REC	REQUIRED ELEMENTS FOR RENAL DIALYSIS CENTERS									
Guide	Guidelines for Design and Construction of Hospitals and Outpatient Facilities (FGI 2014)									
	ANSI/ASHRAE/ASHE Standard 170-2013, Ventilation of Health Care Facilities (ASHRAE)									
	Code Reference Category									
	Phase									
	Ħ				ν .					
Ę	٦	Codo				<u>e</u>				
na	igi D	Code Component/Requirements				dc	Comments			
Je	Ses Ses	Section				Complies				
Schematic	کی کے					0				
٠,	Design Development									
2 10 2	D:	T t A								
3.10-3	Diagnosti	c and Treatment A 3.10-3.1 Examinat								
•	•	3.10-3.1 Examina	General Purpose Examination/Observa	tion Poom(s)	Required					
		3.10-3.1.1	Area	tion Room(s)	100 S.F. min					
		3.1-3.2.2.2(2)	Clearances	3 sides of table	2'-8"					
<b>-</b>	•	3.10-3.1.2.1	Handwashing Station	3 sides of table	Required					
	•	3.10-3.1.2.2	Documentation Area (Written or Ele	octronic)	Required					
_	_	3.1-3.2,	Electrical Receptacles	Total number	8 Single	-				
	•	Table 3.1-1		# @ head of exam table	4 min					
	•	ASHRAE 7.1	Pressure Relationship to Adjacent A		N/R					
	•	ASHRAE 7.1	Min. Outdoor Air Changes /Hour	1003	2					
	•	ASHRAE 7.1	Min. Total Air Changes /Hour		6					
	•	ASHRAE 7.1	All Room Air Exhausted Directly to C	Outdoor	N/R					
	•	ASHRAE 7.1	Air Recirculated by Means of Room		N/R					
	•	ASHRAE 7.1	Relative Humidity (%)		60 max					
	•	ASHRAE 7.1	Design Temperature (°F)		70-75					
		3.10-3.2 Hemodia	llysis Treatment Area			•				
		3.10-3.2.1	Treatment Area		Required*					
_	•	3.10-3.2.1	*permitted to be an open area		·					
•	•	3.10-3.2.2.1	Area	@ Bays w chairs	80 S.F. min					
•	•			@ Bays w beds	90 S.F. min					
•	•	3.10-3.2.2.2		Between beds or dialysis chairs	4'-0" min					
•	•	3.10-8.4.1.2	Treated water distribution outlets *at each hemodialysis treatment ba	av	Required*					
		0.40.00.5	Hand-wash station							
•	•	3.10-3.2.5, 3.1-3.6.5.3	.10-3.2.5, *1 per (1) patient care areas including (1) at entry to treatment		Required*					
		3.1-3.0.3.3	area		•					
		3.10-3.3 Home Training Room								
		3.10-3.3.1	Home Training Room		Required*					
			*a private treatment room		· ·					
•	•	3.10-3.3.1	Area		120 S.F. min					
•	•	3.10-3.3.2.1	Counter		Required					
•	•	3.10-3.3.2.2	Hand-washing station		Required					
•	•	3.10-3.3.2.3	Separate drain for fluid disposal		Required					

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		3.10-3.4 Special Patient Care Rooms						
		Separation Area						
•	•	*a private treatment room or patient care station with 5'-0" high walls.  Under direct staff observation		Required*				
•	•	3.10-3.4.2.1	Area	120 S.F. min				
•	•	3.10-3.4.2.2	Hand-washing station	Required				
		3.10-3.6 Support	Areas for the Renal Dialysis Center					
•	•	3.10-3.3.1	Nurse Station	Required				
•	•	3.7-3.5.2.2, 3.7-3.6, 3.1- 3.6.6  Medication Preparation Room  *Select medication preparation room and/or Self-contained medication dispensing unit		Required *				
•	•	3.10-3.6.6.2	Location – away from any individual dialysis treatment chair or bed	6 feet				
•	•	3.1-3.6.6	Work counter	Required				
•	•	3.1-3.6.6	Hand-washing station	Required				
•	•	3.1-3.6.6	Lockable refrigerator	Required				
•	•	3.1-3.6.6	Locked storage for controlled drugs	Required				
	•	Table 7.1	Pressure Relationship to Adjacent Areas	N/R				
	•	Table 7.1	Min. Outdoor Air Changes / Hour	2				
	•	Table 7.1	Min. Total Air Changes / Hour	54				
	•	Table 7.1	All Room Air Exhausted Directly to Outdoor	N/R				
	•	Table 7.1	Air Recirculated by Means of Room Units	N/R				
	•	Table 7.1	Relative Humidity (%)	60 max				
	•	Table 7.1	Design Temperature (°F)	70-75				
•	•	3.1-3.6.6	Self-contained medication dispensing unit *Select medication preparation room and/or Self-contained medication dispensing unit	Required *				
•	•	3.10-3.6.6.2	Location – away from any individual dialysis treatment chair or bed	6 feet				
•	•	3.1-3.6.6	Hand-washing station/sanitation *Located next to dispensing unit.	Required *				
•	•	3.1-3.6.6	Work Counter	Required				
•	•	3.10-3.6.9.1	Clean Workroom or Clean Supply *Select either or both	Required*				
•	•	3.10-3.6.9.1(1), 3.10-3.6.9.2	Work surface(s) *Not required at clean supply	Required*				
•	•	3.10-3.6.9.1(2), 3.10-3.6.9.2	Hand-washing station *Not required at clean supply	Required*				
•	•	3.10-3.6.9.1(3) Clean and sterile supply storage		Required				
	•			Positive				
	•	ASHRAE 7.1	Min. Outdoor Air Changes / Hour	2				
	•	ASHRAE 7.1	Min. Total Air Changes / Hour	4				
	•	ASHRAE 7.1	All Room Air Exhausted Directly to Outdoors	N/R				
	•	ASHRAE 7.1	Air Recirculated by Means of Room Units	N/R				
		ASHRAE 7.1	Relative Humidity (%)	N/R				
	•	ASHRAE 7.1 Design Temperature(°F)		N/R				

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			Soiled Workroom and/or Soiled Holding	1	
•	•	3.10-3.6.10	<b>.</b>	Required *	
-			*Clean and soiled rooms must be separate		+
_	_	3.10-3.6.10.2, 3.7-3.6.10.3	Flushing-rim clinical sink or equivalent	Dogwing d*	
•	•		*Not required in Soiled Holding but other liquid waste disposal shall be provided	Required*	
		3.10-3.6.10.1	Hand-washing station	Required	
-	•	3.10-3.0.10.1	Work Counter	Required	
•	•	3.10-3.6.10.1	*Not required in soiled holding	Required	
	•	3.10-3.6.10.1	Space for waste and soiled linen receptacles		
	•	ASHRAE 7.1	Pressure Relationship to Adjacent Areas	Negative	
	•	ASHRAE 7.1	Min. Outdoor Air Changes / Hour	2	
	•	ASHRAE 7.1	Min. Total Air Changes / Hour	10	
	•	ASHRAE 7.1	All Room Air Exhausted Directly to Outdoors	Yes	
	•	ASHRAE 7.1	Air Recirculated by Means of Room Units	No	
	•	ASHRAE 7.1	Relative Humidity (%)	N/R	†
	<u> </u>	ASHRAE 7.1	Design Temperature(°F)	N/R	
•	•	3.10-3.6.11	Equipment and Supply Storage	Required	
	-		Clean Linen Storage		
			*If clean blankets or other linens are provided.		
•	•	3.10-3.6.11.1	*Permitted to be in a clean workroom, a closet or an approved	Required*	
			distribution system.		
		3.10-3.6.11.3	Stretcher and Wheelchair Storage and Parking	Danisha d*	
•	•		*space for (1) wheelchair per (4) patient care areas	Required*	
•	•	3.10-3.6.11.2	Equipment supply facilities	Required	
	•	3.10-3.6.12,	Environmental Services Room	Required*	
•	•	A3.1-5.5.1.1	*Exclusive use by dialysis treatment areas	Required	
•	•	3.1-5.5.1.2	service or floor mounted sink	Required	
•	•	3.1-5.5.1.2	Storage for supplies and housekeeping equip	Required	
•	•	3.1-5.5.1.2	hand-washing station or hand sanitation dispenser	Required	
	•	ASHRAE 7.1	Pressure Relationship to Adjacent Areas	Negative	
	•	ASHRAE 7.1	Min. Outdoor Air Changes / Hour	N/R	
	•	ASHRAE 7.1	Min. Total Air Changes / Hour	10	
	•	ASHRAE 7.1	All Room Air Exhausted Directly to Outdoors	Yes	
	•	ASHRAE 7.1	Air Recirculated by Means of Room Units	No	
	•	ASHRAE 7.1	Relative Humidity (%)	N/R	
	•	ASHRAE 7.1	Design Temperature (°F)	N/R	
ļ.,		3.10-3.7 Support /		1	
•	•	3.10-3.7.1	Lockers	Required	
•	•	3.10-3.7.3	Refrigerator	Required	
•	•	3.10-3.7.2	Staff Toilet Room	Required	
<b> </b>	•	ASHRAE 7.1	Pressure Relationship to Adjacent Areas	Negative	_
	•	ASHRAE 7.1	Min. Outdoor Air Changes / Hour	N/R	
	ASHRAE 7.1 Min. Total Air Changes / Hour		10		
<b> </b>	•	ASHRAE 7.1 All Room Air Exhausted Directly to Outdoors		Yes	
<b>-</b>	•	ASHRAE 7.1 Air Recirculated by Means of Room Units		No	
<b>—</b>	ASHRAE 7.1 Relative Humidity (%)  ASHRAE 7.1 Relative Humidity (%)		N/R		
	ASHRAE 7.1 Design Temperature(°F)		N/R	-	
•	• 3.10-3.7.2 Hand wash station		Required		

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		3.10-3.8 Support Areas for Patients					
		3.10-3.8 Support 3.10-3.8.1	Toilet Room(s) for Patient Use	Doguirod			
•	•		· · ·	Required			
•	•	3.10-3.8.1	Hand wash station	Required			
	•	3.10-3.8.1.1	Emergency Call	Required			
•		ASHRAE 7.1	Pressure Relationship to Adjacent Areas	Negative			
•		ASHRAE 7.1	Min. Outdoor Air Changes / Hour	N/R			
•		ASHRAE 7.1	Min. Total Air Changes / Hour	10			
•		ASHRAE 7.1	All Room Air Exhausted Directly to Outdoors	Yes			
	•	ASHRAE 7.1	Air Recirculated by Means of Room Units	No			
	•	ASHRAE 7.1	Relative Humidity (%)	N/R			
	•	ASHRAE 7.1	Design Temperature (°F)	N/R			
•	•	3.10-3.8.2	Patient Storage	Required			
3.10-5	General	Support Facilities					
		3.10-5.1 Dialysis	Support Facilities				
			Dialyzer Reprocessing Room				
•	•	3.10-5.1.1, 3.10-8.2.1	*If dialyzers are processed for reuse on-site	Required*			
		3.10-8.2.1	One-way traffic, soiled → clean				
•	•	3.10-5.1.1.2	Refrigeration for temporary storage of dialyzers	Required			
•	•	3.10-5.1.1.2	Decontamination/cleaning areas	Required			
•	•	3.10-5.1.1.2	Sinks	Required			
	•	3.10-5.1.1.2	Processors	Required			
	•	3.10-5.1.1.2					
•	•	3.10-5.1.1.2	A packaging area	Required Required			
•	•	3.10-5.1.1.2	Dialyzer storage cabinets	Required			
		3.10-8.2.1,	i i				
	•	ASHRAE 7.1	Pressure Relationship to Adjacent Areas	Negative			
		3.10-8.2.1,		-			
	•	ASHRAE 7.1	Min. Outdoor Air Changes / Hour	2			
	•	3.10-8.2.1,		10			
		ASHRAE 7.1	Min. Total Air Changes / Hour				
		3.10-8.2.1,	All D. All E. L. I. Di. Vi. C. C. L.	.,			
	•	ASHRAE 7.1	All Room Air Exhausted Directly to Outdoors	Yes			
		3.10-8.2.1,	A' D '				
	•	ASHRAE 7.1	Air Recirculated by Means of Room Units	No			
		3.10-8.2.1,	D-1-4: 11::-1:4: (0/)	ND			
	•	ASHRAE 7.1	Relative Humidity (%)	NR			
	_	3.10-8.2.1,	D	NR			
	•	ASHRAE 7.1	Design Temperature (°F)	INK			
		3.10-5.1.2	Dialysate Preparation Area	Dogwire d*			
•	•		*If dialysate preparation is conducted on-site	Required*			
•	•	3.10-5.1.2.2	Hand-washing station	Required			
•	•	3.10-5.1.2.2	Storage space	Required			
•	•	3.10-5.1.2.2	Work counter	Required			
ĺ	•	3.10-5.1.2.2	Floor drain	Required			
		3.10-5.1.2.2,	To a de al constant de la constant d				
	•	3.10-8.4.1.2	Treated water distribution outlet	Required			
•	•	3.10-5.1.3	Equipment Repair Room	Required			
•	•	3.10-5.1.3.1	Hand-washing station	Required			

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	•	3.10-5.1.3.2, 3.10-8.4.1.2	Treated water distribution outlet		Required		
•	•	3.10-5.1.3.3	Work counter		Required		
•	•	3.10-5.1.3.4	Storage cabinet		Required		
•	•	3.10-5.1.4, 3.1-8.4.3.8	Eyewash Station and Emergency Shower		Required		
	•	3.1-8.4.3.8	Quick-drench emergency deluge		Required		
3.10-6	Public ar	nd Administrative A	reas				
0110 0	3.10-6.2 Public Areas						
•	•	3.1-6.2.2	Reception		Required		
	•	3.10-6.2.1	Waiting Room		Required*		
	•	A3.10-6.2.1	Number of seats per (2) patient treatment	nt chairs	1		
-	•	A3.10-6.2.1	Number of wheelchair spaces	III CIIalis	2		
	•	3.10-6.2.2	Public Toilet Room		Required		
<b>-</b>	•	ASHRAE 7.1	Pressure Relationship to Adjacent Areas		Negative		
	•	ASHRAE 7.1	Min. Outdoor Air Changes / Hour		N/R		
	•	ASHRAE 7.1	Min. Total Air Changes / Hour		10		
	•	ASHRAE 7.1	All Room Air Exhausted Directly to Outdo	nors	No		
	•	ASHRAE 7.1	Relative Humidity (%)	7013	N/R		
	•	ASHRAE 7.1	Design Temperature (°F)		N/R		
	•	3.10-6.2.4	Local Telephone Access		Required		
	•	3.10-6.2.3	Provisions for Drinking Water		Required		
•	•	3.1-6.2.6	Wheel Chair Storage		2 min.		
	_	3.10-6.3 Administr			2 111111.	J	
•	•	3.10-6.3.1	General or Individual Offices		Required		
	•	3.7-6.3.5	Medical Records		Required		
	Building		Wedical Records		Required		
3.10-6	bullaling .		2. V kil - ki				
		3.7-8.2, 3.1-8.2.1.2	2 Ventilation and space-conditioning requirem  T	lents	Nainting City		
ļ			Room	Filter Bank	Minimum Filter Efficiencies		
	•	ASHRAE 6.4	Administrative; bulk storage; soiled holding	Filter Bank No. 1 (MERV)	7		
	•	ASHRAE 6.4	spaces; food preparation spaces; and laundries	Filter Bank No. 2 (MERV)	NR		
	•	ASHRAE 6.4	All other outpatient spaces	Filter Bank No. 1 (MERV)	7		
	•	ASHRAE 6.4	All other outpatient spaces	Filter Bank No. 2 (MERV)	NR		
		3.10-8.4 Plumbing					
	•	3.10-8.4.1	Plumbing and Other Piping Systems		Required		
	•	3.10-8.4.1.2	Hemodialysis Water Distribution		Required		
	•	3.10-8.4.1.2(1)a	A separate treated water distribution system		Required		
	•	3.10-8.4.1.2(1)a	A drainage system independent from the tap water		Required		
	•	3.10-8.4.1.2(2)	Treated Water Distribution System		Required		
	•	3.10-8.4.1.2(2)a	shall be in accordance with ANSI/AAMI/ISO 26722: Water Treatment Equipment for Hemodialysis Applications and Related Therapies		Required		
	•	3.10-8.4.1.2(2)b	repair, and Dialysate preparation area		Required		
	•	3.10-8.4.1.2(2)c	shall meet the current requirements of ANSI/AAMI/ISO 13959: Guidelines for Water Quality		Required		

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	•	3.10-8.4.1.2(3)	Dialysis equipment or wat	er system components	Required	
	•		shall meet FDA 510 (k) approval and the requirements of Class 2 medical device(s).		Required	
	•	3.10-8.4.1.2(4)		System for The Hemodialysis Treatment	Required	
	•			ninimize odor and prevent backflow	Required	
	•	3.10-8.4.1.2(5)	Hemodialysis Distribution I		Required	
	•		All shall be readily acc	cessible for inspection and maintenance	Required	
•	•	3.10-8.4.2	Hemodialysis Water Treatr	ment Equipment Areas	Required	
	•	3.10-8.4.2.1	Water treatment purification	on equipment	Required	
	•	3.10-8.4.2.1	Clearance	Provide access to all components of the equipment	Required	
•	•	3.10-8.4.2.1	Dedicated and Secure ar	ea	Required	
	•	3.10-8.4.2.1(1)	Drain		Required	
	•	3.10-8.4.2.2	Hemodialysis Water Treatr	ment and Purification Equipment	Required	
	•	3.10-8.4.2.2	shall be of materials and construction in accordance with ANSI/AAMI/ISO 26722: Water Treatment Equipment for Hemodialysis Applications and Related Therapies.		Required	
Other						
		1.2-5.1.5 Design	Criteria for Performance of In	terior Wall and Floor/Ceiling Constructions		
	•	1.2-5.1.5.2	Minimum STC rating for de	emising walls See Table 1.2-6	Required	
		Table 1.2-6	Design Criteria for Minimu	m Sound Isolation Performance Between Enclo	osed Rooms	
	•			Corridor (with entrance)	35 STC	
	•			Public space	50 STC	
	•	Exam room	Adjacent to:	Exam Room (no electronic masking)	50 STC	
	•			Exam Room (with electronic masking)	40 STC	
	•			MRI Room	60 STC	
	•	Treatment	Adjacent to:	Room	50 STC	
	•	Room	,	Corridor	35 STC	
	•	Toilet Room	Adjacent to:	Public space	45 STC	

END

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