doi: 10.4081/monaldi.2025.3342

SUPPLEMENTARY MATERIAL

Role of hybrid virtual pulmonary rehabilitation in improving performance status of patients eligible for lung transplantation

Shubham Agarwal,[1] Anant Mohan,[1] Vidushi Rathi,[1] Karan Madan,[1] Vijay Hadda,[1] Saurabh Mittal,[1] Pawan Tiwari,[1] Tejas M. Suri,[1] Randeep Guleria,[1] Milind Hote,[2] Manoj Sahu,[2] Sandeep Seth,[3] Aarti Vij,[4] Swati Yadav,[5] Maroof A. Khan[6]

[1]Department of Pulmonary, Critical Care and Sleep Medicine, All India Institute of Medical Sciences, New Delhi; [2]Department of Cardio-Thoracic and Vascular Surgery, All India Institute of Medical Sciences, New Delhi; [3]Department of Cardiology, All India Institute of Medical Sciences, New Delhi; [4]Organ Retrieval and Banking Organisation, All India Institute of Medical Sciences, New Delhi; [5]Pulmonary Rehabilitation Unit, All India Institute of Medical Sciences, New Delhi; [6]Department of Biostatistics, All India Institute of Medical Sciences, New Delhi, India

Correspondence: Anant Mohan, Department of Pulmonary, Critical Care and Sleep Medicine, New Private Ward, 3rd floor (Porta Cabin), All India Institute of Medical Sciences, New Delhi-110029, India. E-mail: anantmohan88@gmail.com

Key words: pulmonary rehabilitation, lung transplantation, performance status, quality of life, chronic respiratory diseases.

Supplementary Table 1. Disease-specific analysis of primary and secondary outcomes

	DPLD (n=37)			COPD (n=6)			Bronchiectasis (n=8)		
Clinical variable N (%) or Mean (SD)	**Pre-rehabilitation**	**Post-rehabilitation**	**p**	**Pre-rehabilitation**	**Post-rehabilitation**	**p**	**Pre-rehabilitation**	**Post-rehabilitation**	**p**
KPS ≤ 40) KPS 50-70) (KPS 80-100)	0 31 6	0 20 17	<0.001	1 5 0	0 3 3	0.135	1 7 0	0 5 3	0.135
ECOG score 1 2 3	 8 23 6	 14 18 5	0.042	 0 4 2	 2 2 2	0.157	 0 5 3	 3 5 0	0.049
SGRQ score (quality of life)	60.8±19.3	46.9±25.0	<0.001	68.2±13.1	48.4±25.1	0.066	62.2±17.2	33.9±13.2	0.001
Dypnea mMRC 0-2 mMRC 3-4	 13 24	 24 13	<0.001	 0 6	 4 2	0.045	 2 6	 7 1	0.025
O2 requirement at rest	15 (40.5%)	14 (37.8%)	0.563	4(66.7%)	2(33.3%)	0.157	6 (75%)	2 (25%)	0.045
FVC [L]	1.51±0.82	1.52±0.85	0.810	1.68±0.31	1.69±0.50	0.887	1.07±0.13	1.10±0.19	0.638
FVC %predicted	42.9±16.8	45.6±22.9	0.116	50.0±11.2	50.8±21.6	0.881	35.0±8.6	37.1±11.0	0.402
FEV1 [L]	1.28±0.64	1.31±0.74	0.463	0.65±0.16	0.64±0.24	0.757	0.62±0.12	0.63±0.14	0.628
FEV1 %predicted	45.5±18.6	48.1±25.9	0.218	24.3±8.2	24.8±13.6	0.884	23.7±6.6	24.7±7.6	0.407
DLCO [mL/min/mmHg]	7.64±4.88 (n=24)	8.02±4.85	0.635	9.73±3.71	10.73±4.28	0.125	9.38±5.60	12.9±3.2	0.062
DLCO %predicted	28.8±17.3	31.1±18.1	0.461	42.2±17.7	47.5±21.9	0.132	38.2±17.8	48.6±19.6	0.064
Six-minute walk distance [metre]	315.7±93.4	310.7±82.2	0.612	277.7±129.7	263.8±153.1	0.766	300.1±108.5	326.5±93.6	0.359

DPLD, diffuse parenchymal lung disease; COPD, chronic obstructive pulmonary disease; KPS, Karnofsky Performance Status; ECOG, Eastern Cooperative Oncology Group; SGRQ, St. George's Respiratory Questionnaire; mMRC, modified Medical Research Council; FVC, forced vital capacity; FEV1, forced expiratory volume in 1 second; DLCO, diffusion capacity of lung carbon monoxide.