

6. Specular microscope

Corneal thickness was obtained with the Topcon SP-2000 specular microscope.

Central Corneal Thickness - Right Eye (mm)

| | 40 - 49yr | | | 50 - 59yr | | | 60 - 69yr | | | 70 - 79yr | | | 80 - yr | | | Total | | |
|--------|-----------|-------|-----|-----------|-------|-----|-----------|-------|-----|-----------|-------|-----|---------|-------|-----|-------|-------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 0.523 | 0.031 | 285 | 0.525 | 0.032 | 295 | 0.519 | 0.031 | 298 | 0.519 | 0.031 | 253 | 0.514 | 0.033 | 53 | 0.521 | 0.031 | 1184 |
| Female | 0.517 | 0.031 | 294 | 0.513 | 0.035 | 283 | 0.517 | 0.032 | 273 | 0.515 | 0.028 | 281 | 0.514 | 0.030 | 55 | 0.515 | 0.032 | 1186 |
| Total | 0.520 | 0.031 | 579 | 0.519 | 0.034 | 578 | 0.518 | 0.032 | 571 | 0.517 | 0.030 | 534 | 0.514 | 0.031 | 108 | 0.518 | 0.032 | 2370 |

Central Corneal Thickness - Left Eye (mm)

| | 40 - 49yr | | | 50 - 59yr | | | 60 - 69yr | | | 70 - 79yr | | | 80 - yr | | | Total | | |
|--------|-----------|-------|-----|-----------|-------|-----|-----------|-------|-----|-----------|-------|-----|---------|-------|-----|-------|-------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 0.526 | 0.031 | 286 | 0.529 | 0.032 | 293 | 0.523 | 0.030 | 296 | 0.524 | 0.032 | 252 | 0.521 | 0.031 | 53 | 0.525 | 0.031 | 1180 |
| Female | 0.521 | 0.031 | 294 | 0.517 | 0.035 | 283 | 0.522 | 0.032 | 272 | 0.521 | 0.029 | 282 | 0.517 | 0.031 | 56 | 0.520 | 0.031 | 1187 |
| Total | 0.524 | 0.031 | 580 | 0.523 | 0.034 | 576 | 0.523 | 0.031 | 568 | 0.523 | 0.030 | 534 | 0.519 | 0.031 | 109 | 0.523 | 0.031 | 2367 |

2) Auditory system

1. Pure-tone audiometry (Audiometer RION AA-73A)

Air conduction threshold of right ear at 125Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|-----|-----|------|-----|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 20.1 | 7.6 | 285 | 22.5 | 8.0 | 295 | 27.6 | 12.0 | 300 | 32.5 | 13.2 | 254 | 37.8 | 15.0 | 52 | 26.0 | 11.8 | 1186 |
| Female | 19.8 | 5.8 | 293 | 23.1 | 9.0 | 282 | 27.7 | 11.7 | 273 | 34.4 | 13.6 | 283 | 39.9 | 11.5 | 59 | 26.9 | 12.1 | 1190 |
| Total | 19.9 | 6.7 | 578 | 22.8 | 8.5 | 577 | 27.6 | 11.9 | 573 | 33.5 | 13.4 | 537 | 38.9 | 13.2 | 111 | 26.4 | 12.0 | 2376 |

Air conduction threshold of right ear at 250Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|-----|-----|------|-----|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 18.4 | 7.8 | 285 | 20.3 | 8.0 | 295 | 25.0 | 13.4 | 300 | 30.6 | 14.5 | 254 | 35.8 | 17.6 | 52 | 23.9 | 12.7 | 1186 |
| Female | 17.8 | 6.0 | 293 | 21.0 | 8.9 | 282 | 25.5 | 13.3 | 273 | 32.7 | 15.2 | 283 | 37.5 | 14.4 | 59 | 24.8 | 13.1 | 1190 |
| Total | 18.1 | 6.9 | 578 | 20.7 | 8.5 | 577 | 25.2 | 13.3 | 573 | 31.7 | 14.9 | 537 | 36.7 | 15.9 | 111 | 24.4 | 12.9 | 2376 |

Air conduction threshold of right ear at 500Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|-----|-----|------|-----|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 14.2 | 7.0 | 285 | 16.4 | 8.3 | 295 | 21.4 | 15.0 | 300 | 28.0 | 15.7 | 254 | 32.6 | 17.0 | 52 | 20.3 | 13.5 | 1186 |
| Female | 13.8 | 6.7 | 293 | 16.8 | 9.4 | 282 | 22.3 | 14.8 | 273 | 30.1 | 16.4 | 283 | 37.1 | 16.6 | 59 | 21.5 | 14.4 | 1190 |
| Total | 14.0 | 6.9 | 578 | 16.6 | 8.8 | 577 | 21.8 | 14.9 | 573 | 29.1 | 16.1 | 537 | 35.0 | 16.8 | 111 | 20.9 | 14.0 | 2376 |

Air conduction threshold of right ear at 1000Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|-----|-----|------|-----|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 10.1 | 8.0 | 285 | 13.0 | 8.7 | 295 | 19.2 | 15.3 | 300 | 27.5 | 16.5 | 254 | 33.1 | 14.5 | 52 | 17.9 | 14.5 | 1186 |
| Female | 8.0 | 7.5 | 293 | 12.6 | 9.6 | 282 | 18.2 | 14.5 | 273 | 27.1 | 16.7 | 283 | 32.8 | 16.9 | 59 | 17.2 | 15.0 | 1190 |
| Total | 9.0 | 7.8 | 578 | 12.8 | 9.1 | 577 | 18.7 | 14.9 | 573 | 27.3 | 16.6 | 537 | 32.9 | 15.7 | 111 | 17.5 | 14.8 | 2376 |

Air conduction threshold of right ear at 2000Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|-----|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 12.8 | 9.2 | 285 | 17.4 | 10.4 | 295 | 27.1 | 16.8 | 300 | 35.8 | 17.0 | 254 | 46.3 | 16.4 | 52 | 23.9 | 16.9 | 1186 |
| Female | 11.1 | 9.0 | 293 | 16.1 | 9.3 | 282 | 23.6 | 14.3 | 273 | 32.0 | 16.1 | 283 | 39.4 | 17.0 | 59 | 21.5 | 15.5 | 1190 |
| Total | 11.9 | 9.1 | 578 | 16.8 | 9.9 | 577 | 25.4 | 15.7 | 573 | 33.8 | 16.6 | 537 | 42.7 | 17.0 | 111 | 22.7 | 16.3 | 2376 |

Air conduction threshold of right ear at 4000Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 15.0 | 13.8 | 285 | 23.9 | 16.4 | 295 | 37.3 | 20.8 | 300 | 48.3 | 19.5 | 254 | 58.7 | 15.3 | 52 | 31.9 | 22.2 | 1186 |
| Female | 8.7 | 10.3 | 293 | 14.5 | 10.9 | 282 | 24.2 | 16.7 | 273 | 35.6 | 18.7 | 283 | 46.0 | 19.9 | 59 | 21.9 | 18.7 | 1190 |
| Total | 11.8 | 12.6 | 578 | 19.3 | 14.7 | 577 | 31.0 | 20.0 | 573 | 41.6 | 20.1 | 537 | 51.9 | 18.9 | 111 | 26.9 | 21.1 | 2376 |

Air conduction threshold of right ear at 8000Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 18.1 | 15.9 | 285 | 30.1 | 17.1 | 295 | 46.9 | 21.4 | 300 | 62.7 | 19.5 | 254 | 73.5 | 15.6 | 52 | 40.4 | 25.5 | 1186 |
| Female | 13.8 | 12.0 | 293 | 23.8 | 16.0 | 282 | 38.6 | 20.8 | 273 | 56.0 | 20.7 | 283 | 66.6 | 16.7 | 59 | 34.5 | 24.6 | 1190 |
| Total | 16.0 | 14.2 | 578 | 27.0 | 16.9 | 577 | 43.0 | 21.5 | 573 | 59.2 | 20.4 | 537 | 69.8 | 16.5 | 111 | 37.4 | 25.2 | 2376 |

Bone conduction threshold of right ear at 250Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|-----|-----|------|-----|-----|------|-----|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 14.9 | 7.3 | 285 | 16.7 | 7.9 | 295 | 19.1 | 9.3 | 299 | 23.9 | 10.5 | 254 | 30.4 | 13.6 | 52 | 19.0 | 9.9 | 1185 |
| Female | 15.2 | 6.5 | 293 | 16.6 | 7.2 | 282 | 19.9 | 9.1 | 273 | 27.4 | 11.3 | 282 | 32.4 | 11.1 | 58 | 20.3 | 10.3 | 1188 |
| Total | 15.0 | 6.9 | 578 | 16.6 | 7.5 | 577 | 19.5 | 9.2 | 572 | 25.7 | 11.1 | 536 | 31.5 | 12.3 | 110 | 19.7 | 10.1 | 2373 |

Bone conduction threshold of right ear at 500Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|-----|-----|------|-----|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 8.4 | 7.2 | 285 | 9.7 | 8.7 | 295 | 13.8 | 10.4 | 299 | 19.7 | 12.4 | 254 | 25.1 | 15.7 | 52 | 13.2 | 11.2 | 1185 |
| Female | 8.4 | 7.1 | 293 | 10.3 | 8.4 | 282 | 14.3 | 10.1 | 273 | 22.1 | 12.2 | 282 | 30.2 | 13.6 | 58 | 14.6 | 11.6 | 1188 |
| Total | 8.4 | 7.1 | 578 | 10.0 | 8.5 | 577 | 14.1 | 10.3 | 572 | 21.0 | 12.3 | 536 | 27.8 | 14.8 | 110 | 13.9 | 11.4 | 2373 |

Bone conduction threshold of right ear at 1000Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|-----|-----|------|-----|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 9.2 | 7.5 | 285 | 11.9 | 8.3 | 295 | 17.1 | 11.9 | 299 | 25.8 | 14.4 | 254 | 32.4 | 15.0 | 52 | 16.4 | 13.0 | 1185 |
| Female | 8.1 | 7.8 | 293 | 12.0 | 9.2 | 282 | 17.5 | 11.0 | 273 | 25.6 | 12.6 | 282 | 32.6 | 14.9 | 58 | 16.5 | 12.9 | 1188 |
| Total | 8.6 | 7.7 | 578 | 11.9 | 8.7 | 577 | 17.3 | 11.5 | 572 | 25.7 | 13.5 | 536 | 32.5 | 14.9 | 110 | 16.5 | 12.9 | 2373 |

Bone conduction threshold of right ear at 2000Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|-----|-----|------|-----|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 12.8 | 8.2 | 285 | 17.3 | 9.7 | 295 | 26.3 | 14.3 | 299 | 34.5 | 15.4 | 254 | 44.5 | 16.0 | 52 | 23.4 | 15.4 | 1185 |
| Female | 11.5 | 8.5 | 293 | 16.8 | 8.8 | 282 | 23.0 | 12.3 | 273 | 31.1 | 13.9 | 282 | 38.8 | 14.3 | 58 | 21.4 | 13.9 | 1188 |
| Total | 12.1 | 8.4 | 578 | 17.0 | 9.3 | 577 | 24.7 | 13.4 | 572 | 32.7 | 14.7 | 536 | 41.5 | 15.3 | 110 | 22.4 | 14.7 | 2373 |

Bone conduction threshold of right ear at 4000Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 12.4 | 12.1 | 285 | 20.2 | 14.3 | 295 | 31.2 | 16.2 | 299 | 40.6 | 15.3 | 254 | 49.6 | 10.8 | 52 | 26.7 | 18.3 | 1185 |
| Female | 7.0 | 8.7 | 293 | 11.8 | 9.8 | 282 | 19.9 | 13.7 | 273 | 30.6 | 15.1 | 282 | 40.2 | 15.6 | 58 | 18.3 | 15.8 | 1188 |
| Total | 9.7 | 10.8 | 578 | 16.1 | 13.0 | 577 | 25.8 | 16.0 | 572 | 35.3 | 16.0 | 536 | 44.6 | 14.3 | 110 | 22.5 | 17.6 | 2373 |

Air conduction threshold of left ear at 125Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|-----|-----|------|-----|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 17.8 | 8.3 | 285 | 20.4 | 8.4 | 295 | 24.1 | 10.8 | 299 | 29.7 | 13.3 | 253 | 36.2 | 14.6 | 52 | 23.4 | 11.7 | 1184 |
| Female | 18.1 | 6.1 | 293 | 20.6 | 9.5 | 282 | 25.0 | 11.4 | 273 | 31.5 | 12.7 | 281 | 35.1 | 12.9 | 59 | 24.3 | 11.7 | 1188 |
| Total | 17.9 | 7.3 | 578 | 20.5 | 9.0 | 577 | 24.5 | 11.1 | 572 | 30.7 | 13.0 | 534 | 35.6 | 13.7 | 111 | 23.8 | 11.7 | 2372 |

Air conduction threshold of left ear at 250Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|-----|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 16.4 | 9.0 | 285 | 17.9 | 8.0 | 295 | 22.3 | 13.0 | 300 | 28.4 | 15.1 | 253 | 34.2 | 15.4 | 52 | 21.6 | 12.8 | 1185 |
| Female | 16.0 | 5.9 | 293 | 18.3 | 10.2 | 282 | 22.7 | 12.6 | 273 | 29.5 | 14.1 | 282 | 34.4 | 14.8 | 59 | 22.2 | 12.7 | 1189 |
| Total | 16.2 | 7.6 | 578 | 18.1 | 9.1 | 577 | 22.5 | 12.8 | 573 | 29.0 | 14.6 | 535 | 34.3 | 15.0 | 111 | 21.9 | 12.7 | 2374 |

Air conduction threshold of left ear at 500Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|-----|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 13.4 | 9.5 | 285 | 15.2 | 8.5 | 295 | 19.7 | 14.7 | 300 | 26.7 | 16.3 | 253 | 32.2 | 16.2 | 52 | 19.1 | 13.9 | 1185 |
| Female | 12.3 | 6.5 | 293 | 15.2 | 10.6 | 282 | 19.8 | 14.1 | 273 | 27.3 | 15.0 | 282 | 33.5 | 16.9 | 59 | 19.3 | 13.8 | 1189 |
| Total | 12.9 | 8.1 | 578 | 15.2 | 9.6 | 577 | 19.7 | 14.4 | 573 | 27.0 | 15.6 | 535 | 32.9 | 16.5 | 111 | 19.2 | 13.9 | 2374 |

Air conduction threshold of left ear at 1000Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 10.8 | 10.1 | 285 | 13.2 | 9.6 | 295 | 19.3 | 15.9 | 300 | 28.0 | 17.0 | 253 | 33.8 | 17.8 | 52 | 18.2 | 15.4 | 1185 |
| Female | 7.1 | 7.4 | 293 | 12.0 | 11.3 | 282 | 17.2 | 14.8 | 273 | 24.7 | 14.8 | 282 | 31.1 | 18.7 | 59 | 16.0 | 14.7 | 1189 |
| Total | 8.9 | 9.0 | 578 | 12.6 | 10.5 | 577 | 18.3 | 15.4 | 573 | 26.3 | 16.0 | 535 | 32.4 | 18.2 | 111 | 17.1 | 15.1 | 2374 |

Air conduction threshold of left ear at 2000Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 14.1 | 11.6 | 285 | 18.7 | 11.8 | 295 | 28.5 | 18.0 | 300 | 38.5 | 17.7 | 253 | 46.4 | 19.1 | 52 | 25.5 | 18.2 | 1185 |
| Female | 10.9 | 9.2 | 293 | 16.8 | 11.3 | 282 | 23.0 | 14.3 | 273 | 31.3 | 14.5 | 282 | 39.0 | 18.7 | 59 | 21.3 | 15.4 | 1189 |
| Total | 12.5 | 10.6 | 578 | 17.8 | 11.6 | 577 | 25.9 | 16.5 | 573 | 34.7 | 16.5 | 535 | 42.5 | 19.2 | 111 | 23.4 | 17.0 | 2374 |

Air conduction threshold of left ear at 4000Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 15.8 | 15.1 | 285 | 26.3 | 17.2 | 295 | 38.8 | 19.7 | 300 | 49.6 | 18.0 | 253 | 61.0 | 16.7 | 52 | 33.5 | 22.1 | 1185 |
| Female | 8.7 | 9.9 | 293 | 15.8 | 12.8 | 282 | 25.5 | 17.2 | 273 | 35.4 | 17.1 | 282 | 46.7 | 19.0 | 59 | 22.5 | 18.6 | 1189 |
| Total | 12.2 | 13.2 | 578 | 21.2 | 16.0 | 577 | 32.5 | 19.7 | 573 | 42.1 | 18.9 | 535 | 53.4 | 19.3 | 111 | 27.9 | 21.2 | 2374 |

Air conduction threshold of left ear at 8000Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 17.0 | 16.2 | 285 | 29.1 | 19.4 | 295 | 45.3 | 21.0 | 300 | 61.8 | 18.6 | 253 | 72.0 | 17.7 | 52 | 39.2 | 25.8 | 1185 |
| Female | 11.1 | 11.2 | 293 | 22.5 | 16.2 | 282 | 36.0 | 19.6 | 273 | 54.1 | 19.2 | 282 | 65.3 | 16.2 | 59 | 32.4 | 24.2 | 1189 |
| Total | 14.0 | 14.2 | 578 | 25.9 | 18.2 | 577 | 40.9 | 20.8 | 573 | 57.7 | 19.3 | 535 | 68.5 | 17.2 | 111 | 35.8 | 25.2 | 2374 |

Bone conduction threshold of left ear at 250Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|-----|-----|------|-----|-----|------|-----|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 14.2 | 7.0 | 285 | 16.3 | 7.2 | 295 | 18.3 | 9.2 | 300 | 24.9 | 11.7 | 253 | 29.9 | 13.7 | 52 | 18.7 | 10.2 | 1185 |
| Female | 14.3 | 6.3 | 293 | 15.1 | 7.6 | 282 | 19.2 | 8.4 | 273 | 26.0 | 11.9 | 281 | 31.6 | 11.4 | 58 | 19.2 | 10.4 | 1187 |
| Total | 14.3 | 6.6 | 578 | 15.7 | 7.5 | 577 | 18.7 | 8.8 | 573 | 25.5 | 11.8 | 534 | 30.8 | 12.5 | 110 | 19.0 | 10.3 | 2372 |

Bone conduction threshold of left ear at 500Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|-----|-----|------|-----|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 8.2 | 8.4 | 285 | 9.6 | 8.4 | 295 | 12.6 | 10.1 | 300 | 20.8 | 13.4 | 253 | 26.7 | 17.1 | 52 | 13.2 | 11.9 | 1185 |
| Female | 7.5 | 7.0 | 293 | 9.4 | 8.3 | 282 | 13.8 | 9.8 | 273 | 21.1 | 13.0 | 281 | 27.8 | 13.7 | 58 | 13.6 | 11.7 | 1187 |
| Total | 7.8 | 7.7 | 578 | 9.5 | 8.3 | 577 | 13.2 | 10.0 | 573 | 20.9 | 13.2 | 534 | 27.3 | 15.4 | 110 | 13.4 | 11.8 | 2372 |

Bone conduction threshold of left ear at 1000Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|-----|-----|------|-----|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 9.7 | 9.2 | 285 | 12.2 | 8.6 | 295 | 17.4 | 11.8 | 300 | 27.0 | 14.8 | 253 | 32.1 | 17.4 | 52 | 17.0 | 13.5 | 1185 |
| Female | 7.6 | 8.0 | 293 | 11.8 | 9.5 | 282 | 17.2 | 11.2 | 273 | 25.0 | 12.9 | 281 | 31.7 | 16.4 | 58 | 16.1 | 13.1 | 1187 |
| Total | 8.7 | 8.7 | 578 | 12.0 | 9.0 | 577 | 17.3 | 11.5 | 573 | 25.9 | 13.9 | 534 | 31.9 | 16.8 | 110 | 16.5 | 13.3 | 2372 |

Bone conduction threshold of left ear at 2000Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 14.6 | 10.3 | 285 | 19.6 | 11.7 | 295 | 27.7 | 14.7 | 300 | 38.5 | 16.0 | 253 | 46.2 | 17.7 | 52 | 25.7 | 16.6 | 1185 |
| Female | 12.3 | 8.9 | 293 | 17.9 | 9.6 | 282 | 23.8 | 12.1 | 273 | 31.6 | 13.6 | 281 | 39.2 | 14.8 | 58 | 22.2 | 13.9 | 1187 |
| Total | 13.5 | 9.6 | 578 | 18.8 | 10.8 | 577 | 25.9 | 13.7 | 573 | 34.9 | 15.2 | 534 | 42.5 | 16.5 | 110 | 23.9 | 15.4 | 2372 |

Bone conduction threshold of left ear at 4000Hz (dBHL)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 12.8 | 12.3 | 285 | 21.6 | 14.5 | 295 | 32.3 | 16.0 | 300 | 42.3 | 14.5 | 253 | 50.2 | 11.5 | 52 | 27.9 | 18.4 | 1185 |
| Female | 7.2 | 8.5 | 293 | 12.9 | 10.7 | 282 | 21.2 | 14.3 | 273 | 31.2 | 14.8 | 281 | 41.6 | 14.3 | 58 | 19.1 | 16.0 | 1187 |
| Total | 10.0 | 10.9 | 578 | 17.3 | 13.5 | 577 | 27.0 | 16.2 | 573 | 36.4 | 15.6 | 534 | 45.6 | 13.7 | 110 | 23.5 | 17.8 | 2372 |

2. Impedance Audiometry

Tympanometric peak pressure in the single frequency tympanogram at 226Hz for right ear (daPa)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|------|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 1.7 | 16.9 | 281 | -3.9 | 33.8 | 283 | -7.7 | 42.6 | 286 | -9.3 | 41.9 | 238 | -6.0 | 34.7 | 51 | -4.7 | 35.2 | 1139 |
| Female | 3.4 | 13.1 | 291 | -2.3 | 28.7 | 277 | -2.5 | 40.9 | 263 | -8.2 | 41.5 | 264 | -17.8 | 50.9 | 54 | -3.0 | 34.1 | 1149 |
| Total | 2.6 | 15.1 | 572 | -3.1 | 31.3 | 560 | -5.2 | 41.8 | 549 | -8.7 | 41.6 | 502 | -12.0 | 44.0 | 105 | -3.8 | 34.7 | 2288 |

Static compliance in the single frequency tympanogram at 226Hz for right ear (ml)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 0.85 | 0.74 | 281 | 1.01 | 0.91 | 283 | 1.03 | 0.92 | 286 | 0.94 | 0.87 | 238 | 0.89 | 0.76 | 51 | 0.96 | 0.86 | 1139 |
| Female | 0.69 | 0.47 | 291 | 0.79 | 0.73 | 277 | 0.76 | 0.76 | 263 | 0.71 | 0.75 | 264 | 0.52 | 0.33 | 54 | 0.73 | 0.67 | 1149 |
| Total | 0.77 | 0.62 | 572 | 0.90 | 0.83 | 560 | 0.90 | 0.86 | 549 | 0.82 | 0.82 | 502 | 0.70 | 0.61 | 105 | 0.84 | 0.78 | 2288 |

Tympanometric peak pressure in the single frequency tympanogram at 226Hz for left ear (daPa).

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|------|-----|------|------|-----|------|------|-----|-------|------|-----|-------|-------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 0.7 | 21.6 | 280 | -4.8 | 33.2 | 284 | -6.7 | 41.3 | 283 | -11.7 | 51.4 | 243 | 12.3 | 138.1 | 49 | -4.6 | 47.0 | 1139 |
| Female | 5.1 | 12.9 | 279 | -0.1 | 28.8 | 269 | -6.4 | 38.8 | 256 | -8.4 | 60.6 | 246 | -22.0 | 57.7 | 54 | -3.2 | 40.2 | 1104 |
| Total | 2.9 | 17.9 | 559 | -2.5 | 31.2 | 553 | -6.6 | 40.1 | 539 | -10.0 | 56.2 | 489 | -5.7 | 104.9 | 103 | -3.9 | 43.8 | 2243 |

Static compliance in the single frequency tympanogram at 226Hz for left ear (ml)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|-------|------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 0.87 | 0.70 | 280 | 0.89 | 0.76 | 284 | 1.01 | 0.88 | 283 | 0.95 | 0.86 | 243 | 0.85 | 0.80 | 48 | 0.93 | 0.80 | 1138 |
| Female | 0.70 | 0.54 | 279 | 0.74 | 0.70 | 269 | 0.74 | 0.72 | 256 | 0.69 | 0.84 | 246 | 0.57 | 0.41 | 54 | 0.71 | 0.69 | 1104 |
| Total | 0.78 | 0.63 | 559 | 0.82 | 0.73 | 553 | 0.88 | 0.82 | 539 | 0.82 | 0.86 | 489 | 0.70 | 0.64 | 102 | 0.82 | 0.76 | 2242 |

Middle ear resonance frequency for right ear (Hz)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|----|-------|-------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 860.6 | 247.1 | 271 | 819.7 | 212.7 | 272 | 830.8 | 248.2 | 262 | 859.5 | 270.6 | 212 | 788.0 | 245.9 | 46 | 839.4 | 244.4 | 1063 |
| Female | 914.5 | 242.5 | 267 | 852.1 | 242.2 | 260 | 905.7 | 266.9 | 238 | 903.2 | 273.9 | 231 | 889.8 | 277.6 | 44 | 893.3 | 257.5 | 1040 |
| Total | 887.3 | 246.1 | 538 | 835.5 | 227.9 | 532 | 866.4 | 259.7 | 500 | 882.3 | 272.9 | 443 | 837.8 | 265.4 | 90 | 866.1 | 252.4 | 2103 |

Middle ear resonance frequency for left ear (Hz)

| | 40 | | | 50 | | | 60 | | | 70 | | | 80 | | | Total | | |
|--------|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|----|-------|-------|------|
| | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N | Mean | SD | N |
| Male | 827.5 | 225.1 | 260 | 799.6 | 220.2 | 262 | 817.3 | 249.3 | 254 | 815.6 | 248.3 | 199 | 851.1 | 290.2 | 44 | 816.5 | 237.6 | 1019 |
| Female | 886.2 | 231.6 | 261 | 861.7 | 267.7 | 239 | 867.8 | 256.4 | 233 | 901.0 | 274.8 | 210 | 801.1 | 283.1 | 45 | 875.2 | 258.7 | 988 |
| Total | 856.9 | 230.1 | 521 | 829.2 | 245.8 | 501 | 841.5 | 253.7 | 487 | 859.4 | 265.4 | 409 | 825.8 | 286.1 | 89 | 845.4 | 249.9 | 2007 |

3. Distortion product otoacoustic emission (Otoacoustic Distortion Product Analyser, IL092 (F) Otodynamics)

2f1-f2 DPOAEs were measured by ILO 92 with the following parameters for the DP-gram: ratio of primary tones $f_2 / f_1 = 1.22$; stimulus intensity of primary tones $F_1 = 70\text{dB SPL}$ and $F_2 = 70\text{dB SPL}$. DP-gram were recorded in 8 points/octave over a frequency range of the f_2 which extended from 1001 to 6165 Hz. In this manner, 22 points in total were measured.

DP amplitudes above the noise floor at seven f_2 frequencies ($f_2 = 1001, 1416, 2002, 3088, 4004, 5652$ and 6165) were analyzed by age groups.

DP amplitudes above the noise floor at $f_2=1001$ Hz (Right ear)

| | 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 | 5.0 | 6.7 | 277 | 2.6 | 7.2 | 287 | 0.3 | 7.4 | 294 | -2.9 | 7.6 | 241 | -5.5 | 6.9 | 47 | 1.1 | 7.8 | 1146 |
| Female | 5.5 | 7.4 | 293 | 3.0 | 7.7 | 277 | -0.5 | 7.5 | 269 | -2.0 | 7.2 | 272 | -5.4 | 5.7 | 55 | 1.3 | 8.1 | 1166 |
| Total | 5.3 | 7.1 | 570 | 2.8 | 7.4 | 564 | -0.1 | 7.5 | 563 | -2.4 | 7.4 | 513 | -5.4 | 6.2 | 102 | 1.2 | 7.9 | 2312 |

DP amplitudes above the noise floor at $f_2=1001$ Hz (Left ear)

| | 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 | 4.4 | 7.0 | 280 | 2.4 | 7.6 | 286 | 0.3 | 7.4 | 291 | -2.5 | 7.3 | 245 | -4.5 | 6.3 | 49 | 1.0 | 7.8 | 1151 |
| Female | 5.5 | 6.6 | 290 | 3.2 | 7.6 | 277 | 0.5 | 7.3 | 268 | -2.4 | 7.1 | 276 | -5.1 | 5.4 | 56 | 1.4 | 7.8 | 1167 |
| Total | 5.0 | 6.8 | 570 | 2.8 | 7.6 | 563 | 0.4 | 7.4 | 559 | -2.5 | 7.2 | 521 | -4.8 | 5.8 | 105 | 1.2 | 7.8 | 2318 |

DP amplitudes above the noise floor at $f_2=1416$ Hz (Right ear)

| | 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 | 9.9 | 7.3 | 277 | 7.6 | 8.5 | 287 | 5.0 | 8.3 | 294 | 1.5 | 9.2 | 241 | -0.7 | 7.9 | 47 | 5.9 | 8.9 | 1146 |
| Female | 11.0 | 6.8 | 293 | 7.7 | 8.5 | 277 | 5.1 | 8.5 | 269 | 1.7 | 8.6 | 270 | -2.4 | 8.3 | 55 | 6.1 | 9.0 | 1164 |
| Total | 10.5 | 7.1 | 570 | 7.7 | 8.5 | 564 | 5.0 | 8.4 | 563 | 1.6 | 8.9 | 511 | -1.6 | 8.1 | 102 | 6.0 | 9.0 | 2310 |

DP amplitudes above the noise floor at $f_2=1416$ Hz (Left ear)

| | 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 | 9.0 | 7.7 | 280 | 7.3 | 8.2 | 286 | 4.3 | 8.2 | 291 | 1.0 | 8.7 | 246 | -1.2 | 7.9 | 49 | 5.3 | 8.8 | 1152 |
| Female | 10.9 | 7.5 | 290 | 8.6 | 8.0 | 277 | 5.3 | 8.3 | 268 | 1.6 | 10.0 | 276 | -1.4 | 6.8 | 56 | 6.3 | 9.2 | 1167 |
| Total | 10.0 | 7.7 | 570 | 8.0 | 8.1 | 563 | 4.8 | 8.2 | 559 | 1.3 | 9.4 | 522 | -1.3 | 7.3 | 105 | 5.8 | 9.0 | 2319 |

DP amplitudes above the noise floor at f2=2002 Hz (Right ear)

| | 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 | 9.6 | 7.6 | 277 | 7.4 | 8.9 | 287 | 4.5 | 8.6 | 294 | 1.5 | 8.9 | 241 | -2.0 | 6.6 | 47 | 5.5 | 9.0 | 1146 |
| Female | 11.8 | 7.1 | 293 | 8.0 | 9.0 | 277 | 5.6 | 9.1 | 269 | 3.1 | 8.8 | 272 | -0.6 | 8.9 | 55 | 6.9 | 9.2 | 1166 |
| Total | 10.7 | 7.4 | 570 | 7.7 | 8.9 | 564 | 5.0 | 8.9 | 563 | 2.4 | 8.9 | 513 | -1.3 | 7.9 | 102 | 6.2 | 9.2 | 2312 |

DP amplitudes above the noise floor at f2=2002 Hz (Left ear)

| | 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 | 9.0 | 7.5 | 280 | 7.1 | 8.5 | 286 | 3.9 | 9.1 | 291 | 0.0 | 9.0 | 246 | -1.8 | 8.3 | 49 | 4.9 | 9.2 | 1152 |
| Female | 11.2 | 7.7 | 290 | 8.5 | 8.9 | 277 | 6.5 | 8.2 | 268 | 3.1 | 8.9 | 276 | 0.9 | 8.2 | 56 | 7.1 | 9.0 | 1167 |
| Total | 10.2 | 7.7 | 570 | 7.8 | 8.8 | 563 | 5.1 | 8.8 | 559 | 1.6 | 9.1 | 522 | -0.3 | 8.3 | 105 | 6.0 | 9.2 | 2319 |

DP amplitudes above the noise floor at f2=3088 Hz (Right ear)

| | 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 | 10.2 | 7.6 | 277 | 5.8 | 8.3 | 287 | 1.3 | 8.5 | 294 | -1.5 | 7.6 | 241 | -4.2 | 6.6 | 47 | 3.7 | 9.2 | 1146 |
| Female | 11.0 | 7.0 | 293 | 7.6 | 8.3 | 277 | 3.9 | 9.0 | 269 | 1.0 | 8.2 | 272 | -1.8 | 8.3 | 55 | 5.6 | 9.1 | 1166 |
| Total | 10.6 | 7.3 | 570 | 6.6 | 8.3 | 564 | 2.5 | 8.8 | 563 | -0.1 | 8.0 | 513 | -2.9 | 7.7 | 102 | 4.7 | 9.2 | 2312 |

DP amplitudes above the noise floor at f2=3088 Hz (Left ear)

| | 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 | 9.6 | 8.2 | 280 | 5.2 | 8.8 | 286 | 1.3 | 8.4 | 291 | -2.6 | 7.8 | 246 | -3.5 | 7.5 | 49 | 3.2 | 9.5 | 1152 |
| Female | 10.7 | 7.8 | 290 | 7.5 | 8.2 | 277 | 4.6 | 8.5 | 268 | 1.3 | 8.7 | 276 | -1.8 | 7.8 | 56 | 5.7 | 9.1 | 1167 |
| Total | 10.1 | 8.0 | 570 | 6.3 | 8.6 | 563 | 2.9 | 8.6 | 559 | -0.5 | 8.5 | 522 | -2.6 | 7.7 | 105 | 4.5 | 9.4 | 2319 |

DP amplitudes above the noise floor at f2=4004 Hz (Right ear)

| | 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 | 10.6 | 8.8 | 277 | 6.5 | 9.6 | 287 | 0.9 | 9.9 | 294 | -2.5 | 7.9 | 240 | -4.5 | 6.5 | 47 | 3.7 | 10.4 | 1145 |
| Female | 13.4 | 7.8 | 293 | 9.4 | 9.0 | 277 | 4.7 | 9.6 | 269 | 1.2 | 9.1 | 272 | -4.2 | 8.9 | 55 | 6.8 | 10.3 | 1166 |
| Total | 12.0 | 8.4 | 570 | 7.9 | 9.4 | 564 | 2.7 | 9.9 | 563 | -0.5 | 8.8 | 512 | -4.3 | 7.9 | 102 | 5.2 | 10.4 | 2311 |

DP amplitudes above the noise floor at f2=4004 Hz (Left ear)

| | 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 | 10.2 | 7.6 | 280 | 5.6 | 9.1 | 286 | 0.4 | 9.6 | 291 | -3.7 | 8.1 | 246 | -5.2 | 7.4 | 49 | 2.9 | 10.1 | 1152 |
| Female | 13.2 | 7.2 | 290 | 9.4 | 8.5 | 277 | 5.2 | 9.0 | 268 | 1.1 | 9.2 | 276 | -2.4 | 8.6 | 56 | 6.9 | 9.8 | 1167 |
| Total | 11.7 | 7.5 | 570 | 7.5 | 9.0 | 563 | 2.7 | 9.6 | 559 | -1.1 | 9.0 | 522 | -3.7 | 8.1 | 105 | 4.9 | 10.1 | 2319 |

DP amplitudes above the noise floor at f2=5652 Hz (Right ear)

| | 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 | 11.1 | 9.8 | 277 | 4.4 | 9.9 | 287 | -0.6 | 8.7 | 294 | -4.9 | 7.5 | 241 | -5.3 | 4.8 | 47 | 2.4 | 10.7 | 1146 |
| Female | 16.7 | 8.2 | 293 | 10.7 | 10.2 | 277 | 4.5 | 9.9 | 269 | -0.2 | 10.0 | 272 | -5.1 | 7.7 | 55 | 7.5 | 11.7 | 1166 |
| Total | 14.0 | 9.4 | 570 | 7.5 | 10.5 | 564 | 1.8 | 9.7 | 563 | -2.4 | 9.2 | 513 | -5.2 | 6.5 | 102 | 5.0 | 11.5 | 2312 |

DP amplitudes above the noise floor at f2=5652 Hz (Left ear)

| | 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 | 10.6 | 9.7 | 280 | 4.2 | 10.0 | 286 | -1.4 | 8.9 | 291 | -3.9 | 7.1 | 246 | -6.6 | 4.4 | 49 | 2.2 | 10.6 | 1152 |
| Female | 16.2 | 8.3 | 290 | 11.2 | 10.0 | 277 | 4.9 | 10.0 | 268 | -0.1 | 9.4 | 276 | -4.0 | 7.9 | 56 | 7.6 | 11.4 | 1167 |
| Total | 13.4 | 9.4 | 570 | 7.7 | 10.6 | 563 | 1.6 | 10.0 | 559 | -1.9 | 8.6 | 522 | -5.2 | 6.6 | 105 | 4.9 | 11.3 | 2319 |

DP amplitudes above the noise floor at f2=6165 Hz (Right ear)

| | 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 | 10.7 | 9.5 | 277 | 2.9 | 9.9 | 287 | -1.6 | 8.4 | 294 | -5.3 | 7.0 | 241 | -6.3 | 6.8 | 47 | 1.5 | 10.6 | 1146 |
| Female | 15.4 | 8.7 | 293 | 9.0 | 10.2 | 277 | 3.3 | 9.8 | 269 | -0.7 | 9.2 | 272 | -3.9 | 6.9 | 55 | 6.4 | 11.3 | 1166 |
| Total | 13.1 | 9.4 | 570 | 5.9 | 10.5 | 564 | 0.7 | 9.4 | 563 | -2.9 | 8.6 | 513 | -5.0 | 6.9 | 102 | 4.0 | 11.2 | 2312 |

DP amplitudes above the noise floor at f2=6165 Hz (Left ear)

| | 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 | 10.3 | 10.1 | 280 | 3.2 | 9.6 | 286 | -1.5 | 8.4 | 291 | -5.4 | 7.2 | 246 | -7.5 | 6.6 | 49 | 1.5 | 10.7 | 1152 |
| Female | 14.7 | 8.9 | 290 | 9.4 | 10.2 | 277 | 2.5 | 9.5 | 267 | -1.5 | 9.5 | 276 | -4.9 | 9.2 | 56 | 5.9 | 11.6 | 1166 |
| Total | 12.6 | 9.8 | 570 | 6.3 | 10.4 | 563 | 0.4 | 9.1 | 558 | -3.3 | 8.7 | 522 | -6.1 | 8.1 | 105 | 3.7 | 11.4 | 2318 |

IX. Physiological Examinations

IX. Physiological Examinations

1) Cardiovascular system

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

1) Cardiovascular system

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 | 119.5 | 14.0 | 286 | 121.8 | 16.2 | 295 | 122.2 | 16.8 | 300 | 126.7 | 19.8 | 255 | 125.5 | 18.3 | 53 | 122.6 | 17.0 | 1189 |
| Female | 108.9 | 15.0 | 294 | 114.6 | 18.2 | 283 | 120.2 | 18.1 | 273 | 123.4 | 19.4 | 285 | 123.8 | 21.7 | 59 | 117.0 | 18.8 | 1194 |
| Total | 114.1 | 15.4 | 580 | 118.3 | 17.6 | 578 | 121.3 | 17.5 | 573 | 125.0 | 19.6 | 540 | 124.6 | 20.1 | 112 | 119.8 | 18.1 | 2383 |

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 | 75.3 | 9.6 | 286 | 77.4 | 10.4 | 295 | 76.6 | 10.4 | 300 | 75.9 | 10.7 | 255 | 73.0 | 9.9 | 53 | 76.2 | 10.3 | 1189 |
| Female | 67.2 | 9.3 | 294 | 71.4 | 10.9 | 283 | 73.3 | 10.4 | 273 | 72.9 | 11.0 | 285 | 70.7 | 11.6 | 59 | 71.1 | 10.7 | 1194 |
| Total | 71.2 | 10.3 | 580 | 74.4 | 11.1 | 578 | 75.0 | 10.5 | 573 | 74.4 | 10.9 | 540 | 71.8 | 10.8 | 112 | 73.6 | 10.8 | 2383 |

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 | 66.2 | 9.6 | 286 | 67.9 | 9.3 | 295 | 67.8 | 10.1 | 300 | 70.2 | 11.6 | 255 | 72.5 | 10.5 | 53 | 68.1 | 10.3 | 1189 |
| Female | 71.3 | 10.4 | 294 | 71.3 | 9.4 | 283 | 71.3 | 10.3 | 273 | 73.7 | 10.0 | 285 | 73.2 | 9.2 | 59 | 71.9 | 10.0 | 1194 |
| Total | 68.8 | 10.3 | 580 | 69.6 | 9.5 | 578 | 69.4 | 10.3 | 573 | 72.1 | 10.9 | 540 | 72.8 | 9.8 | 112 | 70.1 | 10.3 | 2383 |

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 | 9.3 | 284 | 63.0 | 9.6 | 295 | 62.3 | 9.5 | 300 | 65.3 | 12.8 | 255 | 66.1 | 11.4 | 53 | 63.1 | 10.5 | 1187 |
| Female | 64.7 | 9.4 | 294 | 64.1 | 8.2 | 282 | 64.0 | 9.7 | 273 | 67.0 | 10.7 | 285 | 65.9 | 8.5 | 58 | 65.0 | 9.5 | 1192 |
| Total | 63.0 | 9.5 | 578 | 63.6 | 9.0 | 577 | 63.1 | 9.6 | 573 | 66.2 | 11.7 | 540 | 66.0 | 9.9 | 111 | 64.0 | 10.1 | 2379 |

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 | 154.1 | 22.4 | 283 | 161.0 | 21.7 | 291 | 166.0 | 23.3 | 296 | 166.2 | 23.3 | 242 | 175.7 | 31.0 | 48 | 162.3 | 23.7 | 1160 |
| Female | 144.4 | 18.1 | 294 | 155.0 | 20.4 | 280 | 157.6 | 21.0 | 272 | 158.4 | 22.8 | 280 | 162.6 | 25.3 | 58 | 154.1 | 21.6 | 1184 |
| Total | 149.1 | 20.9 | 577 | 158.0 | 21.3 | 571 | 162.0 | 22.6 | 568 | 162.0 | 23.3 | 522 | 168.5 | 28.7 | 106 | 158.2 | 23.0 | 2344 |

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 | 92.0 | 9.9 | 284 | 91.9 | 10.6 | 295 | 93.7 | 14.2 | 300 | 94.5 | 15.8 | 255 | 96.7 | 18.5 | 53 | 93.2 | 13.1 | 1187 |
| Female | 82.5 | 10.6 | 294 | 84.6 | 10.1 | 282 | 85.7 | 11.6 | 273 | 85.7 | 12.2 | 285 | 86.1 | 15.4 | 58 | 84.7 | 11.4 | 1192 |
| Total | 87.2 | 11.3 | 578 | 88.3 | 11.0 | 577 | 89.9 | 13.6 | 573 | 89.9 | 14.7 | 540 | 91.1 | 17.7 | 111 | 88.9 | 13.0 | 2379 |

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 | 397.1 | 27.3 | 284 | 397.4 | 25.7 | 295 | 401.2 | 27.7 | 299 | 401.4 | 31.0 | 255 | 401.1 | 26.3 | 53 | 399.3 | 27.8 | 1186 |
| Female | 399.1 | 27.3 | 294 | 402.4 | 24.3 | 282 | 406.1 | 29.8 | 273 | 403.9 | 30.6 | 285 | 405.0 | 37.8 | 58 | 402.9 | 28.7 | 1192 |
| Total | 398.1 | 27.3 | 578 | 399.8 | 25.1 | 577 | 403.6 | 28.8 | 572 | 402.7 | 30.8 | 540 | 403.1 | 32.7 | 111 | 401.1 | 28.3 | 2378 |

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 | 398.3 | 19.9 | 284 | 404.3 | 21.3 | 295 | 405.5 | 21.6 | 299 | 414.2 | 24.1 | 255 | 417.4 | 26.0 | 53 | 405.9 | 22.7 | 1186 |
| Female | 411.3 | 19.6 | 294 | 413.5 | 19.0 | 282 | 416.2 | 23.2 | 273 | 423.1 | 22.6 | 285 | 421.1 | 25.8 | 58 | 416.2 | 21.8 | 1192 |
| Total | 404.9 | 20.8 | 578 | 408.8 | 20.7 | 577 | 410.6 | 23.0 | 572 | 418.9 | 23.7 | 540 | 419.3 | 25.8 | 111 | 411.1 | 22.8 | 2378 |

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 | -0.915 | 0.429 | 284 | -0.830 | 0.422 | 293 | -0.822 | 0.459 | 293 | -0.801 | 0.438 | 246 | -0.710 | 0.413 | 49 | -0.838 | 0.439 | 1165 |
| Female | -0.909 | 0.376 | 293 | -0.819 | 0.382 | 281 | -0.784 | 0.395 | 269 | -0.762 | 0.441 | 274 | -0.797 | 0.549 | 58 | -0.819 | 0.411 | 1175 |
| Total | -0.912 | 0.403 | 577 | -0.825 | 0.403 | 574 | -0.804 | 0.430 | 562 | -0.780 | 0.440 | 520 | -0.757 | 0.491 | 107 | -0.828 | 0.425 | 2340 |

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 | 1.604 | 0.498 | 284 | 1.712 | 0.551 | 295 | 1.777 | 0.636 | 300 | 1.823 | 0.689 | 255 | 1.830 | 0.750 | 53 | 1.732 | 0.608 | 1187 |
| Female | 1.243 | 0.421 | 294 | 1.437 | 0.512 | 282 | 1.536 | 0.446 | 273 | 1.651 | 0.625 | 285 | 1.583 | 0.590 | 58 | 1.470 | 0.532 | 1192 |
| Total | 1.421 | 0.494 | 578 | 1.578 | 0.549 | 577 | 1.662 | 0.566 | 573 | 1.732 | 0.661 | 540 | 1.701 | 0.680 | 111 | 1.601 | 0.586 | 2379 |

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 | 51.9 | 28.2 | 283 | 41.8 | 29.8 | 295 | 39.2 | 35.1 | 299 | 34.2 | 33.3 | 253 | 36.8 | 39.7 | 52 | 41.7 | 32.7 | 1182 |
| Female | 57.3 | 27.0 | 294 | 49.1 | 27.8 | 280 | 37.4 | 29.4 | 272 | 29.3 | 28.9 | 285 | 21.8 | 31.3 | 58 | 42.4 | 30.6 | 1189 |
| Total | 54.7 | 27.7 | 577 | 45.4 | 29.0 | 575 | 38.3 | 32.5 | 571 | 31.6 | 31.1 | 538 | 28.9 | 36.2 | 110 | 42.1 | 31.7 | 2371 |

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 | 47.5 | 27.8 | 276 | 49.1 | 28.8 | 289 | 52.2 | 29.3 | 293 | 55.1 | 28.6 | 236 | 62.6 | 25.4 | 47 | 51.3 | 28.7 | 1141 |
| Female | 48.8 | 27.2 | 290 | 52.5 | 23.3 | 278 | 47.8 | 29.6 | 269 | 48.1 | 27.5 | 273 | 51.3 | 32.1 | 55 | 49.4 | 27.3 | 1165 |
| Total | 48.2 | 27.5 | 566 | 50.8 | 26.3 | 567 | 50.1 | 29.5 | 562 | 51.3 | 28.2 | 509 | 56.5 | 29.6 | 102 | 50.3 | 28.0 | 2306 |

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 | 40.0 | 22.8 | 283 | 39.3 | 30.8 | 294 | 40.5 | 32.4 | 298 | 42.4 | 32.7 | 248 | 47.6 | 35.3 | 51 | 40.8 | 30.2 | 1174 |
| Female | 36.4 | 24.2 | 293 | 38.5 | 25.0 | 274 | 38.7 | 28.0 | 268 | 34.9 | 32.4 | 280 | 48.7 | 28.5 | 57 | 37.6 | 27.7 | 1172 |
| Total | 38.2 | 23.6 | 576 | 38.9 | 28.2 | 568 | 39.6 | 30.4 | 566 | 38.4 | 32.7 | 528 | 48.2 | 31.8 | 108 | 39.2 | 29.0 | 2346 |

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 | 3.4 | 1.1 | 219 | 2.8 | 1.2 | 233 | 2.6 | 1.0 | 225 | 2.3 | 1.0 | 176 | 2.3 | 1.4 | 31 | 2.8 | 1.2 | 884 |
| Female | 3.4 | 1.2 | 241 | 2.8 | 1.0 | 231 | 2.5 | 1.0 | 227 | 2.5 | 1.2 | 221 | 2.7 | 1.3 | 41 | 2.8 | 1.2 | 961 |
| Total | 3.4 | 1.1 | 460 | 2.8 | 1.1 | 464 | 2.5 | 1.0 | 452 | 2.4 | 1.1 | 397 | 2.5 | 1.4 | 72 | 2.8 | 1.2 | 1845 |

Minnesota Code

| | | 40 - 49yr | | 50 - 59yr | | 60 - 69yr | | 70 - 79yr | | 80yr - | | Total | |
|----------------------|--------|-----------|------|-----------|------|-----------|------|-----------|------|--------|------|-------|------|
| | | N | % | N | % | N | % | N | % | N | % | N | % |
| Minnesota Code 1-0-0 | Male | 66 | 23.1 | 73 | 24.7 | 49 | 16.3 | 25 | 9.8 | 6 | 11.3 | 219 | 18.4 |
| | Female | 65 | 22.1 | 62 | 21.9 | 41 | 15.0 | 29 | 10.2 | 4 | 6.8 | 201 | 16.8 |
| | Total | 131 | 22.6 | 135 | 23.4 | 90 | 15.7 | 54 | 10.0 | 10 | 8.9 | 420 | 17.6 |
| Minnesota Code 1-1-1 | 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 | 1.7 | 1 | 0.1 |
| | Total | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.2 | 1 | 0.9 | 2 | 0.1 |
| Minnesota Code 1-1-2 | Male | 1 | 0.3 | 1 | 0.3 | 2 | 0.7 | 0 | 0.0 | 1 | 1.9 | 5 | 0.4 |
| | Female | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| | Total | 1 | 0.2 | 1 | 0.2 | 2 | 0.3 | 0 | 0.0 | 1 | 0.9 | 5 | 0.2 |
| Minnesota Code 1-1-3 | Male | 0 | 0.0 | 0 | 0.0 | 1 | 0.3 | 0 | 0.0 | 1 | 1.9 | 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 | 0.3 | 0 | 0.0 | 1 | 0.9 | 3 | 0.1 |
| Minnesota Code 1-1-4 | Male | 0 | 0.0 | 2 | 0.7 | 0 | 0.0 | 2 | 0.8 | 0 | 0.0 | 4 | 0.3 |
| | Female | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 3 | 1.1 | 0 | 0.0 | 3 | 0.3 |
| | Total | 0 | 0.0 | 2 | 0.3 | 0 | 0.0 | 5 | 0.9 | 0 | 0.0 | 7 | 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 | 0 | 0.0 | 1 | 0.3 | 0 | 0.0 | 0 | 0.0 | 1 | 0.1 |
| | 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 | 1 | 0.2 | 0 | 0.0 | 2 | 0.1 |
| Minnesota Code 1-1-7 | 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 | 1 | 0.4 | 0 | 0.0 | 1 | 0.1 |
| | Total | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 2 | 0.4 | 0 | 0.0 | 2 | 0.1 |
| Minnesota Code 1-2-1 | Male | 0 | 0.0 | 1 | 0.3 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.1 |

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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 | 0.2 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.0 |
| Minnesota Code 1-2-2 | Male | 0 | 0.0 | 0 | 0.0 | 2 | 0.7 | 0 | 0.0 | 0 | 0.0 | 2 | 0.2 |
| | 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 | 2 | 0.3 | 1 | 0.2 | 0 | 0.0 | 3 | 0.1 |
| Minnesota Code 1-2-3 | Male | 0 | 0.0 | 1 | 0.3 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.1 |
| | Female | 1 | 0.3 | 1 | 0.4 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 2 | 0.2 |
| | Total | 1 | 0.2 | 2 | 0.3 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 3 | 0.1 |
| Minnesota Code 1-2-4 | Male | 1 | 0.3 | 4 | 1.4 | 2 | 0.7 | 2 | 0.8 | 0 | 0.0 | 9 | 0.8 |
| | Female | 0 | 0.0 | 2 | 0.7 | 4 | 1.5 | 3 | 1.1 | 2 | 3.4 | 11 | 0.9 |
| | Total | 1 | 0.2 | 6 | 1.0 | 6 | 1.0 | 5 | 0.9 | 2 | 1.8 | 20 | 0.8 |
| Minnesota Code 1-2-5 | Male | 0 | 0.0 | 0 | 0.0 | 1 | 0.3 | 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 | 0 | 0.0 | 1 | 0.2 | 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 | 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 | 2 | 0.7 | 1 | 0.4 | 0 | 0.0 | 3 | 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 | 2 | 0.3 | 2 | 0.4 | 0 | 0.0 | 4 | 0.2 |
| Minnesota Code 1-2-8 | Male | 1 | 0.3 | 1 | 0.3 | 1 | 0.3 | 1 | 0.4 | 0 | 0.0 | 4 | 0.3 |
| | Female | 1 | 0.3 | 3 | 1.1 | 2 | 0.7 | 0 | 0.0 | 0 | 0.0 | 6 | 0.5 |
| | Total | 2 | 0.3 | 4 | 0.7 | 3 | 0.5 | 1 | 0.2 | 0 | 0.0 | 10 | 0.4 |
| Minnesota Code 1-3-1 | Male | 0 | 0.0 | 0 | 0.0 | 1 | 0.3 | 0 | 0.0 | 1 | 1.9 | 2 | 0.2 |
| | Female | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.4 | 0 | 0.0 | 1 | 0.1 |

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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 | 1 | 0.2 | 1 | 0.2 | 1 | 0.9 | 3 | 0.1 |
| Minnesota Code 1-3-2 | Male | 1 | 0.3 | 2 | 0.7 | 0 | 0.0 | 4 | 1.6 | 0 | 0.0 | 7 | 0.6 |
| | Female | 3 | 1.0 | 2 | 0.7 | 4 | 1.5 | 2 | 0.7 | 0 | 0.0 | 11 | 0.9 |
| | Total | 4 | 0.7 | 4 | 0.7 | 4 | 0.7 | 6 | 1.1 | 0 | 0.0 | 18 | 0.8 |
| Minnesota Code 1-3-3 | Male | 0 | 0.0 | 2 | 0.7 | 1 | 0.3 | 1 | 0.4 | 1 | 1.9 | 5 | 0.4 |
| | Female | 0 | 0.0 | 0 | 0.0 | 2 | 0.7 | 3 | 1.1 | 2 | 3.4 | 7 | 0.6 |
| | Total | 0 | 0.0 | 2 | 0.3 | 3 | 0.5 | 4 | 0.7 | 3 | 2.7 | 12 | 0.5 |
| Minnesota Code 1-3-4 | Male | 2 | 0.7 | 2 | 0.7 | 2 | 0.7 | 0 | 0.0 | 1 | 1.9 | 7 | 0.6 |
| | Female | 3 | 1.0 | 2 | 0.7 | 5 | 1.8 | 2 | 0.7 | 1 | 1.7 | 13 | 1.1 |
| | Total | 5 | 0.9 | 4 | 0.7 | 7 | 1.2 | 2 | 0.4 | 2 | 1.8 | 20 | 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 | 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 | 2 | 0.7 | 10 | 3.3 | 6 | 2.4 | 1 | 1.9 | 19 | 1.6 |
| | Female | 3 | 1.0 | 5 | 1.8 | 6 | 2.2 | 12 | 4.2 | 4 | 6.8 | 30 | 2.5 |
| | Total | 3 | 0.5 | 7 | 1.2 | 16 | 2.8 | 18 | 3.3 | 5 | 4.5 | 49 | 2.1 |
| Minnesota Code 2-1 | Male | 2 | 0.7 | 6 | 2.0 | 17 | 5.7 | 7 | 2.7 | 2 | 3.8 | 34 | 2.9 |
| | Female | 2 | 0.7 | 2 | 0.7 | 4 | 1.5 | 2 | 0.7 | 1 | 1.7 | 11 | 0.9 |
| | Total | 4 | 0.7 | 8 | 1.4 | 21 | 3.7 | 9 | 1.7 | 3 | 2.7 | 45 | 1.9 |
| 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 | 13 | 4.5 | 1 | 0.3 | 5 | 1.7 | 2 | 0.8 | 2 | 3.8 | 23 | 1.9 |
| | Female | 12 | 4.1 | 8 | 2.8 | 1 | 0.4 | 0 | 0.0 | 0 | 0.0 | 21 | 1.8 |
| | Total | 25 | 4.3 | 9 | 1.6 | 6 | 1.0 | 2 | 0.4 | 2 | 1.8 | 44 | 1.8 |

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