

**Association of total homocysteine and smoking with cerebral microemboli in patients with mechanical heart valves: A transcranial Doppler study.**

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**Supplemental material**

<b>Supplemental Table 1: Demographic characteristics in study participants by type of mechanical valves</b>					
Continuous variables shown as mean±SD; categorical variables as n, %					
<i>Characteristics</i>	<i>On-X (n=1)</i>	<i>St. Jude (n=18)</i>	<i>Medtronic (n=3)</i>	<i>&gt; One type (n=3)</i>	<i>p value</i>
Age (years)	46.00	66.56 ±7.99	50.33±12.42	65.00 ±6.24	0.01
Sex, Female	1 (100%)	7 (39%)	2 (67%)	0	0.36
Body surface area	1.58	2.00 ±0.26	2.25 ±0.31	2.28 ±0.54	0.18
VA/BSA ratio	1.58	1.15 ±0.15	1.02 ±0.16	1.23 ±0.42	0.22
Atrial fibrillation	0	7 (41%)	0	3 (100%)	0.14
Warfarin and aspirin	1 (100%)	11 (61%)	3 (100%)	0	0.13
tHcy	8.60 ±0	9.15 ±3.55	7.13 ±1.79	7.93 ±4.64	0.88
INR (Mean ±SD)	2.53 ±0	2.69 ±0.47	2.8 ±0.16	2.76 ±0.58	0.44
INR groups					
<2	0	1 (6%)	0	0	>0.99
2-3	1 (100%)	13 (72%)	3 (100%)	2 (100%)	
>3	0	4 (22%)	0	0	
Abbreviation: VA/BSA ratio: Valve area/ body surface area; tHcy: total homocysteine; INR: International Normalized Ratio.					

<b>Supplementary Table 2: Demographic characteristics in study participants by valve location</b>				
Continuous variables shown as mean±SD; categorical variables as n, %				
<i>Characteristics</i>	<i>Aorta (n=18)</i>	<i>Mitral (n=3)</i>	<i>&gt; One valve (n=4)</i>	<i>P value</i>
Age (years)	63.61±10.63	58.33 ±11.24	67.50 ±7.14	0.50
Female	7 (39%)	2 (67%)	1 (25%)	0.66
Body surface area	2.05 ±0.26	1.95 ±0.39	2.01 ±0.45	0.75
VA/BSA ratio	1.10 ±0.15	1.37 ±0.18	1.27 ±0.25	0.03
Atrial fibrillation	6 (35%)	0	4 (100%)	0.01
Warfarin and aspirin	11 (61%)	3 (100%)	1 (25%)	0.15
tHcy, (Mean ±SD)	8.59 ±3.58	9.10 ±0.62	9.00 ±4.35	0.80
INR (Mean ±SD)	2.70 ±0.47	2.74 ±0.18	2.75 ±0.47	0.95
INR groups				
<2	1 (6%)	0	0	>0.99
2-3	13 (72%)	3 (100%)	3 (75%)	
>3	4 (22%)	0	1 (25%)	
Abbreviation: VA/BSA ratio; tHcy: total homocysteine; INR: International Normalized Ratio.				