

Table (1): Comparison between hemodialysis patients (with or without pulmonary hypertension) regarding clinical data:

Parameter	Hemodialysis patients		P-value
	Without PH (N= 63)	With PH (N= 61)	
<u>Age (year)</u>			
• Mean± S.D.	38.9 ± 10.4	48 ± 10.8	<0.001
• Median (Range)	40 (19 – 62)	45 (30 – 77)	
<u>Sex</u>			0.753
• Males (%)	44 (69.8%)	41 (67.2%)	
• Females (%)	19 (30.2%)	20 (32.8%)	
<u>Body mass index</u>	28.8 ± 6.2	26.4 ± 4.9	> 0.05
<u>Duration of hemodialysis (year)</u>			< 0.001
• Mean± S.D.	4.4 ± 1.7	8.5 ± 2.3	
• Median (Range)	5 (1 – 11)	8 (1 – 16)	
<u>Access location</u>			< 0.001
• Brachial (%)	20 (31.7%)	43 (70.5%)	
• Radial (%)	43 (68.3%)	18 (29.5%)	

Table (2): Comparison between patients on hemodialysis (with or without pulmonary hypertension) regarding HB level, HCT:

Parameter	Hemodialysis patients		P-value
	Without PH (N= 63)	With PH (N= 61)	
<u>HB (g/dl)</u>			
• Mean± S.D.	10.4 ± 0.9	8.4 ± 1.2	< 0.001
• Median (Range)	10.5 (7.9 – 13.8)	8.5 (5.6 – 12)	
<u>HCT (%)</u>			< 0.002
• Mean± S.D.	30.8 ± 2.09	29.8 ± 3.9	
• Median(Range)	30 (26 – 41)	29 (20.1 – 47)	

Table (3): Comparison between patients on hemodialysis (with or without pulmonary hypertension) regarding PTH level, serum calcium, serum phosphorus:

Parameter	Hemodialysis patients		P-value
	Without PH (N= 63)	With PH (N= 61)	
<u>PTH level (pg/ml)</u>			< 0.001
• Mean± S.D.	325.1 ± 362.9	895.1 ± 527.4	
• Median (Range)	210 (65 – 1675)	962 (75 – 1900)	
<u>Serum Calcium (mg/dl)</u>			< 0.001
• Mean± S.D.	9.6 ± 1.4	8.9 ± 0.9	
• Median (Range)	9.1 (7.9 – 15.3)	8.8 (6.6 – 12)	
<u>Serum Po4 (mg/dl)</u>			< 0.001
• Mean± S.D.	3.7 ± 0.6	4.4 ± 0.7	
• Median (Range)	3.6 (0.8 – 5)	4.2 (3.5 – 8.1)	

Table (4): Comparison of hemodialysis patients (with or without pulmonary hypertension) regarding Echocardiography findings:

Parameter	Hemodialysis patients		P-value
	Without PH (N= 63)	With PH (N= 61)	
Right side:			
<u>Right ventricular hypertrophy:</u> - No (%) - Yes (%)	49 (77.8%) 14 (22.2%)	16 (26.2%) 45 (73.8%)	< 0.001
Left ventricle:			
<u>left ventricular hypertrophy</u> - No (%) - Yes (%)	42 (66.7%) 21 (33.3%)	21 (34.4%) 40 (65.6%)	< 0.001
<u>LVEDd (cm)</u> - Mean± S.D. - Median (Range)	4.6 ± 0.8 4.6 (3.3 – 6.9)	4.9 ± 1.01 5 (2.75 – 6.7)	0.048
<u>LVESd (cm)</u> - Mean± S.D. - Median (Range)	3.1 ± 0.7 3 (2 – 5.3)	3.6 ± 0.6 3.5 (2.1 – 6)	< 0.001
<u>Ejection fraction (%)</u> - Mean± S.D. - Median (Range)	58.4 ± 4.2 60 (47 – 66)	57.7 ± 6.3 60 (33 – 67)	0.685
<u>Diastolic dysfunction</u> - No (%) - Yes (%)	44 (69.8%) 19 (30.2%)	21 (34.4%) 40 (65.6%)	< 0.001
Left atrium:			
<u>Left atrium diameter (cm)</u> - Mean± S.D. - Median (Range)	3.4 ± 0.5 3.4 (2.3 – 4.5)	3.8 ± 0.7 3.7 (2.5 – 5.4)	0.002
Others:			
<u>Valvular calcification</u> - No (%) - Yes (%)	60 (95.2%) 3 (4.8%)	40 (65.6%) 21 (34.4%)	< 0.001