Pressurization & Airborne Contaminants – Healthcare Construction & Renovation

Renovation in or around occupied healthcare facilities can pose significant risks to patients, and significant liabilities to healthcare owners and contractors. Specifically, airborne contaminants generated by construction activities can increase patient healthcare risks and higher rates of morbidity have been observed in healthcare settings undergoing renovation. This survey was developed to investigate the activities, conditions, requirements, and training for construction activities in or near occupied healthcare facilities. Your participation in this 10-12 minute survey will help ascertain current practice and enhance understanding of the steps industry professionals are taking to minimize the risk of airborne transmission of pathogens during construction. Please know that all responses will be kept confidential. **Thank you for your participation.**

General Information:

1)	Type of Organization	1: (Please check t	he <u>one</u> catego	ry that most closely	represents your fir	m/org	anizati	on)				
	Contractor or CM	Healthcare Owner	Designer/ Engineer	CDC	Other							
2)	Location of your corp	porate offices:		(State)								
3)	Which of the followi	ng geographic	al designati	ons best describ	es your organiz	nization's <u>area of operation</u> ?						
	Global	□ Natio	onal	□ Regional	□ Statewide	:		ΠI	Local			
4)	Approximate annual	total construct	tion volume	:	million			Dor	ı't Kno	w		
5)	5) Approximate annual <i>healthcare</i> construction volume: million Don't Know											
6)	Approximate length of time your firm has been in healthcare construction? yrs											
7)	Approximate number of years of healthcare experience you personally have? yrs											
8)	What is your current position (title)?											
Pro	essurization of the Co	onstruction W	ork Area f	for Healthcare	Additions/Ren	ovati	ons					
9)	Typically, how impor	tant are the fo	llowing var	riables in establi	shing pressuriza	ation	strate	egy fo	or a pi	roject	?	
	(1=none, 2= minimal, 3= somewhat, 4= important, 5= very important, 6 = do not know) None Some Significant DNK											
	Project Size					1	2	3	4	5		6
	Sensitivity (risk/con	ntrol class)				1	2	3	4	5		6
	• Contractor Doquira	monte/Standard	9			1	2	2	4	Б		6

Contractor Requirements/Standards	1	2	3	4	5	6
Owner Requirements/Standards	1	2	3	4	5	6
• Cost	1	2	3	4	5	6
CDC Requirements/Standards	1	2	3	4	5	6
Other Regulatory Requirement/Standards*	1	2	3	4	5	6

* Please identify any other 'regulatory requirements/standards' you think are of importance: _____

10) What level of pressurization of the construction workspace do you normally utilize?

Pressurization & Airborne Contaminants – Healthcare Construction & Renovation

11)	Who typically has the primary role in establishing pressurization levels? Contractor Healthcare Designer/ CDC Owner Engineer Standards Other							
12)	a) How often do pressurization levels differ from project to project?							
	NeverRarelySometimesOften		C	Ver	y Freque	ently		
	b) If pressurization levels vary – what is the range?							
13)	What impact, if any, do (or you think should) the following variables have on for the construction area? (select one)	negat	ive p	ressu	•		ents	
	(1=none, 2= minimal, 3= some, 4= substantial, 5= very significant, 6 = do not know (DNK)	None		Some Very Significa			DNK	
	• Risk/Sensitivity of the project (Class???)	1	2	3	4	5	6	
	Healthcare owner requirements	1	2	3	4	5	6	
	Budget constraints	1	2	3	4	5	6	
	• The type of construction for the workspace barrier	1	2	3	4	5	6	
	Project size	1	2	3	4	5	6	
	• Leakiness of the space	1	2	3	4	5	6	
	How often are the CDC guidelines for negative pressure (-0.01 in. w.g.) exceeded a second sec		-	□ F	requentl	У		
	pressure)?							
16)	How often do your project requirements for negative pressure match the CDC	guid	eline	s (-0.0)1 in. v	v.g.)?		
	□ Never □ Rarely □ Sometimes □ Often	C	☐ Frequently					
	 7) Have you, or your firm, ever investigated the impact of using different pressurization levels? Yes 8) If you answered Yes to question 17, what were your findings? 							
19)	If you answered No to question 18, what impact did the following have on y using different pressurization levels?	our d	lecisi	on to	<u>not</u> ii	nvestig	gate	
	(1=none, 2= minimal, 3= some, 4= meaningful, 5= significant, 6 = do not know (DNK)	None		Some	Sig	nificant	DNK	
	Cost to investigate	1	2	3	4	5	6	
	• Liability for contamination during the investigation period	1	2	3	4	5	6	
	• Inability to conduct a rigorous and reliable test	1	2	3	4	5	6	
	• Owners not interested in establishing requirements different from current industry standards	1	2	3	4	5	6	
	Contractors not interested in establishing requirements different from current industry standards	1	2	3	4	5	6	

Pressurization & Airborne Contaminants – Healthcare Construction & Renovation

Monitoring of Pressurization

20)	How often do the following parties independently mo	nitor pressu	rization on t	the constru	ction site?				
	Item	Never	Seldom	Sometimes	Often	Always			
	Owner Personnel	1	2	3	4	5			
	• General Contractor (CM)	1	2	3	4	5			
	Specialty Contractors (Subcontractors)	1	2	3	4	5			
	3 rd Party Testing Service	1	2	3	4	5			
_									
21)	How often is the monitoring system connected to the h	-	-	tem?					
	□ Never □ Rarely □ Sor	netimes	□ Often		🗆 Alway	'S			
22) How often does the monitoring system utilize a backup exhaust system?									
	□ Never □ Rarely □ Sor	netimes	□ Often □ Always						
23)	How often is monitoring 24 hours/day, 7 days a week	:?							
	\Box Never \Box Rarely \Box Sor		□ Often		🗆 Alway	'S			
24)	How frequently are the following parties advised of a	ny significa	nt pressure (dron?					
2.)	The mequandy are the following parales addised of \underline{u}	Never	Seldom	Sometimes	Often	Always			
Γ	General Contractor (CM)	1	2	3	4	5			
	Owner Personnel	1	2	3	4	5			
	Specialty Contractor	1	2	3	4	5			
L 2 2 2	What is the expected response time to a pressure drop	0	1			II			
	Training for Containment of Airborne Contaminants during Construction 26) How often do healthcare owners require the contractor's personnel to obtain training?								
	□ Never □ Rarely □ Sor	netimes	□ Often		🗆 Alway	'S			
27)	Who is required to obtain training?	ntractor	subcontractor	auhaa	atroator	No one is			
		orkers	supervisors	worke	rs	required			
,	28) How often is training typically required? $\Box \qquad start of each \qquad \Box \qquad every 12 \qquad every 6 \\ months \qquad months \qquad every 6 \\ month$								
	Item								
						Always			
Γ	Owner Personnel	1	2	3	4	Always			
-	Owner Personnel General Contractor (CM)		2 2	3					
-		1			4	5			
-	General Contractor (CM)	1	2	3	4	5 5			
30)	General Contractor (CM)Architect/Engineer	1 1 1 1 risk classific	2 2 2	3 3 3	4 4 4 4	5 5 5 5			

	Pressurization & A	irborne Contan	ninants – Health	care Constructi	ion & Renovation				
Pre	essurization System Desi	gn							
32)	How often does the pres	surization system u	se direct exhaust fro	m the construction	zone/space?				
33)	3) How often does the pressurization system exhaust using the existing HVAC/duct system?								
,	□ Never	□ Rarely	□ Sometimes	□ Often	Always				
34)	How often are anteroom	s incorporated into	the pressurization sy	/stem? □ Often	□ Always				
35)	To what extent, if any, d	oes risk level (class	s) influence the use of	of anterooms?					
	□ no impact	□ little impact	some impact	□ substantial	very significant				
50)	 Would you be willing to be interviewed to provide additional insight on these topics? Yes No If Yes, please provide your contact information: Name:Company: Address: 								
	Phone:		_e-mail:						
37)	If you would like a sum Your e-mail address	•	• •	× •	il address:				
38)	Any additional comment	ts?							

Thank you for your participation!