

**Table1. Demographic, echocardiographic and catheterization data**

Demographic features		Two-D Echo features	
Age in Years	50.56 ± 17.28	LVEDD (cm)	5.29 ± 1.13 (8.5 - 3.1)
Mean ± SD	(18.0 – 83.0)	LVESD (cm)	3.9 ± 1.19 (7.2 - 1.7)
Male Gender Count (%)	66 (67.7%)	LVEF (%)	49.2 ± 13.7 (75 - 15)
DM	27 (28.1%)	Tissue Doppler features	
HTN	29 (30.2%)	Peak E' cm/s	69.9 ± 27.3 (147 - 34)
Overweight	26 (27.1%)	E/A	1.22 ± 0.86 (5.2 – 0.5)
Obese	40 (41.7%)	Septal E' cm/s	5.8 ± 2.25 (11.7 - 3)
Pulmonary HTN	3 (4.2%)	Lat E' cm/s	7.6 ± 2.88 (13.2 – 3.6)
		E/Sep E' cm/s	13.5 ± 8.11 (38.9 - 6)
		E/Lat E' cm/s	9.8 ± 5.16 (23.2 – 3.7)
Cardiac cath. Features		Speckle Tracking	
Nor. Pressure	50 (52.1%)	Global long strain %	24.4 ± 13.1 % (56.2 - 3)
High pressure	46 (47.9%)	PACS %	13.2 ± 8.3 % (37 - 1)

**Table 2: Comparing LVEDP against pulsed wave Doppler and tissue Doppler values**

	Normal LVEDP (n=50)	High LVEDP (n=46)	p-value
Septal E' cm/s	6.23 ± 2.03	5.91 ± 2.84	0.192
Lat E' cm/s	8.01 ± 2.74	7.33 ± 2.75	0.133
E/Sep E' cm/s	11.59 ± 6.35	16.77 ± 8.13	<0.001*
E/Lat E' cm/s	8.98 ± 4.16	12.42 ± 4.37	<0.001*
Global long strain %	27.99 ± 13.14	11.89 ± 7.47	0.000*
PACS %	15.20 ± 8.56	6.28 ± 5.51	0.000*

**Table 3: Correlations between Invasive LVEDP and tissue Doppler**

Tissue Doppler	Invasive LVEDP	
	r-value	P-value
Septal E' cm/s	-0.093	0.366
Lat E' cm/s	-0.019	0.856
E/Sep E' cm/s	0.369	<0.001*
E/Lat E' cm/s	0.466	<0.001*
Global long strain %	-0.708	<0.001*
PACS %	-0.601	<0.001*

**Table 4 : Correlations between Invasive LVEDP and tissue Doppler/Speckle tracking parameters in each group of EF**

Doppler and Speckle tracking parameters	EF <30%		EF (30%-to-<45%)		EF (45%-to-<55%)		EF ≥ 55%	
	Invasive LVEDP		Invasive LVEDP		Invasive LVEDP		Invasive LVEDP	
	r-value	P-value	r-value	P-value	r-value	P-value	r-value	P-value
Septal E' cm/s	-0.023	0.917	-0.271	0.200	-0.310	0.141	0.142	0.509
Lat E' cm/s	0.325	0.121	0.030	0.888	-0.303	0.150	0.507	0.011*
E/Sep E' cm/s	-0.034	0.874	0.058	0.789	0.264	0.212	0.323	0.124
E/Lat E' cm/s	0.258	0.233	-0.245	0.248	0.439	0.032*	0.462	0.023*
Global L strain%	-0.599	0.035*	-0.548	0.042*	-0.557	0.006*	0.512	0.011*
PACS %	0.498	0.013*	-0.177	0.409	-0.482	0.020*	0.311	0.139

**Global L strain%; Global longitudinal strain percent.**