In Person: Anthropometric Measures and Functioning

KANTHRO Anthropometric and Functioning Measures

OVERVIEW

The 2011 in-person interview included five anthropometric measures: height; weight; waist circumference; hip circumference; and two photographs; and four functioning measures: lung strength; timed chair rise; grip strength; and walking speed.

To maintain consistency across participants interviewers had identical equipment for the measures.

For the height measure participants were asked to remove their shoes and stand straight with his or her back to a wall. Interviewers gently placed a triangle on the participant's head and marked a post-it note where the base of the triangle met the wall. Interviewers used a retractable measuring tape to measure the distance between the floor and the pencil mark on the post-it note.

For the weight measure participants were asked to remove their shoes and any objects form their pockets temporarily. The scale was placed on a hard surface, if such a surface could not be found then the participant was asked to self-report weight.

Waist and Hip circumferences were taken over the participant's clothing. Participants were however asked to remove anything bulky such as a sweater. For women, waist circumference was measured twice, once at the naval and once at the narrowest part of the waist. For men the waist circumference was taken at the level of the navel, or belly button. The hip circumference is measured at the maximum circumference of the hips. Maximum circumference of the hips is the widest circumference point between the waist and the knees.

Lung strength was measured three times using a peak flow meter. Whenever possible the measurement was taken from a standing position. Participants were instructed to take as deep a breath as possible; place mouth around the mouthpiece, make sure tongue is away from the mouth piece, to not obstruct the peak-hold needle on the meter, and to blow out all the air in the lungs at once in a blast of air. Participants rested for a minimum of 30 seconds between peak flow measures.

Grip strength was measured with a dynamometer twice using the dominant hand. Dynamometers were calibrated throughout the fielding period to maintain comparability. The measures were taken with the participant in the sitting position with the arm at a 90-degree angle, with elbow down along the body. Participants were instructed to squeeze as hard as they could for one second.

The chair rise measure timed how long it took the participant to rise from the chair into a standing position five times without using their arms. Participants crossed their arms at their chest. The timer began in the sitting position and stopped when the participant was standing after the fifth rise. Interviewers also recorded the height of the chair at the front of the seat, directly in the middle.

The walking speed course was 2.5 meters and two measures were taken. Interviewers requested that participants wear sturdy shoes and to walk at their

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normal pace.  The timer began when the interviewer instructs the participant to
"begin" and ends when his or her heel fully crosses the finish line.

The only measure for participants who were living in a nursing home was the
photograph.

Brief Variable Descriptions


 KANTSTAT-KANTREL       Module-level status variables
 KX450RE                Flag for whether R participated in the physical measures
 KX451RE-KX453RE        Height
 KX454RE-KX456RE        Weight
 KX457RE-KX458RE        Waist
 KX459RE                Hip
 KX460RE                Photo
 KX461RE-KX464RE        Peak flow
 KX465RE-KX467RE        Chair Rise
 KX468RE-KX471RE        Grip Strength
 KX472RE-KX475RE        Walking speed
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kantstat: Was the Anthropometric and Functioning Module completed by participant alone, with help, or by proxy?

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_antproxy1, y_anthelp0, capiproxy, y_proxy, and y_ivwloc

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-28	NOT ASKED OF PARTICIPANT OVER TELEPHONE	30	44	74
-27	NOT ASKED OF PROXY	7	12	19
1	R COMPLETED ALONE	1391	1619	3010
2	R COMPLETED ALONE WITH SOMEONE ELSE IN THE ROOM	195	91	286
3	R RECEIVED A LITTLE HELP	5	1	6
4	R RECEIVED A LOT OF HELP	1	1	2

Note: For many cases a participant's spouse or other family member was present during the interview. This sometimes resulted in the participant relying on the other person for help in answering some or many of the questions. At the end of each module the interviewer indicated the amount of help the participant received and who provided that help. That assessment is covered by codes 1 through 5. Additionally, a

code of 7 indicates that the entire interview was administered to a proxy while a code of 6 indicates that this particular module was answered by a proxy but other modules were answered by the participant.

kantrel: Relationship of Anthropometric and Functioning Module helper or proxy to participant

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: kantstat, y_antproxy1, y_anthelp0, y_anthelp1, y_anthelp2_hfn, y_anthelp3, y_h1fn to y_h4fn, y_pfn, prxyfnam, y_p1fn to y_p5fn, y_prel, prxyrel, and y_p1rel to y_p5rel

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-28	NOT ASKED OF PARTICIPANT OVER TELEPHONE	30	44	74
-27	NOT ASKED OF PROXY	7	12	19
-2	Inappropriate INAPPLICABLE, R COMPLETED ALONE OR REFUSED (kantstat=1,2,-3)	1586	1710	3296
0	SPOUSE	5	2	7
25	FRIEND	1	0	1

Note: If this module was administered via proxy or if the participant received help answering the questions in this module then the interviewer recorded the relationship of the proxy/helper to the participant. Although most participants relied on only one helper or proxy for the interview, some had more than one. Thus the value of the relationship code may vary across the modules.

kx450re: Flag for whether R participated in the physical measures

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_h1

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	Not part of MOSAQ	72	63	135
-28	Telephone Interview with Participant	30	44	74
-27	Not asked of Proxy	7	12	19
-4	Not Ascertained	1	0	1
-3	Refused	13	10	23
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1))	6	18	24
1	Participated in at least one activity	1569	1680	3249
3	Did not participate - unable	3	3	6
4	Public space inappropriate for measure	0	1	1

kx451re: Height Report Flag

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_h1, y_h3, kx400re

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-27	NOT ASKED OF PROXY	7	12	19
-4	NOT ASCERTAINED	1	0	1
-3	REFUSED	2	4	6
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1); Did not particpate in module (kx400=2 or kx400=3))	52	76	128
1	Measured	1480	1622	3102
2	Self-reported	87	54	141

kx452re: Height in inches

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_h4_w, y_h4_f, y_h5_w, y_h5_f, y_h5_i

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1); Did not particpate in module (kx400=2 or kx400=3))	62	92	154
48.50 - 62.50		17	659	676
62.75 - 65		82	646	728
65.25 - 67.50		369	301	670
67.75 - 70.25		616	67	683
70.50 - 81.50		483	3	486

Note: Bottom-coded at 60 and top-coded at 74 on the public release.
Note: This variable has decimal points by quarter (.25 .5 .75).

kx453re: What was R wearing on their feet during the Height Measurement?

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_h7

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	Not part of MOSAQ	72	63	135
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1); Did not particpate in module (kx400=2 or kx400=3); Self reported (kx401re=2))	149	146	295
0	Wearing nothing on feet	218	644	862
1	Shoes	43	38	81
2	Socks (No Shoes)	1206	912	2118
3	Slippers	12	13	25
7	Foot Brace and Shoes	0	2	2
9	Cast or Boot	0	2	2
10	Nylons, Stockings, Tights, etc.	1	11	12

kx454re: Weight Report Flag

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_w1, y_w3

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-4	NOT ASCERTAINED	1	4	5
-3	REFUSED	3	31	34
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1); Did not particpate in module (kx400=2 or kx400=3))	60	88	148
1	Measured	1406	1511	2917
2	Self-reported	159	134	293

kx455re: Weight in Pounds

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_w4, y_w5

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1);Did not particpate in module (kx400=2 or kx400=3))	64	123	187
89.50 - 149		50	592	642
149.20 - 171.40		237	408	645
171.60 - 194		365	285	650
194.20 - 218.80		432	213	645
219 - 413		481	147	628

Note: Bottom-coded at 120 and top-coded at 280 on the public release.
Note: This variable has decimal points by tenths (.1 .2 etc).

kx456re: What was R wearing on their feet during the Weight Measurement?

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_w8

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	Not part of MOSAQ	72	63	135
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1);Did not particpate in module (kx400=2 or kx400=3); Self reported (kx404re=2))	223	257	480
0	Wearing nothing on feet	212	620	832
1	Shoes	30	18	48
2	Socks (No Shoes)	1157	849	2006
3	Slippers	7	11	18
7	Foot Brace and Shoes	0	2	2
8	Foot Brace no Shoes	0	1	1
9	Cast or Boot	0	2	2
10	Nylons, Stockings, Tights, etc.	0	8	8

kx457re: Waist measurement at navel

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_j4_a, y_j4_b

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-4	NOT ASCERTAINED	9	5	14
-3	REFUSED	21	62	83
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1);Did not particpate in module (kx400=2 or kx400=3))	60	88	148
24 - 35.25		90	545	635
35.50 - 39		338	362	700
39.25 - 42		394	265	659
42.25 - 46		403	227	630
46.25 - 64.50		314	214	528

Note: Unit is Inches.
Note: Bottom-coded at 27 and top-coded at 55 on the public release.
Note: This variable has decimal points by quarter (.25 .5 .75).

kx458re: Waist measurement at narrowest

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_j4_d, j_j4_c

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-4	NOT ASCERTAINED	9	5	14
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1) Did not particpate in module (kx400=2 or kx400=3); Participant is male (var=x));	1620	149	1769
23.50 - 31		0	335	335
31.25 - 34		0	322	322
34.25 - 37.50		0	353	353
37.75 - 42		0	346	346
42.25 - 61.50		0	258	258

Note: Measurement only taken for women. Unit is Inches. This variable has decimal points by quarter (.25 .5 .75).
Note: Bottom-coded at 27 and top-coded at 55 on the public release.

kx459re: Hip measurement

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_k4_w, y_k4_f

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-4	NOT ASCERTAINED	7	4	11
-3	REFUSED	21	62	83
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1);Did not particpate in module (kx400=2 or kx400=3))	60	88	148
23.50 - 39.50		256	407	663
39.75 - 41.75		363	275	638
42 - 44		428	299	727
44.25 - 47.75		313	319	632
48 - 68		181	314	495

Note: Unit is Inches. This variable has decimal points by quarter (.25 .5 .75).
Note: Bottom-coded at 34 and top-coded at 57 on the public release.

kx460re: Was a photograph of the participant taken?

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_pix1, y_pixstart

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-4	NOT ASCERTAINED	1	3	4
-3	REFUSED	17	38	55
-2	Inappropriate Inappropriate (Did not particpate in module (kx400=2 or kx400=3)	51	68	119
1	YES	1558	1657	3215
2	NO	2	2	4

kx461re: First peak flow measure

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_a4_bm1

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-4	NOT ASCERTAINED	7	7	14
-3	REFUSED	36	36	72
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1); Did not particpate in module (kx400=2 or kx400=3))	60	88	148
1 - 250		120	539	659
260 - 340		174	537	711
345 - 410		246	413	659
420 - 520		502	140	642
525 - 880		484	8	492

Note: Unit is Liters per minute

kx462re: Second peak flow measure

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_14_bm2

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-4	NOT ASCERTAINED	7	8	15
-3	REFUSED	36	36	72
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1);Did not particpate in module (kx400=2 or kx400=3))	60	88	148
60 - 280		123	567	690
290 - 350		136	525	661
355 - 430		234	424	658
440 - 540		529	114	643
550 - 880		504	6	510

Note: Unit is Liters per minute

kx463re: Third peak flow measure

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_14_bm3

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-4	NOT ASCERTAINED	7	9	16
-3	REFUSED	36	36	72
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1);Did not particpate in module (kx400=2 or kx400=3))	60	88	148
1 - 290		110	560	670
300 - 360		140	539	679
370 - 440		244	423	667
445 - 550		579	110	689
555 - 880		453	3	456

Note: Unit is Liters per mintue

kx464re: Position for peak flow measure

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_a8

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	Not part of MOSAQ	72	63	135
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1);Did not particpate in module or activity (kx400=2 or kx400=3 or kx413re = -28))	104	132	236
1	Standing	1501	1601	3102
2	Sitting	24	33	57
3	Lying Down	0	1	1
5	Some standing some Sitting	0	1	1

kx465re: Chair Rise in seconds

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_c9

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-4	NOT ASCERTAINED	46	48	94
-3	REFUSED	64	86	150
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1); Did not particpate in module (kx400=2 or kx400=3))	60	88	148
0.24 - 7.41		291	310	601
7.44 - 8.78		295	314	609
8.81 - 10.12		307	313	620
10.14 - 12.14		312	295	607
12.15 - 106.21		254	314	568

Note: Unit is Seconds

kx466re: Type of seat on chair

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_c11

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	Not part of MOSAQ	72	63	135
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1); Did not particpate in module or activity (kx400=2 or kx400=3 or kx415re = -28))	170	222	392
1	Padded Seat	906	962	1868
2	Unpadded Seat	552	583	1135
5	Not Sure	1	1	2

kx467re: Height of chair in inches

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_c12_f, y_c12_w

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1); Did not particpate in module (kx400=2 or kx400=3))	170	222	392
8 - 17.50		465	518	983
17.75 - 18		431	410	841
18.25 - 19		352	418	770
19.25 - 36		211	200	411

kx468re: Dominant hand

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_b2

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-3	REFUSED	2	0	2
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1)	68	99	167
-1	DON'T KNOW	1	5	6
1	RIGHT HAND	1374	1516	2890
2	LEFT HAND	159	127	286
3	BOTH HANDS EQUALLY DOMINANT	25	21	46

kx469re: Hand used for Grip Strength Test

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_b4a

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1)	71	100	171
1	RIGHT HAND	1383	1530	2913
2	LEFT HAND	175	138	313

kx470re: First Grip Strength measurement

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_b5_dh1

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-4	NOT ASCERTAINED	2	3	5
-3	REFUSED	8	11	19
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1)	63	89	152
2 - 20		71	726	797
21 - 26		141	568	709
27 - 34		408	333	741
35 - 44		615	34	649
45 - 80		321	4	325

Note: Unit is Kilograms

kx471re: Second Grip Strength measurement

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_b5_dh2

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-4	NOT ASCERTAINED	2	3	5
-3	REFUSED	8	11	19
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1)	63	89	152
1 - 20		76	724	800
21 - 26		138	582	720
27 - 34		411	325	736
35 - 45		625	30	655
46 - 90		306	4	310

Note: Unit is Kilograms

kx472re: First Walking speed

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_g5_w1

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-4	NOT ASCERTAINED	2	2	4
-3	REFUSED	28	28	56
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1)	66	94	160
1.14 - 2.14		387	282	669
2.17 - 2.46		335	344	679
2.47 - 2.81		321	319	640
2.82 - 3.40		293	348	641
3.44 - 334.25		197	351	548

Note: Unit is Seconds

kx473re: Second Walking speed

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_g5_w2

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-4	NOT ASCERTAINED	4	2	6
-3	REFUSED	28	28	56
-2	Inappropriate Inappropriate (Resides in nursing home (y_nhchk1 = 1)	66	94	160
0.01 - 2.05		387	266	653
2.06 - 2.37		319	361	680
2.38 - 2.68		320	320	640
2.69 - 3.22		299	337	636
3.24 - 15.14		206	360	566

Note: Unit is Seconds

kx474re: Aid used in walking speed

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_g8

		Frequencies		
Value	**Label**	**Male**	**Female**	**Total**
.	System missing - NR	2736	2510	5246
-30	Not part of MOSAQ	72	63	135
-2	Inappropriate Inap	98	124	222
1	None	1505	1594	3099
2	Walking Stick or Cane	12	23	35
4	Walking Frame	14	26	40
6	Prosthesis	0	1	1

kx475re: Asymmetry in arm or leg movement

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: in person
Source variables: y_g9

Frequencies

Value	Label	Male	Female	Total
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-2	INAPPROPRIATE INAP	98	124	222
1	YES	321	332	653
2	NO	1210	1312	2522

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