

SUPPLEMENT

Assessment of right ventricular function with CT and Echocardiography in patients with severe ARDS on ECMO

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	Parameter	Mean (SD)
MPAd	Main pulmonary artery diameter (at bifurcation)	2.62cm (0.41)
Aad	Ascending aortic diameter	2.82cm (0.41)
MPAd/Aad	Ratio	0.94 (0.15)
RPAAd	Right pulmonary artery diameter	1.85cm (0.34)
LPAAd	Left pulmonary artery diameter	1.90cm (0.31)
Rad	Right atrium transverse diameter	3.85cm (0.63)
RAA	Right atrial area	15.1cm ² (4.7)
Rvd	Right ventricular transverse diameter	
	- Rvd annulus	3.61cm (0.58)
	- Mid Rvd	3.36cm (0.66)
	- Apex Rvd	1.71cm (0.58)
Rva	Right ventricular area	18.8cm ² (5.0)
RVOTW	Right ventricular outflow tract anterior wall thickness	0.42cm (0.12)
IVST	Interventricular septal thickness	1.17cm (0.26)
Lvd	Left ventricular transverse diameter	3.66cm (0.55)
Lva	Left ventricular area	24.5cm ² (5.7)
	Lung measurements	
	Lung volume with CPAP 5cmH ₂ O	919ml (840)
	Lung volume with CPAP PEEP 45cmH ₂ O	1978ml (1269)

eTable 1: Showing CT measured dimensions of vasculature and cardiac chambers for all 107 patients. The vascular structures (main pulmonary artery diameter, right and left pulmonary artery diameter, ascending aorta diameter) were measured in a transversal image. Rad, Mid RVd, Lvd, RAA, RVA, Lva, RVd/LVd and RVa/Lva were measured after reset in a 3D Curved MPR plane, centred at the right atrium and oriented toward the apex. Lung volumes were measured in transversal view using lung filter, selecting Region of Interest (ROI) and merging aerated areas at different levels for low and high airway pressures, respectively. Variables are given as mean with standard deviation shown in brackets.