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Factors impacting on left ventricular hypertrophy in haemodialysis patients

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APPENDIX 13 **Ambulatory and dialysis blood pressure measurements**

Serial No.	24H-SBP	24H-DBP mmHg	24H-MAP mmHg	24-H Pulse press	24-H Heart rate	SBP(awake)	SBP(sleep)	Dialysis P/Pressure-c/avr	Dialysis SBP c/aver	Dialysis DBP c/aver	Dialysis MAPc/aver
1	119	83	95	37	64	122.07	109.09	43	129	86	100
2	103	70	82	33	91	103.84	99.65	48	120	72	88
3	128	82	98	47	82	140.43	112.95	60	135	75	95
4								46	104	58	73
5	90	53	66	38	75	89.81	91.7	45	98	53	68
6								51	124	73	90
7	97	57	70	40	80	94.59	100.35	46	107	61	76
8	133	88	105	45	78	140.02	116.28	61	144	83	103
9	135	80	99	55	66	134.27	135	67	148	81	103
10	104	70	81	34	84	100.19	107.24	67	150	83	105
11	135	77	98	59	75	135.24	130.63	56	128	72	91
12	135	84	102	51	85	134.15	134.65	64	152	88	109
13	126	77	94	49	73	130.8	116.35	63	136	73	94
14	109	74	87	36	99	112.1	102.43	53	140	87	105
15	150	94	114	56	69	153.06	146.71	46	152	106	121
16	134	85	100	49	83	135.85	129	62	141	79	100
17	115	79	92	36	84	115.27	113.22	42	132	90	104
18	112	75	86	37	86	114.02	105.07	51	146	95	112
19	139	98	112	40	65	139.93	134.88	48	142	94	110
20	102	64	76	38	95	99.46	103.75	55	128	73	91.33
21	125	86	99	39	71	122.26	130.64	54	138	84	102
22	108	68	82	40	80	111.93	100.44	66	139	73	95
23	98	61	75	37	81	101.45	91.06	56	110	54	73
24	105	70	82	35	76	107.63	92.13	50	126	76	93
25	156	106	123	51	92	157.47	151.08	60	148	88	108
26	126	79	95	47	76	129.51	120	78	161	83	109
27	138	87	104	50	75	142.54	127.36	51	134	83	100
28	116	73	88	43	52	124.24	98.35	56	141	85	104
29	100	62	76	38	66	103.83	84.86	57	124	67	86

30	142	90	110	52	78	141.6	140.63	66	161	95	117
31	141	88	107	53	70	146.44	132.5	69	156	87	110
32	105	58	75	46	80	108.51	98.69	59	113	54	74
33	158	103	124	55	74	174.73	138.75	58	155	97	116
34	130	90	106	40	74	134.02	122.62	57	140	83	102
35	118	74	89	45	66	118.13	117.13	58	143	85	104
36	151	93	113	58	70	149.98	152.39	76	169	93	118
37	149	94	114	55	67	148.26	150.82	58	140	82	101
38	136	94	109	42	96	137.27	126.69	51	139	88	105
39	103	63	77	40	63	106.5	94	47	101	54	69.67
40								76	166	90	115.33
41	114	75	88	38	81	116.32	109.79	60	138	78	98
42	156	72	105	84	58	150.19	166	85.67	154.67	69	97.56
43	147	100	115	48	74	145.79	150.33	58.92	158.42	99.5	119.14
44	146	97	113	49	65	147.51	143.46	56.22	160.83	104.61	123.35
45	161	90	116	72	65			53	140.14	87.14	104.81
46	103	68	81	35	73	109.12	91.85	40.08	116.29	76.21	89.57
47	105	65	78	40	78	102.47	108.64	53.68	126.32	72.64	90.53
48	143	97	112	47	100	141.55	144.12	54.95	139.65	84.7	103.02
49	137	95	111	42	83	139.13	132.78	53.63	128.92	75.29	93.17
50	151	103	119	48	96	152.09	140.81	59.08	145.54	86.46	106.15
51	108	72	86	36	63	114.4	99.43	44	123.36	79.36	94.03
52	186	112	135	75	91	189.64	174.73	80.44	173	92.56	119.37
53								65.22	143.22	78	99.74
54	110	67	83	43	78	108.61	117.09	57.17	129.71	72.54	91.6
55	168	119	135	50	96	175.73	153.25	66.84	158.88	92.04	114.32
56	143	67	93	75	96	146.02	138.86	95.3	163.65	68.35	100.12
57	99	65	77	35	68			42.8	112.85	70.05	84.32
58	145	100	115	45	89	150.73	132.64	60.7	160.7	100	120.23
59	182	122	142	60	94	177.67	190.77	74.55	171.63	97.08	121.93
60	139	99	113	41	79	133	145.29	54.11	152.11	98	116.04
61	107	74	86	33	96	104.19	102.73	49.92	129.42	79.5	96.14
62	166	96	121	70	64	172.88	156.68	84.05	182.45	98.4	126.42
63	134	89	104	45	70	139.52	131.31	45.75	137.96	92.21	107.46
64	140	91	109	49	66	138.59	139.92	68.67	162.67	94	116.89

65	148	101	117	47	85	150.84	140.56	55.82	158.41	102.59	121.2
66	126	89	102	37	93	130	114.88	42.75	128.92	86.17	100.42
67	154	105	122	49	73	154.74	149.36	70.13	159.92	89.79	113.17
68								50.04	117.59	67.55	84.23
69	155	87	110	69	69	160.52	141.63	78.56	175.42	96.86	123.05
70	169	90	121	79	57	160.92	173.08	75.04	164.71	89.67	114.68
71	133	80	96	53	79	141.95	123.06	62.44	148.83	86.39	107.2
72	144	74	101	70	63	142.59	140.67	74.36	145.18	70.82	95.61
73	144	74	101	69	64	154.77	125.24	69	140.71	71.71	94.71
74	162	103	122	59	85			52.9	158.3	105.4	123.03
75	121	58	81	63	87	118.19	127.55	46	115.67	69.42	84.84
76	137	86	104	51	78	141.32	129.22	45.88	140.63	94.75	110.04
77	152	87	109	66	79	151.42	154.33	68.1	155.6	87.5	110.2
78	141	92	109	49	82	146.17	132.67	58.88	145.63	86.75	106.38
79	142	74	101	69	84	150.39	127.5	64.14	140.09	75.95	97.33
80	104	65	78	40	74	106.2	97.67	29	88	59.38	68.92
81								41.58	135.96	94.38	108.24
82	105	63	79	42	82	110.77	91.36	65	121.67	56.83	78.44
83	149	83	107	66	56	147.85	151	63.46	141.46	78	99.15
84								85.08	167.25	82.17	110.53
85								44	114.25	70	84.75
86								57	133.64	77.14	95.97
87								43.46	125.04	81.58	96.07
88								51	110.25	58.92	76.03
89								62.165	150.29	88.125	108.85
90	136	93	108	44	87	138.96	120.5	50.06	129.42	79.36	96.05
91								49.23	121.55	72.32	88.73
92								65.6	164.55	98.95	120.82
93								44.63	134.19	89.56	104.44
94	151	85	107	66	74	158.77	139.09	76	154.86	78.59	104.01

APPENDIX 14 Echocardiography results

Serial no.	Sex	IVSTd (cm)	PWTd (cm)	Lvedd (cm)	LVEDV	LVESV	Lvesd (cm)	LVM (g)	LVMI (g/m^2)	EF (%)	FS	BSA	LVCVI
1	0	1.01	1.01	5.05	120.2	74	3.99	219.99	122.22	43	21	1.8	66.77778
2	0	1.02	1.09	4.34	122	85	3.5	180.45	95.99	40	19	1.88	64.89362
3	0	1.47	1.21	4.72	104	30	2.81	298.47	188.91	71	51	1.58	65.82278
4	1	1.34	0.83	5.43	144	50	3.64	276.43	129.78	61	33	2.13	67.60563
5	1	1.36	1.19	4.71	102.83	53.51	3.57	275.70	151.48	48	24	1.82	56.5
6	0	0.66	1.55	5.06	122	67	3.92	251.27	132.95	45	23	1.89	64.55026
7	1	0.89	1.21	5.55	149	67	3.89	274.21	122.42	56	30	2.24	66.51786
8	0	2.43	2.63	4.51	93	29	2.76	802.52	413.67	69	38	1.94	47.93814
9	0	0.92	1.57	7.65	313	104	4.7	605.09	280.13	67	38	2.16	144.9074
10	0	1.15	1.21	5.05	122	61	3.77	275.60	146.60	50	25	1.88	64.89362
11	1	1.02	0.89	5.11	124	58	3.7	207.42	109.74	53	28	1.89	65.60847
12	1	1.15	1.09	4.98	117	58	3.7	249.38	149.33	50	25	1.67	70.05988
13	1	1.63	0.96	4.94	115	60	3.74	305.06	203.37	48	24	1.5	76.66667
14	0	1.15	0.84	4.76	106	48	3.38	194.08	84.75	56	29	2.29	46.28821
15	0	1.53	1.02	6.38	207	124	5.11	456.93	219.68	40	20	2.08	99.51923
16	0	0.96	1.15	6.06	183	63	3.83	322.11	146.41	66	36	2.2	83.18182
17	1	1.91	1.42	4.98				454.76	272.31	52	26	1.67	
18	0	1.21	1.15	5.23	131	77	4.15	292.36	146.91	42	20	1.99	65.82915
19	0	1.21	1.21	4.34	85	33	2.94	222.66	135.77	60	32	1.64	51.82927
20	0	0.9	1.21	4.82	103.71	59.55	3.74	216.07	121.39	45	23	1.78	58.26404
21	0	1.53	1.09	5.17	127.8	68.24	3.96	334.32	207.65	47	23	1.61	79.37888
22	1	1.36	0.96	3.86	64.24	18.64	2.33	172.06	99.46	71	40	1.73	37.13295
23	1											1.54	
24	0	1.75	1.35	3.91	67	32	2.9	282.48	184.63	51	26	1.53	43.79085
25	1	1.33	1.15	4.7	102.47	52.87	3.56	263.38	173.27	48	24	1.52	67.41447
26	1	1.28	1.48	5.66	157	81	4.24	418.65	239.23	48	25	1.75	89.71429
27	0	2.03	1.87	5.77	164.79	65.94	3.9	727.02	351.22	60	32	2.07	79.6087
28	0	1.33	0.96	3.92	67	32	2.89	172.82	103.48	52	26	1.67	40.11976

29	1	0.96	0.78	4.46	90.57	44.64	3.32	142.00	92.81	50	27	1.53	59.19608
30	0	1.42	1.13	5.74	163	112	4.89	382.23	208.87	31	14	1.83	89.07104
31	1	0.89	1.21	4.28	83	36	3	174.94	113.60	57	29	1.54	53.8961
32	0	1.19	0.74	3.99	68.83	42.03	3.23	136.11	97.22	40	19	1.4	49.16429
33	0	1.68	1.55	4.72	104	32	2.9	399.60	293.83	69	38	1.36	76.47059
34	0	1.28	1.48	5.12	124	54	3.57	355.69	267.44	57	30	1.33	93.23308
35	0	1.36	1.45	4.66	101	40	3.15	314.66	155.01	61	32	2.03	49.75369
36	0	1.49	1.56	5.11	124	68	3.97	412.70	230.56	45	23	1.79	69.27374
37	1	1.15	1.35	5.39	142	77	4.18	334.36	175.98	45	22	1.9	74.73684
38	0	0.96	1.02	4.88	112	54	3.56	201.28	126.59	52	27	1.59	70.44025
39	1	1.13	1.02	5.16	127.39		4.31	249.76	121.24	34	15	2.06	61.83981
40	0	1.7	1.65	4.71	104	41	3.18	422.28	295.30	61	32	1.43	72.72727
41	0	1.48	1.25	5.96	177	91	4.48	448.71	260.88	49	25	1.72	102.907
42	1	1.01	1.21	7.14	268	180	6	460.67	255.93	33	16	1.8	148.8889
43	1	0.85	1.19	5.39	140.71		3.8	250.12	136.68	56	30	1.83	76.89071
44	0	1.08	0.79	4.26	81	65	3.86	145.56	84.63	20	9	1.72	47.09302
45	1	1.53	1.02	4.03	71.18	33	2.95	214.62	140.27	54	26	1.53	46.52288
46	1	0.79	1.08	4.37	86.23	43.84	3.29	152.30	88.03	49	25	1.73	49.84393
47	0	1.2	1.21	4.38	86.73	37.89	3.1	224.58	112.29	56	29	2	43.365
48	0	0.7	0.94	3.57	53.51	27.78	2.73	86.16	70.05	48	24	1.23	43.50407
49	1	1.19	1.08	3.91	66.51	40.26	3.18	169.70	147.57	39	19	1.15	57.83478
50	1	1.34	1.09	5.23	131.48	87.89	4.4	305.06	202.02	33	16	1.51	87.07285
51	1	0.96	1.47	4.4	87.89	35	3	229.17	139.73	60	32	1.64	53.59146
52	0	1.63	1.77	5.89	172.31	65.94	3.89	607.73	306.93	62	34	1.98	87.02525
53	0	1.79	1.66	4.21	79	37	3.06	376.23	235.14	53	27	1.6	49.375
54	1	0.96	0.85	5.45	144.16	71.18	4.03	216.01	110.21	51	26	1.96	73.55102
55	0	1.45	1.11	6.89	246.75	188.87	6.13	523.90	274.29	23	11	1.91	129.1885
56	1	2.11	1.95	6.48	214.13	109.46	4.84	921.16	548.31	49	25	1.68	127.4583
57	0	1.13	1.36	4.37	86.23	47.58	3.4	235.35	204.65	45	22	1.15	74.98261
58	0	1.62	1.48	4.45	89.9	23.68	2.56	342.34	194.51	74	42	1.76	51.07955
59	0	0.85	1.3	4.09	73.59	29.04	2.78	167.93	98.79	61	32	1.7	43.28824
60	0	1.25	1.3	4.37	87	48	3.4	244.24	165.03	45	22	1.48	58.78378

61	0	0.51	0.91	5.56	151.17	78.52	4.2	161.32	102.75	48	24	1.57	96.28662
62	0	1.45	1.51	5.43	142.86	74.19	4.1	434.11	235.93	48	24	1.84	77.6413
63	0	1.08	1.41	5.32	136.69	86.73	4.38	325.24	180.69	37	18	1.8	75.93889
64	0	1.68	1.82	5.12	124.97	93.13	4.51	512.94	309.00	25	12	1.66	75.28313
65	0	1.21	1.06	5.39	142	75	4.11	290.98	157.29	47	23	1.85	76.75676
66	1	0.8	0.88	3.87	65	42	3.23	103.91	74.76	35	16	1.39	46.76259
67	0	1.33	1.01	6.57	220	134	5.3	427.10	275.55	39	19	1.55	141.9355
68	1	1.12	1.91	5.11	124.17	68.83	3.97	408.56	279.83	45	22	1.46	85.04795
69	0	2.03	2.03	5.62	154.74	82.65	4.29	745.12	380.16	47	24	1.96	78.94898
70	1	1.08	1.48	4.88	111.71	53.51	3.57	293.84	194.60	52	27	1.51	73.98013
71	0	1.06	1.35	4.82	108.71	52.5	3.55	262.99	144.50	52	26	1.82	59.73077
72	0	1.08	1.19	5.84	169.47	73.59	4.09	334.00	201.21	57	30	1.66	102.0904
73	0	1.25	1.08	4.77	106	95	3.86	245.75	129.34	39	19	1.9	55.78947
74	0	1.01	1.17	5.54	149	67	3.9	288.07	139.16	55	29	2.07	71.98068
75	1	1.51	1.25	6.09	186	129	5.18	472.38	248.62	31	14	1.9	97.89474
76	0	1.7	1.7	4.75	106	95	4.54	437.94	210.55	10	5	2.08	50.96154
77	0	1.33	1.56	7.49	297	149	5.54	712.53	326.85	50	26	2.18	136.2385
78	1	1.42	1.76	3.8	62.01	42.03	3.23	283.00	132.24	32	15	2.14	28.97664
79	1	0.85	1.21	5.67	158.36	81.04	4.26	277.19	137.22	49	25	2.02	78.39604
80	1											1.51	
81	1	0.96	0.89	4.53	94	47	3.38	159.80	88.78	50	25	1.8	52.22222
82	0	0.85	0.96	5.62	155	112	4.88	228.37	132.78	28	13	1.72	90.11628
83	0	1.01	1.09	5.7	159.72	101.39	4.68	287.33	140.16	37	18	2.05	77.9122
84	0	0.85	1.3	6.81	180.97	94.34	5.46	406.04	203.02	48	25	2	90.485
85	0	1.09	1.28	4.28	82	44.76	3.32	210.70	145.31	45	22	1.45	56.55172
86	0	1.09	1.01	6.55	220	196.93	6.24	367.25	225.31	11	5	1.63	134.9693
87	1	0.79	0.91	4.71	103	62	3.8	151.64	103.87	40	19	1.46	70.54795
88	1	1.93	1.36	5.96	177	115	4.94	589.33	332.96	35	17	1.77	100
89	0	1.72	1.4	5.7	159.72	101.39	4.68	507.37	293.28	37	18	1.73	92.3237
90	1	1.15	1.21	5.3	135.22	68.24	3.96	299.00	186.88	41	25	1.6	84.5125
91	0	0.85	0.99	5.39	140.71	38.53	3.12	216.60	120.33	73	42	1.8	78.17222
92	0	1.06	1.02	6.81	240	162	5.7	388.65	208.95	32	16	1.86	129.0323

93	0	0.7	1.21	5.43	134	86	4.34	231.16	133.62	40	20	1.73	77.45665
94	1	0.51	0.68	6.01	181	94	4.54	148.81	79.58	48	25	1.87	96.79144

Systolic dysfunction Ejection fraction(EF) <50
Left ventricular dilatation Cavity volume index >90,EF>/+50%
Concentric left ventricular hypertrophy(LVH) = Cavity volume index <90,>134LVMI M,>100 LVMI F
Normal left ventricle Cavity volume index<90, <134LVMI in males, <100 LVMI in females
LVSD left ventricular systolic dysfunction
FS fractional shortening
Lvesd left ventricular end systolic diameter
LVCVI left ventricular cavity volume index
LVM left ventricular mass (grammes)
LVMI left ventricular mass index(g/m2)
EF ejection fraction %
IVSTd interventricular septum thickness(cm)
PWTd posterior wall thickness(cm)
Deceleration time deceleration time of (e)
LVH left ventricular hypertrophy
LV-Dilation left ventricular dilation

VCD Ins vena cava diameter during inspiration/sniff(minimum diameter), exp expiration, BSA body surface area,IVCD/BSA inferior VCD indexed to BSA, Ci collapsibility index, Av average, SBP systolic blood pressure,PPp peripheral pulse pressure,PPc central pulse pressure,Aix Augmentation index,HR heart rate

APPENDIX 15 Inferior vena cava and arterial stiffness measurements

serial no.	VCD-Insp (mm)	VCD-exp (mm)	BSA	IVCD/BSA	VCDnorm (mm)	Ci(%)	Av officeSBP/5(mmHg)	Av office DBP(mm/Hg)	PPp	PPc	PWV(m/s)	AORTIC Aug.Ind(%)AG/PP	RADIAL Aug.Ind(%)P2/P1	Aortic Aix(%)AG/PP@HR75
1	16	21	1.8	11.67	19.60	23.81	120	95	25	22	6.9	30	143	19
2	15.8	19.5	1.88	10.37	16.00	18.97	100	70	30	25	5.9	39	164	41
3	9.7	15.7	1.58	9.94	10.10	38.22	130	90	40	26	5.7	15	118	10
4	15.7	24	2.13	11.27	20.60	34.58	80	60	20	17	4.4	37	158	32
5	14.3	18.9	1.82	10.38	14.80	24.34	100	70	30	20	6.9	14	116	14
6	15.2	23.5	1.89	12.43	19.20	35.32	140	90	50	46	3.1	36	156	25
7	5.1	18.7	2.24	8.35	12.80	72.73	102	70	32	20	7.1	11	113	10
8	18.5	26.6	1.94	13.71	23.70	30.45	140	90	50	41	6.3	31	146	30
9	17.4	27.5	2.16	12.73	26.30	36.72	134	94	40	28	6.6	14	116	9
10	7.4	14.2	1.88	7.55	14.00	47.89	83	61	22	14	7.9	4	104	1
11	9.6	15.6	1.89	8.25	11.70	38.46	144	91	53	47	7.3	39	164	35
12	9.5	17	1.67	10.18	16.10	44.12	144	90	54	48	8.2	43	175	41
13	14	21	1.5	14.00	17.80	33.33	164	110	54	47	6.2	46	186	42
14	12	19.8	2.29	8.65	15.00	39.39	116	85	31	21	6.1	19	124	27
15	12.2	27.7	2.08	13.32	21.00	55.96	183	121	62	52	9	43	175	36
16	10.7	19.8	2.2	9.00	15.90	45.96	132	88	44	28	6	9	109	5
17	18.1	24	1.67	14.37	20.20	24.58	120	80	40	35	5	36	156	34
18	14.3	24.4	1.99	12.24	14.70	41.39	100	76	24	19	5.8	34	152	29
19	12	22.4	1.64	13.66	16.00	46.43	142	102	40	30	6	27	138	16
20	8.8	20.4	1.78	11.46	12.30	56.86	92	67	25	15	9.3	4	104	9
21	7	17.4	1.61	10.81	13.40	59.77	130	90	40	35	6.6	36	156	30
22	20	23.3	1.73	13.47	22.30	14.16	124	87	37	30	7.4	30	143	29
23	13.7	17.6	1.54	11.43	16.40	22.16	111	81	30		5.5			
24	16.2	22.4	1.53	14.64	17.60	27.68	106	80	26	22	7.9	22	128	11
25	9.8	15.2	1.52	10.00	11.00	35.53	167	112	55	47	6.4	44	179	46
26	9.1	12	1.75	6.86	11.20	24.17	140	90	50	36	6.9	22	130	20
27	10.5	27.1	2.07	13.09	21.50	61.25	143	94	49	36	7.7	25	134	21
28	10	21.6	1.67	12.93	14.40	53.70	108	66	42	38	5.7	34	150	19

29	14.2	18.6	1.53	12.16	16.60	23.66	91	60	31	27	5	41	170	32
30	12.5	18.8	1.83	10.27	17.60	33.51	159	92	67	52	17.9	33	148	31
31	11.2	18.9	1.54	12.27	14.30	40.74	176	100	76	61	9.6	47	188	44
32	13.3	19.2	1.4	13.71	15.90	30.73	98	61	37	27	4.2	36	155	32
33	13.2	18.9	1.36	13.90	17.80	30.16	186	109	77	67	7	51	204	43
34	14.8	19.1	1.33	14.36	16.20	22.51	130	93	37	29	5.1	30	143	24
35	15.6	22.3	2.03	10.99	19.40	30.04	111	77	34	25	unable	18	122	11
36	14.1	22.7	1.79	12.68	22.40	37.89	172	105	67	53	6.6	28	140	19
37	17.4	22.2	1.9	11.68	20.20	21.62	171	110	61	54	7.9	42	172	33
38	11.3	17.1	1.59	10.75	13.50	33.92	146	112	34	30	5.9	36	157	31
39	16	20.1	2.06	9.76	17.40	20.40	112	83	29	26	5.6	33	148	24
40	13.1	19.8	1.43	13.85	15.20	33.84	150	100	50	37	5.6	23	130	27
41	14	28.3	1.72	16.45	22.50	50.53	146	102	44	39	7.3	35	153	34
42	14.8	22.3	1.8	12.39	16.20	33.63	156	70	86		8.2			
43	6.8	15.05	1.83	8.22	10.10	54.82	141	102	39	24	5.3	10	111	4
44	14.2	19.6	1.72	11.40	16.00	27.55	145	99	46	33	7	23	130	11
45	19.6	22.8	1.53	14.90	21.70	14.04	180	99	81	73	7.3	47	189	39
46	13.9	18.1	1.73	10.46	14.50	23.20	110	82	28	23	6.8	45	180	38
47	18.2	24.3	2	12.15	18.40	25.10	110	80	30	21	4.8	12	113	7
48	12.2	15.3	1.23	12.44	13.50	20.26	143	106	37	29	7.3	30	143	34
49	10.5	12	1.15	10.43	10.80	12.50	114	72	42	35	6.6	40	166	38
50	12	16.1	1.51	10.67	15.20	25.47	155	98	57	42	6.8	27	137	34
51	17.4	19.4	1.64	11.83	19.10	10.31	121	90	31	28	7.1	44	179	33
52	13	23.4	1.98	11.82	18.40	44.44	158	87	71	43	8.1	8	108	14
53	10.2	15.4	1.6	9.63	12.00	33.77	122	80	42	34	5.8	40	166	34
54	16.7	21.3	1.96	10.87	18.40	21.60	94	66	28	20	6.5	16	118	16
55	29.5	33.8	1.91	17.70	32.60	12.72	171	110	61	38	6.3	12	113	18
56	16.6	22.6	1.68	13.45	18.00	26.55	131	53	78	54	4.9	20	125	28
57	9.45	16.35	1.15	14.22	11.55	42.20								
58	12.3	23.1	1.76	13.13	16.90	46.75	118	76	42	29	5.8	30	143	24
59	11.75	20.2	1.7	11.88	18.15	41.83	170	99	71	42	6.4	9	110	21
60	7.9	19.9	1.48	13.45	11.05	60.30	136	97	39	32	8.8	32	137	32
61	13.1	17.4	1.57	11.08	14.75	24.71	114	93	21	12	5.1	3	103	15
62	8.05	18.45	1.84	10.03	10.45	56.37	151	99	52	37	5.7	16	118	5
63	7.2	13.95	1.8	7.75	10.75	48.39	131	90	41	37	7.8	47	188	37

64	15.7	23.7	1.66	14.28	21.20	33.76	174	106	68	59	8	45	181	33
65	11.55	21.3	1.85	11.51	15.85	45.77	162	110	52	48	7.8	34	151	29
66	6	14	1.39	10.07	12.30	57.14	116	89	27	23	7.1	33	149	29
67	7.65	16.7	1.55	10.77	11.00	54.19	170	112	58	48	5.5	31	144	26
68	12.5	16.97	1.46	11.62	14.95	26.34	112	80	32	19	5.3	9	110	19
69	16.15	23.4	1.96	11.94	17.35	30.98	198	109	89	71	6.1	32	147	24
70	6.65	13.6	1.51	9.01	10.75	51.10	135	90	45	39	6.7	48	192	38
71	12	20.25	1.82	11.13	12.30	40.74	125	80	45	26	6.5	-1	99	minus 4
72	5.5	12.6	1.66	7.59	9.05	56.34	169	82	87	82	8.3	39	165	26
73	9.35	14	1.9	7.37	12.60	33.21	149	70	79	60	10.3	21	127	14
74	19.25	26.5	2.07	12.8	26.10	27.36	171	110	61	50	10.9	31	146	29
75	9.4	17.35	1.9	9.13	14.85	45.82	112	42	70	50	7.2	-32	68	-28
76	10.3	18.05	2.08	8.68	11.85	42.94	160	114	46	41	10.7	37	158	29
77	13.3	23.1	2.18	10.60	17.15	42.42	120	81	39	26	6.1	13	115	13
78	11.8	24.65	2.14	11.52	16.70	52.13								
79	12.9	21.45	2.02	10.62	16.90	39.86	165	89	76	60	9.5	29	141	31
80	9	17.4	1.51	11.52	11.50	48.28	100	60	40	31	4.8	30	142	23
81	9.35	20.8	1.8	11.56	11.05	55.05	180	110	70	62	7.7	37	158	33
82	14.2	20.5	1.72	11.92	15.65	30.73	95	60	35	31	5.7	14	116	7
83	20.65	26.75	2.05	13.05	22.20	22.80	163	98	65	60		37	160	26
84	18.7	25.55	2	12.78	23.25	26.81	191	86	105	77	8.8	22	128	31
85	4.9	11	1.45	7.59	9.15	55.45	94	73	21	14	7.5	18	122	25
86	10	17.7	1.63	10.86	16.40	43.50	128	77	51	34	9.9	5	105	5
87			1.46		14.05		154	101	53	45	6.8	40	166	42
88	8.45	21.2	1.77	11.98	11.40	60.14	70	48	22	15	5.1	17	120	12
89	11.2	20.55	1.73	11.88	13.30	45.50	144	97	47	27	5.9	2	102	3
90	12.85	21.65	1.6	13.53	19.20	40.65	142	101	41	33	6.8	31	145	31
91	9.85	14.9	1.8	8.28	13.80	33.89	123	83	40	27	11.3	14	117	13
92	11.8	22.25	1.86	11.96	20.45	46.97	185	115	70	45	11	6	107	10
93	6.7	17.6	1.73	10.17	10.00	61.93	103	80	23	17	7.8	25	134	24
94	12.55	17.85	1.87	9.55	13.50	29.69	181	95	86	74	8.6	36	157	31

VCD Ins vena cava diameter during inspiration/sniff(minimum diameter), exp expiration, BSA body surface area, IVCD/BSA inferior VCD indexed to BSA, Ci collapsibility index, Av average, SBP systolic blood pressure, PPp peripheral pulse pressure, PPc central pulse pressure, Aix Augmentation index, HR heart rate