

536 **Supplemental digital content (SDC)**

537 **SDC, Figure 1:** Flow-Chart of data availability.

538 COPD=chronic obstructive pulmonary disease; ILD=interstitial lung disease;
539 SLTx=single lung transplantation; DLTx=double lung transplantation; 6MWD=6-
540 minute walk distance.

541 **SDC, Table 1. Postoperative limitations after lung transplantation (LTx)**

Postoperative limitations following minimal invasive LTx surgery	
Post-operative progress	Limitations
1-2 weeks post LTx	- No stretch or traction to the scar tissue, m. pectoralis major, m. serratus anterior and carry loads < 5kg
3-6 weeks post LTx	Glenohumeral joint: flexion and abduction maximally 90°
After 6 weeks post LTx	Carry loads > 5kg
After 3 month post LTx	Range of motion of the upper body and load capacity should be fully given
Postoperative limitations following transverse thoracosternotomy LTx surgery ("clamshell incision")	
1-8 weeks post LTx	Sternum protection: change of body position only with patient's arms crossed before breast; fix the sternum while coughing; Patients should not: - brace their body with arms – elevate arms over 90° - lie on the side – pull or push heavy objects – carry items which weigh more than 1.5kg – rotate their upper body
After 9 weeks post LTx	Carry loads < 5kg; bilateral distribution of load
After 3 month post LTx	Working on full range of movement of the upper body and load capacity; Carry loads > 5kg; overhead loads possible

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543 **SDC, Table 2: Dropout rates during pulmonary rehabilitation (data presented**

544 **as absolute value)**

	COPD, n=333			ILD, n=389		
	SLTx, n=129	DLTx, n=204	Δ SLTx vs. DLTx	SLTx, n=135	DLTx, n=254	Δ SLTx vs. DLTx
Dropout of PR, n (%)	13 (10.0)	10 (4.9)	p=0.079 ^b	15 (11.1)	17 (6.7)	p=0.174 ^b
Reasons for referral back to hospital/ LTx center	-Acute infection (n=8) -Acute organ rejection (n=4) -Pneumo-thorax (n=1)	- Acute infection (n=3) -Acute organ rejection (n=2) -Bronchial stenosis (n=4) -Dislocated sternum fracture (n=1)		-Acute infection (n=6) -Acute organ rejection (n=8) -Pneumo-thorax (n=1)	-Acute infection (n=8) -Acute organ rejection (n=3) -Bronchial stenosis (n=5) -Wound dehiscence (n=1)	

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546 COPD=chronic obstructive pulmonary disease; ILD=interstitial lung disease;

547 SLTx=single lung transplantation; DLTx=double lung transplantation; PR=Pulmonary

548 rehabilitation; LTx=lung transplantation.

549 ^b=exact fishers test.

550 **SDC, Table 3: Analyses of dyspnea and leg fatigue (Borg scale) at the end of 6-**
 551 **minute walk test (data presented as median and interquartile range)**

BORG-Scale	COPD, n=286			ILD, n=334		
Dyspnea	SLTx, n=108	DLTx, n=178	Δ SLTx vs. DLTx	SLTx, n=117	DLTx, n=217	Δ SLTx vs. DLTx
Admission	5.0 [4.0-7.0]	4.0 [3.0-6.0]		6.0 [5.0-7.0]	5.0 [3.0-7.0]	
Discharge	5.0 [4.0-7.0] ^{c,#}	5.0 [3.0-6.0] ^{c,#}	p=0.609 ^d	6.0 [5.0-7.0] ^{c,#}	5.0 [3.0-6.0] ^{c,#}	p=0.505 ^d
Leg fatigue						
Admission	7.0 [5.0-8.0]	7.0 [5.0-8.0]		6.0 [5.0-7.0]	7.0 [5.0-8.0]	
Discharge	6.0 [5.0-7.0] ^{c,#}	6.0 [5.0-7.0] ^{c,***}	p=0.255 ^d	5.0 [4.0-6.0] ^{c,**}	5.0 [4.0-7.0] ^{c,***}	p=0.379 ^d

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554 SLTx=single lung transplantation; DLTx=double lung transplantation.

555 ^c=Wilcoxon test; ^d=Mann-Whitney-U-test; **0.01≥p>0.001; ***p≤0.001; #p>0.05.

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