

ICPSR 25041

**Hispanic Established Populations
for the Epidemiologic Study of the
Elderly (HEPESE) Wave 5,
2004-2005 [Arizona, California,
Colorado, New Mexico, and Texas]**

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Codebook

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LONGITUDINAL STUDY OF MEXICAN AMERICAN ELDELY-WAVE 5 2004-2005

Variable to denote original or new subjects:

ORIGINAL (0)	NEW (1)
1167	902

NEW

Date of Interview in mmddyy10. format

DATEINT5

S4.P Respondent's birth date in MMDDYY10. format:
(Ranges from 08/17/1895 to 12/25/1930)

BDAY

Age: in Years

AGE5

ORIGINAL: Range (74-109), Mean 82.3, Std. 5.2

NEW: Range (75-103), Mean 81.4, Std. 5.1

S5.P Relationship of Proxy to Respondent (N=267)

PROXREL5

	ORIGINAL	NEW
(02) Spouse	40	41
(03) Son/Daughter	107	59
(04) Son/Daughter-in-law	10	5
(05) Grandchild	7	5
(07) Brother/Sister	4	2
(08) Nephew/Niece	9	3
(09) Cousin	1	0
(11) Great Grandchild	0	1
(12) Other Relative	1	0
(13) Friend	8	2
(15) Paid Employee	11	0
(16) Other non-relative	4	6
(98) Don't know	0	1

S5. P Respondent Gender

	ORIGINAL	NEW	SEX5
Male (1)	425	371	
Female (2)	742	531	

Section A. BACKGROUND

A1.P. Where were you born? City, State, Country (open ended answers unavailable), instead use **NATIVITY** created from the open ended answers.

	ORIGINAL	NEW	NATIVITY
(1) US Born	657	501	
(0) Mexico Born	510	401	

A2.P How old were you when you came to the United States to stay?

AGE_ARR_US

ORIGINAL(from baseline): Range (1-84), Mean 32.66 std. 18.01 n=489, missing=21

NEW: Range (0.5-92), Mean 37.91 std. 19.64 n=395, missing =6

Created Variable is years in the USA for Mexico born
(2005-AGE_ARR_US)

YRS_IN_USA

ORIGINAL: Range (3-98), Mean 50.09 std. 19.2 n=489, missing=21

NEW: Range (1-93), Mean 44.50 std. 20.6 n=401, no missing

A9.P What is the highest grade or year of regular school that you have completed?

	ORIGINAL	NEW YRSEDUC
(00) None	185	190
(01)	51	56
(02)	90	66
(03)	164	88
(04)	138	64
(05)	91	53
(06)	145	87
(07)	38	46
(08)	70	58
(09)	44	25
(10)	23	43
(11)	14	9
(12) High School Graduate/GED equivalent	80	90
(13)	8	3
(14)	10	4
(15)	4	1
(16) College Graduate - 4 Year	8	10
(17) Any Graduate Education	4	9

ORIGINAL: Range (0-17), Mean 4.86 std. 3.81 n=1167

NEW: Range (0-17), Mean 5.03 std. 4.32 n=902

A10.P Are you married, separated, divorced, widowed, or never married?
(INCLUDE COMMON LAW MARRIAGES UNDER MARRIED)

MARSTAT5

	ORIGINAL	NEW
(1) Married	476	403
(2) Separated	21	23
(3) Divorced	40	43
(4) Widowed	586	390
(5) Never married	42	40
(8) Don't know	1	1
(9) Refused	1	0
(.) Missing		2

A11.P How long have you been (married/separated/divorced/widowed)? INTERVIEWER:
ENTER "0" IF LESS THAN ONE YEAR.

MARLEN5

ORIGINAL: Range (0-78), Mean 31.52 std. 22.18 n=1070

NEW: Range (0-75), Mean 32.37 std. 21.37 n=849

Section B. LIVING ARRANGEMENTS

B1.P How many people live in this household?

NHOUSE5

ORIGINAL: Range (1-10), Mean 2.45 std. 1.54 n=1167

NEW: Range (1-10), Mean 2.31 std.1.50 n=902

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Created variable categorizes **NHOUSE5**

	ORIGINAL	NEW	HOUSIZ5
(1) Lives alone – 1 person in house	310	267	
(2) Two people in house	474	384	
(3) Three or more people in house	383	251	

Created variable: (from nhouse5, if nhouse5=1 then livalon5=1)

	ORIGINAL	NEW	LIVALON5
(1) YES	310	267	
(0) NO	857	635	

B2.P Who is the head of this household, what is their relationship to you/to the respondent?

	ORIGINAL	NEW	HHREL5
(01) Respondent is head of household	796	605	
(02) Spouse	173	148	
(03) Son/Daughter	107	82	
(04) Son/Daughter-in-law	41	27	
(05) Grandchild	6	4	
(07) Brother/Sister	8	5	
(08) Nephew/Niece	10	4	
(09) Cousin	1	0	
(10) Aunt or Uncle	0	1	
(11) Great Grandchild	0	1	
(12) Other Relative	2	0	
(13) Friend	5	3	
(16) Other non-relative	4	5	
(17) Sister/Brother in-law	0	3	
(98) Don't know	2	0	
(99) Refused	0	1	

BASE: MORE THAN 1 PERSON IN HOUSEHOLD

B4.P We would like to know how the **OTHER** people who live here with you are related to you.
DO NOT REPEAT THE RESPONDENT'S NAME OR THE HEAD OF HOUSEHOLD.

	ORIGINAL	NEW	OREL51
(02) Spouse	333	310	
(03) Son/Daughter	295	161	
(04) Son/Daughter-in-law	39	23	
(05) Grandchild	44	32	
(06) Parent	1	0	
(07) Brother/Sister	23	14	
(08) Nephew/Niece	21	5	
(09) Cousin	1	0	
(11) Great Grandchild	2	0	
(12) Other Relative	1	4	
(13) Friend	3	2	
(14) Boarder/roomer	1	1	
(15) Paid Employee	5	1	
(16) Other non-relative	4	4	

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	ORIGINAL	NEW	OREL52
(02) Spouse	14	13	
(03) Son/Daughter	177	106	
(04) Son/Daughter-in-law	45	21	
(05) Grandchild	75	63	
(06) Parent	1	1	
(07) Brother/Sister	2	3	
(08) Nephew/Niece	9	1	
(09) Cousin	1	0	
(10) Aunt/Uncle	1	0	
(11) Great Grandchild	7	3	
(12) Other Relative	7	2	
(13) Friend	3	0	
(14) Boarder/roomer	0	1	
(15) Paid Employee	0	2	
(16) Other non-relative	6	7	
(17) Sister/Brother in-law	0	1	

	ORIGINAL	NEW	OREL53
(02) Spouse	4	4	
(03) Son/Daughter	44	31	
(04) Son/Daughter-in-law	11	9	
(05) Grandchild	103	55	
(06) Parent	0	1	
(07) Brother/Sister	2	2	
(08) Nephew/Niece	4	2	
(11) Great Grandchild	9	7	
(12) Other Relative	7	2	
(13) Friend	1	0	
(16) Other non-relative	2	3	
(17) Sister/Brother in-law	0	1	

	ORIGINAL	NEW	OREL54
(02) Spouse	0	3	
(03) Son/Daughter	11	7	
(04) Son/Daughter-in-law	3	1	
(05) Grandchild	83	41	
(08) Nephew/Niece	2	1	
(11) Great Grandchild	6	7	
(12) Other Relative	3	1	
(13) Friend	1	0	
(16) Other non-relative	2	1	

	ORIGINAL	NEW	OREL55
(03) Son/Daughter	4	2	
(04) Son/Daughter-in-law	2	1	
(05) Grandchild	39	23	
(07) Brother/Sister	1	0	
(08) Nephew/Niece	2	0	
(11) Great Grandchild	9	7	
(12) Other Relative	2	1	
(16) Other non-relative	1	1	

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	ORIGINAL	NEW	OREL56
(02) Spouse	2	1	
(03) Son/Daughter	2	0	
(04) Son/Daughter-in-law	2	1	
(05) Grandchild	18	7	
(06) Parent	1	0	
(07) Brother/Sister	2	0	
(11) Great Grandchild	6	5	
(14) Other Relative	0	1	

NEW SUBJECTS ONLY:

C1.P What year did you move into your current residence?		MOVEYR5
(1909-2005)	803	
(.) Missing/ "Don't remember"	99	

ORIGINAL SUBJECTS ONLY: (NEW SUBJECTS SKIP TO SECTION D)

B6.P. Have you moved since the last time we talked to you?		MOVED5
(1) Yes	157	
(2) No	1005	
(.) Missing	5	

B6a.P. Why did you move? (of 157 original subjects only)

I needed to move into an assisted living facility		ASSTLIV5
(1) Yes	33	
(0) No	120	
(.) Missing	4	
To be closer to my children		CLOSKID5
(1) Yes	45	
(0) No	108	
(.) Missing	4	
Other reasons		MOVOTH51
(1) Yes	93	
(0) No	60	
(.) Missing	4	
Moved while fixing up home/apartment		MOVEFIX5
(1) Yes	7	
(0) No	146	
(.) Missing	4	
Rent too expensive/needed cheaper housing		MOVEXPENS5
(1) Yes	9	
(0) No	144	
(.) Missing	4	
Moved due to family considerations		MOVEFAM5
(1) Yes	9	
(0) No	144	
(.) Missing	4	

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Moved because became widowed		MOVWIDWD5
(1) Yes	148	
(0) No	5	
(.) Missing	4	
(8) Don't know why moved	1	MOVEDK5
(9) Refused to state why moved	0	MOVEREF5
B7.P. Has anyone moved in with you since we last talked?		MOVEIN5
(1) Yes	167	
(2) No	1000	
B7a.P. Who moved in with you? (Relationship of up to 4 people) (of 167)		
Relationship of first person.		WHOMOV51
(02) Spouse	5	
(03) Son/daughter	114	
(04) Son/daughter-in-law	1	
(05) Grandchild	18	
(06) Parent	1	
(07) Brother/sister	2	
(08) Nephew/Niece	8	
(09) Cousin	1	
(11) Great Grandchild	3	
(13) Friend	6	
(14) Boarder/roomer	1	
(15) Paid employee	2	
(16) Other non-relatives	3	
(.) Missing	2	
Relationship of second person.		WHOMOV52
(03) Son/daughter	6	
(04) Son/daughter-in-law	16	
(05) Grandchild	19	
(08) Nephew/Niece	5	
(09) Cousin	1	
(11) Great Grandchild	7	
(13) Friend	1	
(16) Other non-relatives	4	
Relationship of third person.		WHOMOV53
(03) Son/daughter	2	
(05) Grandchild	15	
(08) Nephew/Niece	2	
(11) Great Grandchild	4	
(12) Other relatives	1	
(13) Friend	1	
(98) Don't know	1	
Relationship of fourth person.		WHOMOV54
(03) Son/daughter	1	
(05) Grandchild	13	
(08) Nephew/Niece	2	
(11) Great Grandchild	2	
(12) Other relatives	1	

B7b.P. Why did _____ move in with you? (of 167)

I needed help taking care of myself or the house TAKECARE5

(0) No 92
(1) Yes 75

(Person who moved in) needed a place to stay PLASTAY5

(0) No 112
(1) Yes 55

Other reason, not specified YOU51

(0) No 148
(1) Yes 19

(Person who moved in) got divorced/separated THEYDIV5

(0) No 158
(1) Yes 9

(Person who moved in) because they are working THEYWORK5

(0) No 165
(1) Yes 2

(Person who moved in) needed to be taken care of GIVECARE5

(0) No 164
(1) Yes 3

(Person who moved in) needed help be cared for HELPCARE5

(0) No 162
(1) Yes 5

(Person who moved in) came for companionship COMPANION5

(0) No 159
(1) Yes 8

Section D. INSTRUMENTAL SOCIAL SUPPORT/FAMILY CONTACTS

ASKED OF ALL SUBJECTS:

D1.P Now, I would like to know how may living children (including adopted, foster or step-children) you have?

ORIGINAL: Range (1-10), Mean 5.0, Std. 2.75 1080 NKIDS5
(0) None 87

NEW: Range (1-10), Mean 5.1, Std. 2.72 839
(0) None 63

D2.P How many of your children do you see at least once a month? SEEMON5

ORIGINAL: Range (0-10), Mean 3.4, Std. 2.5 1077
(.) NA (don't have children) 87

(.) True missing 3
NEW: Range (1-10), Mean 3.4, Std. 2.5 837
(.) NA (don't have children) 63
(.) True missing 2

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D2a. How quickly can any one of your (children/son/daughter) get to your home? (Of 1080 original and 839 new who see children at least once monthly). Answer can be minutes only or hours only or minutes and hours.

Minutes

ORIGINAL: Range (1-60), Mean 12.9 std. 10.8 n=590 **MINSGET5**
NEW: Range (1-60), Mean 13.7 std. 11.5 n=505

Hours

ORIGINAL: Range (1-26), Mean 4.1 std. 5.0 n=82 **HRSGET5**
NEW: Range (1-48), Mean 4.2 std. 6.5 n=59

	ORIGINAL	NEW	KIDSHME5
(1) Kids live in home	380	248	
(8) Don't know	18	20	
(9) Refused	4	0	
(.) Missing*	8	7	

*Did not answer minutes, hours, or kids in home, but have children:

Created variable: Converted hours to minutes then added (set kids live in home to .02 minutes). There were only 2 original subjects that had time in minutes AND hours.

ORIGINAL: Range (.02-60), Mean 7.61 std. 10.04 n=1050 **TIMEKIDS5**
NEW: Range (.02-60), Mean 8.82 std. 11.03 n=812

D5. How many relatives do you have that you feel close to--that you feel at ease with, can talk to about private matters, or can call (INCLUDE siblings and in-laws, EXCLUDE spouse and children.)

ORIGINAL: Range (0-35), Mean 2.19 std. 2.73 n=1092 **CLOSREL5**
MISSING=75
302 of the 1092 answered 0 close relatives leaving 790
NEW: Range (0-30), Mean 1.91 std. 3.10 n=865
MISSING=37
294 of the 865 answered 0 close relatives leaving 571

IF THE SUBJECT SAID THEY HAD 0 CLOSE RELATIVES, SKIP TO D6. We believe the subjects may not have understood Question D5a and answered frequency instead of #.

D5a. How many of these relatives (#RELATIVES IN D5) do you see at least once a month?

ORIGINAL: Range (0-30), Mean 2.40 std. 3.0 (n= 785 of 790) **RSEEMON5**
MISSING=5
NEW: Range (0-30), Mean 2.09 std. 3.11 (n=570 of 571)
MISSING=1

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D6. Other than members of your family, how many close friends do you have--people that you feel at ease with, can talk to about private matters, or can call on for help?

ORIGINAL: Range (0-80), Mean 2.43 std. 3.99 n=1077 **CLOSFRN5**
MISSING=90
347 of the 1077 answered 0 close friends leaving 730
NEW: Range (0-50), Mean 2.3 std. 4.66 n=850
MISSING=52
316 of the 730 answered 0 close friends leaving 534

IF THE SUBJECT SAID THEY HAD 0 CLOSE FRIENDS, SKIP TO D3. We believe the subjects may not have understood Question D6a and answered frequency instead of #.

D6a. How many close friends (#FRIENDS IN D6) do you see at least once a month?

ORIGINAL: Range (0-30), Mean 3.10 std. 3.4 (n= 730 of 730) **FSEEMON5**
MISSING=0
NEW: Range (0-50), Mean 2.89 std. 3.88 (n=532 of 534)
MISSING=2

D3. In times of trouble; can you count on at least some of your family or friends most of the time, some of the time, or hardly ever?

	ORIGINAL	NEW	COUNTON5
(1) Most of the time	844	706	
(2) Some of the time	182	96	
(3) Hardly ever	56	64	
(8) Don't know	7	6	
(9) Refused	1	3	
(.) Missing	77	27	

D4. Can you talk about your deepest problems with at least some of your family or friends most of the time, some of the time, or hardly ever?

	ORIGINAL	NEW	TALK5
(1) Most of the time	744	649	
(2) Some of the time	252	131	
(3) Hardly ever	82	85	
(8) Don't know	7	7	
(9) Refused	3	4	
(.) Missing	79	26	

Section E. EMPLOYMENT HISTORY asked of *NEW SUBJECTS only*

E1.P Are you currently employed; a homemaker; disabled; retired; retired, but working; or have you never worked? **EMPLOYD5**

(1) Employed full-time	11
(2) Employed part-time	3
(3) Homemaker	104
(4) Retired	677
(5) Retired, but working	29
(6) Disabled	27
(7) Never worked	33
(8) Don't know	7
(9) Refused	0
(10) Retired & Disabled	11

If they did not work: **NOWORK5**

(1) Never employed	33
(2) Homemaker	183
(3) Disabled	4
(8) Don't Know	1
(9) Refused to answer	2

E3d.P What were your most important activities or duties (in the job you did for most of your working life)? (2000 Census Codes) **CENSUS5**

Have Census code	677
(-99.99) Not applicable/missing	225

IF MARRIED OR SEPARATED ASK

E4.P Is your (spouse/partner) currently employed, a homemaker, disabled, retired but working or has s/he never worked? **SEMPLYD5**

(1) Employed full-time	16
(2) Employed part-time	6
(3) Homemaker	70
(4) Retired	277
(5) Retired, but working	7
(6) Disabled	12
(7) Never worked	16

If they did not work: **SNOWORK5**

(1) Never employed	18
(2) Homemaker	108
(3) Disabled	2
(-8) Don't Know	7
(-9) Refused to answer	2

E4d.P What were your most important activities or duties (in the job [he/she] they did for most of [his/her] their working life)? (2000 Census Codes) **SCENSUS5**

Have Census code	4
(-99.99, -9, -8) Not applicable/missing	

Section F. NEIGHBORHOOD

F1. All things considered, would you say you are very satisfied, satisfied, neither satisfied nor dissatisfied, dissatisfied, or very dissatisfied with your neighborhood as a place to live?

	ORIGINAL	NEW	F1NEIGH5
(1) Very Satisfied	567	482	
(2) Satisfied	414	325	
(3) Neither Sat or Dissatisfied	55	39	
(4) Dissatisfied	17	18	
(5) Very Dissatisfied	4	3	
(8) Don't know	13	3	
(9) Refused	2	1	
(.) Missing	95	31	

F2. About how many adults do you recognize or know by sight in this neighborhood? - Would you say you recognize no adults, a few, many or most?

	ORIGINAL	NEW	F2NEIGH5
(1) No adults	52	49	
(2) A few adults	525	412	
(3) Many adults	333	265	
(4) Most or all adults	154	141	
(8) Don't know	6	2	
(9) Refuse	3	1	
(.) Missing	94	32	

F3. Now I am going to read you some statements, which may or may not be true about your neighborhood. Please look at this card. For each statement tell me whether you strongly agree, agree, disagree, or strongly disagree. (If interviewee is unsure, mark neutral)

(A) This is a close-knit neighborhood

	ORIGINAL	NEW	F3NA5
(1) Strongly agree	240	168	
(2) Agree	529	481	
(3) Neutral	129	81	
(4) Disagree	103	80	
(5) Strongly disagree	19	15	
(8) Don't know	49	39	
(9) Refused	2	1	
(.) Missing	96	37	

(B) People around here are willing to help their neighbors

	ORIGINAL	NEW	F3NB5
(1) Strongly agree	254	148	
(2) Agree	567	543	
(3) Neutral	122	80	
(4) Disagree	56	39	
(5) Strongly disagree	9	11	
(8) Don't know	60	45	
(9) Refused	3	1	
(.) Missing	96	38	

(C) People in this neighborhood generally don't get along with each other.

	ORIGINAL	NEW	F3NC5
(1) Strongly agree	36	44	
(2) Agree	169	96	
(3) Neutral	111	70	
(4) Disagree	500	481	
(5) Strongly disagree	153	96	
(8) Don't know	97	80	
(9) Refused	5	1	
(.) Missing	96	34	

(D) People in this neighborhood do not share the same values.

	ORIGINAL	NEW	F3ND5
(1) Strongly agree	35	28	
(2) Agree	157	148	
(3) Neutral	172	127	
(4) Disagree	364	311	
(5) Strongly disagree	96	58	
(8) Don't know	239	196	
(9) Refused	8	1	
(.) Missing	96	33	

(E) People in this neighborhood can be trusted.

	ORIGINAL	NEW	F3NE5
(1) Strongly agree	196	131	
(2) Agree	573	507	
(3) Neutral	150	108	
(4) Disagree	62	51	
(5) Strongly disagree	10	13	
(8) Don't know	78	58	
(9) Refused	2	1	
(.) Missing	96	33	

F4. My next two questions are about **relatives or friends who live in this neighborhood, but who do not live with you**. For each statement please tell me if none, a few, many, or most live in your neighborhood.

How many of your:

(A). Relatives/family members live in your neighborhood?

	ORIGINAL	NEW	F4NA5
(1) None	549	475	
(2) A few	481	343	
(3) Many	32	38	
(4) Most	9	12	
(8) Don't know	4	2	
(.) Missing	92	32	

(B). Friends live in your neighborhood?

	ORIGINAL	NEW	F4NB5
(1) None	232	183	
(2) A few	628	492	
(3) Many	153	133	
(4) Most	53	55	
(8) Don't know	6	4	
(9) Refused	1	1	
(.) Missing	94	34	

Section G. GLOBAL HEALTH RATING

G1.P Now I would like to ask you some questions about your health. Overall, how would you rate your health: excellent, good, fair, or poor?

	ORIGINAL	NEW	HEALTH5
(1) Excellent	93	79	
(2) Good	302	221	
(3) Fair	553	410	
(4) Poor	219	191	
(.) Missing	0	1	

Section M. DIABETES

M9.P. Have either of your parents had diabetes?

(ASKED OF NEW SUBJECTS ONLY) (Original subjects asked at Baseline – Wave 1 1993-94)

	NEW	MDIAB59
(1) Yes, mom only	95	
(2) Yes, dad only	36	
(3) Yes, both	16	
(4) Yes, mom/dk dad	13	
(5) Yes, dad/dk mom	1	
(6) No, neither	594	
(8) Don't Know	145	
(9) Refuse	1	
(.) Missing	1	

ASK EVERYONE

M1.P Have you ever been told by a doctor that you have diabetes, sugar in your urine, or high blood sugar? (no longer have a borderline category)

	ORIGINAL	NEW	MDIAB51
(1) Yes, definitely	369	321	
(2) No	793	579	
(8) Don't know	4	1	
(9) Refused	1	1	

If yes (n=690) continue, otherwise skip to last question in section

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M2.P At what age did a doctor first tell you that you have diabetes?

ORIGINAL:	Range (1-91), Mean 62.97 std. 16.32 (n= 343 of 369)	MDIAB52
	(8) Don't know n=25	DKMDIA52
	(9) Refused n=1	
NEW:	Range (0-90), Mean 63.80 std. 14.48 (n=311 of 321)	
	(8) Don't know n=9	
	(9) Refused n=0	
	(.) Missing n=1	

M3.P Are you taking any medicine for diabetes now?

	ORIGINAL	NEW	MDIAB53
(1) Yes	321	285	
(2) No	47	35	
(8) Don't Know	0	0	
(9) Refused	1	1	

M6.P Are you now taking insulin shots?

	ORIGINAL (of 321)	NEW (of 285)	MDIAB56A
(1) Yes	76	79	
(2) No	244	206	
(8) Don't know	1	0	

M7.P For how many years altogether (have you taken/did you take) insulin shots? Note: could have answered combinations.

ORIGINAL:	Months- Range (2-20) Mean 6.71 std. 6.10 (n= 7)	MDIAB57b
	Years- Range (1-40) Mean 13.31 std. 9.36 (n= 65)	MDIAB57a
	(8) Don't know how many months or years <u>(n= 4)</u>	NOM57
	76	

NEW:	Months- Range (1-14) Mean 4.25 std. 3.98 (n= 12)	MDIAB57b
	Years- Range (1-35) Mean 11.69 std. 9.99 (n= 62)	MDIAB57a
	(8) Don't know how many months or years <u>(n= 5)</u>	NOM57
	79	

M6b.P Are you now taking diabetes pills?

	ORIGINAL (of 321)	NEW (of 285)	MDIAB56B
(1) Yes	291	258	
(2) No	30	27	

BASE: IF EVER TOLD HAD DIABETES in M1.

M10.P Did the doctor ever ask you to follow a special diet for your diabetes?

	ORIGINAL	NEW	MDIAB510
(1) Yes	260	219	
(2) No	106	101	
(8) Don't know	2	0	
(9) Refused	1	0	
(.) Missing	0	1	

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M10a.P Are you following that diet now?

	ORIGINAL (of 260)	NEW (of 219)	MDIA510a
(1) Yes	185	170	
(2) No	71	47	
(8) Don't know	1	1	
(9) Refused	1	0	
(.) Missing	2	1	

BASE: IF EVER TOLD HAD DIABETES in M1.

M8a.P As a result of your diabetes, have you ever had any problems with your kidneys?

	ORIGINAL	NEW	MDIAB58A
(1) Yes	45	44	
(2) No	320	270	
(8) Don't know	3	7	
(9) Refused	1	0	

IF YES, ASK M8b, OTHERWISE SKIP TO M8D

M8b.P Are you currently receiving kidney dialysis or artificial kidney treatments?

	ORIGINAL (of 45)	NEW (of 44)	MDIAB58B
(1) Yes	10	10	
(2) No	34	33	
(.) Missing	1	1	

BASE: IF EVER TOLD HAD DIABETES in M1.

M8d.P As a result of your diabetes, have you ever had any problems with your eyes?

	ORIGINAL	NEW	MDIAB58D
(1) Yes	133	113	
(2) No	228	199	
(8) Don't know	7	8	
(9) Refused	1	0	
(.) Missing	0	1	

M8f.P As a result of your diabetes, have you ever had any problems with the circulation in your legs or arms, or not?

	ORIGINAL	NEW	MDIAB58F
(1) Yes	138	128	
(2) No	223	177	
(8) Don't know	7	14	
(9) Refused	1	0	
(.) Missing	0	2	

M8g.P Have you ever had any part of your body amputated as a result of your diabetes, or not?

	ORIGINAL	NEW	MDIAB58g
(1) Fingers	0	0	
(2) Toes	2	7	
(3) One foot	0	0	
(4) Both feet	0	0	
(5) Lower leg	3	5	
(6) Both lower legs	3	3	
(7) Other (SPECIFY)	0	1	
(8) No Amputation	352	296	
(9) Refused	9	8	
(.) Missing	1	1	

M12.P. About how often do you check your blood for glucose or sugar? (excludes times checked by doctor)

Times per day:

ORIGINAL: Range (1-7), Mean 1.5 std. 0.8 (n= 157) **MDGLUD5**

NEW: Range (1-6), Mean 1.6 std. 0.8 (n= 136)

Times per week:

ORIGINAL: Range (1-10), Mean 2.2 std. 1.4 (n= 85) **MDGLUW5**

NEW: Range (1-4), Mean 2.0 std. 0.9 (n= 78)

Times per month:

ORIGINAL: Range (1-6), Mean 1.5 std. 1.0 (n= 48) **MDGLUM5**

NEW: Range (1-10), Mean 2.2 std. 2.1 (n= 44)

Times per year:

ORIGINAL: Range (1-18), Mean 4.5 std. 3.3 (n= 24) **MDGLUY5**

NEW: Range (1-56), Mean 6.3 std. 11.8 (n= 20)

	ORIGINAL	NEW	NMDIA512
(7) Never check blood glucose	45	24	
(8) Don't know	6	7	
(9) Refused	2	1	
(.) Missing (didn't answer # times or never)	56	44	

M13.P. A test for hemoglobin "A one C" measures the average level of blood sugar over the past three months. About how many times in the past 12 months has a doctor, nurse, or other health professional checked you for hemoglobin "A one C"?

ORIGINAL: Range (0-24), Mean 2.9 std. 4.5 (n= 128) **MDIAA1C5**

NEW: Range (0-12), Mean 3.2 std. 3.4 (n= 90)

	ORIGINAL	NEW	NOA1C5
(7) Never heard of hemoglobin A1c	167	163	
(8) Don't know	69	59	
(9) Refused	1	3	
(.) Missing (didn't answer # times or never)	5	6	

Section P. FALLS and PAIN

P8. During the past 12 months, how many times do you fall and land on the floor or ground.

	ORIGINAL	NEW	P8FALL5
(1) None	758	601	
(2) 1 time	205	134	
(3) 2 times	92	63	
(4) 3 or more times	107	91	
(8) DK	4	3	

P9. Went to hospital/ ER due to fall (of 553 who fell)

	ORIGINAL	NEW	P9FALL5
(1) Yes	117	97	
(2) No	283	190	

P10. How afraid are you of falling

	ORIGINAL	NEW	P10FALL5
(1) Not afraid	339	313	
(2) Somewhat afraid	291	222	
(3) Fairly afraid	179	137	
(4) Very afraid	275	183	
(8) DK	20	9	
(9) REF	2	2	

ASK P5 of EVERYONE

P5. In the past month, did you notice any pain or discomfort when you stood or walked?

	ORIGINAL	NEW	PARTH55
(1) Yes	599	502	
(2) No	487	381	
(8) Don't know	17	11	

ASK Q1 of EVERYONE

Section Q. INCONTINENCE

Now I have some brief questions about your urine.

Q1. How often do you have difficulty holding your urine until you can get to a toilet – never, hardly ever, some of the time, most of the time, or all of the time?

	ORIGINAL	NEW	QINCON51
(1) Never	624	536	
(2) Hardly ever	106	70	
(3) Some of the time	238	166	
(4) Most of the time	52	49	
(5) All of the time	57	42	
(6) All the time (catheter or cancer)	6	5	
(8) Don't know	5	5	
(9) Refused	5	2	

ASK EVERYONE

Section S. HEARING

S5. P. (With/Without a hearing aid) can you usually hear and understand what a person says without seeing his face if that person talks in a normal voice to you in a quiet room?

	ORIGINAL	NEW	SHEAR55
(1) Yes, without a hearing aid	864	648	
(2) Yes, with a hearing aid	76	65	
(3) No	217	184	
(8) Don't know	8	4	
(9) Refused	1	0	

Section V. VISION

V6. P Can you see well enough to recognize a friend or a family member (when wearing glasses/contacts if applicable)?

	ORIGINAL	NEW	VVIS56A
a. Across the street			
(1) Yes	964	785	
(2) No	184	109	
(3) Blind	10	5	
(8) Don't Know	9	1	
(9) Refused	0	1	
(.) Missing	0	1	

	ORIGINAL	NEW	VVIS56B
b. Across the room			
(1) Yes	1085	852	
(2) No	65	43	
(3) Blind	10	5	
(8) Don't Know	7	0	
(9) Refused	0	1	
(.) Missing	0	1	

	ORIGINAL	NEW	VVIS56C
c. Who is at arm's length away			
(1) Yes	1084	857	
(2) No	66	37	
(3) Blind	10	5	
(8) Don't Know	7	1	
(9) Refused	0	1	
(.) Missing	0	1	

Created variable 'Difficulty with distant vision' (if vvis56a=2 or vvis56b=2)

	ORIGINAL	NEW	DVISION5
(1) Yes	187	111	
(0) No	980	790	
(.) Missing	0	1	

Created variable 'Difficulty with near vision' (if vvis56c=2)

	ORIGINAL	NEW	NVISION5
(1) Yes	66	37	
(0) No	1101	864	
(.) Missing	0	1	

ASK EVERYONE

Section GG. BLOOD PRESSURE

GG1.P-R Now I would like to take your pulse and two blood pressure readings. PULSE FOR 30 SECONDS?

ORIGINAL: (2-88) Range, Mean 36.1, Std. 6.5	1060	GG51
New: (4-89) Range, Mean 35.7, Std. 6.1	788	

SEATED BLOOD PRESSURE READINGS:

Number of systolic readings

	ORIGINAL	NEW	NSBP5
(0) No readings	119	110	
(1) One reading	10	10	
(2) Both readings	1038	782	

Average systolic blood pressure

ORIGINAL: Range (72-190), Mean 131.72 std. 15.46 (n= 1048)	SBP_AVG5
NEW: Range (82-190), Mean 132.49 std. 15.22 (n=792)	

Number of diastolic readings

	ORIGINAL	NEW	NDBP5
(0) No readings	120	110	
(1) One reading	13	12	
(2) Both readings	1034	780	

Average diastolic blood pressure

ORIGINAL: Range (41.5-112), Mean 74.08 std. 10.46 (n= 1047), missing=1	DBP_AVG5
NEW: Range (46-110), Mean 75.02 std. 10.11 (n=792)	

STANDING BLOOD PRESSURE READING: *(Not included in averages)*

Systolic blood pressure

ORIGINAL: Range (72-228), Mean 132.65 std. 16.41 (n= 968)	GG7SYS5
NEW: Range (80-195), Mean 132.95 std. 15.82 (n=737)	

Diastolic blood pressure

ORIGINAL: Range (34-112), Mean 75.48 std. 10.25 (n= 967), missing=1	GG7DIA5
NEW: Range (28-140), Mean 76.16 std. 10.32 (n=737)	

P-R Cuff size?

	ORIGINAL	NEW	GG56
(1) Regular	971	747	
(2) Pediatric	11	6	
(3) Large arm	33	9	
(7) Not performed	119	93	
(*) Missing/na true proxies	33	47	

ASK K1 of EVERYONE

Section K. HYPERTENSION

K1.P Has a doctor ever told you that you have high blood pressure?

	ORIGINAL	NEW	KHYPER51
(1) Yes	714	547	
(2) Suspect/possible	18	7	
(3) No	422	338	
(8) Don't know	12	9	
(9) Refused	1	1	

EVER BEEN TOLD BY DOCTOR HAVE HIGH BLOOD PRESSURE , YES OR SUSPECT (K1)

K2.P How many years ago were you told you that you have high blood pressure?

ORIGINAL: Range (0-48), Mean 11.1 std. 10.4 (n= 637) **KHYPER52**
NEW: Range (0-49), Mean 12.5 std. 11.4 (n=519)

K4.P Are you currently taking any medication for high blood pressure? (of 1286)

	ORIGINAL (n= of 732)	NEW (of 554)	KHYPER54
(1) Yes	646	503	
(2) No	77	44	
(8) Don't know	6	4	
(9) Refused	0	1	
(.) Missing	3	2	

ASK SECTION U of EVERYONE

Section U – OTHER HEALTH PROBLEMS

U3.P Has a doctor or other health care professional ever told you that you had any of the following conditions:

U3a. Kidney Disease

	ORIGINAL	NEW	U53A
(1) Yes	109	96	
(2) No	1050	797	
(8) Don't know	5	8	
(9) Refused	3	0	
(.) Missing	0	1	

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U3d. Liver Disease

	ORIGINAL	NEW	U53D
(1) Yes	75	44	
(2) No	1085	852	
(8) Don't know	4	5	
(9) Refused	3	0	
(.) Missing	0	1	

U3f. Osteoporosis

	ORIGINAL	NEW	U53F
(1) Yes	228	175	
(2) No	920	711	
(8) Don't know	16	14	
(9) Refused	3	0	
(.) Missing	0	2	

U3g. Emphysema

	ORIGINAL	NEW	U53G
(1) Yes	92	84	
(2) No	1067	809	
(8) Don't know	3	4	
(9) Refused	3	0	
(.) Missing	2	5	

U3h. Parkinson's Disease

	ORIGINAL	NEW	U53H
(1) Yes	34	26	
(2) No	1118	861	
(8) Don't know	11	11	
(9) Refused	3	1	
(.) Missing	1	3	

U3j. (MALES) Prostate Problems

	ORIGINAL (of 425)	NEW (of 371)	U53J
(1) Yes	140	142	
(2) No	276	226	
(8) Don't know	7	2	
(9) Refused	2	0	
(.) Missing	0	1	

U3k. Thyroid or glandular problems

	ORIGINAL	NEW	U53K
(1) Yes	140	104	
(2) No	1005	783	
(8) Don't know	13	12	
(9) Refused	4	0	
(.) Missing	5	4	

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U3m. Anemia or low blood count.

	ORIGINAL	NEW	U53M
(1) Yes	153	131	
(2) No	1002	757	
(8) Don't know	6	12	
(9) Refused	3	0	
(.) Missing	3	2	

U3n. Eye problems (cataracts, glaucoma, macular degeneration)

	ORIGINAL	NEW	U53N
(1) Yes	698	526	
(2) No	460	370	
(8) Don't know	6	2	
(9) Refused	3	0	
(.) Missing	0	4	

U3q. Heart Failure or Heart Disease

	ORIGINAL	NEW	U53Q
(1) Yes	273	270	
(2) No	878	624	
(8) Don't know	13	7	
(9) Refused	3	0	
(.) Missing	0	1	

U3u. Alzheimer's Disease or other dementia.

	ORIGINAL	NEW	U53U
(1) Yes	105	62	
(2) No	1039	820	
(8) Don't know	16	14	
(9) Refused	3	0	
(.) Missing	4	6	

U3x. Arthritis

	ORIGINAL	NEW	U53X
(1) Yes	696	529	
(2) No	447	361	
(8) Don't know	20	11	
(9) Refused	3	0	
(.) Missing	1	1	

U3y. Cancer

	ORIGINAL	NEW	LCANCR51
(1) Yes	79	70	
(2) No	1081	831	
(8) Don't know	4	1	
(9) Refused	3	0	

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Where was the cancer? **BREAST**

	ORIGINAL	NEW	LCANCR52
(0) No	57	31	
(1) Yes	13	5	
(.) Missing	9	34	

Where was the cancer? **COLON, BOWEL, STOMACH**

	ORIGINAL	NEW	LCANCR53
(0) No	63	36	
(1) Yes	7	0	
(.) Missing	9	34	

Where was the cancer? **PROSTATE**

	ORIGINAL	NEW	LCANCR54
(0) No	50	27	
(1) Yes	20	9	
(.) Missing	2	34	

Where was the cancer? **SKIN CANCER**

	ORIGINAL	NEW	LCANCR55
(0) No	63	31	
(1) Yes	7	5	
(.) Missing	9	34	

THE WORDING FOR THIS SECTION DEPENDS ON THE SUBJECT'S COHORT. FOLLOWING THIS SECTION ARE 4 NEW VARIABLES: EVERHRTATK, EVERSTROKE, EVERHIPFR, AND EVEROTHFR. THESE COMBINE THE EVER FOR THE NEW SUBJECTS AND AN EVER FOR THE ORIGINAL SUBJECTS (BASED ON PREVIOUS WAVES PLUS PRESENT WAVE).

Original Subjects: Since we last spoke with you (about 3 years ago), have you been told by a doctor that you:

New Subjects: Has a doctor ever told you that you:

I1.P Had a heart attack, or coronary, or myocardial infarction, or coronary thrombosis?

	ORIGINAL	NEW	ICARDI51
(1) Yes	75	102	
(2) No	1081	791	
(.) Missing	11	9	

I5.P. If "Yes", were you hospitalized overnight for this?

	ORIGINAL	NEW	ICARDI55
(1) Yes	67	79	
(2) No	8	15	
(8) Don't know	0	1	
(9) Refused	0	0	
(.) Missing	0	7	

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J1P. Had/suspect a stroke, blood clot in the brain, or brain hemorrhage?

	ORIGINAL	NEW	JSTROK51
(1) Yes	93	80	
(2) No	1067	815	
(.) Missing	7	7	

J5.P. If "Yes", were you hospitalized overnight for this?

	ORIGINAL	NEW	JSTROK55
(1) Yes	72	67	
(2) No	21	8	
(.) Missing	0	5	

N.1P. Had broken or fractured your hip?

	ORIGINAL	NEW	NFRAC51
(1) Yes	45	54	
(2) No	1114	846	
(8) Don't know	3	1	
(9) Refused	3	0	
(.) Missing	2	1	

N5.P. If "Yes", were you hospitalized overnight for this?

	ORIGINAL	NEW	NFRAC55
(1) Yes	38	44	
(2) No	7	3	
(8) Don't know	0	0	
(9) Refused	0	0	
(.) Missing	0	7	

N.1P. Had broken or fractured any other bone?

	ORIGINAL	NEW	NFRAC53
(1) Yes	113	175	
(2) No	1046	722	
(8) Don't know	3	2	
(9) Refused	3	0	
(.) Missing	2	3	

IF "YES"

Where was this other fracture? **WRIST**

	ORIGINAL (of 113)	NEW (of 175)	NFRAC54a
(0) No	81	165	
(1) Yes	17	10	
(.) Missing	15	0	

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Where was this other fracture? **ARM**

	ORIGINAL (of 113)	NEW (of 175)	NFRAC54b
(0) No	83	161	
(1) Yes	15	14	
(.) Missing	15	0	

Where was this other fracture? **BACK/SPINE**

	ORIGINAL (of 113)	NEW (of 175)	NFRAC54c
(0) No	93	167	
(1) Yes	5	8	
(.) Missing	15	0	

Where was this other fracture? **RIBS**

	ORIGINAL (of 113)	NEW (of 175)	NFRAC54d
(0) No	90	160	
(1) Yes	8	15	
(.) Missing	15	0	

Where was this other fracture? **FOOT/ANKLE**

	ORIGINAL (of 113)	NEW (of 175)	NFRAC54e
(0) No	82	152	
(1) Yes	16	23	
(.) Missing	15	0	

Where was this other fracture? **KNEE**

	ORIGINAL (of 113)	NEW (of 175)	NFRAC54f
(0) No	85	166	
(1) Yes	13	9	
(.) Missing	15	0	

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Where was this other fracture? **LEG**

	ORIGINAL (of 113)	NEW (of 175)	NFRAC54g
(0) No	85	159	
(1) Yes	13	16	
(.) Missing	15	0	

Where was this other fracture? **SHOULDER**

	ORIGINAL (of 113)	NEW (of 175)	NFRAC54h
(0) No	85	167	
(1) Yes	13	8	
(.) Missing	15	0	

Where was this other fracture? **HAND/FINGER**

	ORIGINAL (of 113)	NEW (of 175)	NFRAC54i
(0) No	89	158	
(1) Yes	9	17	
(.) Missing	15	0	

Where was this other fracture? **OTHER/MISC**

	ORIGINAL (of 113)	NEW (of 175)	NFRAC54j
(0) No	93	168	
(1) Yes	5	7	
(.) Missing	15	0	

“EVER” VARIABLES FOR ITEMS I1, J1, N1, N3:

HEART ATTACK (I1)	ORIGINAL	NEW	EVERHRTATK
(0) No	928	791	
(1) Yes	239	102	
(.) Missing	0	9	

STROKE (J1)	ORIGINAL	NEW	EVERSTROKE
(0) No	965	815	
(1) Yes	202	80	
(.) Missing	0	7	

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HIP FRACTURE (N1)	ORIGINAL	NEW	EVERHIPFR
(0) No	1066	846	
(1) Yes	101	54	
(.) Missing	0	2	
OTHER FRACTURE (N3)	ORIGINAL	NEW	EVEROTHFR
(0) No	845	722	
(1) Yes	322	175	
(.) Missing	0	5	

(If FEMALE)

U2F. In the past two years have you had a MAMMOGRAM?

	ORIGINAL (n= 742)	NEW (n= 531)	U2FMAMM5
(1) Yes	332	267	
(2) No	381	249	
(8) Don't know	15	7	
(9) Refused	1	4	
(.) Missing	13	4	

U2F. In the past two years have you had a PAP SMEAR?

	ORIGINAL (n= 742)	NEW (n= 531)	U2HPAP5
(1) Yes	242	212	
(2) No	465	302	
(8) Don't know	21	9	
(9) Refused	1	4	
(.) Missing	13	4	

ASK U3 of EVERYONE

U3AMP Have you ever had any part of your body amputated?

	ORIGINAL	NEW	U3AMP
(1) Yes	24	28	
(2) No	1135	874	
(8) Don't know	1	0	
(9) Refused	2	0	
(.) Missing	5	0	

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Amputation? **FINGERS**

	ORIGINAL (of 24)	NEW (of 28)	FINGERS_1
(0) No	17	25	
(1) Yes	6	3	
(.) Missing	1	0	

Amputation? **TOES**

	ORIGINAL (of 24)	NEW (of 28)	TOES_1
(0) No	22	19	
(1) Yes	1	9	
(.) Missing	1	0	

Amputation? **ONE FOOT**

	ORIGINAL (of 24)	NEW (of 28)	ONEFOOT_1
(0) No	21	27	
(1) Yes	2	1	
(.) Missing	1	0	

Amputation? **BOTH FEET**

	ORIGINAL (of 24)	NEW (of 28)	BOTHFEET_1
(0) No	23	28	
(1) Yes	0	0	
(.) Missing	1	0	

Amputation? **LOWER LEG**

	ORIGINAL (of 24)	NEW (of 28)	LOWERLEG_1
(0) No	18	21	
(1) Yes	5	7	
(.) Missing	1	0	

Amputation? **BOTH LOWER LEGS**

	ORIGINAL (of 24)	NEW (of 28)	BOTHLOWLEG_1
(0) No	20	23	
(1) Yes	3	5	
(.) Missing	1	0	

Amputation? **OTHER**

	ORIGINAL (of 24)	NEW (of 28)	AMPOTHER_1
(0) No	14	22	
(1) Yes	9	6	
(.) Missing	1	0	

BASE: HAVE HAD AMPUTATION

U3z.P What caused you to have or need this/these amputations?

	ORIGINAL (of 24)	NEW (of 28)	UAMP3Z5
(1) Diabetes	9	15	
(2) Other Illness	5	7	
Specify _____			
(3) Work related accident	5	2	
(4) Auto Accident	0	1	
(5) Accident in the home	1	2	
(6) Other type of accident	1	1	
Specify _____			
(8) Don't know	2	0	
(9) Refused	1	0	

W. Mini Mental Status Exam

W1. What is the year?

	ORIGINAL	NEW	WCORR51
(0) ERROR	234	179	
(1) CORRECT	856	672	
(.) Missing & proxies	77	51	

W2. What is the season?

	ORIGINAL	NEW	WCORR52
(0) ERROR	328	307	
(1) CORRECT	762	547	
(.) Missing & proxies	77	48	

W3. What is the month?

	ORIGINAL	NEW	WCORR53
(0) ERROR	163	129	
(1) CORRECT	928	721	
(.) Missing & proxies	76	52	

W4. What is the date?

	ORIGINAL	NEW	WCORR54
(0) ERROR	350	303	
(1) CORRECT	742	556	
(.) Missing & proxies	75	43	

W5. What is the day of the week?

	ORIGINAL	NEW	WCORR55
(0) ERROR	132	103	
(1) CORRECT	929	721	
(.) Missing & proxies	106	78	

W6. Can you tell me where we are right now? For instance, what state are we in?

	ORIGINAL	NEW	WCORR56
(0) ERROR	84	62	
(1) CORRECT	966	755	
(.) Missing & proxies	117	85	

W7. What county are we in?

	ORIGINAL	NEW	WCORR57
(0) ERROR	242	224	
(1) CORRECT	818	605	
(.) Missing & proxies	107	73	

W8. What (city/town) are we in?

	ORIGINAL	NEW	WCORR58
(0) ERROR	56	47	
(1) CORRECT	1003	783	
(.) Missing & proxies	108	72	

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W9. What floor of the building are we on?

	ORIGINAL	NEW	WCORR59
(0) ERROR	51	48	
(1) CORRECT	987	737	
(.) Missing & proxies	129	117	

W10. What is this address?

	ORIGINAL	NEW	WCORR510
(0) ERROR	145	115	
(1) CORRECT	911	699	
(.) Missing & proxies	111	88	

W11. I'm going to name three objects. After I have said them, I want you to repeat them. Remember what they are because I am going to ask you to name them again in a few minutes

	ORIGINAL	NEW	WMMS511A
a. Apple			
(0) ERROR	51	41	
(1) CORRECT	1008	768	
(.) Missing & proxies	108	93	

	ORIGINAL	NEW	WMMS511B
b. Table			
(0) ERROR	91	87	
(1) CORRECT	968	724	
(.) Missing & proxies	108	91	

	ORIGINAL	NEW	WMMS511C
c. Penny			
(0) ERROR	96	105	
(1) CORRECT	968	724	
(.) Missing & proxies	108	91	

W12. Now I'd like you to spell the word "world" backwards. All 5 letters correct?

	ORIGINAL	NEW	WMMSE512
(0) ERROR (0 or < 5 letters)	729	556	
(5) CORRECT (all 5 letters)	331	265	
(.) Missing & proxies	107	81	

W13. Now what are the objects I asked you to remember?

	ORIGINAL	NEW	WMMS513A
a. Apple			
(0) ERROR	195	204	
(1) CORRECT	842	610	
(.) Missing & proxies	130	88	

	ORIGINAL	NEW	WMMS513B
b. Table			
(0) ERROR	341	312	
(1) CORRECT	682	497	
(.) Missing & proxies	144	93	

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	ORIGINAL	NEW	WMMS513C
c. Penny			
(0) ERROR	421	389	
(1) CORRECT	606	421	
(.) Missing & proxies	143	92	

W14. What is this called? (watch)

	ORIGINAL	NEW	WMMSE514
(0) ERROR	24	15	
(1) CORRECT	1014	793	
(.) Missing & proxies	129	94	

W15. What is this called? (pencil)

	ORIGINAL	NEW	WMMSE515
(0) ERROR	24	14	
(1) CORRECT	1016	787	
(.) Missing & proxies	127	101	

W16. I'd like you to repeat a phrase after me.

	ORIGINAL	NEW	WMMSE516
(0) ERROR	110	82	
(1) CORRECT	859	652	
(.) Missing & proxies	198	168	

W17. Please read the words on this card and then do what it says.

	ORIGINAL	NEW	WMMSE517
(0) ERROR	199	151	
(1) CORRECT	756	588	
(.) Missing & proxies	212	163	

W18. I'm going to give you a piece of paper. When I do, take the paper in your right hand, fold it in half with both hands, and put it on the floor.

a. Takes paper in right hand

	ORIGINAL	NEW	WMMS518A
(0) ERROR	60	27	
(1) CORRECT	867	692	
(.) Missing & proxies	240	183	

b. Folds paper in half

	ORIGINAL	NEW	WMMS518B
(0) ERROR	63	27	
(1) CORRECT	890	737	
(.) Missing & proxies	214	138	

c. Puts paper down on the floor

	ORIGINAL	NEW	WMMS518C
(0) ERROR	69	32	
(1) CORRECT	905	740	
(.) Missing & proxies	193	130	

W19. Please write a complete sentence on the piece of paper

	ORIGINAL	NEW	WMMSE519
(0) ERROR	263	215	
(1) CORRECT	672	505	
(.) Missing & proxies	232	182	

W20. Here is a drawing. Please copy it exactly on this sheet of paper.

	ORIGINAL	NEW	WMMSE520
(0) ERROR	187	130	
(1) CORRECT	473	372	
(.) Missing & proxies	507	400	
			TOTMMSE5

ORIGINAL: n=1092, Missing=90 Mean=21.1 Std=7.1 Range=0-30
NEW: n=859, Missing=44 Mean=20.6 Std=7.1 Range=0-30

X. CENTER FOR EPIDEMIOLOGIC STUDIES

X1. I was bothered by things that usually don't bother me.

	ORIGINAL	NEW	X5CESD1
(0) Rarely/None	699	573	
(1) Some/Little	204	127	
(2) Occas/Moderate	78	52	
(3) Most/All	63	73	
(.) Missing & proxies	123	77	

X2. I did not feel like eating: my appetite was poor/

	ORIGINAL	NEW	X5CESD2
(0) Rarely/None	787	630	
(1) Some/Little	159	92	
(2) Occas/Moderate	68	55	
(3) Most/All	45	65	
(.) Missing & proxies	108	60	

X3. I felt that I could not shake off the blues even with help from my family and friends.

	ORIGINAL	NEW	X5CESD3
(0) Rarely/None	767	630	
(1) Some/Little	169	114	
(2) Occas/Moderate	79	42	
(3) Most/All	28	47	
(.) Missing & proxies	124	69	

X4. I felt that I was just as good as other people.

	ORIGINAL	NEW	X5CESD4
(0) Rarely/None	76	53	(reverse this item when computing scale)
(1) Some/Little	80	68	
(2) Occas/Moderate	130	75	
(3) Most/All	726	612	
(.) Missing & proxies	155	94	

X5. I had trouble keeping my mind on what I was doing.

	ORIGINAL	NEW	X5CESD5
(0) Rarely/None	675	576	
(1) Some/Little	240	134	
(2) Occas/Moderate	73	48	
(3) Most/All	58	70	
(.) Missing & proxies	121	74	

X6. I felt depressed.

	ORIGINAL	NEW	X5CESD6
(0) Rarely/None	670	545	
(1) Some/Little	232	194	
(2) Occas/Moderate	87	52	
(3) Most/All	58	45	
(.) Missing & proxies	120	66	

X7. I felt that everything I did was an effort.

	ORIGINAL	NEW	X5CESD7
(0) Rarely/None	514	453	
(1) Some/Little	282	183	
(2) Occas/Moderate	130	70	
(3) Most/All	117	117	
(.) Missing & proxies	124	79	

X8. I felt hopeful about the future.

	ORIGINAL	NEW	X5CESD8
(0) Rarely/None	57	59	(reverse this item when computing scale)
(1) Some/Little	160	146	
(2) Occas/Moderate	228	146	
(3) Most/All	561	459	
(.) Missing & proxies	161	92	

X9. I thought my life had been a failure.

	ORIGINAL	NEW	X5CESD9
(0) Rarely/None	888	706	
(1) Some/Little	76	59	
(2) Occas/Moderate	32	21	
(3) Most/All	30	34	
(.) Missing & proxies	141	82	

X10. I felt fearful.

	ORIGINAL	NEW	X5CESD10
(0) Rarely/None	841	676	
(1) Some/Little	144	103	
(2) Occas/Moderate	35	27	
(3) Most/All	30	28	
(.) Missing & proxies	117	68	

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X11. My sleep was restless.

	ORIGINAL	NEW	X5CESD11
(0) Rarely/None	678	513	
(1) Some/Little	226	151	
(2) Occas/Moderate	94	89	
(3) Most/All	59	83	
(.) Missing & proxies	110	66	

X12. I was happy.

	ORIGINAL	NEW	X5CESD12
(0) Rarely/None	41	31	
(1) Some/Little	135	98	(reverse this item when computing scale)
(2) Occas/Moderate	235	107	
(3) Most/All	636	594	
(.) Missing & proxies	120	72	

X13. It seemed that I talked less than usual.

	ORIGINAL	NEW	X5CESD13
(0) Rarely/None	782	647	
(1) Some/Little	160	92	
(2) Occas/Moderate	66	51	
(3) Most/All	31	36	
(.) Missing & proxies	128	76	

X14. I felt lonely.

	ORIGINAL	NEW	X5CESD14
(0) Rarely/None	722	564	
(1) Some/Little	185	159	
(2) Occas/Moderate	79	54	
(3) Most/All	62	59	
(.) Missing & proxies	119	66	

X15. People were unfriendly.

	ORIGINAL	NEW	X5CESD15
(0) Rarely/None	898	721	
(1) Some/Little	66	42	
(2) Occas/Moderate	38	19	
(3) Most/All	27	36	
(.) Missing & proxies	138	84	

X16. I enjoyed life.

	ORIGINAL	NEW	X5CESD16
(0) Rarely/None	38	50	
(1) Some/Little	171	136	(reverse this item when computing scale)
(2) Occas/Moderate	222	120	
(3) Most/All	608	523	
(.) Missing & proxies	128	73	

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X17. I had crying spells.

	ORIGINAL	NEW	X5CESD17
(0) Rarely/None	753	585	
(1) Some/Little	170	148	
(2) Occas/Moderate	78	43	
(3) Most/All	54	58	
(.) Missing & proxies	112	68	

X18. I felt sad.

	ORIGINAL	NEW	X5CESD18
(0) Rarely/None	630	497	
(1) Some/Little	251	205	
(2) Occas/Moderate	108	70	
(3) Most/All	67	62	
(.) Missing & proxies	111	68	

X19. I felt that people disliked me.

	ORIGINAL	NEW	X5CESD19
(0) Rarely/None	902	719	
(1) Some/Little	88	59	
(2) Occas/Moderate	30	18	
(3) Most/All	18	18	
(.) Missing & proxies	129	88	

X20. I could not get going.

	ORIGINAL	NEW	X5CESD20
(0) Rarely/None	677	515	
(1) Some/Little	232	185	
(2) Occas/Moderate	65	48	
(3) Most/All	72	73	
(.) Missing & proxies	121	81	

ORIGINAL: n=1060

NEW: n=843

Mean=9.59

Std=8.97

Range=0-49

Mean=9.73

Std=9.35

Range=0-51

CESDTOT5

	ORIGINAL	NEW	CASE5
(0) No	837	675	
(1) Yes	223	168	
(.) Missing/na	107	59	

Y. SMOKING

Y1. Have you ever smoked at least 100 cigarettes in your entire life?

	ORIGINAL	NEW	YSMOKE51
(0) No	653	464	
(1) Yes	508	429	
(.) Missing	6	9	

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Y3. Do you smoke cigarettes now?

	ORIGINAL	NEW	YSMOKE53
(0) No	1086	813	
(1) Yes	72	47	
(.) Missing	9	42	

Z. ALCOHOL CONSUMPTION

ZaP. Have you ever drunk any type of alcohol (beer, wine, liquor) in your entire life?

	ORIGINAL	NEW	ZALC51A
(0) No	541	388	
(1) Yes	620	509	
(.) Missing	6	5	

Z2P. In the past month, have you had any beer, wine or liquor?

	ORIGINAL	NEW	ZALC52
(0) No	467	380	
(1) Yes	152	127	
(.) Missing	1	2	

This section asked of new subjects only.

BASE EVER DRUNK ALCOHOL

Z7. Have you ever felt you should cut down on your drinking? (of 509)

	ORIGINAL	NEW	ZALC57
(0) No	NA	391	
(1) Yes	NA	82	
(.) Missing	NA	36	

Z8. Have people annoyed you by criticizing your drinking?

	ORIGINAL	NEW	ZALC58
(0) No	NA	435	
(1) Yes	NA	32	
(.) Missing	NA	42	

Z9. Have you ever felt bad or guilty about your drinking?

	ORIGINAL	NEW	ZALC59
(0) No	NA	422	
(1) Yes	NA	46	
(.) Missing	NA	41	

Z10. Have you ever had a drink first thing in the morning to steady your nerves or to get rid of a hangover? (Eye-opener)

	NEW	ZALC510
(0) No	436	
(1) Yes	32	
(.) Missing	41	

New subjects at Wave 5 (Sum of Z7-Z10)

0	376
1	53
2	22
3	13
4	14

CAGE5
N=478, Mean=0.4, std.=0.9, Range 0-4

Original subjects at Baseline (Sum of Z7-Z10)

0	316
1	91
2	46
3	29
4	19

CAGE
N=501, Mean=0.7, std.=1.1, Range 0-4

AA. MEDICATIONS

AA1 P. During the past 2 weeks, did you take or use any medicine prescribed by a doctor (including those mentioned earlier).

	ORIGINAL	NEW	AAMED51
(1) Yes	990	782	
(2) No	138	110	
(8) DK	9	2	
(9) REF	4	3	
(.) Missing	26	5	

AA2 P. Did you take or use any drugs prescribed by a doctor that are not to be taken regularly, but only as needed?

	ORIGINAL	NEW	AAMED52
(1) Yes, past 2 wks	214	159	
(2) Yes, no past 2 wks	112	79	
(3) No	787	642	
(8) DK	20	9	
(9) REF	4	3	
(.) Missing	30	10	

AA2a P. Did you ever not get prescriptions filled because you do not have enough money to pay for them?

	ORIGINAL	NEW	AAMED52A
(1) Yes	268	215	
(2) No	857	664	
(8) DK	6	10	
(9) REF	4	3	
(.) Missing	32	10	

AA3 P. We are also interested in other medicines not prescribed by a doctor, such as aspirin or other pain medications, laxatives, vitamins or medicines for colds. During the past 2 weeks, did you take any medicine not prescribed by a doctor?

	ORIGINAL	NEW	AAMED53
(1) Yes	743	527	
(2) No	374	361	
(8) DK	14	4	
(9) REF	5	2	
(.) Missing	31	8	

AA5 P. May I please see all these medicines (containers) and vitamins that you have taken or used in the past 2 weeks, and the drugs that you take only as needed?

	ORIGINAL	NEW	AAMED55
(1) Yes	993	745	
(2) No	44	70	
(9) REF	19	17	
(.) Missing/na	111	70	

AA9 P. During the past twelve months, how many times did you discuss health conditions or medicines with a pharmacist?

AA59

ORIGINAL:

(0-60) Range, Mean .86 Std. 3.3

n=1067, missing=100

NEW:

(0-27) Range, Mean .82 Std. 2.8

n= 856, missing =46

AA.9a P. Did you discuss (for those who replied >0 # times n=248):

Health Maintenance/Disease Prevention

	ORIGINAL	NEW	AA591
(0) No	121	77	
(1) Yes	12	23	
(.) Missing	6	9	

Prescription medication (RX)

	ORIGINAL	NEW	AA592
(0) No	24	17	
(1) Yes	109	83	
(.) Missing	6	9	

Experiencing Side effects of Prescription medications

	ORIGINAL	NEW	AA593
(0) No	120	95	
(1) Yes	13	5	
(.) Missing	6	9	

Over the Counter medications (OTC)

	ORIGINAL	NEW	AA594
(0) No	118	89	
(1) Yes	15	11	
(.) Missing	6	9	

Experiencing Side effects of OTC

	ORIGINAL	NEW	AA595
(0) No	128	96	
(1) Yes	5	4	
(.) Missing	6	9	

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Nutritional Supplements

	ORIGINAL	NEW	AA596
(0) No	130	97	
(1) Yes	3	3	
(.) Missing	6	9	

Vitamins and Minerals

	ORIGINAL	NEW	AA597
(0) No	122	91	
(1) Yes	11	9	
(.) Missing	6	9	

Alternative therapies (folk medicines, massage therapy, acupuncture)

	ORIGINAL	NEW	AA598
(0) No	129	99	
(1) Yes	4	1	
(.) Missing	6	9	

Something Else (specify)

	ORIGINAL	NEW	AA5996
(0) No	127	95	
(1) Yes	6	5	
(.) Missing	6	9	

None of these

	ORIGINAL	NEW	AA5997
(0) No	128	98	
(1) Yes	5	2	
(.) Missing	6	9	

Not Applicable

	ORIGINAL	NEW	AA5998
(0) No	133	100	
(.) Missing	6	9	

Section BB. IADLs

a. Can you use the telephone without help (including looking up numbers and dialing)?

	ORIGINAL	NEW	BB1A5
(1) Yes	934	758	
(2) No	233	140	
(8) Don't know	0	2	
(9) Refused	0	1	
(.) Missing	0	1	

b. Can you drive your own car or travel alone on buses or taxis?

	ORIGINAL	NEW	BB1B5
(1) Yes	577	501	
(2) No	589	398	
(8) Don't know	1	3	

c. Can you go shopping for groceries or clothes without help (taking care of all shopping needs yourself, assuming you had transportation)?

	ORIGINAL	NEW	BB1C5
(1) Yes	665	591	
(2) No	502	309	
(8) Don't know	0	2	

d. Can you prepare your own meals without help (plan and cook full meals yourself)?

	ORIGINAL	NEW	BB1D5
(1) Yes	814	681	
(2) No	351	220	
(8) Don't know	1	0	
(9) Refused	1	0	
(.) Missing	0	1	

e. Can you do light housework without help (dishwashing and bed making, etc)?

	ORIGINAL	NEW	BB1E5
(1) Yes	810	686	
(2) No	356	214	
(9) Refused	1	0	
(.) Missing	0	2	

f. Can you take your medicine without help (in the right doses at the right time)?

	ORIGINAL	NEW	BB1F5
(1) Yes	889	722	
(2) No	267	173	
(8) Don't know	4	5	
(9) Refused	3	1	
(.) Missing	4	1	

g. Can you handle your money without help (write checks, pay bills, etc)?

	ORIGINAL	NEW	BB1G5
(1) Yes	800	690	
(2) No	365	208	
(8) Don't know	1	2	
(9) Refused	0	1	
(.) Missing	1	1	

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h. Can you do heavy work around the house like washing windows, walls and floors without help?

	ORIGINAL	NEW	BB1H5
(1) Yes	392	334	
(2) No	771	567	
(8) Don't know	4	1	

i. Can you walk up and down stairs to the second floor without help?

	ORIGINAL	NEW	BB1I5
(1) Yes	556	465	
(2) No	605	430	
(8) Don't know	6	7	
(.) Missing	0	0	

j. Can you walk half a mile without help?

	ORIGINAL	NEW	BB1J5
(1) Yes	527	469	
(2) No	625	419	
(8) Don't know	14	14	
(.) Missing	1	1	

Created variable: sum of all 10 items

Recode 1 (unable to do), 2 to 0(able), 8 & 9 to missing and sum **TOTIADL5**

ORIGINAL:

(0-10) Range, Mean 4.0 Std. 3.6 1167 (282 no help needed)

NEW:

(0-10) Range, Mean 3.4 Std. 3.3 902 (247 no help needed)

Created variable: Reporting one or more or none

	ORIGINAL	NEW	ANYIADL5
(0) No help needed/able to do	282	247	
(1) Help with 1 or more	885	655	

ADLs

BB2.P At the present time, do you need help from another person or special equipment or a device for?

a. Walking across a small room

	ORIGINAL	NEW	BB2A5
(1) Need Help	289	202	
(2) Don't Need Help	838	678	
(3) Unable to do	40	21	
(9) Refused	0	1	

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b. Bathing (either a sponge bath, tub bath, or shower)

	ORIGINAL	NEW	BB2B5
(1) Need Help	299	188	
(2) Don't Need Help	846	701	
(3) Unable to do	22	11	
(8) DK	0	1	
(9) Refused	0	1	

c. Personal grooming like brushing hair, brushing teeth, or washing face

	ORIGINAL	NEW	BB2C5
(1) Need Help	166	104	
(2) Don't Need Help	985	786	
(3) Unable to do	14	10	
(8) Don't know	2	0	
(9) Refused	0	1	
(.) Missing	0	1	

d. Dressing (like putting on a shirt, buttoning and zipping, or putting on shoes)

	ORIGINAL	NEW	BB2D5
(1) Need Help	206	137	
(2) Don't Need Help	944	752	
(3) Unable to do	16	11	
(8) Don't know	1	0	
(9) Refused	0	1	
(.) Missing	0	1	

e. Eating (like holding a fork, cutting food, or drinking from a glass)

	ORIGINAL	NEW	BB2E5
(1) Need Help	96	55	
(2) Don't Need Help	1059	837	
(3) Unable to do	10	8	
(8) Don't know	2	0	
(9) Refused	0	1	
(.) Missing	0	1	

f. Getting from a bed to a chair

	ORIGINAL	NEW	BB2F5
(1) Need Help	267	244	
(2) Don't Need Help	872	644	
(3) Unable to do	28	13	
(9) Refused	0	1	

g. Using the toilet

	ORIGINAL	NEW	BB2G5
(1) Need Help	188	118	
(2) Don't Need Help	957	771	
(3) Unable to do	20	12	
(8) DK	1	0	
(9) Refused	0	1	
(.) Missing	1	0	

Created variable: sum of all 7 items

Recode 1, 3 to 1(help), 2 to 0(no help), 8 & 9 to missing and sum

TOTADL5

ORIGINAL:

(0-7) Range, Mean 1.4, Std. 2.30 1167 (738 no help needed)

NEW:

(0-7) Range, Mean 1.26, Std. 2.13 901 (569 no help needed)

Created variable: Reporting one or more or none

	ORIGINAL	NEW	ANYADL5
(0) No help needed/able to do	738	569	
(1) Help with 1 or more	429	332	
(.) Missing	0	1	

Section CC. STRESSORS/LIFE EVENTS

CC1.P As I read the list, stop me whenever I mention something that happened to you in the last year, that is since (DATE ONE YEAR AGO). During the past year:

h. Did you have to assume responsibility for taking regular care of someone else

	ORIGINAL	NEW	CC51H
(1) Yes	57	40	
(2) No	1110	859	
(8) Don't Know	0	1	
(9) Refused	0	1	
(.) Missing	0	1	

I. Was your spouse placed in a nursing home or rest home?

	ORIGINAL	NEW	CC51L
(1) Yes	12	10	
(2) No	1132	866	
(8) Don't Know	4	2	
(9) Refused/NA-never married	1	0	

CC3. Please think about your life as a whole. How satisfied are you with it?

	ORIGINAL	NEW	CC53
(1) Completely satisfied	390	323	
(2) Very satisfied	473	378	
(3) Somewhat satisfied	179	130	
(4) Not at all satisfied	10	17	
(8) Don't know	33	18	
(9) Refused	2	2	

Section EE. RELIGION AND SOCIAL INVOLVEMENT

EE2.P About how often do you go to mass or services?

	ORIGINAL	NEW	EE52
(1) Never or almost never	268	223	
(2) Several times a year	203	141	
(3) Once or twice a month	190	155	
(4) Almost every week	389	278	
(5) More than once a week	106	101	
(8) Don't know	5	2	
(9) Refused	1	1	

Section HH. PERFORMANCE ORIENTED MOBILITY ASSESSMENT (POMA) (excludes TRUE proxies (n=118) and 26 asst proxies Possible n=1923)

STANDS - Side-By-Side Stand (Eyes Open)

IF RESPONDENT IS UNABLE TO STAND UNASSISTED, SKIP TO REPEATED CHAIR STANDS.

HH1.P-R I would like you to try to stand with your feet together, side-by-side, for about ten seconds.

Number of seconds held:

ORIGINAL: N=762 (.7-10.0) Range, Mean 9.94, Std. 0.64
NEW: N=572 (.5-10.0) Range, Mean 9.97, Std. 0.43

HH51

	ORIGINAL	NEW	NOHH51
(5) Tried but unable	10	9	
(6) Not attempted, interviewer felt unsafe	14	16	
(7) Not attempted, respondent felt unsafe	5	8	
(9) Refused	9	9	
(.) Missing/NA- stand completed	1129	860	

(IF UNABLE TO HOLD PREVIOUS STAND FOR 10 SECONDS OR IF INTERVIEWER OR RESPONDENT THOUGHT ACTIVITY WAS UNSAFE, SKIP TO REPEATED CHAIR STANDS)

Semi-Tandem Stand (Eyes Open)

HH2.P-R Now I would like you to try to stand with the side of the heel of one foot touching the big toe of the other foot for about ten seconds. You may use either foot, whichever is more comfortable for you.

Number of seconds held:

ORIGINAL: N=694 (.6-10.0) Range, Mean 9.32, Std. 1.88
NEW: N=533 (1.1-10.0) Range, Mean 9.49, Std. 1.75

HH52

	ORIGINAL	NEW	NOHH52
(5) Tried but unable	26	12	
(6) Not attempted, interviewer felt unsafe	19	13	
(7) Not attempted, respondent felt unsafe	13	7	
(9) Refused	2	2	
(.) Missing proxies/na	1107	868	

Tandem Stands (Eyes Open)

HH3.P-R Now I would like you to try to stand with the heel of one foot in front of and touching the toes of the other foot for about ten seconds.

Number of seconds held:

HH53

ORIGINAL: N=544 (0-10) Range, Mean 8.23, Std. 2.89

NEW: N=419 (0-10) Range, Mean 8.44, Std. 2.79

	ORIGINAL	NEW	NOHH53
(5) Tried but unable	36	41	
(6) Not attempted, interviewer felt unsafe	14	14	
(7) Not attempted, respondent felt unsafe	4	11	
(9) Refused	1	0	
(.) Missing proxies/na	1112	836	

REPEATED CHAIR STANDS

HH5a.P-R Now I want to ask you to try to stand and sit in a chair five times. Do you think it would be safe for you to try to stand up from a chair without using your arms five times quickly?

	ORIGINAL	NEW	HH5a5
(1) Yes	620	448	<i>skip to HH5d5</i>
(2) No	140	125	<i>ask HH5b5</i>
(8) Don't know	19	20	<i>skip to HH5d5</i>
(9) Refused	17	19	<i>skip to HH10a5</i>
(.) Missing/na	371	290	<i>skip to HH10a5</i>

HH5b.P-R Why do you think it would be unsafe? (RECORD VERBATIM) Subject could answer more than one reason. (Subject can check multiple reasons.). Checked=1, unchecked=0

	ORIGINAL	NEW	
Can't stand on own	21	15	UNSFSTN5
Back problem	25	39	UNSFBA5
Leg problems	37	39	UNSFLEG5
Knee problems	51	46	UNSFKNE5
Dizzy spells	22	16	UNSFDIR5
Fear	11	8	UNSF5
Arthritis	33	23	UNSFART5
Don't know	2	2	UNSF5
Refused	4	5	UNSFREF5
Unsafe other reasons	14	14	UNSFOTH5
Unsafe – hip problems	3	1	UNSFHIP5

HH5d.P-R. Keep your arms folded across your chest. Please stand up straight as quickly as you can five times without stopping in between. Asked of those who said yes (n=620, 448 or don't know (n=19, 20) to hh5a5.

	ORIGINAL	NEW	HH5D5
(1) Yes	613	446	<i>Skip to HH5f</i>
(2) No	23	19	
(9) Refused	1	0	
(.) Missing-didn't answer	2	3	
(.) Missing/na	528	434	<i>Skip to HH10a5</i>

IASK H5C IF REPEATED CHAIR STANDS NOT COMPLETED n's of 23 & 19

	ORIGINAL	NEW	HH5C5
HH5c.P-R Reason not completed?			
(1) Tried but unable	18	12	
(2) Not attempted, safety reasons	2	5	
(4) Not attempted, no suitable chair	3	0	
(.) Missing	0	2	

HH5f.P-R Time to complete chair stands? (NEAREST 10 th OF SECOND)			HH5F5
ORIGINAL: N=617	(.8-36.0) Range, Mean 14.47, Std. 5.28		
NEW: N=446	(4.0-47.9) Range, Mean 14.38, Std. 5.27		

HH5g.P-R Chair height (inches from floor to lowest point of chair)			HH5G5
ORIGINAL: N=617 (1 missing)	(12.00-29) Range, Mean 17.27, Std. 1.32		
NEW: N=446	(12.75-24.25) Range, Mean 17.37, Std. 1.40		

GAIT ASSESSMENT - Walking

IF RESPONDENT IS UNABLE TO WALK, EVEN WITH AN AID SUCH AS A CANE, WALKER, OR LEANING ON A WHEELCHAIR, SKIP TO Q.HH7a - GRIP STRENGTH

HH10.P-R Now we are going to observe how you normally walk. If you use a cane or other walking aid and would feel more comfortable with it, then you may use it. (Excludes proxies & exclusions) 11 people who did not answer initial questions (HH10a-d) attempted walk.

	ORIGINAL	NEW	HH10A5
a. Completed:			
(1) Yes	818	606	
(2) No	75	74	
(9) Refused	39	54	
(.) Missing /na	235	168	

IF YES, CONTINUE, OTHERWISE SKIP TO HH10D - REASON WALK NOT COMPLETED

b. Seconds to complete?			
	ORIGINAL	NEW	HH10B5
ORIGINAL: N=818	(.5-46.3) Range, Mean 6.70, Std. 3.77		
NEW: N=606	(.6-40.0) Range, Mean 7.62, Std. 3.37		

c. Number of steps?			
	ORIGINAL	NEW	HH10C5
ORIGINAL: N=818	(3.0-6.20) Range, Mean 6.17, Std. 3.57		
NEW: N=604	(3.0-80.0) Range, Mean 7.07, Std. 3.71		

IF WALK COMPLETED, SKIP TO HH10E - AIDS FOR WALK, OTHERWISE CONTINUE

c. Reason walk not completed? (of 75 no and 39 ref)

	ORIGINAL	NEW	HH10D5
(1) Tried but unable	7	8	
(2) Not attempted, interviewer felt unsafe	39	27	
(3) Not attempted, respondent felt unsafe	39	41	
(4) NA	6	12	
(9) Refused	31	44	
(.) Missing /na	1045	770	

d. Aids for first walk?

	ORIGINAL	NEW	HH10E5
(1) No aid	728	536	
(2) Wheelchair	1	1	
(3) Walker	37	17	
(4) Quad cane	19	9	
(5) Other cane	27	22	
(6) Other walking aid	3	8	
(.) Missing/na	352	309	

HH12a.P-R Any difficulty finding 12-foot space for walking?

	ORIGINAL	NEW	HH12A5
(1) Yes	32	31	
(2) No	783	562	
(.) Missing	352	309	

HH12b.P-R Type of walking surface?

	ORIGINAL	NEW	HH12b5
(1) Uncarpeted	579	427	
(2) Low carpet	232	171	
(3) Other	3	3	
(.) Missing	353	301	

GRIP STRENGTH

HH7a.P-R In the first exercise, I am going to use this instrument called a Dynamometer to test the strength in the hand you feel is strongest. However, if you have had any surgery on your arm or hand in the last three months, you should not do this exercise. Have you had any recent arm or hand surgery?

	ORIGINAL	NEW	HH7A5
(1) Yes	16	11	
(2) No	1034	812	
(8) Don't know	1	3	
(9) Refused	17	20	
(.) Missing (true proxies)	99	56	

HH7b.P-R I'd like you to place the arm that you think is stronger on the table with your palm facing up. Grab the handles using an underhand grip. I will ask you to do this two times. If you feel any pain or discomfort, tell me and we will stop (SCORE AS "UNABLE/DISCONTINUED"). (of 1551)

Trial 1			HH7B51
ORIGINAL:	N=993	(.4-49.5.0) Range, Mean 19.51, Std. 7.89	
NEW:	N=770	(0-50.0) Range, Mean 19.93, Std. 8.24	

Trial 2			HH7B52
ORIGINAL:	N=988	(.4-50.0) Range, Mean 19.97, Std. 8.0	
NEW:	N=766	(0-50.0) Range, Mean 20.44, Std. 8.36	

HH7c.P-R Hand tested?

	ORIGINAL	NEW	HH7c5
(1) Right	889	681	
(2) Left	105	83	
(3) NA (discontinued)	32	32	

INTERVIEWER: RECORD GRIP SCALE FROM THE HANDLE

	ORIGINAL	NEW	GRIPSCL5
(1) For smaller hand (scale size 5)	359	239	
(2) For midsized hand (scale size 6)	620	506	
(3) For larger hand (scale size 7)	14	18	
(.) Missing, because discontinued	33	33	

Created Variables from the Performance Oriented Mobility Assessment (POMA)

NOTE: If a subject was UNABLE to do the POMAs, we gave them a code of 0 if it was due to bedridden, can't stand even with support, blind, can't understand what to do, needs support to stand (only eligible to do walk and hand grip), or if they were dizzy. This included proxies due to the above reasons. Therefore, the number in this section is higher than the previous section with the individual items.

Categorized Stands (Side-by-side, Semi, and Tandem) combined

	ORIGINAL	NEW	BAL5
(0) Unable to do	463	340	
(1) Side-by-side	111	56	
(2) Semi-tandem	90	93	
(3) Tandem	140	88	
(4) Full Tandem	309	274	
(.) Missing	54	51	

	ORIGINAL	NEW	DOBAL5
Dichotomized Score for Stands			
(0) Unable to do	463	340	
(1) Completed	650	511	
(.) Missing	54	51	

	ORIGINAL	NEW	SIT5
Categorized Chair Stands			
(0) Unable to do	342	282	
(1) Poor	184	125	
(2) Moderate	136	106	
(3) Good	140	112	
(4) Best	290	143	
(.) Missing	75	134	

	ORIGINAL	NEW	DOSIT5
Dichotomized Score for Chair Stands			
(0) Unable to do	342	282	
(1) Completed	750	486	
(.) Missing	75	134	

	ORIGINAL	NEW	WALK5
Categorized Walking at normal pace time			
(0) Unable to do	293	221	
(1) Poor	143	83	
(2) Moderate	258	170	
(3) Good	295	224	
(4) Best	119	128	
(.) Missing	59	76	

LONGITUDINAL STUDY OF MEXICAN AMERICAN ELDELY-WAVE 5 2004-2005

	ORIGINAL	NEW	DOWALK5
Dichotomized Score for Walking at normal pace			
(0) Unable to do	293	221	
(1) Completed	815	605	
(.) Missing	59	76	

	ORIGINAL	NEW	TOTPOMA5
Total Summary Score			
ORIGINAL: N=1133 (0-12) Range, Mean 5.3, Std. 3.89			
NEW: N=865 (0-12) Range, Mean 5.2, Std. 3.97			

	ORIGINAL	NEW	POMACAT5
Categorized Summary Score			
(0) Unable to do	259	210	
(1) 1-4	184	179	
(2) 5-8	382	243	
(3) 9-12	298	233	
(.) Missing	34	37	

Citations:

Guralnik, Jack M.; Ferrucci, Luigi; Simonsick, Eleanor M.; Salive, Marcel E. and Wallace, Robert B. "Lower-Extremity Function in Persons over the Age of 70 Years as a Predictor of Subsequent Disability". The New England Journal of Medicine 332(9), pp 556-561. 1995

Following is an alternate computation for physical performance. The total POMA score is based on having at least 2 of the 3 (sit,walk,bal). The third item was imputed from the mean of the other 2.

	ORIGINAL	NEW	BAL5IMP
Categorized Stands (Side-by-side, Semi, Tandem) combined			
(0) Unable to do	352	285	
(1) Side-by-side	154	84	
(2) Semi-tandem	167	124	
(3) Tandem	141	90	
(4) Full Tandem	309	274	
(.) Missing	44	45	

	ORIGINAL	NEW	DOBAL5I
Dichotomized Score for Stands			
(0) Unable to do	352	285	
(1) Completed	771	572	
(.) Missing	44	45	

	ORIGINAL	NEW	SIT5IMP
Categorized Chair Stands			
(0) Unable to do	341	282	
(1) Poor	195	141	
(2) Moderate	144	127	
(3) Good	146	137	
(4) Best	291	152	
(.) Missing	50	63	

LONGITUDINAL STUDY OF MEXICAN AMERICAN ELDELY-WAVE 5 2004-2005

	ORIGINAL	NEW	DOSIT5I
Dichotomized Score for Chair Stands			
(0) Unable to do	341	282	
(1) Completed	776	557	
(.) Missing	50	63	

	ORIGINAL	NEW	WALK5IMP
Categorized Walking at normal pace time			
(0) Unable to do	278	211	
(1) Poor	143	91	
(2) Moderate	274	178	
(3) Good	304	232	
(4) Best	120	133	
(.) Missing	48	57	

	ORIGINAL	NEW	DOWALK5I
Dichotomized Score for Walking at normal pace			
(0) Unable to do	278	211	
(1) Completed	841	634	
(.) Missing	48	57	

Total Summary Score			
	ORIGINAL	NEW	TOTPOM5I
ORIGINAL:	N=1113	(0-12) Range, Mean 5.5, Std. 4.1	
NEW:	N=838	(0-12) Range, Mean 5.4, Std. 4.3	

	ORIGINAL	NEW	POMCAT5I
Categorized Summary Score			
(0) Unable to do	351	284	
(1) 1-4	39	39	
(2) 5-8	397	245	
(3) 9-12	326	270	
(.) Missing	54	64	

Section II. HEIGHT & WEIGHT:

II1a.P-R Now let's measure your height **II1A5**

ORIGINAL: N=936 (48-77") Range, Mean 62.0, Std. 4.0
NEW: N=723 (48-75") Range, Mean 62.94, Std. 3.8

II1b.P-R Now let's get your weight. Weight (to nearest pound) **II1B5**

ORIGINAL: N=949 (71-259 lbs) Range, Mean 150.88, Std. 29.72
NEW: N=749 (70-275 lbs) Range, Mean 152.97, Std. 30.28

II1c.INTERVIEWER: TYPE OF SURFACE.

	ORIGINAL	NEW	II1c5
(1) Uncarpeted	697	550	
(2) Low carpet	196	151	
(3) Other (SPECIFY):	37	65	
(4) Proxy supplied hgt/wgt	48	15	

LONGITUDINAL STUDY OF MEXICAN AMERICAN ELDELY-WAVE 5 2004-2005

Created variable Body Mass Index (weight kg/height-time³ cm²)/100

BMI5

ORIGINAL: N=926 (14.4-53.4) Range, Mean 27.60, Std. 5.0

NEW: N=717 (15.8-47.7) Range, Mean 27.31, Std. 4.84

KK. HEALTH CARE SERVICE UTILIZATION

KK2.P Not including any overnight stays in a nursing home or hospital, how many times in the past 12 months, that is since (DATE ONE YEAR AGO) have you visited with a medical doctor? (INTERVIEWER: INCLUDE VISITS WITH A PHYSICIAN'S ASSISTANT OR NURSE PRACTITIONER AT AN HMO OR CLINIC).

KK52

ORIGINAL: N=1129 (0-72) Range, Mean 6.89, Std. 7.4

NEW: N=881 (0-156) Range, Mean 7.37, Std. 10.1

	ORIGINAL	NEW	NOKK52
(8) Don't know	0	0	
(9) Refused	38	21	

Created Variable at least 1 visit=1

	ORIGINAL	NEW	VISITMD5
(1) Yes	1003	816	
(0) No	126	65	
(.) Missing	38	21	

BASE: ALL RESPONDENTS

CC1a.P Since (DATE ONE YEAR AGO) did you experience an illness or injury (get sick or get hurt) that required staying overnight or longer in a hospital (not a nursing home)?

	ORIGINAL	NEW	CC51A
(1) Yes	293	243	
(2) No	854	650	
(8) Don't know	6	0	
(9) Refused	3	0	
(.) Missing	11	9	

ASK EVERYONE **NURSING HOME**

KK6.P Have you/has respondent (name) _____ ever been in a nursing home or rest home or an assisted living facility in which you/s/he received some help with daily activities like preparing meals, bathing or getting dressed, or going to the bathroom?

	ORIGINAL	NEW	KK56
(1) Yes	85	39	<i>Ask KK57a</i>
(2) No	1080	862	
(9) Refused	1	1	<i>SKIP to Q.LL53</i>
(.) Missing	1	0	

KK7.P First Episode:

KK7a.P When did you/he/she enter the facility?

KK57a

ORIGINAL: n=78 range is from 1988 to 2005, missing = 7

NEW: n=39 range is from 1969 to 2005, missing = 0

KK7b.P How old were you/was he/she when you/he/she entered the facility?

ORIGINAL: N=77 (65-99) Range, Mean 82.53, Std. 6.54, missing=8

KK57B

NEW: N=39 (40-102) Range, Mean 79.26, Std. 10.59

KK7c.P What type of facility was this?

	ORIGINAL	NEW
(1) Nursing Home	63	24
(2) Assisted Living Facility	12	7
(3) Other Similar Facility	4	2
(4) Rehab Facility	5	5
(8) Don't know	1	1

KK57c

KK7d.P How long were you/was he/she in this facility?

#days

KK57DD

ORIGINAL: N=25 (2-30) Range, Mean 12.04, Std.7.65

NEW: N=24 (0-45) Range, Mean 14.38, Std. 10.77

#years

KK57DY

ORIGINAL: N=35 (0-8) Range, Mean 2.57, Std.2.10

NEW: N=3 (0-3) Range, Mean 1.33, Std. 1.52

#months

KK57DM

ORIGINAL: N=29 (0-20) Range, Mean 5.24, Std.5.19

NEW: N=14 (1-13) Range, Mean 3.64, Std. 3.12

Don't know/refused to answer days, years and months

	ORIGINAL	NEW
(8) Don't know	10	0

NOKK57d

KK7e.P How did you/he/she pay for the care?

	ORIGINAL	NEW
(1) Medicaid only	48	24
(2) Out of pocket	8	2
(3) Other (not specified)	5	5
(4) Medicare only	6	8
(5) Medicare & Medicaid	3	0
(6) Private & Medicaid	3	0
(7) Private & Medicare	1	0
(8) Don't know	8	0
(9) Refused	3	0

KK57e

KK8f.P Were you/was he/she ever in such a facility again?

	ORIGINAL	NEW	KK58
(1) Yes	15	10	<i>Ask KK58a</i>
(2) No	59	29	<i>SKIP to Q.LL53</i>
(.) Missing	11	0	

KK8.P Second Episode:

KK8a.P When did you/he/she enter the facility? **KK58A**

ORIGINAL: n=11 range is from 1996 to 2004, missing = 4

NEW: n=10 range is from 1975 to 2005, missing = 0

KK8b.P How old were you/was he/she when you/he/she entered the facility?

ORIGINAL: N=11 (74-91) Range, Mean 83.64, Std. 5.12, missing=4 **KK58B**

NEW: N=10 (45-95) Range, Mean 77.1, Std. 13.06

KK8c.P What type of facility was this?

	ORIGINAL	NEW	KK58c
(1) Nursing Home	8	5	
(2) Assisted Living Facility	3	3	
(3) Other Similar Facility	1	2	
(8) Don't know	1	0	
(.) Missing	2	0	

KK8d.P How long were you/was he/she in this facility?

#days

ORIGINAL: N=3 (3-21) Range, Mean 15.0, Std.10.39

NEW: N=8 (3-30) Range, Mean 14.25, Std. 9.64

KK58DD

#years

ORIGINAL: N=4 (1-2) Range, Mean 1.75, Std..5

NEW: N=0

KK58DY

#months

ORIGINAL: N=4 (2-3) Range, Mean 2.25, Std. 0.5

NEW: N=2 (6-6) Range, Mean 6.0, Std. 0

KK58DM

Don't know/refused to answer days, years and months

	ORIGINAL	NEW	NOKK58d
(8) Don't know	4	0	

KK8e.P How did you/he/she pay for the care?

	ORIGINAL	NEW	KK58e
(1) Medicaid only	8	4	
(2) Out of pocket	0	2	
(3) Other (not specified)	1	4	
(7) Private & Medicare	2	0	
(8) Don't know	2	0	
(.) Missing	2	0	

KK8f.P Were you/ was he/she ever in such a facility again?

	ORIGINAL	NEW		KK59
(1) Yes	1	2	<i>Ask KK59a</i>	
(2) No	10	7	<i>SKIP to Q.LL53</i>	
(.) Missing	4	1		

KK9.P Third Episode:

KK9a.P When did you/he/she enter the facility? **KK59A**

ORIGINAL: n=1 year is 2003
NEW: n=2 years are 1980 and 2003

KK9b.P How old were you/ was he/she when you/he/she entered the facility?

ORIGINAL: N=1 (age=75) **KK59B**
NEW: N=2 (age 50-74) Range, Mean 62, Std. 16.97

KK9c.P What type of facility was this?

	ORIGINAL	NEW	kk59c
(1) Nursing Home	0	1	
(2) Assisted Living Facility	0	0	
(3) Other Similar Facility	1	0	
(4) Rehab	0	1	

KK9d.P How long were you/ was he/she in this facility?
 #days

ORIGINAL: N=1 (21 days) **KK59DD**
NEW: N=2 (3-14) Range, Mean 8.50, Std. 7.78

#years **KK59DY**
ORIGINAL: N=0
NEW: N=0

#months **KK59DM**
ORIGINAL: N=0
NEW: N=0

Don't know/refused to answer days, years, and months

	ORIGINAL	NEW	NOKK59d
(8) Don't know	0	0	

KK9e.P How did you/he/she pay for the care?

	ORIGINAL	NEW	KK59e
(1) Medicaid only	0	1	
(3) Other (not specified)	0	1	
(.) Missing	1	0	

BASE: THIRD NURSING HOME STAY

KK9f.P Were you/ was he/she ever in such a facility again?

	ORIGINAL	NEW	KK510
(1) Yes	0	1	
(2) No	1	1	

LL3.P About how much is your yearly household income for the past year (2005)?

	ORIGINAL	NEW	LL53
(1) \$0-\$4,999	41	26	
(2) \$5,000-\$9,999	454	324	
(3) \$10,000-\$14,999	261	212	
(4) \$15,000-\$19,999	149	88	
(5) \$20,000-\$29,999	66	72	
(6) \$30,000-\$39,999	32	26	
(7) \$40,000-\$49,999	8	12	
(8) \$50,000 & Over	7	9	
(.) Missing/Refused	149	133	

LL5a. How much difficulty do you have in meeting monthly payments on your bills? (READ LIST)

	ORIGINAL	NEW	LL55A
(1) A great deal	258	177	
(2) Some	385	316	
(3) A little	251	189	
(4) None	188	177	
(8) Don't know	17	12	
(9) Refused	6	7	
(.) Missing	62	24	

LL5b. At the end of the month, do you usually end up with some money left over, just enough to make ends meet, or not enough money to make ends meet?

	ORIGINAL	NEW	LL55B
(1) Some money left over	265	183	
(2) Just enough to make ends meet	579	464	
(3) Not enough money to make ends meet	231	198	
(8) Don't know	23	20	
(9) Refused	7	11	
(.) Missing	62	26	

Section MM. MEDICARE

MM9.P

a. Are you covered by Medicare?

	ORIGINAL	NEW	MM59A
(1) Yes	1076	794	
(2) No	56	37	
(8) Don't know	12	7	
(9) Refused	7	7	
(.) Missing	16	57	

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IF YES, CONTINUE, ASK

a1.	Part A only	ORIGINAL	NEW	MM59A1
	(1) Yes	59	36	
	(2) No	931	681	
	(8) Don't know	85	73	
	(9) Refused	7	7	
	(.) Missing	85	105	
a2.	Part B only	ORIGINAL	NEW	MM59A2
	(1) Yes	41	28	
	(2) No	951	689	
	(8) Don't know	83	73	
	(9) Refused	7	7	
	(.) Missing	85	105	
a3.	Both Part A & B	ORIGINAL	NEW	MM59A3
	(1) Yes	864	621	
	(2) No	128	97	
	(8) Don't know	84	73	
	(9) Refused	7	7	
	(.) Missing	84	104	
b.	Are you covered by Medicaid?	ORIGINAL	NEW	MM59B
	(1) Yes	589	397	
	(2) No	555	488	
	(8) Don't know	19	17	
	(9) Refused	4	0	
c.	Are you covered by Private Insurance?	ORIGINAL	NEW	MM59C
	(1) Yes	153	151	
	(2) No	996	732	
	(8) Don't know	14	19	
	(9) Refused	4	0	
d.	Are you covered by an HMO?	ORIGINAL	NEW	MM59D
	(1) Yes	105	98	
	(2) No	1040	780	
	(8) Don't know	18	24	
	(9) Refused	4	0	
e.	Are you covered by Other Insurance?	ORIGINAL	NEW	MM59E
	(1) Yes	71	74	
	(2) No	1079	810	
	(8) Don't know	15	18	
	(9) Refused	2	0	

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Some other insurance listed:

f. Covered by Other Insurance - VA?

	ORIGINAL	NEW	
(1) Yes	18	9	MM59F

g. Covered by Other Insurance – Secure Horizons?

	ORIGINAL	NEW	
(1) Yes	13	8	MM59G

f. Covered by Other Insurance - Humana?

	ORIGINAL	NEW	
(1) Yes	4	2	MM59H

Created variables which combine some of the above. We noted that people often said yes to Part A only or Part B only, when they meant both. These variables are more useful.

Covered by Medicare Only.

	ORIGINAL	NEW	
(1) Yes	304	249	MEDICARE5

Covered by Medicaid Only.

	ORIGINAL	NEW	
(1) Yes	28	20	MEDICAID5

Covered by Medicaid & Medicare (Dual Eligible).

	ORIGINAL	NEW	
(1) Yes	558	368	CARECAID5

Covered by Private Only.

	ORIGINAL	NEW	
(1) Yes	135	123	PRIVATE5

Covered by VA Only.

	ORIGINAL	NEW	
(1) Yes	1	2	VA5

Covered by HMO-PPO Only.

	ORIGINAL	NEW	
(1) Yes	107	88	HMO_PPO5

UNINSURED.

	ORIGINAL	NEW	
(1) Yes	34	52	NOINS5

Type of Insurance

	ORIGINAL	NEW	
(0) Uninsured	34	52	
(1) Any Private	546	460	
(2) Medicaid	28	20	
(3) Medicare & Medicaid	558	368	
(4) VA	1	2	
			TYPEINS5

*Any private includes Private, Medicare Only, and HMO_PPO

BASE: DIABETIC

If "Yes" to "ever told they had diabetes" – agreed to complete HbA1c finger prick test:

	ORIGINAL	NEW	DOHBA1C5
(1) Yes	228 ^{*(+1)}	186 ^{*(+2)}	
(2) No	134	128	
(8) Don't know	2	1	
(9) Refused	0	1	
*Non diabetics completing test (spouses of a diabetic respondent)			

Actually completed finger prick test and sent it in to the lab:

	ORIGINAL (of 229)	NEW (of 188)	COMPLETEDA1c
(1) Yes	148	105	

HbA1c values

HbA1c

ORIGINAL: N=125 (5.1-13.76) Range, Mean 7.89, Std. 1.68

NEW: N= 87 (5.3-16.10) Range, Mean 7.84, Std. 1.76

Cut points for values:

Excellent control	$\leq 7\%$	Target range
Good control	>7 and $\leq 8\%$	Monitor
Unsatisfactory control	>8 and $\leq 10\%$	Action Suggested
Poor control	$>10\%$	Action Strongly URGED

There were 23 original and 18 new subjects who had a value of 0.

A value of 0 should be thrown out, exclude from means. The subject completed the test but generally did not supply sufficient blood or the sample arrived in the lab too late to be analyzed.

Section OO. INTERVIEWER OBSERVATIONS/COMMENTS

OO12. Type of housing:

	ORIGINAL	NEW	OO512
(1) Single	975	687	
(2) Multi-family house	20	20	
(3) Apartment	111	159	
(4) Assisted Living	24	21	
(5) Congregate housing	3	0	
(6) Group quarters	2	0	
(7) Other-Mobile home park	14	9	
(8) Other- Duplex	6	4	
(9) Other not specified	9	1	
(.) Missing	3	1	

OO1. Final status of respondent interview?

	ORIGINAL	NEW	OO51
(1) Complete	1167	901	
(2) Incomplete, interviewer broke off	0	0	
(3) Incomplete, respondent broke off	0	0	
(4) Incomplete, other	0	1	

OO2. Was someone else present during the interview?

	ORIGINAL	NEW	OO52
(1) Yes	574	494	
(2) No	498	358	
(6) Not applicable	93	49	
(8) Don't know	2	0	

OO3. During the interview, was the respondent bizarre or inappropriate in thought or in action?

	ORIGINAL	NEW	OO53
(1) Yes	50	35	
(2) No	1021	810	
(6) Not applicable	95	54	
(8) Don't know	0	2	
(9) Refused	1	0	

OO4. Was the respondent literate, i.e., able to read cards? (IF RESPONDENT IS BLIND, BUT CAN READ BRAILLE OR COULD READ BEFORE BECOMING BLIND, RECORD AS LITERATE.)

	ORIGINAL	NEW	OO54
(1) Yes	804	618	
(2) No	237	215	
(6) Not applicable	126	69	

OO5. Did the respondent have difficulty hearing, or was he/she deaf?

	ORIGINAL	NEW	OO55
(1) Some difficulty	259	223	
(2) Deaf	17	20	
(3) No Difficulty	795	605	
(6) Not applicable	96	52	

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007. Were all the physical measures, including blood pressure and the MMSE attempted?

	ORIGINAL	NEW	0057
(1) Yes, All complete	545	392	
(2) Yes, Attempted but not all completed	349	282 <i>ask oo8</i>	
(3) No, Not attempted	177	170 <i>ask oo8</i>	
(6) Not applicable	96	58	

008. Why were some or all of the physical measures not attempted? (n=349+177, 282+170)
(Coded 1 if checked off)

a. Respondent is bedridden

	ORIGINAL	NEW	0058A
(1) Yes	15	5	
(2) No	376	389	

b. Respondent cannot stand even with support

	ORIGINAL	NEW	0058B
(1) Yes	18	3	
(2) No	373	391	

c. Respondent needs support when standing (walker, crutch)

	ORIGINAL	NEW	0058C
(1) Yes	116	150	
(2) No	275	244	

d. Respondent cannot understand what to do, even when demonstrated

	ORIGINAL	NEW	0058D
(1) Yes	41	30	
(2) No	350	364	

e. Respondent is completely blind

	ORIGINAL	NEW	0058E
(1) Yes	17	7	
(2) No	374	387	

f. Respondent was dizzy

	ORIGINAL	NEW	0058F
(1) Yes	8	4	
(2) No	383	390	

i. Respondent has arthritis

	ORIGINAL	NEW	0058I
(1) Yes	80	66	
(2) No	311	328	

j. Respondent has knee problems/weak knees

	ORIGINAL	NEW	0058J
(1) Yes	91	88	
(2) No	300	306	

l. Respondent has circulatory problems

	ORIGINAL	NEW	0058L
(1) Yes	3	2	

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(2) No	388	392	
s. Respondent was tired	ORIGINAL	NEW	OO58S
(1) Yes	30	28	
(2) No	361	366	
v. Respondent suffered recent heart attack or stroke	ORIGINAL	NEW	OO58V
(1) Yes	19	13	
(2) No	372	381	
dd. Respondent just refused	ORIGINAL	NEW	OO58DD
(1) Yes	25	25	
(2) No	366	369	
g. Other (not specified)	ORIGINAL	NEW	OO58G
(1) Yes	121	155	
(2) No	270	239	
OO9a. Completed:	ORIGINAL	NEW	OO59A
(1) Respondent only	965	777	
(2) Proxy only P	75	43	
(3) Both (long proxy version) P-R	127	82	
OO9b. Completed:	ORIGINAL	NEW	OO59LANG
(1) English	203	205	
(2) Spanish	964	697	
REASON FOR PROXY:	Answers not mutually exclusive	(Coded 1 if checked off)	
	ORIGINAL	NEW	
(1) Subject physically ill; recovering from hospital	38	14	PRXRILL5
(2) Subject was deaf	22	11	PRXDEAF5
(3) Subject away indefinitely	15	4	PRXAWAY5
(4) Subject is mentally incapacitated	60	32	PRXMENT5
(5) Denied access to nursing home	10	2	PRXNONH5
(6) Other (SPECIFY):	43	49	PRXOTH5
(7) NEW: Subject was blind	4	1	PRXBLND5
OO9d. Is the Proxy a caregiver of the respondent?	ORIGINAL	NEW	OO9D5
	(of 202)	(of 125)	
(1) Yes	61	29	
(2) No	38	18	
(.) Missing	112	69	

Primary Sampling Unit

Please see Appendix on Sampling for further details.

PSUTRACT

WEIGHTS

Normalized weight adjusted to both samples combined

CW5RAKE

Normalized weight adjusted to original sample (n=1,167)

C1RAKE

Normalized weight adjusted to new sample (n=902)

C2RAKE

TRACT

Census tract number: FIPS state code, county code, census tract

tract

Description of New Sample (n=902)

We added a new sample of another 902 Mexican Americans aged 75 and over that has a slightly higher average level of education than the surviving cohort. Our findings thus far have been based on a poorly educated cohort (adjusted mean of 5.1 years of education) from heavily Mexican American areas. With a better-educated (see below) and financially better off new sample, we are better able to examine social class variation in our health outcomes of interest – mortality, physical function, emotional function, cognitive function and living arrangements/ institutionalization.

Sampling was conducted in a way similar to baseline, but instead of targeting Mexican American counties with 90% Mexican American populations, less Mexican American dense counties were targeted. The assumption here is that respondents with higher levels of education are perhaps more likely to have moved away and not be living in the more densely populated Mexican American areas. More respondents were screened in each PSU (total of 113 PSUs). The average number of households screened (approximately 250) in the lower density tracts was considerably higher than in the higher density tracts. After reaching a certain number of completes, people who had lower levels of education were screened out and the attempt was made to fill the overall quota for the PSU with people of higher educational status. However, during the sampling process, it became obvious that there were difficulties locating Mexican Americans in less densely Mexican American populated areas so the remaining interviews come from tracts which were more densely populated.

Adjusted (weighted) means for education and income (using SAS®) proc surveymeans with a domain analysis (new versus original):

Education

Original	n= 1154	Mean 5.49 (5.27, 5.72)
New	n= 722	Mean 7.08 (6.74, 7.42)

Income

Original	n= 1018	Mean 3.05 (3.06, 3.21)
New	n= 769	Mean 3.24 (3.12, 3.36)

Note: Category 3 for income ranges from \$10,000 to \$14,999 annually

Weights for Wave 5.

C1RAKE contains rake weights for survivors of the first cohort to wave 5.

I calculated it for informational purposes to compare it to the wave 1 weight variable, with which the correlation is 0.85.

C2RAKE contains rake weights for the new cohort

To calculate these weights I first calculated sampling weights as the inverse of the probability of selection. This was unequal despite the use of PPES sampling, because of the different number of completes in the different PSUs.

Differential completes were strongly correlated with tract percent Mexican (TpM), with relative ratio of completes to population in low deciles of TpM, and the highest ratio of completes to population in deciles 6 and 7 of TpM. What accounts for this pattern is that (in contrast to the practice at wave 1), we closed PSUs with very high TpM, while continuing to seek subjects in mid-density PSUs (deciles 3-6, then 3-7). Not surprisingly, we were most successful in recruiting subjects in deciles 6 and 7 through this effort—that is, the densest of the less dense. To account for these differences, I adjusted the weights to population totals from Census 2000 within collapsed deciles of TpM: deciles 1/3,4/5,6,7,8/10. I collapsed deciles to avoid extremely large weights for deciles with few subjects.

These weights were raked to estimate control totals from the Census 2000 PUMS which contained 13,759 cases of older Mexican Americans ages 75+ living in one of the 5 southwestern states. Raking variables were gender, age (75-79, 80-84,85+), state (CA,TX,Other), and the crosstabulation of nativity (U.S. vs. other) and schooling (<5,5 < 12, 12+ years). I cross-tabulated these two variables because of the strong relationship between these variables. I also used TpM in the collapsed deciles listed above as a raking variable.

I used Izrael's raking.SAS macro, documented in Izrael, David, Hoaglin, David C., and Battaglia, Michael P. (2000), "A SAS Macro for Balancing a Weighted Sample." *Proceedings of the Twenty-Fifth Annual SAS Users Group International Conference*, Paper 275, and Izrael, David, Hoaglin, David C and Battaglia, Michael P. (2004) To Rake or Not To Rake Is Not the Question Anymore with the Enhanced Raking Macro. *Proceedings of the Twenty-Ninth Annual SAS Users Group International Conference*, Paper 207. Raking converged after 6 iterations.

Weights were normalized to the new cohort sample size, 902.

- 1) Below is an OLS regression for the weights with respect to raking variables. As you can see, and not surprisingly, low density tracts are associated with large weights, while the 7th decile is associated with smaller weights, for the reason mentioned in 1c. (I collapsed all other deciles for the regression, as they were not significantly different from one another.) California and being a high school graduate are also associated with larger weights. Other relationships are small. The important adjustments are all exactly as expected in my opinion.

	fw_2c	Coef.	Std. Err.	t	Beta
Vs. others	TpM Decile 1	1.779	0.025	71.62	0.84
	TpM Decile 7	-0.271	0.020	-13.23	-0.15
Vs Ed 5 < 12					
	Ed < 5	0.097	0.020	4.94	0.07
	Ed 12+	0.396	0.025	15.85	0.20
	Ed unknown	0.116	0.022	5.18	0.07
Vs. Texas	California	0.405	0.017	23.36	0.29
	Other, not Texas	-0.072	0.025	-2.82	-0.03
	Female	0.079	0.016	5.04	0.06
	Age	-0.033	0.010	-3.39	-0.04
	US Born	-0.058	0.017	-3.38	-0.04

CW5RAKE Combined weights for both samples

For the combined weights, I used as input the final weight (fw) from public1 in the first sample for the first cohort and C2RAKE for the second cohort as input weights. I renormalized the wave1 weights for the wave5 survivors to the current cohort size. For TpM assignment for the wave 1 cases, I used the geocoded wave 5 residence tract. If this was not available, I substituted the TpM score from baseline to make the assignment. The combined sample was raked on the same variables as described above.

An analysis of the CW5RAKE yielded results similar to those reported in the regression table above. CW5RAKE was correlated 0.95 with each of the input weights. Correlation was near .8 to an alternative weight that was constructed with unweighted input.

Recommended short description of the weights for methods sections:

“Sampling weights for each wave were raked to population totals from Census 2000 5% public-use file and Census Summary files 1 and 4 using Izrael’s enhanced raking macro (Izrael, Hoaglin, Battaglia 2000, 2004). Raking variables were age, gender, state of residence, education by immigrant status, and percentage Mexican American in census tract of residence.” (References above)

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Progress Report

1. Overview of the Hispanic EPESE

The primary objectives of the Hispanic EPESE have been to examine the prevalence of key medical conditions and disabilities, examine their correlates, and examine predictors of mortality and changes in health indicators over time. Unlike the previous EPESE surveys, which were conducted in restricted geographic areas (East Boston, New Haven, the Piedmont region of North Carolina and rural Iowa), the Hispanic EPESE aimed at obtaining a representative sample of older Mexican Americans in the five southwestern states (Texas, New Mexico, Colorado, Arizona, and California where over 90% of older Mexican Americans live).

The baseline sample was drawn in the summer of 1993 and baseline interviews began in July 1993 and were completed by June 1994, by Harris Interactive, Inc. (formerly Louis Harris and Associates, Inc.). An area probability sample design was developed by listing counties in the Southwestern states by the number of Mexican Americans in descending order needed to cover 90 percent of all Mexican Americans. To these, counties not chosen through this method which were at least 30 percent Mexican American were added to ensure inclusion in the target population of small counties with a significant Mexican American population. Census tracts and enumeration districts in the above counties were subsequently listed by the number of older Mexican Americans. Three hundred census tracts were selected as primary sampling units (PSU's) and provided clusters for door to door screening. Systematic procedures were used to list households for screening. Interviews were conducted with all Mexican Americans aged 65 and over in each household (up to four eligible respondents). In-home interviews were conducted with 3,050 subjects of Mexican origin identified by U.S. Census procedures and the Hazuda algorithm for identifying Mexican Americans (Hazuda et al., 1986). The response rate was 83 percent, which was equal to or better than that of the other EPESE surveys. The complex sample design required adjustment for design effects. The subjects were interviewed and examined in their own homes by trained interviewers. Interviewers were trained by Harris Interactive, Inc. staff, medical personnel, and by Hispanic EPESE investigators and staff who provided training on blood pressure measurement, performance-based assessments of physical functioning, height and weight measures, waist and hip measures, vision assessment, medication use, and other measures. Of the 3,050 baseline interviews, 177 (5.8 percent) were obtained by proxy, which was similar to the experience of the other EPESE studies.

The original 3,050 subjects were followed-up approximately two years later. Interviews were conducted with 2,438 of the subjects (80 percent see Table 1). Of these, 143 were proxy interviews (4.7 percent of those re-contacted). There were 239 subjects who were determined to have been deceased by Time 2, representing 7.8 percent of the original subjects. 101 subjects refused to be reinterviewed (3.3 percent), five were too ill to be re-interviewed, and access was denied for two persons residing in nursing homes. 107 (3.5 percent) were determined to be alive but we were unable to contact them, five were known to have moved to Mexico, and we were unable to determine the status of 152 (5.0 percent) subjects.

At Time 3 (five-year follow-up) during 1998-9, 1980 subjects were reinterviewed, 184 of them by proxy. By this time the cumulative number of deceased subjects rose to 659, those lost to follow-up to 290 and those who refused to be interviewed to 121. At Time 4 conducted during 2000-1 (seven-year follow-up) 1685 subjects were reinterviewed, 138 of them by proxy. The cumulative number of deceased subjects rose to 920, those lost to follow-up rose to 318 and those who refused to be reinterviewed to 12%. Death of subjects was confirmed and updated by a National Death Index (NDI) search. Selected

characteristics of subjects at each contact are given in Table 1 (shown below and continued on the next page).

The Time 5 follow up was conducted during 2004 and 2005. Of the original 3,050 subjects originally interviewed at Time 1 (1993-1994), 1167 were reinterviewed. At this time we added another representative sample of Mexican Americans of the same age (now 75 and older) drawn using similar area probability sampling procedures to those used at baseline. This addition increased our total sample to 2069 subjects giving us more power for some analyses. In addition, adding the new sample in 2004-2005 enabled us to examine trends over time in the health of older Mexican Americans by comparing them to subjects aged 75 and over baseline in 1993-1994. Some interesting findings have emerged which are presented below. We followed up all subjects in 2007 (Wave 6) and we were able to re-interview 1,542 of them now aged 78 and over. Data processing for Wave 6 is now being finalized and will be ready for archival in late 2009 or early 2010.

The old and new cohorts interviewed in 2004-2005 may be analyzed separately but also jointly. To combine the two cohorts, we adopted a ranking approach to match population distributions from Census 2000 using Izrael's enhanced raking macro (Izrael, Hoaglin, Battaglia 2004). We chose raking variables to reflect substantively significant elements of the diversity of the older Mexican American population: age, gender, state of residence, years of schooling cross tabulated by immigrant status, and deciles of percentage Mexican American in census tract of residence. Census control totals were derived for the Mexican American population ages 75 years or older in the 5 states in the Hispanic EPESE study area using the 13,759 cases from the target population in the Census 2000 Public Use 5 Percent Microdata Sample. We used the sampling weights for the original baseline and new cohorts as inputs to the raking process.

Table 1 presents characteristics over time of the subjects. Note that the surviving and new cohorts at Time 5 are quite similar except that the new cohort is slightly better educated. Most hypotheses and analyses proposed are based on following up the combined sample of 2069 subjects aged 75 and over through the new waves of data collection we propose, even though we expect that analyses will also be conducted by incorporating earlier waves. Some analyses are restricted to the new data collection planned.

Table 1. Characteristics of the H-EPESE sample over 5 time periods.

Characteristic	Time 1: 1993-4	Time 2: 1995-6	Time 3: 1998-9	Time 4: 2000-1	Time 5: 2004-5	Time 5: 2004-5 (new cohort)
	(N=3,050)	(N=2,438)	(N=1,980)	(N=1,685)	(N=1,167)	(N=902)
Age (mean/std)	73.0	75.1	77.7	79.3	82.3	81.4
Education (mean/std)	4.9	4.8	4.8	4.9	4.9	5.0
Female	57.7%	58.4%	59.6%	61.5%	63.5%	58.9%
US Born	55.9%	55.3%	56.6%	57.7%	56.3%	55.5%
Interview in Spanish	77.8%	80.7%	70.7%	84.6%	82.6%	77.3%
Married	55.5%	53.1%	48.7%	45.5%	40.8%	44.7%

Annual Income <\$10,000	57.0%	56.2%	43.9%	--	42.4%	38.8%
Self Reported Health						
Excellent/Good	39.7%	40.4%	38.2%	30.7%	33.8%	33.3%
Insurance						
Uninsured	7.7%	5.9%	--	3.2%	.03%	.06%
Private plus Medicare	16.6%	21.2%	--	11.0%	11.7%	14.0%
Medicare only	40.7%	31.6%	--	28.9%	26.1%	27.6%
Medicare plus Medicaid*	35.1%	41.3%		56.5%	47.8%	40.8%
Body Mass Index (mean)	27.8	27.9	28.3	--	27.6	27.3
MMSE Score (mean)	24.7	23.9	20.0	21.4	20.2	19.5
CES-D Score (mean)	9.9	7.1	8.4	7.2	9.6	9.7
Any ADL Impairment	13.8%	15.7%	23.3%	25.2%	36.8%	36.8%
Any IADL Impairment	53.2%	51.8%	51.3%	51.4%	75.8%	72.6%
Health Conditions						
Heart Attack	(ever) 11.0%	(ever) 9.8%	(since T2) 7.0%	(since T3) 6.7%	(since T4) 6.4%	(ever) 11.3%
Stroke	(ever) 6.7%	(ever) 10.0%	(since T2) 6.4%	(since T3) 5.4%	(since T4) 8.0%	(ever) 8.9%
Cancer (ever)	5.6%	7.2%	6.9%	6.4%	6.8%	7.8%
Diabetes (ever)	27.8%	27.6%	27.7%	28.6%	31.6%	35.6%
Hip Fracture	(since 50) 3.5%	(since T1) 2.0%	(since T2) 2.9%	(since T3) 3.3%	(since T4) 3.9%	(ever) 6.0%
Other Fracture	(ever) 14.4%	(since T1) 4.6%	(since T2) 6.7%	(since T3) 5.3%	(since T4) 9.7%	(ever) 19.4%
Arthritis (ever)	39.9%	44.9%	49.5%	--	59.6%	58.6%
Pain or discomfort (in the past month)	30.3%	40.0%	46.1%	45.8%	51.3%	55.7%
Hypertension (self report & measured)	56.9%	57.1%	59.9%	56.7%	65.9%	67.4%
Physical Performance Measure (mean) (Gait, Standing balance, chair)	6.5	7.5	6.4	6.1	5.5	5.4

stands)						
Interview Status						
In Person Interview	89.6%	71.1%	61.0%	61.6%	45.7%	86.1%
Assisted Proxy	4.6%	4.2%	2.3%	3.1%	5.2%	8.5%
Proxy	5.8%	4.7%	6.5%	5.8%	4.4%	5.4%
Deceased**	-----	7.8%	14.9%	10.9%	22.3%	-----
Refused	-----	3.5%	4.3%	5.3%	6.9%	-----
Not interviewed	-----	8.7%	10.3%	13.3%	15.5%	-----

*Includes Medicaid only < 3% at all Times (1, 2, 4 & 5) **Cumulative deceased as of 12/31/06 n=1,411 (46.3%)

2. Summary of Findings

To date the Hispanic EPESE has produced over 170 publications. Increasingly many of these manuscripts are produced by people other than the investigative team who access our archived data. We are aware of numerous other publications being developed elsewhere, including several PhD dissertations. In the summary below, we provide an overview of selected recent findings in important areas. Publications cited in this section only are found on the Hispanic EPESE Publications list.

Medical Conditions, Physical Function and Frailty

Studies of physical function and disability have dominated the gerontological literature for several decades. Recent literature (e.g. Freedman, Martin, & Schoeni, 2002; Manton & Gu, 2001) is suggesting that disability rates measured by ADLs and similar measures appear to be declining in the general population. In our work, as in previous limited literature, it has been found that older Mexican Americans are more ADL disabled than older non-Hispanic Whites despite their relatively high life expectancy (Rudkin, Markides & Espino, 1997; Markides, Salinas, & Wong, in press, Tovar et al, 2007). It appears that the Mexican American population may be experiencing what the general population was experiencing during the 1970's and early 1980's (Freedman et al, 2002, Markides, 1993, Manton & Gu, 2001) when increases in life expectancy were accompanied by increases in disability. This trend appears to have been reversed in the general population. In a recent analysis (Markides, Sheffield, & Al Ghatri, in review) we were able to examine trends in ADL disability over an eleven year period. Table 2 shows data on persons aged 75 and over from our baseline sample and from the new cohort of Mexican Americans added in 2004-2005. Data on six ADL's are given by gender for each ADL and also for Any ADL (subjects reporting one or more ADL's).

Table2. Prevalence of self-reported limitations in Activities of Daily Living. Mexican American Men and Women aged 75 and older 1993-94 to 2004-05.

	Men		Women	
	1993-94	2004-05	1993-94	2004-05
Activities of Daily Living (ADL)				
Any ADL limitation	19.9	28.8†	26.6	42.3*
Getting from a bed to chair	12.5	23.2*	14.1	32.3*
Walking	14.4	18.3	15.5	29.3*
Dressing	13.7	10.24	15.7	20.8§
Toileting	9.9	9.4	13.3	17.9§
Bathing	15.0	13.8	21.7	28.0
Eating	7.3	5.1	7.1	8.3

-p value < 0.0001. † p value < 0.001. ‡ p value < 0.01. § p value < 0.05.

Table 2 shows an increase in Any ADL limitation from 19.9 percent to 28.8 percent among men and from 26.6 percent to 42.3 percent among women. Examination of specific ADL's suggests that among men the greatest increase was in transferring (getting from a bed to a chair) followed by walking. Increasing trends are not evident in other ADL's. Among women there are significant increases in transferring, walking, dressing, and toileting. In trying to understand these trends we were able to rule out any age differences since the two samples had identical age distributions. Table 3 compares the two cohorts on age, marital status, years of education and selected chronic conditions. As can be seen the latest cohort is somewhat better educated. Among chronic conditions there is a slight increase in the prevalence of hypertension (self-reported and measured) in both men and women. At the same time, the prevalence of self-reported diabetes increased from 21.5 percent to 32.7 percent among men and from 21.5 percent to 38.2 percent among women. Although some of this increase may be due to better diagnosis of the disease, it appears that older Mexican Americans are living longer with diabetes. We might add that the survivors from the original cohort who were 75 and over had identical rates of diabetes as the new cohort aged 75 and over. Explanations of high disability rates have emphasized high rates of diabetes among older Mexican Americans and a sedentary life style (Markides et al, 1997; Markides et al, 1999; Markides, et al, in press; also, Wu, Haan, Liang, et al, 2003). It appears that older Mexican Americans are living longer with higher rates of diabetes and associated with very high rates of disability particularly among women.

Table 3: Characteristics of Mexican American men and women aged 75 and over in 1993-94 & 2004-05.

	Men		Women	
	1993-94	2004-05	1993-94	2004-05
Age (Mean ± SD)	80.9 ± 5.2	81.3 ± 4.7	81.0 ± 5.0	81.5 ± 5.4
Married	67.5	66.0	25.1	29.8
Years of education (Mean ± SD)	4.4 ± 3.9	4.9 ± 4.4	4.2 ± 3.7	5.1 ± 4.2 *
Chronic diseases				
Hypertension ¶	57.0	66.0§	67.0	72.7§
Self reported diabetes	21.5	32.7†	21.5	38.2*
Self reported heart attack	14.7	13.4	13.5	10.1
Self reported stroke	9.7	9.8	10.0	8.4
Self reported cancer	6.7	8.4	6.7	7.4
Self reported hip fracture	3.6	4.3	7.2	7.0
Obesity (BMI ≥ 30 Kg/m²)	18.0	22.4	26.6	28.9

-* p value < 0.0001. † p value < 0.001. ‡ p value < 0.01. § p value < 0.05.

-¶ Hypertension was defined as blood pressure ≥140/90 or a self-report of being on hypertension medications.

Recent publications (see publications file) have focused on the influence of medical conditions such as obesity and diabetes. For example, Al Snih, Fisher, Raji et al, (2005, #8) examined the impact of diabetes on the incidence of lower body disability. Al Snih, Ottenbacher, Markides, et al, (2007) examined the

influence of obesity on disability and mortality using data from the Hispanic EPESE and the other EPESE. While obesity was associated with incidence of disability, it was not associated with mortality. In fact, moderate obesity appears to be protective of mortality in older Mexican Americans as well as older people in other groups. Other publications have focused on diabetic complications, falls, religious attendance, and predictors of frailty. Ottenbacher, Graham, Al Snih et al, (in press) examined predictors of frailty over a ten year period in 2049 subjects. Frailty was assessed according to criteria developed by Fried and Walston (Fried, Walston, Blass et al, 1999) and included weight loss, exhaustion, walking speed, grip strength and physical activity. Results showed that over a ten-year period 75 percent of the surviving sample were classified as frail or pre-frail. Frailty was a strong predictor of disability and mortality over time. The incidence of frailty was strongly associated with obesity, diabetes, and depressive symptoms, all three of which are highly prevalent in this population. Since data to construct a frailty index will be available at each wave, we will be able to study the incidence of frailty as well as its Mexican Americans.

We have conducted analyses both cross-sectionally and longitudinally focusing on the influence of Neighborhood Hispanic Concentration on health outcomes. Eschbach, Ostir, Patel et al, (2004) found that older Mexican Americans living in high density Hispanic neighborhoods had a lower mortality rate over time adjusting for individual covariates. Subjects in high Hispanic density neighborhoods were also less likely to report having a stroke, cancer, and a hip fracture. The positive influence of Hispanic density was also evident in analyses with depressive symptoms (Ostir, Eschbach, Markides et al, 2003,) and self-rated health (Patel, Eschbach, Rudkin et al, 2003). As yet unpublished data suggest a beneficial effect of high Hispanic density on changes in cognitive function over time. It appears that sociocultural advantages conferred on older Mexican Americans living in high density Hispanic neighborhoods outweigh the disadvantages conferred by poverty. Analyses of neighborhood characteristics on the quality of life and health outcomes of very old Mexican Americans will continue.

To explore this relationship between neighborhood characteristics and health outcomes, we introduced several new measures of the quality of the neighborhood environment at Wave 5 (2004-2005). These include 1) A summary overall measure of neighborhood satisfaction; 2) a "social cohesion and trust" scale scored from five Likert-scored items; 3) report of the proportion of friends and family who lived in the neighborhood, and 4) a question about the proportion of adults in the neighborhood the respondent would recognize by sight. All measures were adopted from the Los Angeles Family and Neighborhood Study (Sastry), items 2-4 were previously used in the Project on Human Development in Chicago Neighborhoods (Sampson et al 1997). The Social Cohesion and Trust scale is well validated. Sampson (1997) reports a reliability of 0.8. In Hispanic EPESE subjects at Wave 5, scale reliability was 0.70. Reliability improved 0.82 if two reverse-scored items were excluded; these appeared to present difficulties to subjects with low MMSE scores.

As for earlier waves, for the fifth wave, we geocoded the address of current residence for each subject. We found that the 2069 old and new cohort members were living in 415 census tracts throughout the 5 Southwestern states. Thus we were able to investigate the relationship between objective and subjective characteristics of neighborhoods. We found that relationships that we reported from the original baseline data continued to hold. For example, total CESD scores at Wave 5 were significantly lower as percentage Mexican American increased in the census tract, despite the very high poverty rates in these neighborhoods. We also found that both subjective measures of neighborhood satisfaction

(the cohesion and trust scale and overall satisfaction) and objective measures of neighborhood relationships (proportion of adults recognized by subjects) were independently related to lower CESD scores (Eschbach, Patel, Flores, Salinas, & Markides, in review). In the next phase of the study, we will investigate the relationships implicit in these preliminary findings in a longitudinal context. Specifically, we will investigate the relationship among objective neighborhood characteristics, neighborhood relationships, neighborhood satisfaction, perceived social cohesion and subsequent health outcomes. These will include mortality, disability, depressive symptoms, and institutionalization.

Cognitive Function

The Hispanic EPESE currently employs the MMSE and CLOX: An Executive Clock-drawing task (Royall, Cordes & Polk, 1998). Both have been validated in Spanish. Using the MMSE, we found that 36.7% of older Mexican Americans were cognitively impaired using the conventional cut point of 23/24. Using a more conservative cut point of 17/18 indicated an overall rate of more severe cognitive impairment of 6.7%. Impairment was associated with low education, being illiterate, being foreign-born, moderate to high depressive symptomatology, history of stroke, and age (Black, Espino, Mahurin et al, 1999). There is general agreement that the MMSE is a good measure of cognitive impairment but that it is subject to a literacy bias (Crum, Anthony, Bassett, & Folstein, 1993; Espino, Lichtenstein, Palmer & Hazuda, 2001). With longitudinal data, however, since literacy does not change, any significant declines in the MMSE may indicate real cognitive decline and possibly the presence of dementia or early stage dementia. When we examined changes in the MMSE over a five-year period we found significant declines. Among persons with scores greater than 17 on the MMSE, 18% of reinterviewed survivors dropped to 17 or below. They were more likely to be older, less educated, currently unmarried, to be living with others, to be diabetic, to have a history of stroke, and to have near vision impairment at baseline (Nguyen et al, 2002). We have also found that poor cognitive function is an independent predictor of stroke over time in subjects without a history of stroke (Ostir, Ottenbacher, Markides & Goodwin, 2003). In addition, investigators showed a relationship between neighborhood measures, such as lower socioeconomic status and increased level of cognitive impairment over time (Sheffield & Peek, under review).

CLOX scores are divided into a measure of executive control function (ECF) (CLOX1) and a measure of visuospatial praxis (CLOX2) as distinct from the executive control of that domain. In the Hispanic EPESE, we have observed a high prevalence of ECF impairment by CLOX1 and visuospatial dysfunction by CLOX2. At Wave 3, 59.3% of community-dwelling Mexican-Americans failed CLOX1 at 10/15. 31.1% failed CLOX2 at 12/15 (Royall et al., 2004). The etiology and significance of CLOX defined psychometric morbidity in the Hispanic EPESE and other Hispanic samples remains unclear. CLOX1 failure is associated with functional status impairment (Royall, Chiodo & Polk, 2000; 2005), while CLOX2 failure is specifically associated with mortality (Lavery et al., 2006; Royall et al., 2007; 2008). These associations generally resist adjustment for MMSE scores. Thus, CLOX adds incremental information above and beyond the MMSE to multivariate models of functional status and survival. CLOX2's specific association with survival is especially interesting as it may reflect insular cortical brain disease (Royall, Gao & Kellogg, 2006; Royall, 2006; Royall, 2008; Serber et al, 2008) and mediate the associations between depression and /or psychotropic use and falls, syncope, hip fractures, and mortality (Royall et al., 2008). We plan to explore this issue further in the requested follow-up.

CLOX defined cognitive phenotypes also predict differential baseline and longitudinal cognitive and functional outcomes (Royall et al., 2004). CLOX defined phenotypes have been associated cross-sectionally with MMSE score, IADL impairment, change in MMSE

score and progression of IADL impairment. CLOX has been collected at Waves 3, 5, and 6 and will be repeated at Waves 7 and 8, allowing us to fit CLOX data to latent growth curve (LGC) models of longitudinal change in CLOX performance, and to predict longitudinal changes in physical function, MMSE scores and survival. We find significant declines in CLOX1 scores over time, but no mean change in CLOX2 scores. There is significant variability about the mean slopes, suggesting subgroups within the Hispanic EPESE with significantly different rates of change in ECF and visuospatial praxis respectively. The rates of change in both measures are significantly associated with the rate of change in IADL's (CLOX1 $r = 0.45$; CLOX2 $r = 0.60$). CLOX's inclusion in the proposed Waves will strengthen our ability to examine the causes, risk factors and effects of change in ECF and visuospatial function among very old Mexican Americans on physical function, institutionalization and survival.

Institutionalization/Living Arrangements

Although older Mexican Americans remain in the community for as long as possible, their ability to do so is affected by economic, geographic, and structural factors, as well as by functional capacity (Angel & Angel 1997; Angel et al. 1996; Angel et al. 2004). In addition, we have found that immigration history plays an important role. The Hispanic EPESE data show that individuals who immigrated late in life are more likely than those who came to the U.S. as children or young adults or the native born to live with children in the event of diminished health (Angel et al. 2000). Relatively few older Mexican Americans enter nursing homes. Of course options in long-term care and living arrangements are constrained by income and assets and the foreign born face more serious financial constraints than the native born (Angel et al. 1999). As the Hispanic EPESE cohort enters deep old age serious cognitive and physical functioning problems will inevitably increase.

LIST OF PUBLICATIONS/MANUSCRIPTS FROM THE HISPANIC EPESE (AG10939)

(1996-PRESENT) (copies available from Kyriakos S. Markides, 1.128 Ewing Hall, PMCH, University of Texas Medical Branch, Galveston, TX 77555-1153, phone: 409/772-2551; fax 409/772-2573; email: kmarkide@utmb.edu)

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Theses and Dissertations

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