

CAROTID ARTERY MECHANICS IN MARFAN SYNDROME

Supplemental Table 1.

fiber family	<i>k</i> =1	1	<i>k</i> =2	2	<i>k</i> =3	3	α_o [Deg]	Error
	c [kPa]	c1 [kPa]	c2	c1 [kPa]	c2	c1 [kPa]	c2	
WT								
1	2.081	7.558	0.091	10.846	0.012	0.662	0.670	27.58
2	4.105	5.101	0.159	0.000	1.690	1.322	0.448	44.16
3	24.292	0.469	0.493	1.873	0.278	0.021	1.425	39.98
4	1.348	1.792	0.316	3.021	0.001	0.503	0.322	30.20
5	13.577	0.757	0.519	9.419	0.018	1.394	0.670	34.45
6	0.034	0.000	2.942	0.014	1.827	0.091	1.838	37.56
7	12.728	0.055	1.016	3.772	0.001	0.047	0.992	34.12
avg	8.309	2.248	0.791	4.135	0.547	0.577	0.909	35.44
std	8.247	2.720	0.922	4.027	0.773	0.543	0.508	5.25
							α from NLOM	
2a	0.162	1.876	0.344	1.767	0.067	3.667	0.266	43.23
HET								
1	20.656	0.185	0.532	0.051	0.429	0.576	0.477	32.00
2	10.188	0.954	0.434	2.298	0.115	1.377	0.480	31.22
3	7.344	0.735	0.380	2.350	0.076	2.057	0.342	30.21
4	4.280	0.727	0.538	0.112	0.244	6.439	0.226	36.54
5	4.324	11.267	0.152	4.256	0.082	0.061	1.141	29.30
6	1.351	4.326	0.113	0.014	0.162	3.065	0.235	36.12
avg	9.359	2.773	0.407	1.814	0.189	2.102	0.533	31.85
std	6.305	3.928	0.170	1.595	0.123	2.107	0.311	2.80
							α from NLOM	
5a	8.066	0.007	0.010	5.242	0.066	1.546	0.576	20.19
KO								
1	0.005	0.142	0.342	1.956	0.087	1.643	0.445	21.03
2	0.234	7.086	0.178	4.978	0.082	0.265	0.937	30.86
3	1.612	8.623	0.138	4.387	0.055	0.051	1.036	32.25
4	4.325	10.812	0.116	7.516	0.298	0.670	1.291	31.96
5	0.001	2.041	0.488	1.429	0.058	4.207	0.218	34.87
6	0.002	5.097	0.407	0.001	1.502	3.096	0.657	45.54
7	2.863	21.401	0.001	8.928	0.496	0.000	4.122	21.89
8	0.009	0.174	1.030	6.523	0.244	3.645	0.564	36.53
9	0.114	13.977	0.001	0.902	0.386	0.017	1.393	42.32
avg	1.018	7.706	0.300	4.069	0.357	1.510	1.185	33.03
std	1.500	6.588	0.305	2.990	0.432	1.607	1.101	7.70
							α from NLOM	
6a	0.174	3.407	0.628	3.439	0.001	3.498	0.522	51.10
								0.300

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Supplemental Table 1. Best-fit parameters for a 4-fiber family model determined using the simplex method for passive Wild-type (WT), Heterozygous (HET), and Knockout (KO) mouse types for each mouse tested (n=22).

Fiber angle α_o was allowed to be free in all parameter estimations except where noted (2a, 5a, and 6a).