

Table 1: Vessel overview

ID	Name	Start	-coordinates	End	-coordinates	Length	Angle
1	Aorta ascendens	1	(0 , 0 , 2)	26	(-6 , 8 , 2)	10	126.87
2	Left heart	1	(0 , 0 , -2)	1	(0 , 0 , 2)	4	
3	Truncus brachiocephalica	26	(-6 , 8 , 2)	27	(-12 , 15 , 2)	9.22	130.6
4	Arcus aorta 1	26	(-6 , 8 , 2)	28	(-3 , 8 , 2)	3	0
5	A subclavia (d)	27	(-12 , 15 , 2)	15	(-20 , 17 , 2)	8.25	165.96
6	A carotis communis (d)	27	(-12 , 15 , 2)	5	(-5 , 44 , 2)	29.83	76.43
7	A carotis communis (s)	28	(-3 , 8 , 2)	5	(-5 , 44 , 2)	36.06	93.18
8	Arcus aorta 2	28	(-3 , 8 , 2)	29	(0 , 8 , 2)	3	0
9	Head	5	(-5 , 44 , 2)	5	(-5 , 44 , -2)	4	
10	A axillaris (d)	15	(-20 , 17 , 2)	16	(-30 , 8 , 2)	13.45	-138.01
11	Right shoulder	15	(-20 , 17 , 2)	15	(-20 , 17 , -2)	4	
12	A subclavia (s)	29	(0 , 8 , 2)	4	(10 , 17 , 2)	13.45	41.99
13	Aorta thoratica	29	(0 , 8 , 2)	30	(-2 , -3 , 2)	11.18	-100.3
14	A brachialis (d)	16	(-30 , 8 , 2)	19	(-30 , -18 , 2)	26	-90
15	Right upper arm	16	(-30 , 8 , 2)	16	(-30 , 8 , -2)	4	
16	A axillaris (s)	4	(10 , 17 , 2)	3	(20 , 8 , 2)	13.45	-41.99
17	Left shoulder	4	(10 , 17 , 2)	4	(10 , 17 , -2)	4	
18	A intercostales posteriores	30	(-2 , -3 , 2)	6	(12 , -4 , 2)	14.04	-4.09
19	Aorta abdominalis 1	30	(-2 , -3 , 2)	31	(-5 , -14 , 2)	11.4	-105.26
20	A radialis ulnaris (d)	19	(-30 , -18 , 2)	23	(-30 , -43 , 2)	25	-90
21	Right ellbow	19	(-30 , -18 , 2)	19	(-30 , -18 , -2)	26	
22	A brachialis (s)	3	(20 , 8 , 2)	8	(20 , -18 , 2)	26	-90
23	Left upper arm	3	(20 , 8 , 2)	3	(20 , 8 , -2)	4	
24	Chest and back	6	(12 , -4 , 2)	6	(12 , -4 , -2)	4	
25	A splenica	31	(-5 , -14 , 2)	7	(1 , -14 , 2)	6	0
26	Aorta abdominalis 2	31	(-5 , -14 , 2)	32	(-5 , -16 , 2)	2	-90
27	Right hand	23	(-30 , -43 , 2)	23	(-30 , -43 , -2)	4	

ID	Name	Start	-coordinates	End	-coordinates	Length	Angle
84	V portae hepatis	42	(-8 , -18 , -2)	18	(-13 , -16 , -2)	5.39	158.2
85	V iliaca communis	44	(-5 , -29 , -2)	43	(-5 , -24 , -2)	5	90
86	V renalis	9	(3 , -24 , -2)	43	(-5 , -24 , -2)	8	180
87	V azygos	6	(12 , -4 , -2)	38	(-5 , 8 , -2)	20.81	144.78
88	V brachiocephalica (s)	39	(2 , 15 , -2)	38	(-5 , 8 , -2)	9.9	-135
89	V brachiocephalica (d)	40	(-12 , 15 , -2)	38	(-5 , 8 , -2)	9.9	-45
90	V hepatica communis	18	(-13 , -16 , -2)	41	(-5 , -16 , -2)	8	0
91	V cava inferior 1	43	(-5 , -24 , -2)	41	(-5 , -16 , -2)	8	90
92	V cava superior	38	(-5 , 8 , -2)	2	(-4 , 4 , -2)	4.12	-75.96
93	V cava inferior 2	41	(-5 , -16 , -2)	2	(-4 , 4 , -2)	20.02	87.14
94	V pulmonalis	17	(-14 , 4 , -2)	1	(0 , 0 , -2)	14.56	-15.95