

Supplementary material

Zembala M, Religa Z, Large S, et al. An 18-year follow-up after the first successful heart-lung transplant in Poland. Authors' tribute to the pioneers of heart and lung transplantation. *Kardiol Pol.* 2020; 78: 773-775. doi:10.33963/KP.15420

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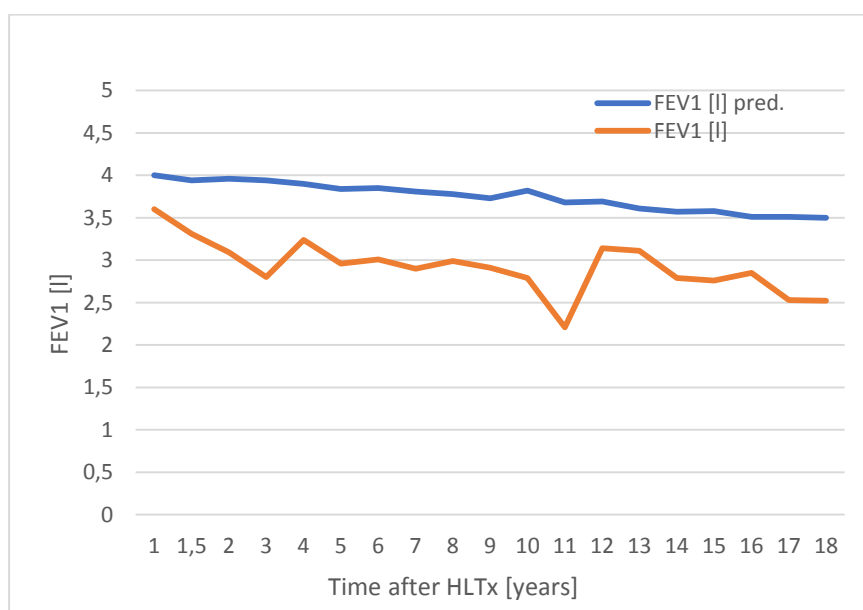


Figure S1. Detailed results of spirometry (forced expiratory volume in 1 second) for 18 years observation.

Abbreviations: FEV 1 – achieved forced expiratory volume in 1 second; FEV1 pred. - predicted value for FEV1

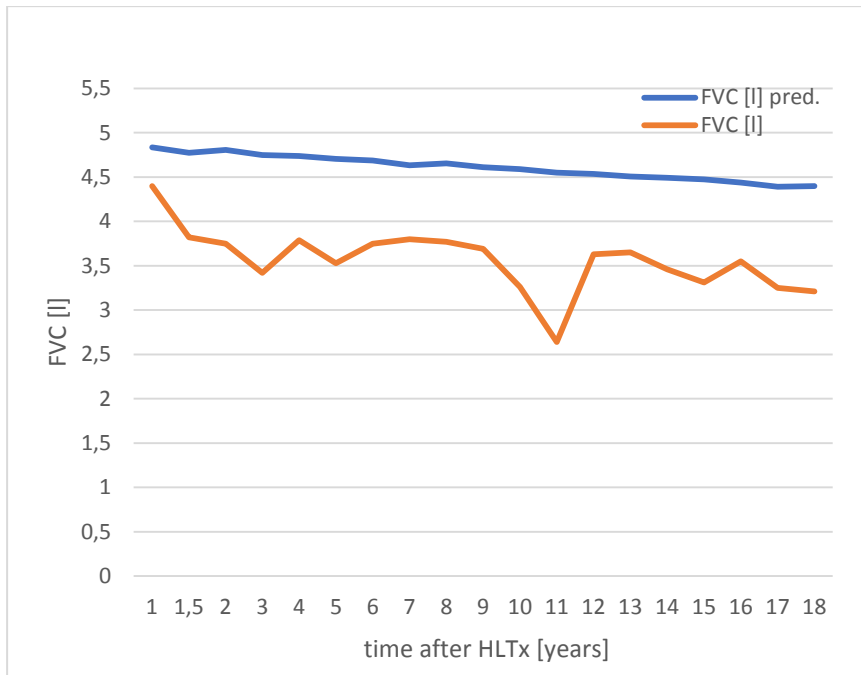


Figure S2. Detailed results of spirometry (forced vital capacity) for 18 years observation.

Abbreviations: FVC – achieved forced vital capacity; FVC pred. - predicted value for FVC

Table S1. Detailed results of echocardiography for 18 years observation.

		Time after HLTx				
		86 th post-operative day	1-year	5-years	18-years	
UKG	RVEDd [cm]	3,1	3,3	5	3,6	Abbreviations: Ao - aortic bulb, IVSd/IVSs - thickness
	IVSd/IVSs [cm]	1,1/1,6	1,1/1,5	1/1,4	1,2/	
	LVEDd/LVESd [cm]	5,2/3,5	4,3/2,9	5,5/4,1	5,5/4,1	
	PWd/PWs [cm]	1,1/1,5	1,2-1,6	1,1/1,3	1,1	
	LA [cm]	5,6		3,5	3,8	
	Ao [cm]	3,3		3,3	3,7	
	LVEF [%]	60	60	50	53	

of the ventricular septum in diastole/systole, LA - left atrium, LVEDd/LVESd - left ventricular diastolic/systolic dimension, LVEF - left ventricular ejection fraction, PWd/PWs - posterior wall thickness in diastole/systole, RVEDd - right ventricular diastolic dimension,

Table S2. 18 years observation of kidney and liver parameters due to toxic immunosuppressive, antibacterial and antifungal treatment.

Time after hltx [years]	CR [mmol/l]	eGFR [ml/min/1,73m ²]	AST [IU/l]	ALT [IU/l]	CH [mmol/l]
1	122	59,86	29	52	4,36
1,5	147	48,05	23	26	4,8
2	113	64,8	21	25	4,83
3	123	58,8	20	30	4,35
4	107	68,4	23	31	5,08
5	99	76,18	26	45	5,64
6	91	83,95	19	33	6,14
7	88	87,18	17	20	4,94
8	97	77,16	24	33	4,75
9	108	68,06	22	37	6,62
10	103	71,21	24	26	5,88
11	103	70,83	19	25	4,11
12	98	74,95	23	28	5,29
13	89	83,24	22	28	5,01
14	104	69,28	23	28	4,67
15	111	63,97	27	33	4,04
16	98	73,77	25	28	4,75
17	98	73,49	27	35	4,87
18	96	74,77	24	32	4,69

Abbreviations: ALT - alanine transaminase, AST - aspartate transaminase, CH – total cholesterol, CR - serum creatinine, eGRF – estimated glomerular filtration rate

Table S3. Results of magnetic resonance imaging of the heart which was performed after 18 years post simultaneous heart-lung transplantation.

Results of magnetic resonance imaging (MRI)	
Left ventricular end-diastolic volume [ml]	179
Left ventricular end-diastolic volume index [ml/m ²]	83
Left ventricular end-systolic volume [ml]	89
Left ventricular stroke volume [ml]	90
Left ventricular ejection fraction [%]	50
Right ventricular end-diastolic volume [ml]	186
Right ventricular end-diastolic volume index [ml/m ²]	86
Right ventricular end-systolic volume [ml]	101
Right ventricular stroke volume [ml]	85
Right ventricular ejection fraction [%]	46
Thickness of the ventricular septum in diastole [mm]	12
Left ventricular diastolic dimension [mm]	60,5
End-diastolic left ventricular posterior wall thickness [mm]	11
Right ventricle inflow tract [mm]	47
Right ventricular outflow tract [mm]	31
Left atrial appendage [cm ²]	17
Right atrial appendage [cm ²]	30
Conclusions	<p>Left and right ventricular ejection fractions are preserved.</p> <p>Left ventricle is asynchronous and normokinesis of a free wall is observed. Left ventricle is symmetrically enlarged up to max. 16mm in the interventricular septum range.</p>

	<p>Ascending aorta about 6cm from aortic valve narrowed to 21-22mm (probably at the anastomosis) with accelerated blood flow, below the narrowing, ascending aorta is 30 cm wide. Contractibility of interventricular septum is regionally dyfunded. Right atrium is enlarged.</p>
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