SAGE Gait Study

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Created on May 06, 2022

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#### Overview of Demographics, Socioeconomic and Health Indices for Sub Saharan Africa (Ghana and South Africa combined)

| Characteristic | Ghana, N = 4 8351 | South Africa, N = 3 6661 | p-value2 |
| --- | --- | --- | --- |
| **Age Groups** |  |  | <0·001 |
| [18,49] | 16% (778) | 9·4% (344) |  |
| (49,59] | 34% (1 634) | 41% (1 494) |  |
| (59,69] | 24% (1 141) | 29% (1 077) |  |
| (69,79] | 19% (908) | 15% (552) |  |
| (79,122] | 7·7% (372) | 5·4% (197) |  |
| Unknown | 2 | 2 |  |
| **Age** | 60 (14) | 60 (12) | 0·37 |
| Unknown | 0 | 2 |  |
| **Years of Education** |  |  |  |
| [0,6] | 27% (631) | 36% (822) |  |
| (6,9] | 12% (291) | 34% (780) |  |
| (9,12] | 44% (1 031) | 19% (442) |  |
| (12,15] | 12% (276) | 6·7% (156) |  |
| (15,20] | 4·5% (105) | 4·5% (103) |  |
| (20,25] | 0·6% (15) | 0·3% (8) |  |
| (25,28] | <0·1% (1) | <0·1% (1) |  |
| Unknown | 2 485 | 1 354 |  |
| **Residence** |  |  | <0·001 |
| urban | 41% (1 971) | 66% (2 430) |  |
| rural | 59% (2 864) | 34% (1 230) |  |
| don't know | 0% (0) | 0% (0) |  |
| Unknown | 0 | 6 |  |
| **Marital Status** |  |  |  |
| never married | 2·8% (136) | 16% (569) |  |
| currently married | 59% (2 843) | 47% (1 709) |  |
| cohabiting | 1·3% (62) | 5·6% (207) |  |
| separated/divorced | 13% (634) | 6·1% (224) |  |
| widowed | 23% (1 131) | 24% (893) |  |
| don't know | 0·6% (29) | 1·7% (62) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 0 | 2 |  |
| **Sex** |  |  | <0·001 |
| male | 53% (2 556) | 43% (1 558) |  |
| female | 47% (2 279) | 57% (2 106) |  |
| Unknown | 0 | 2 |  |
| **Income Satisfaction** |  |  |  |
| completely | 1·4% (66) | 2·6% (93) |  |
| mostly | 5·4% (259) | 9·5% (342) |  |
| moderately | 24% (1 145) | 22% (788) |  |
| a little | 44% (2 108) | 35% (1 260) |  |
| not at all | 25% (1 217) | 29% (1 060) |  |
| don't know | 0·7% (34) | 1·9% (67) |  |
| not applicable | <0·1% (3) | 0% (0) |  |
| Unknown | 3 | 56 |  |
| **BMI** |  |  | <0·001 |
| Normal Weight | 57% (2 737) | 25% (925) |  |
| Obese | 10% (487) | 40% (1 455) |  |
| Overweight | 19% (926) | 28% (1 015) |  |
| Underweight | 14% (685) | 7·4% (271) |  |
| **Normal Gait Speed** | 0·78 (0·38) | 0·83 (0·47) | <0·001 |
| **Rapid Gait Speed** | 1·17 (0·48) | 1·29 (0·83) | <0·001 |
| **History of Angina** |  |  | <0·001 |
| yes | 3·3% (161) | 9·1% (331) |  |
| no | 97% (4 669) | 91% (3 294) |  |
| don't know | <0·1% (2) | <0·1% (2) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 3 | 39 |  |
| **History of CLD\*** |  |  | 0·12 |
| yes | 3·4% (166) | 4·2% (154) |  |
| no | 97% (4 664) | 96% (3 471) |  |
| don't know | <0·1% (2) | <0·1% (2) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 3 | 39 |  |
| **History of Asthma** |  |  | <0·001 |
| yes | 1·3% (63) | 3·1% (111) |  |
| no | 99% (4 767) | 97% (3 512) |  |
| don't know | <0·1% (2) | 0·1% (4) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 3 | 39 |  |
| **History of Arthritis** |  |  | <0·001 |
| yes | 1·6% (79) | 3·1% (112) |  |
| no | 98% (4 751) | 97% (3 513) |  |
| don't know | <0·1% (2) | <0·1% (2) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 3 | 39 |  |
| **History of Stroke** |  |  | <0·001 |
| yes | 3·0% (144) | 5·4% (195) |  |
| no | 97% (4 684) | 95% (3 430) |  |
| don't know | <0·1% (4) | <0·1% (2) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 3 | 39 |  |
| **History of DM\*** |  |  | <0·001 |
| yes | 0·5% (26) | 2·2% (80) |  |
| no | 99% (4 804) | 98% (3 545) |  |
| don't know | <0·1% (2) | <0·1% (2) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 3 | 39 |  |
| **History of RTA\*** |  |  | <0·001 |
| yes | 24% (1 165) | 36% (1 302) |  |
| no | 76% (3 666) | 64% (2 324) |  |
| don't know | <0·1% (1) | 0·2% (6) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 3 | 34 |  |
| **History of Depression** |  |  | <0·001 |
| yes | 12% (565) | 29% (1 049) |  |
| no | 88% (4 264) | 71% (2 572) |  |
| don't know | <0·1% (3) | 0·2% (6) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 3 | 39 |  |
| **History of HPT\*** |  |  | 0·23 |
| yes | 4·2% (201) | 4·1% (150) |  |
| no | 96% (4 623) | 96% (3 464) |  |
| don't know | 0·2% (8) | 0·4% (13) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 3 | 39 |  |
| **History of Cataracts** |  |  | 0·18 |
| yes | 1·7% (82) | 1·4% (52) |  |
| no | 98% (4 749) | 98% (3 571) |  |
| don't know | <0·1% (1) | 0·1% (4) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 3 | 39 |  |
| **History of Tobacco use** |  |  | <0·001 |
| yes | 59% (2 841) | 27% (986) |  |
| no | 41% (1 990) | 73% (2 638) |  |
| don't know | <0·1% (1) | 0·2% (7) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 3 | 35 |  |
| **History of Alcohol use** |  |  | <0·001 |
| yes | 11% (527) | 20% (737) |  |
| no | 89% (4 302) | 80% (2 889) |  |
| don't know | <0·1% (3) | <0·1% (1) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 3 | 39 |  |
| 1% (n); Mean (SD) | | | |
| 2Pearson's Chi-squared test; Welch Two Sample t-test; Fisher's exact test | | | |

#### Ghana Data

| Characteristic | male, N = 2 5561 | female, N = 2 2791 | p-value2 |
| --- | --- | --- | --- |
| **Age Groups** |  |  | <0·001 |
| [18,49] | 17% (430) | 15% (348) |  |
| (49,59] | 36% (916) | 32% (718) |  |
| (59,69] | 24% (625) | 23% (516) |  |
| (69,79] | 16% (402) | 22% (506) |  |
| (79,122] | 7·2% (183) | 8·3% (189) |  |
| Unknown | 0 | 2 |  |
| **Age** | 59 (14) | 60 (14) | <0·001 |
| **Years of Education** |  |  |  |
| [0,6] | 22% (320) | 35% (311) |  |
| (6,9] | 11% (158) | 15% (133) |  |
| (9,12] | 47% (693) | 38% (338) |  |
| (12,15] | 14% (205) | 8·0% (71) |  |
| (15,20] | 5·2% (76) | 3·3% (29) |  |
| (20,25] | 1·0% (14) | 0·1% (1) |  |
| (25,28] | <0·1% (1) | 0% (0) |  |
| Unknown | 1 089 | 1 396 |  |
| **Residence** |  |  | <0·001 |
| urban | 37% (933) | 46% (1 038) |  |
| rural | 63% (1 623) | 54% (1 241) |  |
| don't know | 0% (0) | 0% (0) |  |
| **Marital Status** |  |  |  |
| never married | 2·8% (72) | 2·8% (64) |  |
| currently married | 82% (2 106) | 32% (737) |  |
| cohabiting | 1·2% (31) | 1·4% (31) |  |
| separated/divorced | 7·5% (192) | 19% (442) |  |
| widowed | 5·5% (141) | 43% (990) |  |
| don't know | 0·5% (14) | 0·7% (15) |  |
| not applicable | 0% (0) | 0% (0) |  |
| **Income Satisfaction** |  |  |  |
| completely | 1·6% (42) | 1·1% (24) |  |
| mostly | 5·6% (143) | 5·1% (116) |  |
| moderately | 26% (658) | 21% (487) |  |
| a little | 43% (1 101) | 44% (1 007) |  |
| not at all | 23% (589) | 28% (628) |  |
| don't know | 0·7% (19) | 0·7% (15) |  |
| not applicable | <0·1% (2) | <0·1% (1) |  |
| Unknown | 2 | 1 |  |
| **Normal Gait Speed** | 0·83 (0·37) | 0·73 (0·38) | <0·001 |
| **Rapid Gait Speed** | 1·28 (0·48) | 1·05 (0·44) | <0·001 |
| **BMI** |  |  | <0·001 |
| Normal Weight | 63% (1 609) | 49% (1 128) |  |
| Obese | 6·1% (156) | 15% (331) |  |
| Overweight | 17% (429) | 22% (497) |  |
| Underweight | 14% (362) | 14% (323) |  |
| **History of RTA\*** |  |  | <0·001 |
| yes | 39% (1 003) | 7·1% (162) |  |
| no | 61% (1 550) | 93% (2 116) |  |
| don't know | <0·1% (1) | 0% (0) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 2 | 1 |  |
| **History of Arthritis** |  |  | 0·91 |
| yes | 1·7% (43) | 1·6% (36) |  |
| no | 98% (2 510) | 98% (2 241) |  |
| don't know | <0·1% (1) | <0·1% (1) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 2 | 1 |  |
| **History of Stroke** |  |  | <0·001 |
| yes | 2·1% (54) | 4·0% (90) |  |
| no | 98% (2 498) | 96% (2 186) |  |
| don't know | <0·1% (2) | <0·1% (2) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 2 | 1 |  |
| **History of Angina** |  |  | 0·057 |
| yes | 2·8% (72) | 3·9% (89) |  |
| no | 97% (2 481) | 96% (2 188) |  |
| don't know | <0·1% (1) | <0·1% (1) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 2 | 1 |  |
| **History of DM\*** |  |  | 0·85 |
| yes | 0·6% (15) | 0·5% (11) |  |
| no | 99% (2 538) | 99% (2 266) |  |
| don't know | <0·1% (1) | <0·1% (1) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 2 | 1 |  |
| **History of CLD\*** |  |  | 0·16 |
| yes | 3·0% (77) | 3·9% (89) |  |
| no | 97% (2 476) | 96% (2 188) |  |
| don't know | <0·1% (1) | <0·1% (1) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 2 | 1 |  |
| **History of Asthma** |  |  | <0·001 |
| yes | 0·7% (19) | 1·9% (44) |  |
| no | 99% (2 534) | 98% (2 233) |  |
| don't know | <0·1% (1) | <0·1% (1) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 2 | 1 |  |
| **History of Depression** |  |  | <0·001 |
| yes | 8·5% (217) | 15% (348) |  |
| no | 91% (2 336) | 85% (1 928) |  |
| don't know | <0·1% (1) | <0·1% (2) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 2 | 1 |  |
| **History of HPT\*** |  |  | 0·23 |
| yes | 3·7% (95) | 4·7% (106) |  |
| no | 96% (2 454) | 95% (2 169) |  |
| don't know | 0·2% (5) | 0·1% (3) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 2 | 1 |  |
| **History of Cataracts** |  |  | 0·32 |
| yes | 1·5% (39) | 1·9% (43) |  |
| no | 98% (2 515) | 98% (2 234) |  |
| don't know | 0% (0) | <0·1% (1) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 2 | 1 |  |
| **History of Tobacco use** |  |  | <0·001 |
| yes | 69% (1 756) | 48% (1 085) |  |
| no | 31% (797) | 52% (1 193) |  |
| don't know | <0·1% (1) | 0% (0) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 2 | 1 |  |
| **History of Alcohol use** |  |  | <0·001 |
| yes | 8·1% (208) | 14% (319) |  |
| no | 92% (2 344) | 86% (1 958) |  |
| don't know | <0·1% (2) | <0·1% (1) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 2 | 1 |  |
| 1% (n); Mean (SD) | | | |
| 2Pearson's Chi-squared test; Welch Two Sample t-test; Fisher's exact test | | | |

#### South Africa Data

| Characteristic | male, N = 1 5581 | female, N = 2 1061 | p-value2 |
| --- | --- | --- | --- |
| **Age Groups** |  |  | 0·074 |
| [18,49] | 9·3% (145) | 9·4% (199) |  |
| (49,59] | 43% (664) | 39% (830) |  |
| (59,69] | 30% (463) | 29% (614) |  |
| (69,79] | 13% (207) | 16% (345) |  |
| (79,122] | 5·1% (79) | 5·6% (118) |  |
| **Age** | 60 (12) | 60 (12) | 0·055 |
| **Years of Education** |  |  |  |
| [0,6] | 35% (326) | 36% (496) |  |
| (6,9] | 32% (303) | 35% (477) |  |
| (9,12] | 20% (184) | 19% (257) |  |
| (12,15] | 7·1% (67) | 6·5% (89) |  |
| (15,20] | 5·4% (51) | 3·8% (52) |  |
| (20,25] | 0·6% (6) | 0·1% (2) |  |
| (25,28] | 0·1% (1) | 0% (0) |  |
| Unknown | 620 | 733 |  |
| **Residence** |  |  | 0·50 |
| urban | 66% (1 024) | 67% (1 406) |  |
| rural | 34% (533) | 33% (697) |  |
| don't know | 0% (0) | 0% (0) |  |
| Unknown | 1 | 3 |  |
| **Marital Status** |  |  |  |
| never married | 11% (173) | 19% (396) |  |
| currently married | 66% (1 028) | 32% (681) |  |
| cohabiting | 7·8% (121) | 4·1% (86) |  |
| separated/divorced | 4·8% (75) | 7·1% (149) |  |
| widowed | 9·1% (141) | 36% (752) |  |
| don't know | 1·3% (20) | 2·0% (42) |  |
| not applicable | 0% (0) | 0% (0) |  |
| **Income Satisfaction** |  |  |  |
| completely | 3·2% (49) | 2·1% (44) |  |
| mostly | 12% (180) | 7·8% (162) |  |
| moderately | 22% (334) | 22% (454) |  |
| a little | 33% (509) | 36% (751) |  |
| not at all | 28% (427) | 30% (631) |  |
| don't know | 2·3% (35) | 1·5% (32) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 24 | 32 |  |
| **Normal Gait Speed** | 0·87 (0·48) | 0·80 (0·46) | <0·001 |
| **Rapid Gait Speed** | 1·37 (0·87) | 1·22 (0·79) | <0·001 |
| **BMI** |  |  | <0·001 |
| Normal Weight | 31% (483) | 21% (442) |  |
| Obese | 32% (494) | 46% (961) |  |
| Overweight | 29% (449) | 27% (564) |  |
| Underweight | 8·5% (132) | 6·6% (139) |  |
| **History of RTA\*** |  |  | <0·001 |
| yes | 44% (682) | 30% (619) |  |
| no | 56% (856) | 70% (1 467) |  |
| don't know | 0·2% (3) | 0·1% (3) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 17 | 17 |  |
| **History of Arthritis** |  |  | 0·18 |
| yes | 2·8% (43) | 3·3% (68) |  |
| no | 97% (1 493) | 97% (2 019) |  |
| don't know | 0·1% (2) | 0% (0) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 20 | 19 |  |
| **History of Stroke** |  |  | 0·014 |
| yes | 4·2% (65) | 6·2% (130) |  |
| no | 96% (1 472) | 94% (1 956) |  |
| don't know | <0·1% (1) | <0·1% (1) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 20 | 19 |  |
| **History of Angina** |  |  | 0·005 |
| yes | 7·7% (118) | 10% (213) |  |
| no | 92% (1 418) | 90% (1 874) |  |
| don't know | 0·1% (2) | 0% (0) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 20 | 19 |  |
| **History of DM\*** |  |  | 0·27 |
| yes | 2·1% (32) | 2·3% (48) |  |
| no | 98% (1 504) | 98% (2 039) |  |
| don't know | 0·1% (2) | 0% (0) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 20 | 19 |  |
| **History of CLD\*** |  |  | >0·99 |
| yes | 4·2% (65) | 4·3% (89) |  |
| no | 96% (1 472) | 96% (1 997) |  |
| don't know | <0·1% (1) | <0·1% (1) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 20 | 19 |  |
| **History of Asthma** |  |  | 0·005 |
| yes | 2·1% (32) | 3·8% (79) |  |
| no | 98% (1 505) | 96% (2 005) |  |
| don't know | <0·1% (1) | 0·1% (3) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 20 | 19 |  |
| **History of Depression** |  |  | <0·001 |
| yes | 23% (358) | 33% (691) |  |
| no | 77% (1 177) | 67% (1 393) |  |
| don't know | 0·2% (3) | 0·1% (3) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 20 | 19 |  |
| **History of HPT\*** |  |  | 0·50 |
| yes | 3·7% (57) | 4·5% (93) |  |
| no | 96% (1 476) | 95% (1 986) |  |
| don't know | 0·3% (5) | 0·4% (8) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 20 | 19 |  |
| **History of Cataracts** |  |  | 0·11 |
| yes | 1·9% (29) | 1·1% (23) |  |
| no | 98% (1 508) | 99% (2 061) |  |
| don't know | <0·1% (1) | 0·1% (3) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 20 | 19 |  |
| **History of Tobacco use** |  |  | <0·001 |
| yes | 38% (582) | 19% (403) |  |
| no | 62% (956) | 81% (1 681) |  |
| don't know | 0·2% (3) | 0·2% (4) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 17 | 18 |  |
| **History of Alcohol use** |  |  | <0·001 |
| yes | 14% (223) | 25% (513) |  |
| no | 85% (1 314) | 75% (1 574) |  |
| don't know | <0·1% (1) | 0% (0) |  |
| not applicable | 0% (0) | 0% (0) |  |
| Unknown | 20 | 19 |  |
| 1% (n); Mean (SD) | | | |
| 2Pearson's Chi-squared test; Welch Two Sample t-test; Fisher's exact test | | | |

#### Comparison of Mean Gait Speed Across Demographic Variables

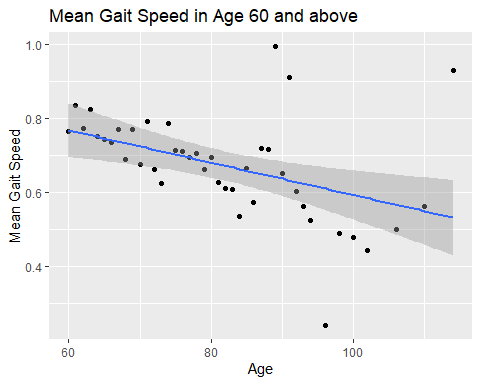
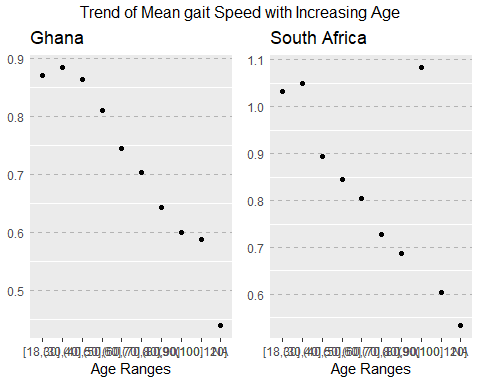
|  | Ghana | | South Africa | |
| --- | --- | --- | --- | --- |
| Characteristic | N = 4 8351 | p-value2 | N = 3 6661 | p-value3 |
| **Age Groups** |  | <0·001 |  | <0·001 |
| [18,49] | 0·87 (0·33) |  | 1·01 (0·57) |  |
| (49,59] | 0·82 (0·39) |  | 0·85 (0·47) |  |
| (59,69] | 0·76 (0·34) |  | 0·80 (0·42) |  |
| (69,79] | 0·70 (0·39) |  | 0·74 (0·44) |  |
| (79,122] | 0·65 (0·44) |  | 0·71 (0·43) |  |
| Unknown | 2 |  | 2 |  |
| **Years of Education** |  | 0·12 |  | <0·001 |
| [0,6] | 0·78 (0·36) |  | 0·82 (0·45) |  |
| (6,9] | 0·80 (0·39) |  | 0·78 (0·42) |  |
| (9,12] | 0·81 (0·38) |  | 0·94 (0·51) |  |
| (12,15] | 0·79 (0·37) |  | 0·92 (0·51) |  |
| (15,20] | 0·88 (0·38) |  | 0·78 (0·62) |  |
| (20,25] | 0·72 (0·23) |  | 0·75 (0·35) |  |
| (25,28] | 0·77 (NA) |  | 0·66 (NA) |  |
| Unknown | 2 485 |  | 1 354 |  |
| **Residence** |  | <0·001 |  | <0·001 |
| urban | 0·76 (0·39) |  | 0·80 (0·46) |  |
| rural | 0·80 (0·37) |  | 0·87 (0·49) |  |
| don't know | NA (NA) |  | NA (NA) |  |
| Unknown |  |  | 6 |  |
| **Sex** |  | <0·001 |  | <0·001 |
| male | 0·83 (0·37) |  | 0·87 (0·48) |  |
| female | 0·73 (0·38) |  | 0·80 (0·46) |  |
| Unknown |  |  | 2 |  |
| **Income Satisfaction** |  | <0·001 |  | <0·001 |
| completely | 0·89 (0·60) |  | 1·09 (0·57) |  |
| mostly | 0·86 (0·59) |  | 0·88 (0·54) |  |
| moderately | 0·81 (0·44) |  | 0·79 (0·44) |  |
| a little | 0·77 (0·31) |  | 0·81 (0·45) |  |
| not at all | 0·75 (0·36) |  | 0·81 (0·45) |  |
| don't know | 0·82 (0·29) |  | 1·04 (0·67) |  |
| not applicable | 0·65 (0·20) |  | NA (NA) |  |
| Unknown | 3 |  | 56 |  |
| **Marital Status** |  | <0·001 |  | <0·001 |
| never married | 0·85 (0·41) |  | 0·80 (0·41) |  |
| currently married | 0·81 (0·35) |  | 0·87 (0·50) |  |
| cohabiting | 0·81 (0·28) |  | 0·91 (0·53) |  |
| separated/divorced | 0·76 (0·47) |  | 0·82 (0·42) |  |
| widowed | 0·69 (0·39) |  | 0·74 (0·41) |  |
| don't know | 0·90 (0·51) |  | 0·90 (0·55) |  |
| not applicable | NA (NA) |  | NA (NA) |  |
| Unknown |  |  | 2 |  |
| 1 Normal Gait Speed: Mean (SD) | | | | |
| 2One-way ANOVA; Welch Two Sample t-test | | | | |
| 3One-way ANOVA | | | | |

|  | Ghana | | South Africa | |
| --- | --- | --- | --- | --- |
| Characteristic | N = 4 8351 | p-value2 | N = 3 6661 | p-value2 |
| **BMI** |  | <0·001 |  | <0·001 |
| Normal Weight | 0·80 (0·37) |  | 0·86 (0·46) |  |
| Obese | 0·69 (0·36) |  | 0·77 (0·45) |  |
| Overweight | 0·78 (0·40) |  | 0·88 (0·50) |  |
| Underweight | 0·75 (0·39) |  | 0·85 (0·43) |  |
| **History of RTA\*** |  | 0·003 |  | 0·75 |
| yes | 0·81 (0·36) |  | 0·83 (0·44) |  |
| no | 0·77 (0·39) |  | 0·82 (0·48) |  |
| don't know | 0·89 (NA) |  | 0·95 (0·51) |  |
| not applicable | NA (NA) |  | NA (NA) |  |
| Unknown | 3 |  | 34 |  |
| **History of Arthritis** |  | <0·001 |  | 0·002 |
| yes | 0·58 (0·27) |  | 0·67 (0·34) |  |
| no | 0·78 (0·38) |  | 0·83 (0·47) |  |
| don't know | 0·94 (0·02) |  | 0·65 (0·21) |  |
| not applicable | NA (NA) |  | NA (NA) |  |
| Unknown | 3 |  | 39 |  |
| **History of Stroke** |  | <0·001 |  | 0·87 |
| yes | 0·65 (0·25) |  | 0·81 (0·52) |  |
| no | 0·78 (0·38) |  | 0·83 (0·46) |  |
| don't know | 0·80 (0·20) |  | 0·73 (0·09) |  |
| not applicable | NA (NA) |  | NA (NA) |  |
| Unknown | 3 |  | 39 |  |
| **History of Angina** |  | 0·44 |  | <0·001 |
| yes | 0·75 (0·54) |  | 0·72 (0·42) |  |
| no | 0·78 (0·37) |  | 0·84 (0·47) |  |
| don't know | 0·94 (0·02) |  | 0·90 (0·14) |  |
| not applicable | NA (NA) |  | NA (NA) |  |
| Unknown | 3 |  | 39 |  |
| **History of DM\*** |  | 0·42 |  | 0·73 |
| yes | 0·69 (0·31) |  | 0·86 (0·56) |  |
| no | 0·78 (0·38) |  | 0·83 (0·46) |  |
| don't know | 0·94 (0·02) |  | 0·72 (0·11) |  |
| not applicable | NA (NA) |  | NA (NA) |  |
| Unknown | 3 |  | 39 |  |
| **History of CLD\*** |  | 0·021 |  | 0·93 |
| yes | 0·70 (0·36) |  | 0·81 (0·44) |  |
| no | 0·78 (0·38) |  | 0·83 (0·47) |  |
| don't know | 0·94 (0·02) |  | 0·87 (0·09) |  |
| not applicable | NA (NA) |  | NA (NA) |  |
| Unknown | 3 |  | 39 |  |
| **History of Asthma** |  | 0·002 |  | 0·96 |
| yes | 0·62 (0·29) |  | 0·82 (0·41) |  |
| no | 0·78 (0·38) |  | 0·83 (0·47) |  |
| don't know | 0·94 (0·02) |  | 0·77 (0·22) |  |
| not applicable | NA (NA) |  | NA (NA) |  |
| Unknown | 3 |  | 39 |  |
| **History of Depression** |  | <0·001 |  | <0·001 |
| yes | 0·72 (0·43) |  | 0·75 (0·44) |  |
| no | 0·79 (0·37) |  | 0·86 (0·47) |  |
| don't know | 0·79 (0·26) |  | 0·71 (0·13) |  |
| not applicable | NA (NA) |  | NA (NA) |  |
| Unknown | 3 |  | 39 |  |
| **History of HPT\*** |  | 0·002 |  | 0·14 |
| yes | 0·69 (0·38) |  | 0·77 (0·51) |  |
| no | 0·78 (0·38) |  | 0·83 (0·47) |  |
| don't know | 0·89 (0·21) |  | 0·64 (0·29) |  |
| not applicable | NA (NA) |  | NA (NA) |  |
| Unknown | 3 |  | 39 |  |
| **History of Cataracts** |  | 0·90 |  | 0·26 |
| yes | 0·77 (0·31) |  | 0·93 (0·46) |  |
| no | 0·78 (0·38) |  | 0·82 (0·47) |  |
| don't know | 0·93 (NA) |  | 0·70 (0·12) |  |
| not applicable | NA (NA) |  | NA (NA) |  |
| Unknown | 3 |  | 39 |  |
| **History of Tobacco use** |  | <0·001 |  | 0·003 |
| yes | 0·80 (0·38) |  | 0·87 (0·45) |  |
| no | 0·75 (0·38) |  | 0·81 (0·47) |  |
| don't know | 1·25 (NA) |  | 0·67 (0·20) |  |
| not applicable | NA (NA) |  | NA (NA) |  |
| Unknown | 3 |  | 35 |  |
| **History of Alcohol use** |  | <0·001 |  | <0·001 |
| yes | 0·62 (0·29) |  | 0·73 (0·42) |  |
| no | 0·80 (0·38) |  | 0·85 (0·48) |  |
| don't know | 0·92 (0·18) |  | 0·80 (NA) |  |
| not applicable | NA (NA) |  | NA (NA) |  |
| Unknown | 3 |  | 39 |  |
| 1 Normal Gait Speed: Mean (SD) | | | | |
| 2One-way ANOVA | | | | |

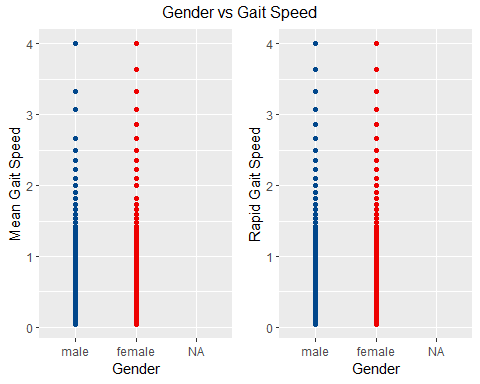
| Characteristic | Ghana, N = 4 8351 | South Africa, N = 3 6661 | p-value2 |
| --- | --- | --- | --- |
| **in sitting for long periods?** |  |  |  |
| none | 46% (2 224) | 62% (2 264) |  |
| mild | 29% (1 393) | 21% (759) |  |
| moderate | 19% (916) | 14% (513) |  |
| severe | 6·0% (289) | 3·2% (118) |  |
| extreme | 0·2% (8) | 0·2% (7) |  |
| don't know | 0·1% (5) | 0·1% (5) |  |
| not applicable | 0% (0) | 0% (0) |  |
| **in taking care of your household  responsibilities?** |  |  | <0·001 |
| none | 57% (2 743) | 67% (2 459) |  |
| mild | 23% (1 132) | 15% (545) |  |
| moderate | 15% (714) | 13% (460) |  |
| severe | 3·5% (167) | 4·1% (152) |  |
| extreme | 1·0% (50) | 1·0% (35) |  |
| don't know | 0·3% (15) | 0·2% (9) |  |
| not applicable | 0·3% (14) | 0·2% (6) |  |
| **did you have in learning a new task?** |  |  |  |
| none | 47% (2 280) | 51% (1 855) |  |
| mild | 27% (1 298) | 19% (709) |  |
| moderate | 20% (980) | 22% (805) |  |
| severe | 4·9% (239) | 6·7% (244) |  |
| extreme | 0·7% (35) | 1·2% (45) |  |
| don't know | <0·1% (3) | 0·2% (8) |  |
| not applicable | 0% (0) | 0% (0) |  |
| **in joining in community activities?** |  |  | <0·001 |
| none | 57% (2 733) | 70% (2 563) |  |
| mild | 18% (872) | 13% (464) |  |
| moderate | 15% (710) | 11% (410) |  |
| severe | 6·4% (308) | 3·9% (144) |  |
| extreme | 3·3% (159) | 1·4% (52) |  |
| don't know | 0·2% (11) | 0·4% (15) |  |
| not applicable | 0·9% (42) | 0·5% (18) |  |
| **concentrating on doing something for  10 minutes?** |  |  |  |
| none | 64% (3 076) | 61% (2 220) |  |
| mild | 23% (1 135) | 17% (629) |  |
| moderate | 10% (501) | 18% (645) |  |
| severe | 1·9% (91) | 3·9% (142) |  |
| extreme | 0·3% (16) | 0·6% (21) |  |
| don't know | 0·2% (12) | 0·2% (9) |  |
| not applicable | <0·1% (4) | 0% (0) |  |
| **in walking a long distance such as a  kilometer?** |  |  | <0·001 |
| none | 45% (2 158) | 52% (1 893) |  |
| mild | 20% (986) | 14% (507) |  |
| moderate | 19% (927) | 18% (650) |  |
| severe | 10% (485) | 13% (461) |  |
| extreme | 5·3% (256) | 4·0% (145) |  |
| don't know | 0·1% (5) | 0·3% (10) |  |
| not applicable | 0·4% (18) | 0% (0) |  |
| **in bathing/washing your whole body?** |  |  |  |
| none | 84% (4 057) | 89% (3 279) |  |
| mild | 10% (488) | 6·2% (226) |  |
| moderate | 4·6% (221) | 3·0% (111) |  |
| severe | 1·0% (47) | 0·9% (32) |  |
| extreme | 0·2% (8) | 0·3% (11) |  |
| don't know | 0·2% (9) | 0·2% (7) |  |
| not applicable | 0·1% (5) | 0% (0) |  |
| **in getting dressed?** |  |  |  |
| none | 84% (4 066) | 91% (3 327) |  |
| mild | 9·5% (458) | 5·1% (187) |  |
| moderate | 5·4% (260) | 3·2% (117) |  |
| severe | 0·6% (31) | 0·7% (24) |  |
| extreme | 0·2% (11) | 0·1% (4) |  |
| don't know | 0·1% (5) | 0·2% (7) |  |
| not applicable | <0·1% (4) | 0% (0) |  |
| **with dealing with strangers?** |  |  |  |
| none | 68% (3 289) | 69% (2 524) |  |
| mild | 15% (717) | 13% (474) |  |
| moderate | 12% (572) | 12% (458) |  |
| severe | 4·4% (212) | 4·6% (170) |  |
| extreme | 0·7% (36) | 0·8% (31) |  |
| don't know | 0·2% (9) | 0·2% (9) |  |
| not applicable | 0% (0) | 0% (0) |  |
| **with making new friendships or  maintaining current friendships?** |  |  |  |
| none | 67% (3 247) | 74% (2 727) |  |
| mild | 17% (804) | 13% (460) |  |
| moderate | 11% (537) | 9·1% (332) |  |
| severe | 4·0% (193) | 3·3% (122) |  |
| extreme | 1·0% (47) | 0·5% (19) |  |
| don't know | 0·1% (7) | 0·2% (6) |  |
| not applicable | 0% (0) | 0% (0) |  |
| 1% (n) | | | |
| 2Pearson's Chi-squared test | | | |

|  | Ghana | | South Africa | |
| --- | --- | --- | --- | --- |
| Characteristic | N = 4 8351 | p-value2 | N = 3 6661 | p-value2 |
| **in sitting for long periods?** |  | <0·001 |  | <0·001 |
| none | 0·83 (0·36) |  | 0·90 (0·48) |  |
| mild | 0·77 (0·41) |  | 0·71 (0·42) |  |
| moderate | 0·70 (0·36) |  | 0·72 (0·45) |  |
| severe | 0·69 (0·41) |  | 0·65 (0·44) |  |
| extreme | 0·38 (0·31) |  | 1·08 (0·89) |  |
| don't know | 0·80 (0·18) |  | 0·55 (0·19) |  |
| not applicable | NA (NA) |  | NA (NA) |  |
| **in taking care of your household  responsibilities?** |  | <0·001 |  | <0·001 |
| none | 0·81 (0·31) |  | 0·89 (0·48) |  |
| mild | 0·76 (0·42) |  | 0·71 (0·41) |  |
| moderate | 0·72 (0·43) |  | 0·70 (0·41) |  |
| severe | 0·66 (0·61) |  | 0·67 (0·53) |  |
| extreme | 0·58 (0·65) |  | 0·62 (0·35) |  |
| don't know | 0·89 (0·20) |  | 0·69 (0·30) |  |
| not applicable | 0·65 (0·27) |  | 0·61 (0·24) |  |
| **did you have in learning a new task?** |  | <0·001 |  | <0·001 |
| none | 0·83 (0·33) |  | 0·93 (0·50) |  |
| mild | 0·77 (0·39) |  | 0·73 (0·37) |  |
| moderate | 0·70 (0·44) |  | 0·73 (0·38) |  |
| severe | 0·65 (0·36) |  | 0·70 (0·58) |  |
| extreme | 0·67 (0·61) |  | 0·66 (0·30) |  |
| don't know | 1·03 (0·31) |  | 0·96 (0·49) |  |
| not applicable | NA (NA) |  | NA (NA) |  |
| **in joining in community activities?** |  | <0·001 |  | <0·001 |
| none | 0·82 (0·32) |  | 0·88 (0·48) |  |
| mild | 0·79 (0·45) |  | 0·72 (0·41) |  |
| moderate | 0·71 (0·38) |  | 0·69 (0·39) |  |
| severe | 0·65 (0·41) |  | 0·69 (0·60) |  |
| extreme | 0·63 (0·66) |  | 0·61 (0·37) |  |
| don't know | 0·67 (0·22) |  | 0·57 (0·15) |  |
| not applicable | 0·65 (0·31) |  | 0·72 (0·22) |  |
| **concentrating on doing something for  10 minutes?** |  | <0·001 |  | <0·001 |
| none | 0·80 (0·32) |  | 0·89 (0·47) |  |
| mild | 0·78 (0·47) |  | 0·73 (0·43) |  |
| moderate | 0·70 (0·40) |  | 0·73 (0·45) |  |
| severe | 0·71 (0·61) |  | 0·73 (0·58) |  |
| extreme | 0·42 (0·18) |  | 0·52 (0·23) |  |
| don't know | 0·63 (0·31) |  | 0·73 (0·41) |  |
| not applicable | 0·69 (0·24) |  | NA (NA) |  |
| **in walking a long distance such as a  kilometer?** |  | <0·001 |  | <0·001 |
| none | 0·84 (0·31) |  | 0·93 (0·48) |  |
| mild | 0·83 (0·45) |  | 0·75 (0·38) |  |
| moderate | 0·71 (0·37) |  | 0·74 (0·46) |  |
| severe | 0·65 (0·35) |  | 0·67 (0·42) |  |
| extreme | 0·60 (0·54) |  | 0·66 (0·49) |  |
| don't know | 0·67 (0·17) |  | 0·62 (0·16) |  |
| not applicable | 0·55 (0·17) |  | NA (NA) |  |
| **in bathing/washing your whole body?** |  | 0·001 |  | <0·001 |
| none | 0·78 (0·32) |  | 0·84 (0·46) |  |
| mild | 0·82 (0·61) |  | 0·71 (0·57) |  |
| moderate | 0·75 (0·55) |  | 0·80 (0·53) |  |
| severe | 0·67 (0·74) |  | 0·50 (0·21) |  |
| extreme | 0·40 (0·17) |  | 0·66 (0·50) |  |
| don't know | 0·69 (0·25) |  | 1·07 (0·86) |  |
| not applicable | 0·52 (0·24) |  | NA (NA) |  |
| **in getting dressed?** |  | <0·001 |  | <0·001 |
| none | 0·78 (0·33) |  | 0·84 (0·46) |  |
| mild | 0·80 (0·57) |  | 0·72 (0·57) |  |
| moderate | 0·76 (0·59) |  | 0·75 (0·54) |  |
| severe | 0·51 (0·21) |  | 0·57 (0·28) |  |
| extreme | 1·04 (1·47) |  | 0·91 (0·74) |  |
| don't know | 1·10 (0·63) |  | 0·72 (0·48) |  |
| not applicable | 0·60 (0·22) |  | NA (NA) |  |
| **with dealing with strangers?** |  | <0·001 |  | <0·001 |
| none | 0·78 (0·31) |  | 0·88 (0·49) |  |
| mild | 0·79 (0·49) |  | 0·71 (0·38) |  |
| moderate | 0·79 (0·52) |  | 0·71 (0·45) |  |
| severe | 0·68 (0·31) |  | 0·68 (0·34) |  |
| extreme | 0·76 (0·92) |  | 0·56 (0·20) |  |
| don't know | 1·07 (0·68) |  | 0·99 (0·62) |  |
| not applicable | NA (NA) |  | NA (NA) |  |
| **with making new friendships or  maintaining current friendships?** |  | 0·002 |  | <0·001 |
| none | 0·78 (0·30) |  | 0·87 (0·48) |  |
| mild | 0·81 (0·53) |  | 0·69 (0·35) |  |
| moderate | 0·76 (0·46) |  | 0·71 (0·46) |  |
| severe | 0·68 (0·33) |  | 0·71 (0·46) |  |
| extreme | 0·73 (0·82) |  | 0·52 (0·20) |  |
| don't know | 0·83 (0·65) |  | 0·65 (0·21) |  |
| not applicable | NA (NA) |  | NA (NA) |  |
| 1norm\_gs: Mean (SD) | | | | |
| 2One-way ANOVA | | | | |

| Characteristic | N | Beta | 95% CI1 | p-value |
| --- | --- | --- | --- | --- |
| **Age Groups** | 8 497 |  |  |  |
| [18,49] |  | — | — |  |
| (49,59] |  | -0·08 | -0·10 to -0·05 | <0·001 |
| (59,69] |  | -0·13 | -0·16 to -0·10 | <0·001 |
| (69,79] |  | -0·20 | -0·23 to -0·17 | <0·001 |
| (79,122] |  | -0·24 | -0·29 to -0·20 | <0·001 |
| **Age** | 8 499 | -0·01 | -0·01 to 0·00 | <0·001 |
| **Years of Education** | 4 662 |  |  |  |
| [0,6] |  | — | — |  |
| (6,9] |  | -0·02 | -0·05 to 0·02 | 0·34 |
| (9,12] |  | 0·05 | 0·02 to 0·08 | 0·001 |
| (12,15] |  | 0·04 | -0·01 to 0·08 | 0·10 |
| (15,20] |  | 0·03 | -0·03 to 0·09 | 0·29 |
| (20,25] |  | -0·07 | -0·25 to 0·10 | 0·41 |
| (25,28] |  | -0·09 | -0·68 to 0·50 | 0·77 |
| **Residence** | 8 495 |  |  |  |
| urban |  | — | — |  |
| rural |  | 0·03 | 0·02 to 0·05 | <0·001 |
| **Marital Status** | 8 499 |  |  |  |
| never married |  | — | — |  |
| currently married |  | 0·02 | -0·01 to 0·06 | 0·18 |
| cohabiting |  | 0·08 | 0·02 to 0·14 | 0·010 |
| separated/divorced |  | -0·03 | -0·08 to 0·01 | 0·10 |
| widowed |  | -0·10 | -0·13 to -0·06 | <0·001 |
| don't know |  | 0·09 | 0·00 to 0·18 | 0·051 |
| **Sex** | 8 499 |  |  |  |
| male |  | — | — |  |
| female |  | -0·08 | -0·10 to -0·07 | <0·001 |
| **Income Satisfaction** | 8 442 |  |  |  |
| completely |  | — | — |  |
| mostly |  | -0·14 | -0·21 to -0·07 | <0·001 |
| moderately |  | -0·21 | -0·28 to -0·14 | <0·001 |
| a little |  | -0·22 | -0·29 to -0·16 | <0·001 |
| not at all |  | -0·23 | -0·30 to -0·16 | <0·001 |
| don't know |  | -0·05 | -0·15 to 0·06 | 0·40 |
| not applicable |  | -0·36 | -0·84 to 0·12 | 0·14 |
| **BMI** | 8 501 |  |  |  |
| Normal Weight |  | — | — |  |
| Obese |  | -0·07 | -0·09 to -0·05 | <0·001 |
| Overweight |  | 0·01 | -0·01 to 0·04 | 0·28 |
| Underweight |  | -0·03 | -0·06 to 0·00 | 0·023 |
| **History of Angina** | 8 459 |  |  |  |
| yes |  | — | — |  |
| no |  | 0·07 | 0·04 to 0·11 | <0·001 |
| don't know |  | 0·19 | -0·22 to 0·60 | 0·36 |
| **History of CLD\*** | 8 459 |  |  |  |
| yes |  | — | — |  |
| no |  | 0·05 | 0·00 to 0·09 | 0·051 |
| don't know |  | 0·15 | -0·27 to 0·56 | 0·48 |
| **History of Asthma** | 8 459 |  |  |  |
| yes |  | — | — |  |
| no |  | 0·05 | -0·01 to 0·12 | 0·10 |
| don't know |  | 0·08 | -0·26 to 0·42 | 0·66 |
| **History of Arthritis** | 8 459 |  |  |  |
| yes |  | — | — |  |
| no |  | 0·17 | 0·11 to 0·23 | <0·001 |
| don't know |  | 0·16 | -0·26 to 0·58 | 0·45 |
| **History of Stroke** | 8 459 |  |  |  |
| yes |  | — | — |  |
| no |  | 0·06 | 0·02 to 0·11 | 0·009 |
| don't know |  | 0·04 | -0·30 to 0·38 | 0·82 |
| **History of DM\*** | 8 459 |  |  |  |
| yes |  | — | — |  |
| no |  | -0·02 | -0·10 to 0·06 | 0·59 |
| don't know |  | 0·01 | -0·41 to 0·43 | 0·96 |
| **History of RTA\*** | 8 464 |  |  |  |
| yes |  | — | — |  |
| no |  | -0·03 | -0·05 to -0·01 | 0·002 |
| don't know |  | 0·12 | -0·19 to 0·43 | 0·45 |
| **History of Depression** | 8 459 |  |  |  |
| yes |  | — | — |  |
| no |  | 0·07 | 0·05 to 0·10 | <0·001 |
| don't know |  | 0·00 | -0·28 to 0·27 | >0·99 |
| **History of HPT\*** | 8 459 |  |  |  |
| yes |  | — | — |  |
| no |  | 0·08 | 0·03 to 0·12 | <0·001 |
| don't know |  | 0·01 | -0·17 to 0·20 | 0·90 |
| **History of Cataracts** | 8 459 |  |  |  |
| yes |  | — | — |  |
| no |  | -0·03 | -0·10 to 0·04 | 0·38 |
| don't know |  | -0·09 | -0·46 to 0·29 | 0·66 |
| **History of Tobacco use** | 8 463 |  |  |  |
| yes |  | — | — |  |
| no |  | -0·03 | -0·05 to -0·01 | <0·001 |
| don't know |  | -0·07 | -0·37 to 0·22 | 0·62 |
| **History of Alcohol use** | 8 459 |  |  |  |
| yes |  | — | — |  |
| no |  | 0·14 | 0·11 to 0·16 | <0·001 |
| don't know |  | 0·21 | -0·20 to 0·62 | 0·32 |
| **Country of Residence** | 8 501 |  |  |  |
| Ghana |  | — | — |  |
| South Africa |  | 0·05 | 0·03 to 0·07 | <0·001 |
| 1CI = Confidence Interval | | | | |

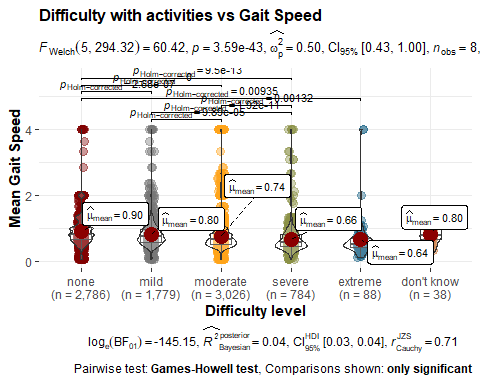
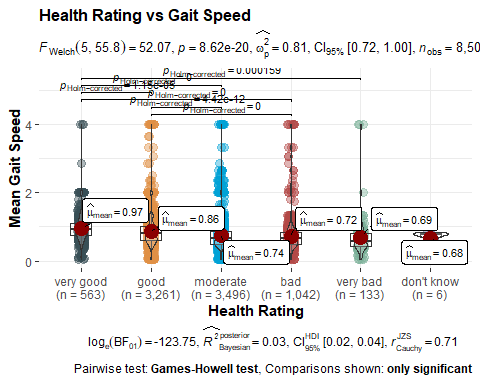
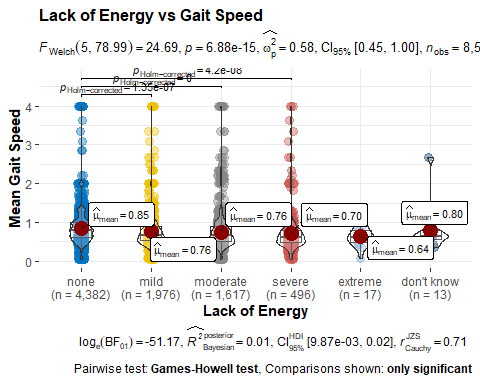
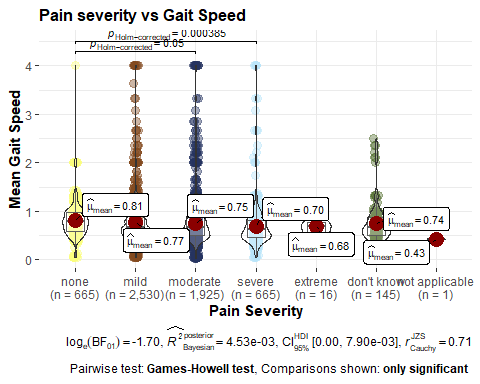


## Warning: Removed 2 rows containing missing values (geom\_point).  
## Removed 2 rows containing missing values (geom\_point).

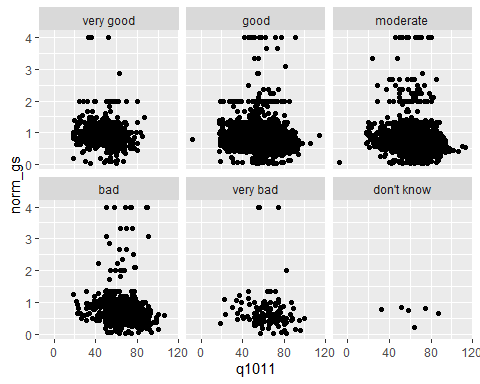


## Warning: package 'ggstatsplot' was built under R version 4.1.3

## Warning: Groups with fewer than two data points have been dropped.



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#### Comparison of Mean Gait Speed Across Health-Related variables

#### Effect of WHODAS variables on gait speed

#### Combined Linear Regressions Table

### Graphs

#### Trend of Gait Speed With Age

It can be seen clearly that with increasing age, the mean gait speed decreases:

#### Zooming In To 60+

#### Gender vs Normal and Rapid Gait Speed

The results below suggest that the male gender is associated with higher gait speed: