

IX. Physiological Examinations

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1) Cardiovascular system

1. Blood pressure and pulse rate
2. Electrocardiography
3. Ultrasonic cardiography
4. Intima-media thickness of carotid artery

l) Cardiovascular system

i. Blood pressure and pulse rate

(Automatic blood pressure analyzer, BP-204RV, Colin, Inc.,)

Systolic Blood Pressure (mmHg)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	119.0	13.5	132	120.5	16.8	103	123.6	16.8	151	127.9	19.8	126	119.8	18.6	26	122.7	17.2	538
Female	109.8	15.4	137	114.5	19.4	131	118.1	19.2	135	125.7	20.8	112	122.7	20.1	20	116.9	19.5	535
Total	114.3	15.2	269	117.2	18.5	234	121.0	18.1	286	126.9	20.3	238	121.0	19.1	46	119.8	18.6	1073

Diastolic Blood Pressure (mmHg)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	74.8	10.0	132	76.4	10.6	103	77.2	10.1	151	76.1	10.7	126	69.8	9.7	26	75.8	10.4	538
Female	67.5	9.4	137	71.3	11.5	131	72.0	10.8	135	74.7	11.7	112	70.6	12.3	20	71.2	11.1	535
Total	71.1	10.4	269	73.5	11.4	234	74.7	10.8	286	75.4	11.1	238	70.1	10.8	46	73.5	11.0	1073

Pulse Rate (/min)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	66.5	9.8	132	66.8	8.5	103	68.7	10.8	151	70.1	11.9	126	70.2	9.3	26	68.2	10.5	538
Female	71.5	10.8	137	71.5	9.5	131	71.6	11.0	135	73.2	10.0	112	73.8	6.4	20	72.0	10.2	535
Total	69.1	10.6	269	69.5	9.3	234	70.0	11.0	286	71.5	11.1	238	71.8	8.3	46	70.1	10.5	1073

2. Electrocardiography

(Automatic EKG analyzer, Kartizer5500, NEC Corp.,)

Heart Rate (/min)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	61.3	9.6	130	62.1	9.7	103	63.2	10.0	151	66.5	14.1	126	64.0	12.5	26	63.3	11.2	536
Female	64.7	10.0	137	64.1	8.2	130	64.3	10.1	135	66.0	9.7	112	65.6	5.9	19	64.7	9.4	533
Total	63.0	10.0	267	63.2	9.0	233	63.7	10.0	286	66.2	12.2	238	64.7	10.2	45	64.0	10.4	1069

PR-interval (msec)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	151.8	19.7	129	162.4	21.5	102	167.1	26.3	149	167.7	22.0	119	173.4	35.2	25	162.9	24.3	524
Female	144.7	17.7	137	154.9	20.7	130	155.8	21.8	134	157.2	20.3	111	160.2	27.8	19	153.1	21.0	531
Total	148.1	19.0	266	158.2	21.3	232	161.7	24.9	283	162.6	21.8	230	167.7	32.6	44	158.0	23.2	1055

QRS-width (msec)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	91.9	10.1	130	91.4	10.0	103	93.2	14.2	151	95.4	16.2	126	99.1	19.5	26	93.3	13.5	536
Female	83.9	10.5	137	85.4	11.3	130	84.8	8.2	135	86.3	13.8	112	86.9	17.3	19	85.1	11.3	533
Total	87.8	11.1	267	88.1	11.1	233	89.2	12.5	286	91.1	15.7	238	94.0	19.4	45	89.2	13.1	1069

QT-interval (msec)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	397.4	28.8	130	396.9	26.3	103	398.3	29.4	150	399.4	30.8	126	406.9	24.4	26	398.5	28.8	535
Female	399.4	29.8	137	403.6	26.5	130	405.2	31.4	135	403.6	27.5	112	403.4	27.9	19	402.9	28.9	533
Total	398.4	29.3	267	400.6	26.6	233	401.6	30.5	285	401.4	29.3	238	405.4	25.7	45	400.7	28.9	1068

QTc-interval (msec)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	398.1	18.8	130	400.8	19.4	103	405.0	18.1	150	415.4	23.9	126	416.3	24.6	26	405.5	21.4	535
Female	411.2	19.7	137	414.6	19.0	130	416.1	24.2	135	420.3	22.5	112	420.2	21.2	19	415.5	21.6	533
Total	404.8	20.3	267	408.5	20.4	233	410.2	21.9	285	417.7	23.3	238	418.0	23.1	45	410.5	22.0	1068

S (V1)-height (mV)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	-0.922	0.436	130	-0.780	0.430	102	-0.826	0.476	147	-0.737	0.419	119	-0.639	0.397	25	-0.812	0.446	523
Female	-0.908	0.347	137	-0.811	0.370	129	-0.774	0.374	132	-0.757	0.417	109	-0.859	0.567	19	-0.818	0.387	526
Total	-0.915	0.392	267	-0.798	0.397	231	-0.801	0.431	279	-0.747	0.417	228	-0.734	0.484	44	-0.815	0.417	1049

R (V5)-height (mV)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	1.599	0.550	130	1.656	0.557	103	1.758	0.641	151	1.861	0.702	126	1.862	0.767	26	1.729	0.633	536
Female	1.187	0.360	137	1.412	0.543	130	1.497	0.435	135	1.613	0.647	112	1.613	0.605	19	1.425	0.526	533
Total	1.387	0.505	267	1.520	0.561	233	1.635	0.568	286	1.745	0.686	238	1.757	0.707	45	1.577	0.601	1069

QRS-axis (degree)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	50.5	28.7	130	44.8	30.1	103	39.6	33.8	151	34.6	32.1	124	45.8	33.7	25	42.4	31.9	533
Female	55.4	30.3	137	48.6	28.1	129	37.4	29.0	134	28.2	30.4	112	15.1	28.6	19	42.0	31.4	531
Total	53.0	29.6	267	46.9	29.0	232	38.6	31.6	285	31.6	31.4	236	32.5	34.8	44	42.2	31.7	1064

P-axis (degree)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	47.7	28.5	124	53.1	27.1	101	51.9	28.6	147	53.8	28.1	114	57.5	33.1	24	51.8	28.4	510
Female	49.4	25.9	136	53.6	22.6	129	44.7	31.2	133	41.9	31.0	109	57.7	33.7	18	48.0	28.3	525
Total	48.6	27.1	260	53.4	24.6	230	48.5	30.0	280	48.0	30.1	223	57.6	33.0	42	49.9	28.4	1035

T-axis (degree)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	42.2	20.3	129	41.6	28.1	103	39.1	32.9	151	43.8	28.3	123	48.5	39.6	25	41.9	28.6	531
Female	35.5	24.3	136	37.8	28.4	127	40.1	20.9	132	35.7	31.2	110	41.8	35.5	19	37.5	26.6	524
Total	38.7	22.7	265	39.5	28.3	230	39.6	27.9	283	40.0	29.9	233	45.6	37.6	44	39.7	27.7	1055

CV of R-R

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	3.5	1.2	106	3.0	1.3	90	2.6	1.0	118	2.4	1.1	87	2.5	1.9	15	2.9	1.3	416
Female	3.5	1.3	120	3.0	1.1	114	2.7	1.1	118	2.5	1.3	85	2.8	1.9	13	3.0	1.3	450
Total	3.5	1.3	226	3.0	1.2	204	2.6	1.1	236	2.5	1.2	172	2.7	1.9	28	2.9	1.3	866

Minnesota Code

		40 - 49yr		50 - 59yr		60 - 69yr		70 - 79yr		80yr -		Total	
		N	%	N	%	N	%	N	%	N	%	N	%
Minnesota Code 1-0-0	Male	35	26.5	28	27.2	26	17.2	12	9.5	4	15.4	105	19.5
	Female	31	22.6	29	22.1	28	20.7	13	11.6	2	10.0	103	19.3
	Total	66	24.5	57	24.4	54	18.9	25	10.5	6	13.0	208	19.4
Minnesota Code 1-1-1	Male	0	0.0	0	0.0	0	0.0	1	0.8	0	0.0	1	0.2
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	1	0.1
Minnesota Code 1-1-2	Male	0	0.0	0	0.0	1	0.7	0	0.0	1	3.8	2	0.4
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	1	0.3	0	0.0	1	2.2	2	0.2
Minnesota Code 1-1-3	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	1	0.2
	Total	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0	1	0.1
Minnesota Code 1-1-4	Male	0	0.0	1	1.0	0	0.0	0	0.0	0	0.0	1	0.2
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	1	0.1
Minnesota Code 1-1-5	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Minnesota Code 1-1-6	Male	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	1	0.2
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0	1	0.1
Minnesota Code 1-1-7	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Minnesota Code 1-2-1	Male	0	0.0	1	1.0	0	0.0	0	0.0	0	0.0	1	0.2

(Continued)

Minnesota Code

		40 - 49yr		50 - 59yr		60 - 69yr		70 - 79yr		80yr -		Total	
		N	%	N	%	N	%	N	%	N	%	N	%
Minnesota Code 1-2-1	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	1	0.1
Minnesota Code 1-2-2	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Minnesota Code 1-2-3	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	1	0.8	0	0.0	0	0.0	0	0.0	1	0.2
	Total	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	1	0.1
Minnesota Code 1-2-4	Male	1	0.8	1	1.0	1	0.7	0	0.0	0	0.0	3	0.6
	Female	0	0.0	1	0.8	1	0.7	1	0.9	0	0.0	3	0.6
	Total	1	0.4	2	0.9	2	0.7	1	0.4	0	0.0	6	0.6
Minnesota Code 1-2-5	Male	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	1	0.2
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0	1	0.1
Minnesota Code 1-2-6	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Minnesota Code 1-2-7	Male	0	0.0	0	0.0	1	0.7	1	0.8	0	0.0	2	0.4
	Female	0	0.0	0	0.0	0	0.0	1	0.9	0	0.0	1	0.2
	Total	0	0.0	0	0.0	1	0.3	2	0.8	0	0.0	3	0.3
Minnesota Code 1-2-8	Male	1	0.8	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2
	Female	1	0.7	1	0.8	0	0.0	0	0.0	0	0.0	2	0.4
	Total	2	0.7	1	0.4	0	0.0	0	0.0	0	0.0	3	0.3
Minnesota Code 1-3-1	Male	0	0.0	0	0.0	0	0.0	0	0.0	1	3.8	1	0.2
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

(Continued)

Minnesota Code

		40 - 49yr		50 - 59yr		60 - 69yr		70 - 79yr		80yr -		Total	
		N	%	N	%	N	%	N	%	N	%	N	%
Minnesota Code 1-3-1	Total	0	0.0	0	0.0	0	0.0	0	0.0	1	2.2	1	0.1
Minnesota Code 1-3-2	Male	1	0.8	0	0.0	0	0.0	2	1.6	0	0.0	3	0.6
	Female	1	0.7	2	1.5	2	1.5	2	1.8	0	0.0	7	1.3
	Total	2	0.7	2	0.9	2	0.7	4	1.7	0	0.0	10	0.9
Minnesota Code 1-3-3	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	2	1.5	0	0.0	1	5.0	3	0.6
	Total	0	0.0	0	0.0	2	0.7	0	0.0	1	2.2	3	0.3
Minnesota Code 1-3-4	Male	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	1	0.2
	Female	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	1	0.2
	Total	0	0.0	0	0.0	2	0.7	0	0.0	0	0.0	2	0.2
Minnesota Code 1-3-5	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Minnesota Code 1-3-6	Male	0	0.0	0	0.0	6	4.0	3	2.4	1	3.8	10	1.9
	Female	1	0.7	1	0.8	2	1.5	8	7.1	2	10.0	14	2.6
	Total	1	0.4	1	0.4	8	2.8	11	4.6	3	6.5	24	2.2
Minnesota Code 2-1	Male	1	0.8	3	2.9	8	5.3	1	0.8	0	0.0	13	2.4
	Female	1	0.7	1	0.8	2	1.5	1	0.9	0	0.0	5	0.9
	Total	2	0.7	4	1.7	10	3.5	2	0.8	0	0.0	18	1.7
Minnesota Code 2-2	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Minnesota Code 2-3	Male	3	2.3	0	0.0	2	1.3	1	0.8	1	3.8	7	1.3
	Female	4	2.9	4	3.1	1	0.7	0	0.0	0	0.0	9	1.7
	Total	7	2.6	4	1.7	3	1.0	1	0.4	1	2.2	16	1.5

(Continued)

Minnesota Code

		40 - 49yr		50 - 59yr		60 - 69yr		70 - 79yr		80yr -		Total	
		N	%	N	%	N	%	N	%	N	%	N	%
Minnesota Code 2-4	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	1	0.7	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2
	Total	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
Minnesota Code 2-5	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	1	0.8	1	0.7	0	0.0	0	0.0	2	0.4
	Total	0	0.0	1	0.4	1	0.3	0	0.0	0	0.0	2	0.2
Minnesota Code 3-1	Male	4	3.0	4	3.9	15	9.9	17	13.5	4	15.4	44	8.2
	Female	0	0.0	8	6.1	2	1.5	8	7.1	2	10.0	20	3.7
	Total	4	1.5	12	5.1	17	5.9	25	10.5	6	13.0	64	6.0
Minnesota Code 3-2	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	1	0.8	1	0.7	0	0.0	0	0.0	2	0.4
	Total	0	0.0	1	0.4	1	0.3	0	0.0	0	0.0	2	0.2
Minnesota Code 3-3-1	Male	1	0.8	1	1.0	3	2.0	0	0.0	0	0.0	5	0.9
	Female	0	0.0	2	1.5	2	1.5	1	0.9	0	0.0	5	0.9
	Total	1	0.4	3	1.3	5	1.7	1	0.4	0	0.0	10	0.9
Minnesota Code 3-3-2	Male	8	6.1	5	4.9	10	6.6	5	4.0	1	3.8	29	5.4
	Female	2	1.5	4	3.1	5	3.7	6	5.4	0	0.0	17	3.2
	Total	10	3.7	9	3.8	15	5.2	11	4.6	1	2.2	46	4.3
Minnesota Code 3-4	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Minnesota Code 4-1-1	Male	0	0.0	0	0.0	2	1.3	2	1.6	1	3.8	5	0.9
	Female	0	0.0	1	0.8	0	0.0	0	0.0	0	0.0	1	0.2
	Total	0	0.0	1	0.4	2	0.7	2	0.8	1	2.2	6	0.6
Minnesota Code 4-1-2	Male	2	1.5	2	1.9	4	2.6	2	1.6	1	3.8	11	2.0

(Continued)

Minnesota Code

		40 - 49yr		50 - 59yr		60 - 69yr		70 - 79yr		80yr -		Total	
		N	%	N	%	N	%	N	%	N	%	N	%
Minnesota Code 4-1-2	Female	2	1.5	3	2.3	3	2.2	3	2.7	0	0.0	11	2.1
	Total	4	1.5	5	2.1	7	2.4	5	2.1	1	2.2	22	2.1
Minnesota Code 4-2	Male	2	1.5	3	2.9	5	3.3	9	7.1	3	11.5	22	4.1
	Female	0	0.0	8	6.1	4	3.0	10	8.9	2	10.0	24	4.5
	Total	2	0.7	11	4.7	9	3.1	19	8.0	5	10.9	46	4.3
Minnesota Code 4-3	Male	0	0.0	9	8.7	16	10.6	25	19.8	3	11.5	53	9.9
	Female	9	6.6	17	13.0	18	13.3	27	24.1	4	20.0	75	14.0
	Total	9	3.3	26	11.1	34	11.9	52	21.8	7	15.2	128	11.9
Minnesota Code 4-4	Male	2	1.5	0	0.0	2	1.3	2	1.6	1	3.8	7	1.3
	Female	1	0.7	1	0.8	1	0.7	3	2.7	1	5.0	7	1.3
	Total	3	1.1	1	0.4	3	1.0	5	2.1	2	4.3	14	1.3
Minnesota Code 5-1	Male	0	0.0	1	1.0	2	1.3	0	0.0	0	0.0	3	0.6
	Female	1	0.7	1	0.8	0	0.0	0	0.0	0	0.0	2	0.4
	Total	1	0.4	2	0.9	2	0.7	0	0.0	0	0.0	5	0.5
Minnesota Code 5-2	Male	2	1.5	4	3.9	11	7.3	7	5.6	1	3.8	25	4.6
	Female	4	2.9	9	6.9	9	6.7	8	7.1	2	10.0	32	6.0
	Total	6	2.2	13	5.6	20	7.0	15	6.3	3	6.5	57	5.3
Minnesota Code 5-3	Male	0	0.0	1	1.0	7	4.6	3	2.4	0	0.0	11	2.0
	Female	3	2.2	5	3.8	5	3.7	12	10.7	3	15.0	28	5.2
	Total	3	1.1	6	2.6	12	4.2	15	6.3	3	6.5	39	3.6
Minnesota Code 5-4	Male	3	2.3	2	1.9	8	5.3	8	6.3	2	7.7	23	4.3
	Female	2	1.5	9	6.9	6	4.4	12	10.7	1	5.0	30	5.6
	Total	5	1.9	11	4.7	14	4.9	20	8.4	3	6.5	53	4.9
Minnesota Code 5-5	Male	6	4.5	2	1.9	13	8.6	10	7.9	1	3.8	32	5.9
	Female	5	3.6	13	9.9	19	14.1	21	18.8	0	0.0	58	10.8

(Continued)

Minnesota Code

		40 - 49yr		50 - 59yr		60 - 69yr		70 - 79yr		80yr -		Total	
		N	%	N	%	N	%	N	%	N	%	N	%
Minnesota Code 5-5	Total	11	4.1	15	6.4	32	11.2	31	13.0	1	2.2	90	8.4
Minnesota Code 6-1	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Minnesota Code 6-2-1	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Minnesota Code 6-2-3	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Minnesota Code 6-3	Male	0	0.0	1	1.0	6	4.0	2	1.6	1	3.8	10	1.9
	Female	0	0.0	0	0.0	0	0.0	0	0.0	1	5.0	1	0.2
	Total	0	0.0	1	0.4	6	2.1	2	0.8	2	4.3	11	1.0
Minnesota Code 6-4-1	Male	1	0.8	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2
	Female	2	1.5	0	0.0	0	0.0	0	0.0	1	5.0	3	0.6
	Total	3	1.1	0	0.0	0	0.0	0	0.0	1	2.2	4	0.4
Minnesota Code 6-5	Male	2	1.5	0	0.0	2	1.3	1	0.8	1	3.8	6	1.1
	Female	10	7.3	1	0.8	5	3.7	6	5.4	1	5.0	23	4.3
	Total	12	4.5	1	0.4	7	2.4	7	2.9	2	4.3	29	2.7
Minnesota Code 6-8	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Minnesota Code 7-1-1	Male	1	0.8	0	0.0	0	0.0	1	0.8	1	3.8	3	0.6
	Female	0	0.0	0	0.0	0	0.0	0	0.0	1	5.0	1	0.2
	Total	1	0.4	0	0.0	0	0.0	1	0.4	2	4.3	4	0.4

(Continued)

Minnesota Code

		40 - 49yr		50 - 59yr		60 - 69yr		70 - 79yr		80yr -		Total	
		N	%	N	%	N	%	N	%	N	%	N	%
Minnesota Code 7-2-1	Male	0	0.0	1	1.0	7	4.6	10	7.9	3	11.5	21	3.9
	Female	0	0.0	3	2.3	0	0.0	5	4.5	1	5.0	9	1.7
	Total	0	0.0	4	1.7	7	2.4	15	6.3	4	8.7	30	2.8
Minnesota Code 7-3	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Minnesota Code 7-4	Male	0	0.0	1	1.0	0	0.0	0	0.0	0	0.0	1	0.2
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	1	0.1
Minnesota Code 7-5	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Minnesota Code 7-6	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Minnesota Code 7-7	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	1	0.9	0	0.0	1	0.2
	Total	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	1	0.1
Minnesota Code 7-8	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Minnesota Code 8-1-1	Male	0	0.0	0	0.0	0	0.0	1	0.8	0	0.0	1	0.2
	Female	0	0.0	1	0.8	0	0.0	2	1.8	0	0.0	3	0.6
	Total	0	0.0	1	0.4	0	0.0	3	1.3	0	0.0	4	0.4
Minnesota Code 8-1-2	Male	2	1.5	0	0.0	2	1.3	2	1.6	1	3.8	7	1.3

(Continued)

Minnesota Code

		40 - 49yr		50 - 59yr		60 - 69yr		70 - 79yr		80yr -		Total	
		N	%	N	%	N	%	N	%	N	%	N	%
Minnesota Code 8-1-2	Female	0	0.0	0	0.0	0	0.0	3	2.7	0	0.0	3	0.6
	Total	2	0.7	0	0.0	2	0.7	5	2.1	1	2.2	10	0.9
Minnesota Code 8-1-3	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Minnesota Code 8-2-2	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Minnesota Code 8-2-3	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Minnesota Code 8-3-1	Male	0	0.0	1	1.0	1	0.7	7	5.6	1	3.8	10	1.9
	Female	0	0.0	0	0.0	1	0.7	1	0.9	0	0.0	2	0.4
	Total	0	0.0	1	0.4	2	0.7	8	3.4	1	2.2	12	1.1
Minnesota Code 8-3-2	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Minnesota Code 8-4-1	Male	0	0.0	1	1.0	1	0.7	2	1.6	0	0.0	4	0.7
	Female	0	0.0	0	0.0	1	0.7	1	0.9	0	0.0	2	0.4
	Total	0	0.0	1	0.4	2	0.7	3	1.3	0	0.0	6	0.6
Minnesota Code 8-4-2	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Minnesota Code 8-5-2	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

(Continued)

Minnesota Code

		40 - 49yr		50 - 59yr		60 - 69yr		70 - 79yr		80yr -		Total	
		N	%	N	%	N	%	N	%	N	%	N	%
Minnesota Code 8-5-2	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Minnesota Code 8-7	Male	0	0.0	0	0.0	0	0.0	3	2.4	0	0.0	3	0.6
	Female	0	0.0	0	0.0	2	1.5	2	1.8	0	0.0	4	0.7
	Total	0	0.0	0	0.0	2	0.7	5	2.1	0	0.0	7	0.7
Minnesota Code 8-8	Male	11	8.3	3	2.9	10	6.6	6	4.8	4	15.4	34	6.3
	Female	6	4.4	3	2.3	5	3.7	1	0.9	0	0.0	15	2.8
	Total	17	6.3	6	2.6	15	5.2	7	2.9	4	8.7	49	4.6
Minnesota Code 8-9	Male	1	0.8	3	2.9	7	4.6	14	11.1	4	15.4	29	5.4
	Female	6	4.4	2	1.5	11	8.1	5	4.5	3	15.0	27	5.0
	Total	7	2.6	5	2.1	18	6.3	19	8.0	7	15.2	56	5.2
Minnesota Code 9-1	Male	2	1.5	1	1.0	12	7.9	8	6.3	4	15.4	27	5.0
	Female	6	4.4	10	7.6	2	1.5	6	5.4	0	0.0	24	4.5
	Total	8	3.0	11	4.7	14	4.9	14	5.9	4	8.7	51	4.8
Minnesota Code 9-2	Male	12	9.1	10	9.7	11	7.3	4	3.2	1	3.8	38	7.1
	Female	0	0.0	2	1.5	0	0.0	1	0.9	0	0.0	3	0.6
	Total	12	4.5	12	5.1	11	3.8	5	2.1	1	2.2	41	3.8
Minnesota Code 9-3-1	Male	0	0.0	0	0.0	0	0.0	1	0.8	0	0.0	1	0.2
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	1	0.1
Minnesota Code 9-3-2	Male	0	0.0	0	0.0	1	0.7	1	0.8	0	0.0	2	0.4
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	1	0.3	1	0.4	0	0.0	2	0.2
Minnesota Code 9-4-1	Male	67	50.8	52	50.5	70	46.4	65	51.6	11	42.3	265	49.3
	Female	84	61.3	67	51.1	75	55.6	65	58.0	9	45.0	300	56.1
	Total	151	56.1	119	50.9	145	50.7	130	54.6	20	43.5	565	52.7

(Continued)

Minnesota Code

		40 - 49yr		50 - 59yr		60 - 69yr		70 - 79yr		80yr -		Total	
		N	%	N	%	N	%	N	%	N	%	N	%
Minnesota Code 9-4-2	Male	4	3.0	0	0.0	12	7.9	13	10.3	3	11.5	32	5.9
	Female	3	2.2	11	8.4	5	3.7	7	6.3	0	0.0	26	4.9
	Total	7	2.6	11	4.7	17	5.9	20	8.4	3	6.5	58	5.4
Minnesota Code 9-5	Male	15	11.4	12	11.7	6	4.0	7	5.6	0	0.0	40	7.4
	Female	0	0.0	0	0.0	0	0.0	1	0.9	0	0.0	1	0.2
	Total	15	5.6	12	5.1	6	2.1	8	3.4	0	0.0	41	3.8
Minnesota Code 9-8-1	Male	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total	Male	132	100.0	103	100.0	151	100.0	126	100.0	26	100.0	538	100.0
	Female	137	100.0	131	100.0	135	100.0	112	100.0	20	100.0	535	100.0
	Total	269	100.0	234	100.0	286	100.0	238	100.0	46	100.0	1073	100.0

3. Ultrasonic cardiography

(Ultrasonic tomography, EUB-655, Hitachi Medical Corp.,)

Aortic Dimension (AOD) (mm)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	28.76	3.58	132	29.87	3.45	103	31.02	3.48	149	30.12	3.34	126	30.09	3.45	26	29.98	3.55	536
Female	25.27	2.97	136	26.51	3.40	130	27.29	2.93	135	27.85	3.10	111	26.80	3.36	20	26.68	3.24	532
Total	26.99	3.71	268	28.00	3.80	233	29.25	3.73	284	29.06	3.42	237	28.66	3.76	46	28.34	3.78	1068

Left Atrium Dimension (LAD) (mm)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	33.37	4.35	132	35.16	3.96	103	35.87	5.22	149	37.04	6.61	126	36.49	6.53	26	35.42	5.40	536
Female	30.53	4.39	136	32.24	4.71	130	34.21	4.12	135	35.98	5.09	111	37.25	7.83	20	33.27	5.17	532
Total	31.93	4.59	268	33.53	4.62	233	35.08	4.80	284	36.54	5.96	237	36.82	7.05	46	34.35	5.39	1068

LAD/AOD Ratio

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	1.17	0.18	132	1.18	0.16	103	1.16	0.19	149	1.23	0.22	126	1.22	0.23	26	1.19	0.19	536
Female	1.21	0.18	136	1.22	0.20	130	1.26	0.19	135	1.30	0.23	111	1.39	0.24	20	1.25	0.21	532
Total	1.19	0.18	268	1.21	0.19	233	1.21	0.20	284	1.27	0.23	237	1.29	0.25	46	1.22	0.20	1068

E-wave Amplitude (mm)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	21.68	3.55	132	20.51	3.62	103	19.06	3.30	149	17.91	3.10	122	17.72	2.86	25	19.67	3.66	531
Female	19.81	3.13	136	18.55	3.02	131	17.63	3.40	131	16.37	3.05	110	15.58	4.03	18	18.09	3.44	526
Total	20.73	3.46	268	19.41	3.43	234	18.39	3.41	280	17.18	3.16	232	16.83	3.52	43	18.88	3.63	1057

A-wave Amplitude (mm)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	17.36	2.87	132	17.08	3.40	103	16.54	3.14	149	15.94	3.07	122	16.06	2.48	25	16.69	3.12	531
Female	15.23	3.01	136	15.28	2.94	131	15.02	3.06	131	14.60	2.87	110	13.64	3.20	18	15.00	3.00	526
Total	16.28	3.13	268	16.07	3.27	234	15.83	3.19	280	15.30	3.05	232	15.05	3.02	43	15.85	3.17	1057

Diastolic Descent Rate (DDR) (mm/s)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	97.4	24.3	132	86.6	24.9	103	70.2	24.4	149	57.4	23.2	122	59.8	23.2	25	76.7	28.6	531
Female	91.4	22.0	136	75.4	22.9	131	63.5	21.2	130	54.3	19.4	110	48.9	17.7	18	71.3	25.6	525
Total	94.4	23.3	268	80.4	24.4	234	67.1	23.2	279	55.9	21.5	232	55.2	21.6	43	74.0	27.3	1056

A/E Ratio

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	0.803	0.125	132	0.830	0.105	103	0.868	0.111	149	0.895	0.150	122	0.908	0.110	25	0.853	0.128	531
Female	0.764	0.098	136	0.817	0.102	131	0.852	0.102	131	0.892	0.106	110	0.878	0.085	18	0.830	0.111	526
Total	0.783	0.113	268	0.823	0.103	234	0.861	0.107	280	0.893	0.131	232	0.896	0.100	43	0.841	0.120	1057

Left Ventricular End-diastolic Dimension (LVEdD) (mm)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	48.23	4.88	131	47.66	3.99	103	46.56	4.39	143	46.57	4.44	115	44.77	4.28	22	47.13	4.52	514
Female	43.91	3.96	136	43.47	4.15	131	44.15	4.51	128	44.59	4.83	103	44.71	5.83	16	44.02	4.40	514
Total	46.03	4.93	267	45.31	4.58	234	45.42	4.60	271	45.63	4.72	218	44.74	4.92	38	45.57	4.72	1028

Left Ventricular End-systolic Dimension (LVEsD) (mm)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	30.33	4.57	131	29.39	4.26	103	28.77	4.41	143	28.38	4.46	115	26.74	3.73	22	29.12	4.48	514
Female	26.07	3.61	136	25.83	3.73	131	26.00	4.96	128	26.90	5.24	103	25.90	6.47	16	26.15	4.46	514
Total	28.16	4.62	267	27.40	4.34	234	27.46	4.87	271	27.68	4.89	218	26.39	5.01	38	27.63	4.71	1028

Left Ventricular Posterior Wall Thickness at end-diastole (LVPWd) (mm)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	9.91	1.90	131	10.44	1.77	103	10.63	2.02	143	10.48	2.46	115	11.17	2.39	22	10.40	2.08	514
Female	8.82	1.58	136	9.43	1.66	131	9.54	1.83	128	10.05	2.29	103	10.25	2.26	16	9.45	1.89	514
Total	9.36	1.83	267	9.88	1.78	234	10.12	2.00	271	10.28	2.38	218	10.78	2.35	38	9.92	2.05	1028

Left Ventricular Posterior Wall Thickness at end-systole (LVPWs) (mm)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	16.86	2.53	131	17.76	2.65	103	18.16	2.85	143	18.19	3.36	115	18.63	2.85	22	17.77	2.90	514
Female	15.38	2.27	136	16.33	2.67	131	16.86	2.92	128	16.98	2.75	103	17.59	4.44	16	16.38	2.79	514
Total	16.10	2.51	267	16.96	2.75	234	17.54	2.95	271	17.62	3.14	218	18.19	3.59	38	17.08	2.93	1028

Interventricular Septum Diastolic Thickness (IVSd) (mm)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	11.33	2.31	131	12.08	2.23	103	12.57	2.45	143	12.95	2.63	115	13.04	2.56	22	12.26	2.49	514
Female	9.79	1.92	136	10.62	2.13	131	11.06	2.31	128	11.89	2.33	103	11.93	3.10	16	10.81	2.32	514
Total	10.55	2.25	267	11.26	2.29	234	11.86	2.50	271	12.45	2.54	218	12.57	2.82	38	11.53	2.51	1028

Interventricular Septum Systolic Thickness (IVSs) (mm)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	15.16	2.21	131	15.79	2.33	103	16.40	2.47	143	16.76	2.67	115	16.79	2.55	22	16.06	2.50	514
Female	13.23	1.98	136	14.20	2.33	131	14.68	2.53	128	15.65	2.02	103	15.93	3.01	16	14.41	2.42	514
Total	14.17	2.30	267	14.90	2.45	234	15.59	2.63	271	16.24	2.44	218	16.43	2.75	38	15.23	2.59	1028

Left Ventricular End-diastolic Volume (LVEDV) (ml)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	109.97	25.78	131	106.45	20.82	103	101.10	21.77	143	101.18	22.13	115	92.23	20.04	22	104.07	23.05	514
Female	88.08	18.29	136	86.17	19.23	131	89.55	21.44	128	91.78	22.86	103	92.99	30.93	16	88.85	20.78	514
Total	98.82	24.80	267	95.10	22.31	234	95.64	22.33	271	96.74	22.91	218	92.55	24.82	38	96.46	23.22	1028

Left Ventricular End-systolic Volume (LVEsV) (ml)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	37.21	13.92	131	34.37	12.20	103	32.76	11.97	143	31.73	12.32	115	27.16	9.31	22	33.75	12.72	514
Female	25.52	8.64	136	25.02	8.96	131	25.61	12.07	128	28.39	13.83	103	26.79	17.73	16	26.03	11.17	514
Total	31.25	12.92	267	29.13	11.47	234	29.38	12.52	271	30.16	13.13	218	27.00	13.29	38	29.89	12.57	1028

Stroke Volume (SV) (ml)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	72.98	15.66	131	72.33	13.32	103	68.54	14.59	143	69.66	14.99	115	65.28	15.48	22	70.54	14.86	514
Female	62.70	12.69	136	61.24	14.03	131	64.05	13.57	128	63.50	14.68	103	66.28	16.36	16	62.94	13.78	514
Total	67.75	15.10	267	66.12	14.76	234	66.42	14.27	271	66.75	15.12	218	65.70	15.65	38	66.74	14.82	1028

Cardiac Output (CO) (l/min)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	4.40	0.99	131	4.36	0.88	103	4.18	0.99	143	4.41	1.18	115	3.97	1.30	22	4.31	1.03	514
Female	4.02	0.96	136	3.83	0.97	131	3.91	0.93	128	4.07	1.01	103	4.15	1.05	16	3.96	0.97	514
Total	4.21	0.99	267	4.06	0.96	234	4.05	0.97	271	4.25	1.11	218	4.04	1.19	38	4.14	1.02	1028

Ejection Fraction (EF) (%)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	66.79	6.71	131	68.25	7.17	103	68.09	7.56	143	69.16	7.73	115	70.59	7.08	22	68.14	7.33	514
Female	71.37	5.98	136	71.24	6.72	131	72.21	7.92	128	69.98	9.39	103	73.01	9.64	16	71.32	7.57	514
Total	69.12	6.74	267	69.93	7.07	234	70.03	7.99	271	69.55	8.54	218	71.61	8.22	38	69.73	7.62	1028

Fractional Shortening (FS) (%)

	40 - 49yr			50 - 59yr			60 - 69yr			70 - 79yr			80yr -			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	37.25	5.14	131	38.44	5.74	103	38.28	6.15	143	39.16	6.16	115	40.21	6.11	22	38.33	5.86	514
Female	40.69	5.07	136	40.61	5.57	131	41.64	6.75	128	39.93	7.52	103	42.58	8.16	16	40.82	6.29	514
Total	39.00	5.38	267	39.66	5.74	234	39.87	6.64	271	39.53	6.83	218	41.21	7.04	38	39.57	6.20	1028