

**Supplementary Table 6** Interobserver variability of segmental WSS analysis of the *peak systolic cardiac phase-1* from the scan exams

	WSSmax (mPa)						WSSmean (mPa)					
	Bland-Altman		COV (%)	Correlation*		ICC	Bland-Altman		COV (%)	Correlation*		ICC
	Mean difference (mPa)	Limits of agreement ( $\pm 2\sigma$ ) (mPa)		<i>r</i>	<i>P</i>		Mean difference (mPa)	Limits of agreement ( $\pm 2\sigma$ ) (mPa)		<i>r</i>	<i>P</i>	
<b>Proximal AAO</b>	-27.7	710.2	12	0.94	<0.001	0.91	-50.4	261.7	9	0.88	0.001	0.92
<b>Distal AAO</b>	-150.8	468.5	10	0.79	0.006	0.88	9.6	42.7	2	0.99	<0.001	1.00
<b>Aortic arch</b>	33.1	114.0	3	0.99	<0.001	0.99	15.9	31.5	1	0.99	<0.001	0.99
<b>Proximal DAAo</b>	-78.4	194.0	4	0.95	<0.001	0.97	-16.1	65.5	2	0.96	<0.001	0.98
<b>Distal DAAo</b>	-302.2	496.3	10	0.78	0.008	0.81	-34.1	103.7	3	0.95	<0.001	0.93

\*Spearman correlation coefficient

AAo ascending aorta, DAAo descending aorta, COV coefficient of variation, ICC intraclass correlation coefficient

**Title:** Scan-rescan reproducibility of segmental aortic wall shear stress as assessed by phase-specific segmentation with 4D flow MRI in healthy volunteers

**Journal:** Magnetic Resonance Materials in Physics, Biology and Medicine

**Authors** Roel LF van der Palen, Arno AW Roest, Pieter J van den Boogaard, Albert de Roos, Nico A Blom, Jos JM Westenberg

**Corresponding author:** Roel LF van der Palen; Division of Pediatric Cardiology, department of Pediatrics, Leiden University Medical Center, Leiden, the Netherlands. Albinusdreef 2, 2333 ZA, Leiden, the Netherlands. E-mail: r.vanderpalen@lumc.nl