

# IX. Physiological Examinations

## 1. Blood pressure and pulse rate

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

## 2. Pulse Wave Velocity and Ankle-Brachial Index (from the 5th wave examination)

(Form PWV/ABI, Colin, Inc.,)

## 3. Electrocardiography

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

## 4. Intima-media thickness of carotid artery

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

### 1. 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	119.8	14.2	268	121.6	14.2	265	121.5	15.6	283	124.2	17.8	261	130.7	18.5	99	122.5	16.0	1176
Female	108.4	13.9	276	112.8	16.8	258	118.9	18.2	265	125.8	17.9	246	126.9	18.2	105	117.3	18.2	1150
Total	114.0	15.1	544	117.3	16.2	523	120.3	16.9	548	125.0	17.8	507	128.7	18.4	204	119.9	17.3	2326

#### 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	75.2	9.2	268	77.6	9.0	265	76.1	9.4	283	74.7	10.3	261	75.7	10.8	99	75.9	9.6	1176
Female	66.6	9.4	276	70.0	10.2	258	73.0	10.6	265	74.3	10.2	246	72.6	10.4	105	71.0	10.5	1150
Total	70.9	10.3	544	73.8	10.3	523	74.6	10.1	548	74.5	10.2	507	74.1	10.7	204	73.5	10.4	2326

#### 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	67.2	10.2	268	67.5	10.7	265	67.0	9.9	283	69.8	11.5	261	70.4	11.8	99	68.1	10.8	1176
Female	71.1	10.1	276	70.2	10.2	258	71.2	9.8	265	71.7	10.3	246	73.8	10.8	105	71.3	10.2	1150
Total	69.2	10.3	544	68.9	10.6	523	69.0	10.1	548	70.7	10.9	507	72.2	11.4	204	69.7	10.6	2326

### 2. Pulse Wave Velocity and Ankle-Brachial Index (from the 5th wave examination)

(Form PWV/ABI, Colin, Inc., )

#### rt Pulse Wave Velocity (cm/sec)

	40-49yr	50-59yr	60-69yr	70-79yr	80yr-	Total
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Male	61.8	10.1	257	61.1	9.3	274	61.5	9.6	276	64.2	11.7	270	66.0	11.7	96	62.5	10.4	1173
Female	65.1	9.6	262	63.3	9.3	249	63.4	8.6	271	65.5	11.0	249	67.2	9.7	97	64.6	9.7	1128
Total	63.5	10.0	519	62.1	9.4	523	62.4	9.2	547	64.8	11.3	519	66.6	10.7	193	63.5	10.1	2301

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	156.8	23.6	256	161.8	22.8	272	167.1	25.7	272	169.7	27.0	254	177.0	31.1	87	164.8	26.0	1141
Female	148.2	20.6	261	152.6	19.8	248	160.7	22.3	270	161.1	22.4	246	163.3	27.5	94	156.3	22.6	1119
Total	152.4	22.5	517	157.4	21.9	520	163.9	24.2	542	165.5	25.2	500	169.9	30.0	181	160.6	24.7	2260

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	91.8	11.8	257	92.2	11.0	274	93.9	15.4	276	94.3	17.7	270	97.9	19.6	96	93.5	14.8	1173
Female	82.0	9.4	262	84.8	11.0	249	84.6	10.9	271	86.7	14.5	249	86.4	15.8	97	84.7	12.1	1128
Total	86.8	11.7	519	88.7	11.6	523	89.3	14.1	547	90.7	16.7	519	92.1	18.7	193	89.2	14.2	2301

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	395.4	28.5	257	400.6	28.5	274	401.8	29.1	276	404.3	33.3	270	405.0	41.0	96	400.9	31.1	1173
Female	398.3	28.2	262	403.2	29.1	249	406.2	26.7	271	407.9	32.4	249	403.1	33.2	97	403.8	29.6	1128
Total	396.9	28.4	519	401.9	28.8	523	404.0	28.0	547	406.0	32.9	519	404.1	37.2	193	402.4	30.4	2301

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	397.6	19.7	257	401.0	21.5	274	403.5	21.9	276	414.0	25.5	270	420.2	30.2	96	405.4	24.1	1173
Female	411.9	21.5	262	410.9	20.3	249	414.9	21.1	271	422.0	22.2	249	422.8	24.1	96	415.6	22.0	1127
Total	404.8	21.9	519	405.7	21.5	523	409.2	22.2	547	417.8	24.3	519	421.5	27.3	192	410.4	23.7	2300

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	-0.878	0.423	255	-0.855	0.386	271	-0.767	0.394	272	-0.765	0.425	257	-0.801	0.479	91	-0.815	0.415	1146
Female	-0.875	0.354	262	-0.824	0.390	244	-0.742	0.362	266	-0.767	0.405	236	-0.771	0.428	93	-0.800	0.385	1101
Total	-0.876	0.389	517	-0.840	0.388	515	-0.754	0.379	538	-0.766	0.415	493	-0.786	0.453	184	-0.807	0.401	2247

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	1.670	0.550	257	1.732	0.535	274	1.785	0.626	276	1.809	0.695	269	1.915	0.789	94	1.763	0.625	1170
Female	1.246	0.451	262	1.420	0.531	249	1.540	0.474	271	1.644	0.602	249	1.638	0.637	97	1.477	0.548	1128
Total	1.456	0.545	519	1.583	0.555	523	1.664	0.569	547	1.730	0.657	518	1.775	0.727	191	1.623	0.605	2298

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	51.7	30.6	257	44.6	28.6	273	37.2	33.7	276	32.8	38.5	270	32.9	37.3	96	40.7	34.2	1172
Female	59.7	24.4	260	49.8	30.0	247	39.5	27.2	271	27.7	30.2	249	24.3	32.7	96	42.6	31.1	1123
Total	55.8	27.9	517	47.1	29.4	520	38.3	30.7	547	30.4	34.9	519	28.6	35.2	192	41.6	32.7	2295

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	51.0	26.9	252	52.0	26.0	265	54.9	21.5	266	52.4	31.2	248	51.4	35.3	85	52.5	27.3	1116
Female	53.0	27.7	258	51.5	26.0	243	50.0	27.0	269	48.2	28.0	243	51.4	28.9	93	50.8	27.3	1106
Total	52.0	27.3	510	51.7	26.0	508	52.5	24.5	535	50.3	29.7	491	51.4	32.0	178	51.6	27.3	2222

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	40.1	25.8	257	38.9	29.1	273	40.3	29.7	273	45.1	33.0	262	48.5	40.6	88	41.7	30.6	1153
Female	36.5	25.7	260	40.2	26.5	247	38.1	30.9	267	36.0	26.9	245	44.9	34.6	95	38.3	28.3	1114
Total	38.3	25.8	517	39.5	27.9	520	39.2	30.3	540	40.7	30.5	507	46.7	37.5	183	40.0	29.6	2267

Minnesota Code

		40-49yr		50-59yr		60-69yr		70-79yr		80yr-		Total	
		N	%	N	%	N	%	N	%	N	%	N	%
Minnesota Code 1-0-0	Male	51	19.8	47	17.2	41	14.9	24	8.9	5	5.2	168	14.3
	Female	57	21.8	42	16.9	47	17.3	25	10.0	12	12.2	183	16.2
	Total	108	20.8	89	17.0	88	16.1	49	9.4	17	8.8	351	15.2
Minnesota Code 1-1-1	Male	0	0.0	0	0.0	1	0.4	4	1.5	0	0.0	5	0.4
	Female	0	0.0	1	0.4	0	0.0	1	0.4	1	1.0	3	0.3
	Total	0	0.0	1	0.2	1	0.2	5	1.0	1	0.5	8	0.3
Minnesota Code 1-1-2	Male	0	0.0	0	0.0	1	0.4	1	0.4	0	0.0	2	0.2
	Female	0	0.0	0	0.0	0	0.0	1	0.4	1	1.0	2	0.2
	Total	0	0.0	0	0.0	1	0.2	2	0.4	1	0.5	4	0.2
Minnesota Code 1-1-3	Male	0	0.0	1	0.4	1	0.4	3	1.1	1	1.0	6	0.5
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	1	0.2	1	0.2	3	0.6	1	0.5	6	0.3
Minnesota Code 1-1-4	Male	0	0.0	1	0.4	0	0.0	2	0.7	0	0.0	3	0.3
	Female	0	0.0	0	0.0	0	0.0	3	1.2	2	2.0	5	0.4
	Total	0	0.0	1	0.2	0	0.0	5	1.0	2	1.0	8	0.3
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	1	0.4	1	0.4	2	0.7	1	1.0	5	0.4
	Female	0	0.0	0	0.0	0	0.0	0	0.0	1	1.0	1	0.1
	Total	0	0.0	1	0.2	1	0.2	2	0.4	2	1.0	6	0.3
Minnesota Code 1-1-7	Male	0	0.0	0	0.0	1	0.4	0	0.0	1	1.0	2	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	0.2	0	0.0	1	0.5	2	0.1
Minnesota Code 1-2-1	Male	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	1	0.1
	Female	0	0.0	0	0.0	0	0.0	0	0.0	1	1.0	1	0.1
	Total	0	0.0	0	0.0	0	0.0	1	0.2	1	0.5	2	0.1

Minnesota Code 1-2-2	Male	0	0.0	0	0.0	0	0.0	0	0.0	1	1.0	1	0.1
	Female	0	0.0	0	0.0	0	0.0	0	0.0	2	2.0	2	0.2
	Total	0	0.0	0	0.0	0	0.0	0	0.0	3	1.5	3	0.1
Minnesota Code 1-2-3	Male	0	0.0	0	0.0	2	0.7	0	0.0	1	1.0	3	0.3
	Female	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
	Total	1	0.2	0	0.0	2	0.4	0	0.0	1	0.5	4	0.2
Minnesota Code 1-2-4	Male	2	0.8	4	1.5	0	0.0	2	0.7	0	0.0	8	0.7
	Female	0	0.0	2	0.8	2	0.7	3	1.2	2	2.0	9	0.8
	Total	2	0.4	6	1.1	2	0.4	5	1.0	2	1.0	17	0.7
Minnesota Code 1-2-5	Male	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	1	0.1
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	1	0.0
Minnesota Code 1-2-6	Male	0	0.0	0	0.0	0	0.0	0	0.0	1	1.0	1	0.1
	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	1	0.5	1	0.0
Minnesota Code 1-2-7	Male	0	0.0	0	0.0	0	0.0	3	1.1	0	0.0	3	0.3
	Female	0	0.0	1	0.4	1	0.4	4	1.6	0	0.0	6	0.5
	Total	0	0.0	1	0.2	1	0.2	7	1.3	0	0.0	9	0.4
Minnesota Code 1-2-8	Male	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	1	0.1
	Female	0	0.0	2	0.8	1	0.4	1	0.4	1	1.0	5	0.4
	Total	0	0.0	3	0.6	1	0.2	1	0.2	1	0.5	6	0.3
Minnesota Code 1-3-1	Male	0	0.0	1	0.4	0	0.0	1	0.4	1	1.0	3	0.3
	Female	0	0.0	0	0.0	0	0.0	1	0.4	1	1.0	2	0.2
	Total	0	0.0	1	0.2	0	0.0	2	0.4	2	1.0	5	0.2
Minnesota Code 1-3-2	Male	0	0.0	3	1.1	0	0.0	4	1.5	3	3.1	10	0.9
	Female	3	1.1	3	1.2	3	1.1	2	0.8	4	4.1	15	1.3
	Total	3	0.6	6	1.1	3	0.5	6	1.2	7	3.6	25	1.1
Minnesota Code 1-3-3	Male	0	0.0	1	0.4	0	0.0	3	1.1	1	1.0	5	0.4
	Female	0	0.0	0	0.0	3	1.1	2	0.8	2	2.0	7	0.6
	Total	0	0.0	1	0.2	3	0.5	5	1.0	3	1.5	12	0.5
Minnesota Code 1-3-4	Male	0	0.0	3	1.1	2	0.7	4	1.5	1	1.0	10	0.9
	Female	2	0.8	0	0.0	4	1.5	1	0.4	2	2.0	9	0.8
	Total	2	0.4	3	0.6	6	1.1	5	1.0	3	1.5	19	0.8
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	1	0.4	0	0.0	1	0.1
	Total	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0	1	0.0
Minnesota Code 1-3-6	Male	1	0.4	0	0.0	7	2.5	6	2.2	2	2.1	16	1.4
	Female	2	0.8	5	2.0	9	3.3	9	3.6	3	3.1	28	2.5
	Total	3	0.6	5	1.0	16	2.9	15	2.9	5	2.6	44	1.9
Minnesota Code 2-1	Male	3	1.2	6	2.2	10	3.6	10	3.7	3	3.1	32	2.7
	Female	1	0.4	3	1.2	2	0.7	5	2.0	5	5.1	16	1.4
	Total	4	0.8	9	1.7	12	2.2	15	2.9	8	4.1	48	2.1
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	10	3.9	3	1.1	1	0.4	3	1.1	1	1.0	18	1.5
	Female	12	4.6	4	1.6	1	0.4	0	0.0	0	0.0	17	1.5
	Total	22	4.2	7	1.3	2	0.4	3	0.6	1	0.5	35	1.5
Minnesota Code 2-4	Male	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	1	0.1
	Female	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	1	0.1
	Total	0	0.0	1	0.2	0	0.0	1	0.2	0	0.0	2	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	2	0.8	2	0.8	0	0.0	0	0.0	1	1.0	5	0.4
	Total	2	0.4	2	0.4	0	0.0	0	0.0	1	0.5	5	0.2



	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Minnesota Code 6-3	Male	3	1.2	6	2.2	8	2.9	12	4.4	7	7.3	36	3.1
	Female	1	0.4	0	0.0	1	0.4	3	1.2	2	2.0	7	0.6
	Total	4	0.8	6	1.1	9	1.6	15	2.9	9	4.6	43	1.9
Minnesota Code 6-4-1	Male	2	0.8	1	0.4	0	0.0	0	0.0	0	0.0	3	0.3
	Female	1	0.4	1	0.4	0	0.0	0	0.0	0	0.0	2	0.2
	Total	3	0.6	2	0.4	0	0.0	0	0.0	0	0.0	5	0.2
Minnesota Code 6-5	Male	4	1.6	3	1.1	3	1.1	3	1.1	1	1.0	14	1.2
	Female	14	5.3	8	3.2	4	1.5	5	2.0	1	1.0	32	2.8
	Total	18	3.5	11	2.1	7	1.3	8	1.5	2	1.0	46	2.0
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	1	1.0	1	0.1
	Total	0	0.0	0	0.0	0	0.0	0	0.0	1	0.5	1	0.0
Minnesota Code 7-1-1	Male	0	0.0	0	0.0	1	0.4	2	0.7	4	4.2	7	0.6
	Female	0	0.0	0	0.0	1	0.4	0	0.0	1	1.0	2	0.2
	Total	0	0.0	0	0.0	2	0.4	2	0.4	5	2.6	9	0.4
Minnesota Code 7-2-1	Male	5	1.9	4	1.5	14	5.1	23	8.5	8	8.3	54	4.6
	Female	0	0.0	3	1.2	3	1.1	13	5.2	5	5.1	24	2.1
	Total	5	1.0	7	1.3	17	3.1	36	6.9	13	6.7	78	3.4
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	0	0.0	0	0.0	1	0.4	0	0.0	1	0.1
	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	0.2	0	0.0	1	0.0
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	1	0.4	2	0.7	1	1.0	4	0.3
	Female	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	1	0.1
	Total	0	0.0	0	0.0	1	0.2	3	0.6	1	0.5	5	0.2
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	1	0.4	1	0.4	0	0.0	2	0.2
	Female	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	1	0.1
	Total	0	0.0	0	0.0	2	0.4	1	0.2	0	0.0	3	0.1
Minnesota Code 8-1-2	Male	0	0.0	1	0.4	4	1.4	8	3.0	3	3.1	16	1.4
	Female	4	1.5	2	0.8	2	0.7	1	0.4	2	2.0	11	1.0
	Total	4	0.8	3	0.6	6	1.1	9	1.7	5	2.6	27	1.2
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	0.4	3	1.1	14	5.2	9	9.4	27	2.3
	Female	0	0.0	1	0.4	1	0.4	2	0.8	2	2.0	6	0.5

	Total	0	0.0	2	0.4	4	0.7	16	3.1	11	5.7	33	1.4
Minnesota Code 8-3-2	Male	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	1	0.1
	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	0.2	0	0.0	1	0.0
Minnesota Code 8-4-1	Male	0	0.0	1	0.4	0	0.0	1	0.4	2	2.1	4	0.3
	Female	1	0.4	1	0.4	1	0.4	2	0.8	0	0.0	5	0.4
	Total	1	0.2	2	0.4	1	0.2	3	0.6	2	1.0	9	0.4
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	2	0.7	1	1.0	3	0.3
	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	2	0.4	1	0.5	3	0.1
Minnesota Code 8-7	Male	0	0.0	0	0.0	1	0.4	1	0.4	0	0.0	2	0.2
	Female	0	0.0	1	0.4	0	0.0	1	0.4	0	0.0	2	0.2
	Total	0	0.0	1	0.2	1	0.2	2	0.4	0	0.0	4	0.2
Minnesota Code 8-8	Male	22	8.6	29	10.6	20	7.2	16	5.9	4	4.2	91	7.8
	Female	9	3.4	6	2.4	12	4.4	11	4.4	3	3.1	41	3.6
	Total	31	6.0	35	6.7	32	5.9	27	5.2	7	3.6	132	5.7
Minnesota Code 8-9	Male	12	4.7	13	4.7	14	5.1	26	9.6	14	14.6	79	6.7
	Female	7	2.7	9	3.6	14	5.2	17	6.8	15	15.3	62	5.5
	Total	19	3.7	22	4.2	28	5.1	43	8.3	29	14.9	141	6.1
Minnesota Code 9-1	Male	4	1.6	6	2.2	8	2.9	17	6.3	7	7.3	42	3.6
	Female	4	1.5	11	4.4	7	2.6	5	2.0	4	4.1	31	2.7
	Total	8	1.5	17	3.3	15	2.7	22	4.2	11	5.7	73	3.2
Minnesota Code 9-2	Male	24	9.3	21	7.7	18	6.5	13	4.8	1	1.0	77	6.6
	Female	3	1.1	3	1.2	7	2.6	2	0.8	2	2.0	17	1.5
	Total	27	5.2	24	4.6	25	4.6	15	2.9	3	1.5	94	4.1
Minnesota Code 9-3-1	Male	1	0.4	0	0.0	1	0.4	0	0.0	1	1.0	3	0.3
	Female	0	0.0	0	0.0	2	0.7	0	0.0	0	0.0	2	0.2
	Total	1	0.2	0	0.0	3	0.5	0	0.0	1	0.5	5	0.2
Minnesota Code 9-3-2	Male	0	0.0	0	0.0	2	0.7	2	0.7	0	0.0	4	0.3
	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	2	0.4	2	0.4	0	0.0	4	0.2
Minnesota Code 9-4-1	Male	104	40.5	108	39.4	115	41.7	95	35.2	33	34.4	455	38.8
	Female	138	52.7	119	47.8	142	52.4	121	48.6	35	35.7	555	49.2
	Total	242	46.6	227	43.4	257	47.0	216	41.6	68	35.1	1010	43.9
Minnesota Code 9-4-2	Male	37	14.4	42	15.3	50	18.1	49	18.1	18	18.8	196	16.7
	Female	29	11.1	43	17.3	25	9.2	37	14.9	12	12.2	146	12.9
	Total	66	12.7	85	16.3	75	13.7	86	16.6	30	15.5	342	14.9
Minnesota Code 9-5	Male	21	8.2	17	6.2	11	4.0	9	3.3	4	4.2	62	5.3
	Female	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total	21	4.0	17	3.3	11	2.0	9	1.7	4	2.1	62	2.7
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	2	0.7	1	0.4	0	0.0	3	0.3
	Total	0	0.0	0	0.0	2	0.4	1	0.2	0	0.0	3	0.1
Total	Male	257	100.0	274	100.0	276	100.0	270	100.0	96	100.0	1173	100.0
	Female	262	100.0	249	100.0	271	100.0	249	100.0	98	100.0	1129	100.0
	Total	519	100.0	523	100.0	547	100.0	519	100.0	194	100.0	2302	100.0



## Intima-media Thickness of Left Common Carotid Artery (the Thickest Point) (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	0.72	0.16	268	0.79	0.18	264	0.92	0.37	284	1.01	0.42	262	1.03	0.40	99	0.88	0.34	1177
Female	0.68	0.12	276	0.76	0.15	259	0.86	0.21	265	0.93	0.27	246	1.02	0.35	104	0.83	0.24	1150
Total	0.70	0.15	544	0.78	0.17	523	0.89	0.31	549	0.97	0.35	508	1.02	0.37	203	0.85	0.29	2327

## Intima-media Thickness of Left Common Carotid Artery (the Thinnest Point) (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	0.57	0.11	268	0.60	0.12	264	0.67	0.18	284	0.70	0.16	262	0.71	0.14	99	0.64	0.16	1177
Female	0.54	0.10	276	0.59	0.11	259	0.63	0.14	265	0.67	0.15	246	0.70	0.17	104	0.62	0.14	1150
Total	0.56	0.11	544	0.60	0.12	523	0.65	0.17	549	0.68	0.16	508	0.70	0.16	203	0.63	0.15	2327

## Intima-media Thickness of Left Carotid Sinus (the Thickest Point) (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	0.94	0.22	265	1.05	0.32	262	1.21	0.47	282	1.34	0.53	256	1.60	0.77	99	1.17	0.48	1164
Female	0.88	0.21	276	0.99	0.27	256	1.13	0.40	263	1.23	0.43	244	1.39	0.72	105	1.08	0.42	1144
Total	0.91	0.22	541	1.02	0.30	518	1.17	0.44	545	1.29	0.48	500	1.49	0.75	204	1.13	0.46	2308

## Intima-media Thickness of Left Carotid Sinus (the Thinnest Point) (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	0.68	0.16	265	0.72	0.18	262	0.81	0.23	282	0.81	0.22	256	0.92	0.29	99	0.77	0.22	1164
Female	0.63	0.16	276	0.70	0.18	256	0.75	0.19	263	0.81	0.23	244	0.82	0.23	105	0.73	0.21	1144
Total	0.65	0.16	541	0.71	0.18	518	0.78	0.22	545	0.81	0.22	500	0.87	0.26	204	0.75	0.21	2308

## Intima-media Thickness of Right Common Carotid Artery (the Thickest Point) (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	0.69	0.15	267	0.74	0.16	265	0.82	0.25	284	0.91	0.33	262	1.02	0.42	99	0.81	0.27	1177
Female	0.65	0.11	276	0.72	0.16	260	0.81	0.19	265	0.88	0.21	246	0.94	0.34	105	0.78	0.21	1152
Total	0.67	0.13	543	0.73	0.16	525	0.81	0.22	549	0.90	0.28	508	0.98	0.38	204	0.79	0.25	2329

## Intima-media Thickness of Right Common Carotid Artery (the Thinnest Point) (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	0.54	0.11	267	0.57	0.10	265	0.60	0.12	284	0.67	0.19	262	0.71	0.13	99	0.60	0.14	1177
Female	0.53	0.10	276	0.57	0.11	260	0.59	0.12	265	0.65	0.12	246	0.66	0.15	105	0.59	0.13	1152
Total	0.53	0.10	543	0.57	0.11	525	0.60	0.12	549	0.66	0.16	508	0.68	0.14	204	0.60	0.14	2329

## Intima-media Thickness of Right Carotid Sinus (the Thickest Point) (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	0.92	0.21	268	1.04	0.38	262	1.23	0.53	284	1.35	0.55	260	1.60	0.81	98	1.17	0.52	1172

Female	0.85	0.20	274	0.95	0.24	255	1.05	0.30	263	1.22	0.50	243	1.34	0.56	104	1.04	0.39	1139
Total	0.89	0.21	542	1.00	0.32	517	1.14	0.44	547	1.29	0.53	503	1.46	0.70	202	1.11	0.47	2311

Intima-media Thickness of Right Carotid Sinus (the Thinnest Point) (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	0.66	0.15	268	0.70	0.18	262	0.77	0.24	284	0.81	0.25	260	0.87	0.29	98	0.75	0.23	1172
Female	0.62	0.14	274	0.67	0.18	255	0.71	0.19	263	0.78	0.24	243	0.78	0.23	104	0.70	0.20	1139
Total	0.64	0.15	542	0.69	0.18	517	0.75	0.22	547	0.80	0.25	503	0.83	0.27	202	0.73	0.22	2311