esti	mated Duration:	
Contractor Performing Work			Perr	nit Expiration Date:	
Superviso	r:		Tele	phone:	
YES NO	CONSTRUCTION ACTIVITY	YES	NO	INFECTION CONTROL RISK GROUP	
	TYPE A: Inspection, non-invasive activity			GROUP 1: Low Risk	
	TYPE B: Small scale, short duration, moderate to high levels			GROUP 2: Medium Risk	
	TYPE C: Activity generates moderate to high levels of dust, requires greater 1 work shift for completion			GROUP 3: Medium/High Risk	
	TYPE D: Major duration and construction activities Requiring consecutive work shifts			GROUP 4: Highest Risk	
CLASS I 1. Execute work by methods to minimize raising dust from construction operations. 2. Immediately replace any ceiling tile displaced for visual inspection.		emolition for Remodeling			
CLASS II	Provides active means to prevent air-borne 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. Wipe surfaces with disinfectant.	7. 1 8. 1 9. 1	covered o Wet mop before lea Place dus Remove	construction waste before transport in tightly containers. and/or vacuum with HEPA filtered vacuum aving work area. st mat at entrance and exit of work area. or isolate HVAC system in areas where work performed.	
CLASS III	Obtain infection control permit before construction begins. 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 method before construction begins.	6. 7. 8. 1	Vacuum work with HEPA filtered vacuums. Wet mop with disinfectant Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. Contain construction waste before transport in		
Date Initial	 Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. Do not remove barriers from work area until complete project is thoroughly cleaned by Env. Services Dept. 	10. 0 11. 1	tightly covered containers. Cover transport receptacles or carts. Tape covering. Remove or isolate HVAC system in areas where work is being performed/		
CLASS IV	Obtain infection control permit before construction begins. Isolate HVAC system in area where work is being done to prevent contamination of duct system. Complete all critical barriers or implement control cube	7. s 8. l	All personnel entering work site are required to wear shoe covers Do not remove barriers from work area until complete project is thoroughly cleaned by the Environmental		
Date	method before construction begins. 4. Maintain negative air pressure within work site utilizing		Service I Vacuum	work area with HEPA filtered vacuums.	
Initial	HEPA equipped air filtration units. 5. Seal holes, pipes, conduits, and punctures appropriately. 6. 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 the work site.	10. 11. 11. 12. 12. 13. 14. 14. 1	Wet mop Remove spreading construct Contain of covered of Cover tra Remove	with disinfectant. barrier materials carefully to minimize g of dirt and debris associated with	
Additional Requirements:					
- Auditoria Regultorio.					
The T 1/1 1				Exceptions/Additions to this permit are noted by attached memoranda	
Permit Request By:			Permit Authorized By:		
Date:		Date:			