



**FOLLOW-UP MASTER FILE FOR THE MEXICAN HEALTH
AND AGING STUDY (MHAS/ENASEM) 2001-2003**

Project Document

Version 1.0

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by

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Introduction

This document describes the follow-up master file of the Mexican Health and Aging Study (MHAS/ENASEM) with information regarding the outcome of the interviews and related variables in 2001 and the follow-up in 2003.

This file was designed to provide information at the individual level, regarding the outcome of the interviews, starting from the individuals selected for the baseline survey in 2001, and following until the 2003 re-visit. Thus the file includes a record even for selected individuals that were not interviewed at the baseline, and for those that were not eligible for re-interview in 2003. This file contains also the sampling weights that were constructed for the 2001 and 2003 surveys.

The follow-up data file was constructed by personnel from the INEGI (Instituto Nacional de Estadística, Geografía e Informática) in Aguascalientes, Mexico, and it reflects the information as of July 20, 2004, when consistency checks and cleaning of the data files for the 2001 and 2003 surveys were completed, and the sampling weights for the 2003 survey were constructed.

The 2001 baseline survey of the Mexican Health and Aging Study (MHAS/ENASEM) is a national representative survey of individuals born prior to 1951, referred as the population aged 50 or older as of the year 2000. The baseline survey was conducted in the summer of 2001, and a follow-up visit to the same individuals was carried out in the summer of 2003. The sample for the MHAS baseline was selected from residents of both rural and urban areas, from the National Employment Survey (Encuesta Nacional de Empleo, ENE), carried out by the INEGI in Mexico. The ENE survey covers both urban and rural areas and includes sample in all 32 states of Mexico. The households with at least one resident of ages 50 or older were eligible to be part of the MHAS baseline sample. From this sample frame, there were 11,000 households with at least one person of eligible age selected for the study. If more than one age-eligible person resided in the household, then one was randomly selected to be part of MHAS prior to the fieldwork. If the selected MHAS person was married or in a consensual union, with the spouse residing in the same household, then the spouse or partner was also interviewed as part of MHAS regardless of his/her age. Experienced personnel from the INEGI conducted the surveys. The goal was to obtain direct interviews with the person of interest (selected or spouse). When it was not possible to obtain a direct interview due to illness, hospitalization, or temporary absence, a proxy interview was conducted.

For the 2003 re-visit, all age-eligible persons interviewed in 2001 were targeted for follow-up, as well as their spouse/partner. This was attempted even if the household had moved from its 2001 location. If couples had split from their 2001 situation to reside in two different households, a separate interview was attempted with each individual and their new spouse if applicable. In addition, if a baseline respondent had died, an interview was sought in 2003 with a next-of-kin or informed respondent. Thus

MHAS/ENASEM 2003 included three types of questionnaires according to the type of interview: a) direct, b) proxy, or c) next-of-kin. Respondents were also classified by their status in the study: a) follow-up, for those who completed an interview in the 2001 baseline, or b) new person, for those who were interviewed in 2003 for the first time, either because they were new spouses of a 2001 respondent, or because, even though they were already a spouse/partner of a respondent in 2001, they failed to complete an interview at the baseline.

MHAS/ENASEM 2003 had a target of re-visiting 9,718 households. Of these, 37 households reported that they had split into two, and it was possible to have information on both households. Therefore, the total to visit was 9,755 households (9718 plus 37).

Identifiers

A random, sequential number ranging from 1 to 11,000 was created to identify each household at the 2001 baseline (CUNICAH also called UNHHID). This variable, in combination with the person identifier CODENT01 serve as unique person identifiers at the 2001 baseline.

For the 2003 follow-up, a household code was created to capture changes in the situation of the individual or couple interviewed in 2001, and reflects modifications in the couple-composition of the target individual and the spouse/partner if applicable. This is referred to as “updated household,” (ACTHOG) and the codes reflect the type of change experienced, including divorce/separation, death, or new spouse. In the case of split couples as mentioned above, an interview was sought with both baseline respondents in their respective households and their new spouses if applicable. The updated-household codes capture also whether the household observed in 2003 contains the baseline *sampled* respondent, or the baseline *spouse* of the selected person. Thus in 2003, the unique household identifier CUNICAH used in 2001 is supplemented with ACTHOG to form the unique household identifier. The person identifier for the 2003 survey is given by CODENT03. Hence these three variables in combination serve as unique identifiers at the 2003 follow-up.

File Contents

The follow-up master file contains a record per individual within each of the 11,000 households that were originally selected for interview for the 2001 baseline. It contains 33 variables, including household and individual identifiers, the age available from the 2001 sampling list drawn from the ENE 2000, the size of the community of residence and whether the individuals in the household had been pre-selected for anthropometric measures. The file contains the outcome of the household visit, and depending on this outcome, the type of non-interview and type of interview obtained. Variables representing the reported month and year of birth, age and sex in 2001 are included, as well as the calculated weights for 2001 (household, individual, and anthropometric measures).

For 2003, the file contains a variable reflecting whether or not the individual was eligible for re-interview, the outcome of the interviews at the household and individual levels, if the individual was found in the same dwelling compared to 2001, the changes undergone in the individual/couple situation, and if the individual was known to have died between 2001 and 2003. The type of interview obtained, and type of non-interview are reported as well as the age, sex and (for new persons) the reported month and year of birth in 2003. Finally the 2003 weights are included.

The file contents, list of variables and their labels are included below, as well as summary statistics for the distribution of the variables.

FILE CONTENT

obs:	16,665			
vars:	33			30 Jul 2004 13:03
variable name	storage type	display format	value label	variable label
cunicah	int	%10.0g		Unique Household identification code 2001
codent01	byte	%25.0g	codent01	Person identification code 2001
tamloc	byte	%16.0g	tamloc	Locality size 2001
edad	int	%10.0g		Age on sample list
antro01	byte	%10.0g	yesno	Selected for anthropometric measurement 2001
res01	int	%80.0g	res01	Outcome of the household interview 2001
tipne01	byte	%80.0g	tipne01	Type of household non-interview 2001
tipent01	byte	%24.0g	tipent01	Type of interview 2001
factorh01	long	%10.0g		Household weight 2001
factori01	long	%10.0g		Person weight 2001
factora01	long	%10.0g		Person weight for anthropometric measurement 2001
mes01	byte	%10.0g		Month of birth 2001
a_o01	int	%10.0g		Year of birth 2001
edad01	int	%10.0g		Age 2001
sexo01	byte	%10.0g	sex	Sex 2001
elegible03	byte	%31.0g	elegible03	Elegible for interview in 2003
res03	int	%63.0g	res03	Outcome for interview 2003
res_ent03	byte	%20.0g	res_ent03	Outcome for individual interview 2003
misma_v03	byte	%37.0g	misma_v03	Same dwelling in 2003
antro03	byte	%10.0g	yesno	Selected for anthropometric measurement 2003
acthog	byte	%78.0g	acthog	Update household code 2003
codent03	byte	%47.0g	codent03	Person identification code 2003
tipent03	byte	%39.0g	tipent03	Type of interview 2003
tipne03	byte	%41.0g	tipne03	Type of non-interview 2003
entrevista03	byte	%16.0g	entrevista03	Follow-up/new person
fallecido03	byte	%22.0g	fallecido03	Died between 2001 and 2003
sexo03	byte	%10.0g	sex	Sex 2003
edad03	int	%10.0g		Age 2003
mes03	byte	%10.0g		Month of birth 2003
a_o03	int	%10.0g		Year of birth 2003

factori03	long	%12.0g	Person weight 2003
factora03	long	%12.0g	Person weight for anthropometric measurement 2003
factorh03	long	%12.0g	Household weight 2003

CODES LIST

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codent03:
    1 Selected person in 2001
    2 Spouse of selected person in 2001
    3 New spouse of selected person in 2001
    4 New spouse-of-spouse of selected person in 2001
misma_v03:
    1 Same dwelling
    2 Different dwelling
    3 Group quarters (asylum, penitentiary)
res_ent03:
    1 Complete interview
    20 Incomplete interview
antro01:
    0 No
    1 Yes
sex:
    1 Male
    2 Female
elegible03:
    0 Not eligible for 2003 interview
    1 Eligible for 2003 interview
fallecido03:
    0 Alive in 2003
    1 Died between 2001-2003
entrevista03:
    1 Follow-up person
    2 New person
tipent03:
    11 Direct, first interview
    12 Direct, second interview
    21 Proxy, first interview
    22 Proxy, second interview
    31 Next-of-kin interview, first interview
    32 Next-of-kin interview, second interview
    33 Next-of-kin interview, third interview
    42 Non-response, second interview
tipent01:
    11 Direct, first interview
    12 Direct, second interview
    21 Proxy, first interview
    22 Proxy, second interview
res03:
    1100 One, direct 1st int.
    1200 One, proxy 1st int.
    1300 One, next of kin int.
    1400 One, no 1st int.
    2012 Two, direct 2nd int., proxy int. new person
    2101 Two, direct 1st interview, direct new person
    2102 Two, direct 1st int., proxy int. new person
    2104 Two, direct 1st int., no new person
    2110 Two, direct 1st int., direct 2nd int.
    2120 Two, direct 1st int., proxy 2nd int.
    2130 Two, direct 1st int., next of kin int.
    2140 Two, direct 1st int., no 2nd int.
    2201 Two, proxy 1st int., no 2nd int., direct int. new person
    2202 Two, proxy 1st int., proxy int. new person
    2204 Two, proxy 1st int., no new person
    2210 Two, proxy 1st int., direct 2nd int.
    2220 Two, proxy 1st int., proxy 2nd int.
    2230 Two, proxy 1st int., next of kin int.
    2240 Two, proxy 1st int., no 2nd int.

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2301 Two, next of kin int., direct int. new person
 2304 Two, next of kin int., no 2nd int., no new person
 2330 Two, next of kin int., next of kin int.
 2340 Two, next of kin int., no 2nd int.
 2400 Two, no 1st int.
 2401 Two, no 1st int., direct int. new person
 2404 Two, no 1st int., no 2nd int., no new person
 2430 Two, no 1st int., next of kin int.
 2440 Two, no 1st int., no 2nd int.
 3131 Three, direct 1st int., next of kin int., direct int. new person
 3231 Three, proxy 1st int., next of kin int., direct int. new person

tipne03:

- 0 Interviewed
- 21 Changed location and cannot be located
- 22 Refused Core Interview
- 23 Refused Proxy Interview
- 24 Refused Next of Kin Interview
- 25 Unable without informant
- 26 Absent and there is no informant
- 27 Deceased without an informant
- 28 Deceased in 2001 and no interview in 2003
- 29 Other

acthog:

- 0 Neither separation nor death, no new spouse
- 1 Neither separation nor death, new spouse
- 2 Neither separation nor death, both sampled resp. 2001 died
- 10 Had a separation and contains sampled resp. 2001, no new spouse
- 11 Had a separation and contains sampled resp. 2001, new spouse
- 12 Had a separation and contains sampled resp. 2001, both sampled resp. 2001

died

- 20 Had a separation and contains spouse 2001, no new spouse
- 21 Had a separation and contains spouse 2001, new spouse
- 22 Had a separation and contains spouse 2001, both sampled resp. 2001 died
- 30 One 2001 respondent died, no new spouse
- 31 One 2001 respondent died, new spouse
- 32 Both 2001 respondents died

res01:

- 0 No interview
- 110 Selected person, information provided by self - normal
- 130 Selected person, information provided by third person - substitute
- 202 Couple, Information on selected person non-interview, spouse by self -

normal

- 203 Couple, Information on selected person non-interview, spouse by third person

- s

- 210 Couple, Information on selected person by self, spouse non-interview -

normal

- 211 Couple, Information about both provided by selected person - substitute
- 212 Couple, Information provided by each one - normal
- 213 Couple, Information on selected person provided by self, spouse by third

person

- 222 Couple, Information on both by spouse - substitute
- 230 Couple, Information on selected person provided by third person, spouse non-

inte

- 232 Couple, Information on selected person provided by third person, spouse by

self

- 233 Couple, Information on both provided by third person - substitute

tipne01:

- 0 Interviewed
- 2 Nobody at time of interview
- 3 Temporarily absent
- 4 Refused to provide information
- 5 Other (occupied house) Specify
- 6 Unoccupied, fit for living
- 7 Temporary housing
- 8 Unoccupied, inadequate to live in due to bad conditions or remodeling
- 9 Unoccupied, temporarily used for other means different than housing
- 10 Demolished
- 11 Tent, trailer, mobile home, etc. changed place
- 12 Business or permanent warehouse
- 13 Other (specify)
- 14 Selected (and spouse) moved and unable to reach or locate

15 Selected (and spouse) not fit for interview and no substitute informant
 16 Selected deceased and no spouse
 17 Selected deceased and no spouse within required age
 18 Selected (and spouse) temporarily absent and there is no adequate or
 available s
 19 Other (specify)
 codent01:
 1 Selected person
 2 Spouse of selected person
 tamloc:
 1 100,000 - +
 2 15,000 - 99,999
 3 2,500 - 14,999
 4 < 2,500

DISTRIBUTION OF CATEGORICAL VARIABLES (THE VALUE LABELS ARE DISPLAYED)

-> tabulation of tamloc

Locality size 2001	Freq.	Percent	Cum.
100,000 - +	9871	59.23	59.23
15,000 - 99,999	2475	14.85	74.08
2,500 - 14,999	1511	9.07	83.15
< 2,500	2808	16.85	100.00
Total	16665	100.00	

-> tabulation of codent01

Person identification code 2001	Freq.	Percent	Cum.
Selected person	9812	63.71	63.71
Spouse of selected person	5590	36.29	100.00
Total	15402	100.00	

-> tabulation of antro01

Selected for anthropometric measurement 2001	Freq.	Percent	Cum.
No	13712	82.90	82.90
Yes	2828	17.10	100.00
Total	16540	100.00	

-> tabulation of res01

Outcome of the household interview 2001	Freq.	Percent	Cum.
No interview	1138	6.88	6.88
Selected person, information provided b	3904	23.60	30.48
Selected person, information provided b	362	2.19	32.67
Couple, Information on selected person	232	1.40	34.07
Couple, Information on selected person	4	0.02	34.10
Couple, Information on selected person	246	1.49	35.59
Couple, Information about both provided	422	2.55	38.14
Couple, Information provided by each on	9460	57.19	95.33
Couple, Information on selected person	78	0.47	95.80
Couple, Information on both by spouse -	470	2.84	98.65
Couple, Information on selected person	6	0.04	98.68
Couple, Information on selected person	86	0.52	99.20
Couple, Information on both provided by	132	0.80	100.00
Total	16540	100.00	

-> tabulation of tipne01

Type of household non-interview 2001	Freq.	Percent	Cum.
Interviewed	15402	93.12	93.12
Nobody at time of interview	54	0.33	93.45
Temporarily absent	78	0.47	93.92
Refused to provide information	265	1.60	95.52
Other (occupied house) Specify	14	0.08	95.60
Unoccupied, fit for living	23	0.14	95.74
Temporary housing	19	0.11	95.86
Unoccupied, inadequate to live in due t	2	0.01	95.87
Unoccupied, temporarily used for other	12	0.07	95.94
Demolished	3	0.02	95.96
Business or permanent warehouse	1	0.01	95.97
Other (specify)	1	0.01	95.97
Selected (and spouse) moved and unable	275	1.66	97.64
Selected (and spouse) not fit for inter	24	0.15	97.78
Selected deceased and no spouse	105	0.63	98.42
Selected deceased and no spouse within	8	0.05	98.46
Selected (and spouse) temporarily absen	177	1.07	99.53
Other (specify)	77	0.47	100.00
Total	16540	100.00	

-> tabulation of tipent01

Type of interview 2001	Freq.	Percent	Cum.
Direct, first interview	9424	61.19	61.19
Direct, second interview	4946	32.11	93.30
Proxy, first interview	438	2.84	96.14
Proxy, second interview	594	3.86	100.00
Total	15402	100.00	

-> tabulation of sexo01

Sex 2001	Freq.	Percent	Cum.
Male	6650	43.18	43.18
Female	8752	56.82	100.00
Total	15402	100.00	

-> tabulation of elegible03

Elegible for interview in 2003	Freq.	Percent	Cum.
Not eligible for 2003 interview	1390	8.40	8.40
Elegible for 2003 interview	15150	91.60	100.00
Total	16540	100.00	

-> tabulation of res03

Outcome for interview 2003	Freq.	Percent	Cum.
One, direct 1st int.	3432	22.47	22.47
One, proxy 1st int.	330	2.16	24.63
One, next of kin int.	257	1.68	26.31
One, no 1st int.	282	1.85	28.16
Two, direct 1st interview, direct new p	232	1.52	29.68
Two, direct 1st int., proxy int. new pe	66	0.43	30.11
Two, direct 1st int., no new person	10	0.07	30.17
Two, direct 1st int., direct 2nd int.	7880	51.59	81.76
Two, direct 1st int., proxy 2nd int.	1156	7.57	89.33
Two, direct 1st int., next of kin int.	456	2.99	92.31
Two, direct 1st int., no 2nd int.	234	1.53	93.85
Two, proxy 1st int., no 2nd int., direc	16	0.10	93.95
Two, proxy 1st int., proxy int. new per	12	0.08	94.03
Two, proxy 1st int., no new person	2	0.01	94.04
Two, proxy 1st int., proxy 2nd int.	188	1.23	95.27
Two, proxy 1st int., next of kin int.	48	0.31	95.59
Two, proxy 1st int., no 2nd int.	4	0.03	95.61
Two, next of kin int., direct int. new	2	0.01	95.63
Two, next of kin int., no 2nd int., no	2	0.01	95.64
Two, next of kin int., next of kin int.	24	0.16	95.80
Two, next of kin int., no 2nd int.	14	0.09	95.89
Two, no 1st int., direct int. new perso	6	0.04	95.93
Two, no 1st int., no 2nd int., no new p	6	0.04	95.97
Two, no 1st int., no 2nd int.	604	3.95	99.92
Three, direct 1st int.,next of kin int.	9	0.06	99.98
Three, proxy 1st int., next of kin int.	3	0.02	100.00
Total	15275	100.00	

-> tabulation of res_ent03

Outcome for individual interview 2003	Freq.	Percent	Cum.
Complete interview	14215	99.75	99.75
Incomplete interview	35	0.25	100.00
Total	14250	100.00	

-> tabulation of misma_v03

Same dwelling in 2003	Freq.	Percent	Cum.
Same dwelling	14475	94.76	94.76
Different dwelling	798	5.22	99.99
Group quarters (asylum, penitentiary)	2	0.01	100.00
Total	15275	100.00	

-> tabulation of antro03

Selected for anthropomet ric measurement 2003	Freq.	Percent	Cum.
No	12609	83.23	83.23
Yes	2541	16.77	100.00
Total	15150	100.00	

-> tabulation of acthog

Update household code 2003	Freq.	Percent	Cum.
Neither separation nor death, no new sp	14099	92.30	92.30
Neither separation nor death, new spous	198	1.30	93.60
Had a separation and contains sampled r	63	0.41	94.01
Had a separation and contains sampled r	8	0.05	94.06
Had a separation and contains spouse 20	61	0.40	94.46
Had a separation and contains spouse 20	12	0.08	94.54
One 2001 respondent died, no new spouse	790	5.17	99.71
One 2001 respondent died, new spouse	16	0.10	99.82
Both 2001 respondents died	28	0.18	100.00
Total	15275	100.00	

-> tabulation of codent03

Person identification code 2003	Freq.	Percent	Cum.
Selected person in 2001	9675	63.34	63.34
Spouse of selected person in 2001	5498	35.99	99.33
New spouse of selected person in 2001	95	0.62	99.95
New spouse-of-spouse of selected person	7	0.05	100.00
Total	15275	100.00	

-> tabulation of tipent03

Type of interview 2003	Freq.	Percent	Cum.
Direct, first interview	8465	58.84	58.84
Direct, second interview	4061	28.23	87.07
Proxy, first interview	457	3.18	90.25
Proxy, second interview	721	5.01	95.26
Next-of-kin interview, first interview	277	1.93	97.18
Next-of-kin interview, second interview	265	1.84	99.03
Next-of-kin interview, third interview	4	0.03	99.05
Non-response, second interview	136	0.95	100.00
Total	14386	100.00	

-> tabulation of tipne03

Type of non-interview 2003	Freq.	Percent	Cum.
Interviewed	14386	94.18	94.18
Changed location and cannot be located	317	2.08	96.26
Refused Core Interview	241	1.58	97.83
Refused Proxy Interview	5	0.03	97.87
Refused Next of Kin Interview	6	0.04	97.91
Unable without informant	24	0.16	98.06
Absent and there is no informant	213	1.39	99.46
Deceased without an informant	16	0.10	99.56
Other	67	0.44	100.00
Total	15275	100.00	

-> tabulation of entrevista03

Follow-up/new person	Freq.	Percent	Cum.
Follow-up person	13620	98.41	98.41
New person	220	1.59	100.00
Total	13840	100.00	

-> tabulation of fallecido03

Died between 2001 and 2003	Freq.	Percent	Cum.
Alive in 2003	13840	96.20	96.20
Died between 2001-2003	546	3.80	100.00
Total	14386	100.00	

-> tabulation of sexo03

Sex 2003	Freq.	Percent	Cum.
Male	5827	42.52	42.52
Female	7877	57.48	100.00
Total	13704	100.00	

SUMMARY STATISTICS FOR ALL VARIABLES

Variable	Obs	Mean	Std. Dev.	Min	Max
cunicah	16665	5493.604	3174.768	1	11000
codent01	15402	1.36294	.4808633	1	2
tamloc	16665	1.835344	1.153232	1	4
edad	14921	62.88479	27.53919	21	999
antro01	16540	.1709794	.3765024	0	1
res01	16540	171.9129	64.0194	0	233
tipne01	16540	.7616082	3.234427	0	19
tipent01	15402	12.02974	2.602217	11	22
factorh01	15402	1014.068	1578.016	16	35360
factori01	15402	948.3007	1686.748	0	44177
factora01	15402	948.3013	4341.146	0	108420
mes01	15186	7.075135	8.183391	1	99
a_o01	15186	1939.725	10.83852	1895	1982
edad01	15186	60.26294	10.83792	18	105
sexo01	15402	1.568238	.4953378	1	2
elegible03	16540	.9159613	.2774542	0	1
res03	15275	1854.967	456.0951	1100	3231
res_ent03	14250	1.046667	.9405057	1	20
misma_v03	15275	1.052504	.2236349	1	3
antro03	15150	.1677228	.3736323	0	1
acthog	15275	1.799018	6.973495	0	32
codent03	15275	1.373748	.4992644	1	4
tipent03	14386	13.22237	5.443473	11	42
tipne03	15275	1.357185	5.496229	0	29
entrevista03	13840	1.015896	.1250776	1	2
fallecido03	14386	.0379536	.1910906	0	1
sexo03	13704	1.574796	.494392	1	2
edad03	13497	64.96392	44.12393	21	999
mes03	207	16.83092	29.31873	1	99
a_o03	207	2373.213	1810.975	1910	9999
factori03	16665	845.1651	1701.328	0	46315
factora03	16665	838.913	4245.453	0	167630
factorh03	16665	838.9121	1687.074	0	46315