

VI. Blood and Urine Analysis

Venous blood sample and urine were obtained after an overnight fast.
Urine is analyzed using semi-quantitative test tape.

1) Blood chemistry

Total protein (g/dL)
Total bilirubin (mg/dL)
Triglyceride (mg/dL)
Total cholesterol (mg/dL)
HDL-cholesterol (mg/dL)
Lipid peroxide (nmol/mL)
Urea nitrogen (mg/dL)
Uric acid (mg/dL)
Creatinine (mg/dL)
Sodium (mEq/L)
Potassium (mEq/L)
Chlorine (mEq/L)
Calcium (mg/dL)
Phosphorus (mg/dL)
Glutamate oxaloacetate transaminase, GOT (IU/L)
Glutamate pyruvate transaminase, GPT (IU/L)
Lactate dehydrogenase, LDH (IU/L)
Alkaline phosphatase (IU/L)
Gamma-glutamyltransferase (IU/L)
Cholinesterase (IU/L)
Magnesium (mg/dL)
Iron (micro g/dL)
Copper (micro g/dL)
Zinc (micro g/dL)
Vitamin A (IU/dL)
Free triiodothyronine, Free T3 (pg/mL)
Free thyroxine, Free T4 (ng/dL)
Thyroid stimulating hormone, TSH (micro IU/mL)
Dehydroepiandrosterone sulfate, DHEA-S (ng/mL)
Fasting insulin (micro U/mL)
Sialic acid (mg/dL)
Fasting glucose (mg/dL)
Hemoglobin A1c (%)
Albumin (g/dL) direct method
Albumin (%) electrophoresis
Alpha 1-globulin (%) electrophoresis
Alpha 2-globulin (%) electrophoresis
Beta-globulin (%) electrophoresis
Gamma-globulin (%) electrophoresis
A/G ratio

2) Serum fatty acid

Dihomo-gamma-linolenic acid, DHLA (micro g/mL)
Arachidonic acid, AA (micro g/mL)
Eicosapentaenoic acid, EPA (micro g/mL)
Docosahexaenoic acid, DHA (micro g/mL)

3) Complete blood cell count

- White blood cell count (/micro L)
- Red blood cell count (x10000/micro L)
- Hemoglobin (g/dL)
- Hematocrit (%)
- MCV (fL)
- MCH (pg)
- MCHC (%)
- Platelet count (x10000/micro L)

4) Sex hormone

- Estradiol (pg/mL)
- Total testosterone (ng/dL)
- Free testosterone (pg/mL)
- Sex hormone binding globulin (nmol/L)

5) Disease markers

- Platelet-activating factor acethylhydase PAF-AH (U/L)
- Low density lipoprotein cholesterol LDL-C (mg/dL)
- Apo A-I (mg/dL)
- Apo A-II (mg/dL)
- Apo B (mgl/dL)
- Apo C-II (mg/dL)
- Apo C-III (mg/dL)
- Apo E (mg/dL)
- Lipoprotein (a) (mg/dL)

6) Urine analysis

- Hemoglobin (/micro L)
- Occult blood (/micro L)
- Ketone body (mg/dL)
- Bilirubin (mg/dL)
- Urobilinogen (mg/dL)
- Protein (mg/dL)
- Glucose (mg/dL)
- pH (mg/dL)
- Nitrite

1) Blood chemistry

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Total protein (g/dL)

	40-49yr			50-59yr			60-69yr			70-79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	7.75	0.47	291	7.73	0.48	281	7.89	0.47	283	7.89	0.50	282	7.82	0.48	1137
Female	7.83	0.43	281	7.83	0.47	277	7.90	0.52	285	7.94	0.47	281	7.88	0.48	1124

Total	7.79	0.45	572	7.78	0.48	558	7.90	0.50	568	7.91	0.48	563	7.85	0.48	2261
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Total Bilirubin (mg/dL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	0.85	0.43	291	0.79	0.33	281	0.77	0.28	283	0.72	0.27	282	0.78	0.33	1137
Female	0.69	0.31	281	0.67	0.26	277	0.64	0.31	285	0.65	0.25	281	0.66	0.28	1124
Total	0.77	0.38	572	0.73	0.30	558	0.71	0.30	568	0.68	0.26	563	0.72	0.32	2261

Triglyceride (mg/dL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	144.8	128.1	286	141.1	98.3	279	131.5	80.1	280	117.9	54.8	277	133.9	94.9	1122
Female	87.4	58.6	275	104.0	54.1	274	123.4	65.3	282	122.0	58.2	274	109.3	61.0	1105
Total	116.6	104.2	561	122.7	81.6	553	127.4	73.1	562	120.0	56.5	551	121.7	80.8	2227

Total cholesterol (mg/dL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	211.9	30.9	291	216.4	36.2	281	211.1	32.6	283	209.5	33.3	282	212.2	33.4	1137
Female	211.3	33.7	281	231.7	32.4	277	231.5	35.4	285	233.2	34.6	281	226.9	35.2	1124
Total	211.6	32.3	572	224.0	35.2	558	221.3	35.5	568	221.3	35.9	563	219.5	35.1	2261

HDL-cholesterol (mg/dL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	57.4	15.1	291	58.3	14.8	281	55.8	14.2	283	58.3	15.2	282	57.4	14.8	1137
Female	69.5	15.2	281	67.5	14.5	277	63.5	15.2	285	63.8	15.7	281	66.0	15.3	1124
Total	63.3	16.3	572	62.9	15.3	558	59.7	15.2	568	61.0	15.7	563	61.7	15.7	2261

Lipid peroxide (nmol/mL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	2.99	0.64	291	3.20	0.75	281	3.10	0.64	283	3.11	0.73	282	3.10	0.69	1137
Female	2.71	0.59	281	2.93	0.67	277	2.92	0.80	285	2.96	0.79	281	2.88	0.73	1124
Total	2.85	0.63	572	3.06	0.72	558	3.01	0.73	568	3.03	0.76	563	2.99	0.72	2261

Urea nitrogen (mg/dL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	14.5	2.6	16	15.1	3.6	14	17.4	5.3	28	16.7	3.8	16	16.2	4.3	74
Female	13.4	3.6	15	14.7	2.5	16	14.8	4.0	22	15.5	3.6	22	14.7	3.6	75
Total	14.0	3.1	31	14.9	3.0	30	16.3	5.0	50	16.0	3.7	38	15.4	4.0	149

Uric acid (mg/dL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	5.76	1.31	291	5.78	1.30	281	5.59	1.30	283	5.67	1.37	282	5.70	1.32	1137
Female	4.02	0.92	281	4.37	1.03	277	4.59	1.15	285	4.60	1.07	281	4.40	1.07	1124
Total	4.91	1.43	572	5.08	1.37	558	5.09	1.32	568	5.14	1.34	563	5.05	1.37	2261

Creatinine (mg/dL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	0.98	0.16	291	0.99	0.13	281	1.04	0.61	283	1.05	0.22	282	1.02	0.34	1137
Female	0.75	0.10	281	0.75	0.11	277	0.78	0.12	285	0.81	0.15	281	0.77	0.12	1124
Total	0.87	0.18	572	0.87	0.17	558	0.91	0.46	568	0.93	0.23	563	0.90	0.29	2261

Sodium (mEq/L)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	143.6	2.1	16	142.7	1.3	14	142.3	1.4	28	142.4	1.9	16	142.7	1.7	74
Female	141.1	1.3	15	142.4	1.6	16	143.4	1.4	22	142.7	2.0	22	142.5	1.8	75
Total	142.4	2.2	31	142.5	1.4	30	142.8	1.5	50	142.6	2.0	38	142.6	1.8	149

Potassium (mEq/L)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	4.35	0.41	16	4.03	0.33	14	4.15	0.34	28	4.25	0.40	16	4.19	0.38	74
Female	4.14	0.35	15	3.99	0.24	16	4.15	0.38	22	4.26	0.31	22	4.15	0.34	75
Total	4.25	0.39	31	4.01	0.28	30	4.15	0.36	50	4.26	0.35	38	4.17	0.36	149

Chlorine (mEq/L)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	103.4	2.9	16	101.4	2.5	14	101.6	2.2	28	102.6	2.1	16	102.2	2.4	74

Female	102.9	2.5	15	102.4	2.9	16	103.2	1.8	22	102.7	2.6	22	102.8	2.4	75
Total	103.2	2.7	31	101.9	2.7	30	102.3	2.1	50	102.7	2.4	38	102.5	2.5	149

Calcium (mg/dL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	9.35	0.31	291	9.28	0.32	281	9.23	0.32	283	9.21	0.33	282	9.27	0.33	1137
Female	9.13	0.31	281	9.31	0.34	277	9.30	0.31	285	9.31	0.39	281	9.26	0.35	1124
Total	9.24	0.33	572	9.29	0.33	558	9.27	0.32	568	9.26	0.37	563	9.26	0.34	2261

Phosphorus (mg/dL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	3.16	0.40	291	3.09	0.40	281	3.12	0.43	283	3.08	0.37	282	3.11	0.40	1137
Female	3.40	0.43	281	3.59	0.39	277	3.61	0.38	285	3.55	0.40	281	3.54	0.41	1124
Total	3.28	0.43	572	3.34	0.47	558	3.37	0.48	568	3.31	0.45	563	3.32	0.46	2261

Glutamate oxaloacetate transaminase, GOT (IU/L)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	24.8	10.6	291	27.3	21.8	281	28.8	23.1	283	27.7	13.8	282	27.1	18.1	1137
Female	20.5	7.7	281	23.5	15.0	277	25.6	13.4	285	26.7	18.1	281	24.1	14.2	1124
Total	22.7	9.6	572	25.4	18.8	558	27.2	18.9	568	27.2	16.1	563	25.6	16.4	2261

Glutamate pyruvate transaminase, GPT (IU/L)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	30.0	22.1	291	29.8	30.6	281	27.0	21.6	283	22.9	15.0	282	27.4	23.1	1137
Female	17.9	12.2	281	22.3	21.7	277	22.4	18.6	285	20.4	22.7	281	20.7	19.3	1124
Total	24.0	18.9	572	26.1	26.8	558	24.7	20.3	568	21.7	19.3	563	24.1	21.6	2261

Lactate dehydrogenase, LDH (IU/L)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	318.5	47.8	16	337.1	48.5	14	340.7	51.6	28	359.8	53.5	16	339.4	51.5	74
Female	311.3	53.4	15	376.1	101.3	16	379.4	64.9	22	413.2	60.0	22	375.0	78.1	75
Total	315.0	49.9	31	357.9	82.2	30	357.7	60.4	50	390.7	62.6	38	357.3	68.4	149

Alkaline phosphatase (IU/L)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	160.3	44.1	291	160.1	40.9	281	170.4	55.7	283	172.6	47.6	282	165.8	47.7	1137
Female	128.8	35.8	281	174.3	48.2	277	185.5	56.0	285	192.9	56.2	281	170.4	55.6	1124
Total	144.8	43.2	572	167.2	45.2	558	178.0	56.3	568	182.7	53.0	563	168.1	51.8	2261

Gamma-glutamyltransferase (IU/L)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	63.8	75.7	291	66.4	69.4	281	65.1	114.7	283	39.9	38.6	282	58.9	80.0	1137
Female	24.9	24.3	281	31.1	28.0	277	31.0	38.3	285	26.2	17.3	281	28.3	28.1	1124
Total	44.7	59.8	572	48.9	55.9	558	48.0	87.0	568	33.1	30.7	563	43.7	62.0	2261

Cholinesterase (IU/L)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	390.9	81.2	291	386.2	96.3	281	363.1	69.2	283	341.6	75.9	282	370.6	83.5	1137
Female	337.2	89.3	281	384.1	106.4	277	389.3	79.0	285	372.3	76.5	281	370.8	90.7	1124
Total	364.5	89.3	572	385.1	101.3	558	376.3	75.4	568	356.9	77.7	563	370.7	87.1	2261

Magnesium (mg/dL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	2.23	0.15	291	2.21	0.16	281	2.20	0.17	283	2.18	0.17	282	2.20	0.17	1137
Female	2.15	0.15	281	2.18	0.15	277	2.20	0.18	285	2.17	0.17	281	2.18	0.16	1124
Total	2.19	0.16	572	2.19	0.16	558	2.20	0.18	568	2.18	0.17	563	2.19	0.17	2261

Iron (micro g/dL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	124.1	44.8	291	117.7	41.2	281	121.7	38.6	283	114.7	39.7	282	119.6	41.3	1137
Female	100.4	48.7	281	106.8	34.5	277	102.9	31.4	285	100.1	30.9	281	102.5	37.1	1124
Total	112.5	48.2	572	112.3	38.4	558	112.3	36.4	568	107.4	36.3	563	111.1	40.2	2261

Copper (micro g/dL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N

Male	87.1	12.7	16	86.5	16.3	14	94.5	14.2	28	89.4	10.2	16	90.3	13.7	74
Female	93.3	20.2	15	92.6	13.1	16	99.5	15.8	22	104.4	16.4	22	98.2	16.8	75
Total	90.1	16.8	31	89.8	14.7	30	96.7	15.0	50	98.1	15.8	38	94.3	15.8	149

Zinc (micro g/dL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	97.1	12.9	291	96.6	13.6	281	96.4	13.4	283	91.7	13.0	282	95.5	13.4	1137
Female	93.4	12.3	281	96.6	14.0	277	96.4	14.4	285	91.6	13.3	281	94.5	13.7	1124
Total	95.3	12.8	572	96.6	13.8	558	96.4	13.9	568	91.6	13.2	563	95.0	13.5	2261

Vitamin A (IU/dL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	225.4	51.0	291	235.5	59.0	281	224.8	60.7	283	206.0	50.3	282	222.9	56.3	1137
Female	164.6	37.5	281	184.8	41.1	277	196.3	44.9	285	188.0	50.8	281	183.5	45.3	1124
Total	195.5	54.2	572	210.3	56.8	558	210.5	55.2	568	197.0	51.3	563	203.3	54.8	2261

Free triiodothyronine, Free T3 (pg/mL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	3.04	0.35	291	3.01	0.31	281	3.00	0.30	283	2.92	0.29	282	2.99	0.32	1137
Female	2.89	0.36	281	2.93	0.32	277	2.96	0.34	285	2.97	0.36	281	2.94	0.35	1124
Total	2.97	0.36	572	2.97	0.32	558	2.98	0.32	568	2.95	0.33	563	2.97	0.33	2261

Free thyroxine, Free T4 (ng/dL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	1.29	0.17	291	1.26	0.19	281	1.28	0.20	283	1.28	0.21	282	1.28	0.19	1137
Female	1.24	0.17	281	1.22	0.18	277	1.26	0.18	285	1.25	0.20	281	1.24	0.18	1124
Total	1.26	0.17	572	1.24	0.18	558	1.27	0.19	568	1.26	0.20	563	1.26	0.19	2261

Thyroid stimulating hormone, TSH (micro IU/mL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	1.56	1.08	291	1.80	1.15	281	2.02	1.54	283	2.49	3.65	282	1.97	2.15	1137
Female	1.95	1.40	281	2.28	1.68	277	2.51	2.36	285	2.36	1.88	281	2.27	1.87	1124
Total	1.75	1.26	572	2.04	1.46	558	2.27	2.00	568	2.43	2.90	563	2.12	2.02	2261

Dehydroepiandrosterone sulfate, DHEA-S (ng/mL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	2125.3	826.5	291	1720.3	705.6	281	1361.3	641.3	283	1120.5	564.8	282	1585.8	789.6	1137
Female	1230.3	585.8	281	956.2	518.8	277	782.9	428.3	285	734.2	431.4	281	925.3	531.3	1124
Total	1685.6	846.0	572	1341.0	727.9	558	1071.0	616.6	568	927.7	538.2	563	1257.5	750.2	2261

Fasting insulin (micro U/mL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	8.24	4.37	286	8.38	5.44	279	7.80	4.04	280	8.63	8.11	277	8.26	5.70	1122
Female	7.70	3.40	275	7.64	3.57	274	8.87	4.81	282	9.65	7.80	274	8.47	5.26	1105
Total	7.97	3.93	561	8.01	4.62	553	8.34	4.47	562	9.14	7.97	551	8.36	5.49	2227

Sialic acid (mg/dL)

	40-49yr			50-59yr			60-69yr			70-79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	63.4	8.2	291	63.4	6.9	281	65.5	8.3	283	66.4	9.0	282	64.7	8.2	1137
Female	62.0	7.0	281	63.0	7.9	277	65.8	6.8	285	67.6	8.0	281	64.6	7.8	1124
Total	62.7	7.7	572	63.2	7.4	558	65.7	7.6	568	67.0	8.5	563	64.6	8.0	2261

Fasting glucose (mg/dL)

	40-49yr			50-59yr			60-69yr			70-79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	100.9	15.8	286	105.0	18.2	279	108.3	26.2	279	109.1	27.4	278	105.8	22.6	1122
Female	94.9	12.0	275	99.2	20.0	275	103.1	22.2	282	105.6	22.2	274	100.7	19.9	1106
Total	98.0	14.4	561	102.1	19.3	554	105.7	24.4	561	107.4	25.0	552	103.3	21.5	2228

Hemoglobin A1c (%)

	40-49yr			50-59yr			60-69yr			70-79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	5.12	0.56	290	5.30	0.66	281	5.43	1.01	282	5.46	0.82	283	5.33	0.79	1136
Female	4.93	0.40	281	5.19	0.55	278	5.32	0.79	285	5.40	0.77	281	5.21	0.67	1125
Total	5.03	0.50	571	5.25	0.61	559	5.37	0.90	567	5.43	0.80	564	5.27	0.73	2261

Albumin (g/dL) direct method

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	4.51	0.31	275	4.44	0.31	267	4.38	0.32	255	4.32	0.34	266	4.41	0.33	1063
Female	4.38	0.30	266	4.40	0.30	261	4.34	0.32	263	4.30	0.33	259	4.36	0.31	1049
Total	4.45	0.31	541	4.42	0.30	528	4.36	0.32	518	4.31	0.33	525	4.38	0.32	2112

Albumin (%) electrophoresis

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	67.6	2.9	16	65.4	2.6	14	63.6	3.1	28	62.6	3.8	16	64.6	3.6	74
Female	64.2	2.0	15	64.0	2.8	16	63.2	4.3	22	64.3	3.1	22	63.9	3.3	75
Total	66.0	3.0	31	64.6	2.7	30	63.4	3.7	50	63.5	3.5	38	64.2	3.4	149

Alpha 1-globulin (%) electrophoresis

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	2.3	0.2	16	2.4	0.4	14	2.6	0.4	28	2.7	0.3	16	2.5	0.4	74
Female	2.5	0.3	15	2.3	0.3	16	2.7	0.4	22	2.6	0.2	22	2.5	0.3	75
Total	2.4	0.3	31	2.4	0.3	30	2.6	0.4	50	2.6	0.3	38	2.5	0.3	149

Alpha 2-globulin (%) electrophoresis

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	7.3	0.8	16	7.6	1.0	14	8.0	1.2	28	8.0	0.8	16	7.8	1.0	74
Female	7.5	0.7	15	7.6	0.9	16	8.4	1.0	22	8.4	0.9	22	8.0	1.0	75
Total	7.4	0.8	31	7.6	1.0	30	8.2	1.1	50	8.2	0.9	38	7.9	1.0	149

Beta-globulin (%) electrophoresis

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	9.3	0.9	16	9.2	0.9	14	9.4	1.2	28	9.4	1.1	16	9.4	1.0	74
Female	9.6	0.9	15	9.7	0.9	16	9.8	1.1	22	9.6	1.0	22	9.7	1.0	75
Total	9.4	0.9	31	9.4	0.9	30	9.6	1.1	50	9.6	1.0	38	9.5	1.0	149

Gamma-globulin (%) electrophoresis

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	13.5	2.2	16	15.5	2.6	14	16.3	2.8	28	17.3	3.4	16	15.7	3.0	74
Female	16.2	1.6	15	16.4	2.8	16	16.0	5.2	22	15.1	3.0	22	15.9	3.5	75

Total	14.8	2.4	31	16.0	2.7	30	16.2	4.0	50	16.0	3.3	38	15.8	3.3	149
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A/G ratio

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	2.12	0.26	16	1.92	0.23	14	1.77	0.24	28	1.70	0.26	16	1.86	0.29	74
Female	1.80	0.14	15	1.78	0.22	16	1.75	0.28	22	1.82	0.26	22	1.79	0.24	75
Total	1.96	0.26	31	1.85	0.23	30	1.76	0.25	50	1.77	0.26	38	1.82	0.26	149

2) Serum fatty acid

Dihome-gamma-linolenic acid, DHLA (micro g/mL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	30.6	11.2	291	29.7	10.8	281	29.8	9.5	283	28.2	9.0	282	29.6	10.2	1137
Female	27.0	9.5	281	30.4	10.6	277	34.0	11.2	285	35.1	12.1	281	31.7	11.3	1124
Total	28.9	10.5	572	30.1	10.7	558	31.9	10.6	568	31.7	11.2	563	30.6	10.8	2261

Arachidonic acid, AA (micro g/mL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	151.7	39.4	291	149.6	36.1	281	144.7	36.8	283	138.7	31.0	282	146.2	36.3	1137
Female	147.7	32.2	281	155.3	33.2	277	156.3	36.4	285	154.9	37.2	281	153.6	35.0	1124
Total	149.7	36.1	572	152.5	34.8	558	150.5	37.1	568	146.8	35.2	563	149.9	35.8	2261

Eicosapentaenoic acid, EPA (micro g/mL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	56.1	29.8	291	80.2	44.4	281	69.7	35.8	283	71.6	40.6	282	69.3	38.9	1137
Female	51.8	28.3	281	69.6	33.5	277	71.2	36.2	285	67.5	34.9	281	65.0	34.2	1124
Total	54.0	29.1	572	74.9	39.7	558	70.4	35.9	568	69.6	37.9	563	67.2	36.7	2261

Docosahexaenoic acid, DHA (micro g/mL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	128.6	48.8	291	158.4	61.5	281	148.6	50.4	283	146.8	46.3	282	145.5	53.1	1137
Female	117.4	33.9	281	147.3	38.9	277	157.2	46.8	285	155.2	45.4	281	144.3	44.5	1124

Total	123.1	42.5	572	152.9	51.8	558	152.9	48.8	568	151.0	46.0	563	144.9	49.0	2261
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EPA/AA ratio

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	0.38	0.19	291	0.55	0.29	281	0.49	0.26	283	0.53	0.30	282	0.49	0.27	1137
Female	0.35	0.19	281	0.46	0.23	277	0.47	0.24	285	0.45	0.24	281	0.43	0.23	1124
Total	0.37	0.19	572	0.50	0.27	558	0.48	0.25	568	0.49	0.28	563	0.46	0.25	2261

3) Complete blood cell count

White blood cell count (/micro L)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	6331.3	1948.0	291	6088.6	1681.0	281	5951.4	1446.4	282	5872.8	1569.3	283	6063.0	1680.7	1137
Female	5379.4	1577.1	281	5083.8	1343.5	278	5352.6	1276.4	285	5519.2	1594.4	281	5334.5	1460.8	1125
Total	5863.6	1836.8	572	5588.9	1602.1	559	5650.4	1394.9	567	5696.6	1590.3	564	5700.7	1616.4	2262

Red blood cell count (x10000/micro L)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	511.3	35.5	291	501.5	40.6	281	493.7	41.1	282	482.7	45.8	283	497.4	42.2	1137
Female	454.7	29.6	281	461.4	34.2	278	459.5	38.8	285	452.2	41.9	281	456.9	36.6	1125
Total	483.5	43.3	572	481.5	42.6	559	476.5	43.5	567	467.5	46.4	564	477.3	44.4	2262

Hemoglobin (g/dL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	15.9	1.0	291	15.7	1.2	281	15.5	1.1	282	15.0	1.4	283	15.5	1.2	1137
Female	13.2	1.4	281	13.8	1.0	278	13.9	1.1	285	13.6	1.2	281	13.6	1.2	1125
Total	14.6	1.8	572	14.8	1.5	559	14.7	1.4	567	14.3	1.5	564	14.6	1.6	2262

Hematocrit (%)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	48.3	3.0	291	47.8	3.5	281	47.2	3.4	282	46.1	4.0	283	47.4	3.6	1137
Female	41.4	3.7	281	42.9	3.1	278	43.2	3.4	285	42.6	3.5	281	42.5	3.5	1125
Total	44.9	4.8	572	45.4	4.1	559	45.2	4.0	567	44.3	4.2	564	44.9	4.3	2262

MCV (fL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	94.6	4.5	291	95.5	4.6	281	95.8	4.6	282	95.6	4.8	283	95.4	4.6	1137
Female	91.2	6.9	281	93.0	4.2	278	94.1	4.3	285	94.4	4.4	281	93.2	5.2	1125
Total	92.9	6.1	572	94.3	4.6	559	95.0	4.5	567	95.0	4.7	564	94.3	5.1	2262

MCH (pg)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	31.1	1.5	291	31.4	1.6	281	31.4	1.7	282	31.2	1.8	283	31.3	1.6	1137
Female	29.1	2.9	281	29.9	1.6	278	30.3	1.5	285	30.2	1.6	281	29.9	2.0	1125
Total	30.1	2.5	572	30.7	1.8	559	30.8	1.7	567	30.7	1.8	564	30.6	2.0	2262

MCHC (%)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	32.8	0.9	291	32.9	1.0	281	32.8	0.9	282	32.6	1.0	283	32.8	1.0	1137
Female	31.9	1.4	281	32.1	1.0	278	32.2	0.9	285	32.0	0.9	281	32.1	1.1	1125
Total	32.4	1.3	572	32.5	1.1	559	32.5	0.9	567	32.3	1.0	564	32.4	1.1	2262

Platelet count (x10000/micro L)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	22.8	5.2	291	21.8	5.3	281	21.4	6.0	282	20.0	5.5	283	21.5	5.6	1137
Female	24.3	6.8	281	22.9	5.5	278	23.2	7.5	285	22.6	5.9	281	23.2	6.5	1125
Total	23.5	6.1	572	22.4	5.5	559	22.3	6.9	567	21.3	5.9	564	22.4	6.1	2262

4) Sex hormone

Estradiol (pg/mL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	28.0	10.5	287	26.8	8.5	278	27.4	10.5	276	28.7	11.4	279	27.7	10.3	1120
Female	77.0	71.1	278	24.2	37.5	276	13.0	11.5	281	11.4	3.4	278	31.3	48.6	1113
Total	52.1	56.0	565	25.5	27.1	554	20.1	13.2	557	20.0	12.1	557	29.5	35.1	2233

Total teststerone (ng/dL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	499.6	147.3	287	512.0	163.5	278	498.5	160.3	276	544.7	177.9	279	513.6	163.4	1120
Female	23.9	34.9	278	22.8	52.6	276	20.8	11.3	281	25.5	37.8	278	23.2	37.1	1113
Total	265.5	261.3	565	268.3	273.3	554	257.5	264.4	557	285.5	289.9	557	269.2	272.4	2233

Free testosterone (pg/mL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	15.1	4.2	287	13.9	3.4	278	12.0	3.3	276	11.5	3.5	279	13.2	3.9	1120
Female	1.1	1.3	278	1.0	1.3	276	1.0	0.5	281	1.1	1.1	278	1.0	1.1	1113
Total	8.2	7.7	565	7.5	7.0	554	6.4	6.0	557	6.3	5.8	557	7.1	6.7	2233

Sex hormone binding globulin (nmol/L)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	44.3	17.4	142	51.7	25.4	135	62.3	24.3	129	77.0	26.1	136	58.6	26.5	542
Female	82.5	33.4	129	77.8	34.4	125	80.9	31.8	127	90.6	39.4	127	83.0	35.1	508
Total	62.5	32.5	271	64.2	32.7	260	71.5	29.7	256	83.6	33.8	263	70.4	33.3	1050

5) Disease markers

Platelet-activating factor acethylhydase PAF-AH (U/L)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	449.2	176.8	288	466.2	186.3	279	479.9	181.2	279	470.3	194.2	280	466.3	184.8	1126
Female	392.9	142.7	279	419.8	154.8	276	442.8	169.4	283	439.5	182.6	279	423.8	164.1	1117
Total	421.5	163.3	567	443.1	172.8	555	461.3	176.2	562	455.0	189.0	559	445.2	176.0	2243

Low density lipoprotein cholsterol LDL-C (mg/dL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	131.7	30.5	288	133.6	36.0	279	132.6	31.6	279	129.3	32.0	280	131.8	32.6	1126
Female	124.6	31.2	279	143.3	31.8	276	144.2	36.3	283	145.7	34.8	279	139.5	34.7	1117
Total	128.2	31.1	567	138.5	34.3	555	138.4	34.5	562	137.5	34.4	559	135.6	33.8	2243

Apo A-I (mg/dL)

	40-49yr			50-59yr			60-69yr			70-79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	142.0	29.2	288	144.6	27.7	279	139.8	27.8	279	141.5	26.7	280	142.0	27.9	1126
Female	158.9	26.1	279	157.5	24.1	276	152.9	27.2	283	152.9	27.7	279	155.5	26.4	1117
Total	150.3	28.9	567	151.0	26.7	555	146.4	28.3	562	147.2	27.8	559	148.7	28.0	2243

Apo A-II (mg/dL)

	40-49yr			50-59yr			60-69yr			70-79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	39.6	5.8	288	39.1	6.2	279	37.3	5.6	279	35.7	5.3	280	37.9	5.9	1126
Female	37.4	4.9	279	38.3	5.1	276	38.2	5.9	283	37.3	6.2	279	37.8	5.5	1117
Total	38.5	5.5	567	38.7	5.7	555	37.7	5.7	562	36.5	5.8	559	37.8	5.7	2243

Apo B (mg/dL)

	40-49yr			50-59yr			60-69yr			70-79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	106.7	22.8	288	110.4	26.2	279	109.9	22.1	279	106.3	23.8	280	108.3	23.8	1126
Female	97.2	22.4	279	111.8	21.8	276	115.6	25.3	283	116.4	24.8	279	110.2	24.9	1117
Total	102.0	23.1	567	111.1	24.1	555	112.8	23.9	562	111.3	24.8	559	109.3	24.4	2243

Apo C-II (mg/dL)

	40-49yr			50-59yr			60-69yr			70-79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	4.52	1.41	288	4.73	1.47	279	4.79	1.29	279	4.51	1.16	280	4.64	1.34	1126
Female	3.92	1.26	279	4.63	1.11	276	4.82	1.22	283	4.84	1.13	279	4.55	1.24	1117
Total	4.22	1.37	567	4.68	1.30	555	4.81	1.26	562	4.67	1.16	559	4.60	1.29	2243

Apo C-III (mg/dL)

	40-49yr			50-59yr			60-69yr			70-79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	11.15	3.18	288	11.73	3.95	279	11.02	2.83	279	10.27	2.42	280	11.04	3.19	1126
Female	9.97	2.53	279	10.96	2.26	276	11.33	2.86	283	11.03	2.50	279	10.82	2.60	1117
Total	10.57	2.94	567	11.35	3.24	555	11.17	2.85	562	10.65	2.49	559	10.93	2.91	2243

Apo E (mg/dL)

	40-49yr			50-59yr			60-69yr			70-79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N

Male	4.58	1.47	288	4.84	1.54	279	4.67	1.11	279	4.60	0.94	280	4.67	1.29	1126
Female	4.50	1.07	279	5.03	1.03	276	5.15	1.27	283	5.36	1.22	279	5.01	1.19	1117
Total	4.54	1.28	567	4.93	1.31	555	4.91	1.22	562	4.98	1.15	559	4.84	1.25	2243

Lipoprotein (a) (mg/dL)

	40–49yr			50–59yr			60–69yr			70–79yr			Total		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Male	13.6	17.8	286	15.1	18.6	279	16.1	21.3	279	14.6	15.6	280	14.9	18.4	1124
Female	12.7	13.2	279	16.7	18.4	276	17.1	19.3	283	18.8	21.0	279	16.3	18.3	1117
Total	13.2	15.7	565	15.9	18.5	555	16.6	20.3	562	16.7	18.6	559	15.6	18.4	2241

6)Urine analysis

Urine analysis (Semiquantitative urine test tape, Uriace,Termo, Inc.,)

Hemoglobin (/micro L)

		40–49yr		50–59yr		60–69yr		70–79yr		Total	
		N	%	N	%	N	%	N	%	N	%
Negative	Male	273	93.8	268	95.0	260	91.9	255	90.4	1056	92.8
	Female	222	85.7	217	78.6	221	77.5	227	80.8	887	80.6
	Total	495	90.0	485	86.9	481	84.7	482	85.6	1943	86.8
10/μl	Male	13	4.5	10	3.5	15	5.3	21	7.4	59	5.2
	Female	23	8.9	41	14.9	43	15.1	37	13.2	144	13.1
	Total	36	6.5	51	9.1	58	10.2	58	10.3	203	9.1
50/μl	Male	5	1.7	4	1.4	6	2.1	5	1.8	20	1.8
	Female	11	4.2	15	5.4	20	7.0	17	6.0	63	5.7
	Total	16	2.9	19	3.4	26	4.6	22	3.9	83	3.7
250/μl	Male	0	0.0	0	0.0	2	0.7	1	0.4	3	0.3
	Female	3	1.2	3	1.1	1	0.4	0	0.0	7	0.6
	Total	3	0.5	3	0.5	3	0.5	1	0.2	10	0.4

Occult blood (/micro L)

		40–49yr		50–59yr		60–69yr		70–79yr		Total	
		N	%	N	%	N	%	N	%	N	%
Negative	Male	260	89.3	252	89.7	250	88.3	246	87.2	1008	88.7
	Female	224	86.5	235	85.1	238	83.5	215	76.5	912	82.8
	Total	484	88.0	487	87.4	488	85.9	461	81.9	1920	85.8
10/μl	Male	28	9.6	24	8.5	26	9.2	33	11.7	111	9.8
	Female	30	11.6	35	12.7	34	11.9	58	20.6	157	14.3
	Total	58	10.5	59	10.6	60	10.6	91	16.2	268	12.0
50/μl	Male	1	0.3	4	1.4	4	1.4	3	1.1	12	1.1

250/ μ l	Female	2	0.8	5	1.8	13	4.6	6	2.1	26	2.4
	Total	3	0.5	9	1.6	17	3.0	9	1.6	38	1.7
	Male	2	0.7	1	0.4	3	1.1	0	0.0	6	0.5
	Female	3	1.2	1	0.4	0	0.0	2	0.7	6	0.5
	Total	5	0.9	2	0.4	3	0.5	2	0.4	12	0.5

Ketone body (mg/dL)

		40–49yr		50–59yr		60–69yr		70–79yr		Total	
		N	%	N	%	N	%	N	%	N	%
Negative	Male	291	100.0	279	98.9	283	100.0	279	98.9	1132	99.5
	Female	253	98.1	275	99.3	284	99.6	278	98.9	1090	99.0
	Total	544	99.1	554	99.1	567	99.8	557	98.9	2222	99.2
10mg/dl	Male	0	0.0	1	0.4	0	0.0	3	1.1	4	0.4
	Female	4	1.6	2	0.7	1	0.4	3	1.1	10	0.9
	Total	4	0.7	3	0.5	1	0.2	6	1.1	14	0.6
50mg/dl	Male	0	0.0	2	0.7	0	0.0	0	0.0	2	0.2
	Female	1	0.4	0	0.0	0	0.0	0	0.0	1	0.1
	Total	1	0.2	2	0.4	0	0.0	0	0.0	3	0.1
100mg/dl	Male	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
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

Bilirubin (mg/dL)

		40–49yr		50–59yr		60–69yr		70–79yr		Total	
		N	%	N	%	N	%	N	%	N	%
Negative	Male	291	100.0	282	100.0	283	100.0	282	100.0	1138	100.0
	Female	259	100.0	277	100.0	285	100.0	281	100.0	1102	100.0
	Total	550	100.0	559	100.0	568	100.0	563	100.0	2240	100.0
0.5mg/dl	Male	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
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
1mg/dl	Male	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
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2.5mg/dl	Male	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
	Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

Urobilinogen (mg/dL)

		40–49yr		50–59yr		60–69yr		70–79yr		Total	
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		N	%	N	%	N	%	N	%	N	%
0. 5mg/dl	Male	269	92. 4	265	94. 0	273	96. 5	263	93. 3	1070	94. 0
	Female	254	98. 1	273	98. 6	275	96. 5	270	96. 1	1072	97. 3
	Total	523	95. 1	538	96. 2	548	96. 5	533	94. 7	2142	95. 6
2mg/dl	Male	19	6. 5	16	5. 7	8	2. 8	18	6. 4	61	5. 4
	Female	5	1. 9	4	1. 4	10	3. 5	9	3. 2	28	2. 5
	Total	24	4. 4	20	3. 6	18	3. 2	27	4. 8	89	4. 0
4mg/dl	Male	3	1. 0	1	0. 4	2	0. 7	1	0. 4	7	0. 6
	Female	0	0. 0	0	0. 0	0	0. 0	2	0. 7	2	0. 2
	Total	3	0. 5	1	0. 2	2	0. 4	3	0. 5	9	0. 4
8mg/dl	Male	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
	Total	0	0. 0	0	0. 0	0	0. 0	0	0. 0	0	0. 0

Protein (mg/dL)

		40–49yr		50–59yr		60–69yr		70–79yr		Total	
		N	%	N	%	N	%	N	%	N	%
Negative	Male	254	87. 3	249	88. 3	251	88. 7	229	81. 2	983	86. 4
	Female	222	85. 7	253	91. 3	245	86. 0	227	80. 8	947	85. 9
	Total	476	86. 5	502	89. 8	496	87. 3	456	81. 0	1930	86. 2
±	Male	33	11. 3	24	8. 5	21	7. 4	41	14. 5	119	10. 5
	Female	32	12. 4	21	7. 6	28	9. 8	43	15. 3	124	11. 3
	Total	65	11. 8	45	8. 1	49	8. 6	84	14. 9	243	10. 8
30mg/dl	Male	4	1. 4	8	2. 8	9	3. 2	7	2. 5	28	2. 5
	Female	5	1. 9	3	1. 1	8	2. 8	9	3. 2	25	2. 3
	Total	9	1. 6	11	2. 0	17	3. 0	16	2. 8	53	2. 4
100mg/dl	Male	0	0. 0	1	0. 4	2	0. 7	5	1. 8	8	0. 7
	Female	0	0. 0	0	0. 0	3	1. 1	2	0. 7	5	0. 5
	Total	0	0. 0	1	0. 2	5	0. 9	7	1. 2	13	0. 6
250mg/dl	Male	0	0. 0	0	0. 0	0	0. 0	0	0. 0	0	0. 0
	Female	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	0	0. 0	1	0. 0
1000mg/dl	Male	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
	Total	0	0. 0	0	0. 0	0	0. 0	0	0. 0	0	0. 0

Glucose (mg/dL)

		40–49yr		50–59yr		60–69yr		70–79yr		Total	
		N	%	N	%	N	%	N	%	N	%
Negative	Male	287	98. 6	274	97. 2	266	94. 0	268	95. 4	1095	96. 3
	Female	259	100. 0	272	98. 2	279	97. 9	273	97. 2	1083	98. 3
	Total	546	99. 3	546	97. 7	545	96. 0	541	96. 3	2178	97. 3

±	Male	2	0.7	2	0.7	2	0.7	1	0.4	7	0.6
	Female	0	0.0	2	0.7	3	1.1	1	0.4	6	0.5
	Total	2	0.4	4	0.7	5	0.9	2	0.4	13	0.6
150mg/dl	Male	1	0.3	3	1.1	12	4.2	5	1.8	21	1.8
	Female	0	0.0	2	0.7	1	0.4	4	1.4	7	0.6
	Total	1	0.2	5	0.9	13	2.3	9	1.6	28	1.3
500mg/dl	Male	1	0.3	2	0.7	2	0.7	3	1.1	8	0.7
	Female	0	0.0	1	0.4	1	0.4	3	1.1	5	0.5
	Total	1	0.2	3	0.5	3	0.5	6	1.1	13	0.6
2000mg/dl	Male	0	0.0	1	0.4	1	0.4	4	1.4	6	0.5
	Female	0	0.0	0	0.0	1	0.4	0	0.0	1	0.1
	Total	0	0.0	1	0.2	2	0.4	4	0.7	7	0.3

pH

		40–49yr		50–59yr		60–69yr		70–79yr		Total	
		N	%	N	%	N	%	N	%	N	%
pH5	Male	135	46.4	137	48.6	150	53.0	136	48.2	558	49.0
	Female	134	51.7	144	52.0	129	45.3	131	46.6	538	48.8
	Total	269	48.9	281	50.3	279	49.1	267	47.4	1096	48.9
pH6	Male	85	29.2	83	29.4	74	26.1	72	25.5	314	27.6
	Female	65	25.1	79	28.5	77	27.0	82	29.2	303	27.5
	Total	150	27.3	162	29.0	151	26.6	154	27.4	617	27.5
pH7	Male	64	22.0	53	18.8	49	17.3	64	22.7	230	20.2
	Female	52	20.1	46	16.6	69	24.2	54	19.2	221	20.1
	Total	116	21.1	99	17.7	118	20.8	118	21.0	451	20.1
pH8	Male	7	2.4	8	2.8	9	3.2	10	3.5	34	3.0
	Female	7	2.7	8	2.9	10	3.5	14	5.0	39	3.5
	Total	14	2.5	16	2.9	19	3.3	24	4.3	73	3.3
pH9	Male	0	0.0	1	0.4	1	0.4	0	0.0	2	0.2
	Female	1	0.4	0	0.0	0	0.0	0	0.0	1	0.1
	Total	1	0.2	1	0.2	1	0.2	0	0.0	3	0.1

Nitrite

		40–49yr		50–59yr		60–69yr		70–79yr		Total	
		N	%	N	%	N	%	N	%	N	%
Negative	Male	291	100.0	280	99.3	282	99.6	280	99.3	1133	99.6
	Female	258	99.6	277	100.0	283	99.6	272	96.8	1090	99.0
	Total	549	99.8	557	99.6	565	99.6	552	98.0	2223	99.3
Positive	Male	0	0.0	2	0.7	1	0.4	2	0.7	5	0.4
	Female	1	0.4	0	0.0	1	0.4	9	3.2	11	1.0
	Total	1	0.2	2	0.4	2	0.4	11	2.0	16	0.7

