

OLDER PERSONS IN URBAN AREAS OF LATIN AMERICA AND THE CARIBBEAN: ACTIVE LIFE EXPECTANCY AND MULTIDIMENSIONAL DISABILITY PROFILES FROM SABE

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INTRODUCTION

During recent decades, Latin America and the Caribbean have experienced substantial changes in the demographic components determining the dynamics of their population. These changes include a large mortality decline, especially since 1950. According to the UN, life expectancies in the region rose from 51.4 years in 1950 to 71.5 in 2000 and are projected to reach 79.5 in 2050 (UN 2005).

Evidence suggests that these survival gains were associated, in the beginning, with declines in infectious diseases, especially in the first 5 years of life, and more recently with improvements in adult mortality. There is also evidence of gender specificity, with women experiencing a higher survivorship and higher gains (Villa and Rivadeneira 1999; Palloni, Pinto Aguirre et al. 2002; Ham-Chande 2003).

Another important demographic change in the region has been a drastic reduction on fertility. According to the UN (2005), Total Fertility rates in the region decreased from 6 children per women in 1950 to about 3 children per women in 2000 and are projected to be below replacement level in 2050, although there is still quite large variation.

The result of these substantial changes in fertility and mortality is population ageing. Estimates show that the proportion of people aged 65 and more increased from 3.7% in 1950 to 5.5% in 2000 and is projected to reach 18.4% in 2050 (UN 2005). As yet, little attention has been paid to possible changes in population health and functioning related to the ageing processes in Latin America and the Caribbean (Palloni, Pinto Aguirre et al. 2002; Ham-Chande 2003).

Recent literature on ageing and health emphasises the importance of using indicators that describe not only the total length of life, but also the health status and functioning of populations throughout the ageing process. The measure most frequently calculated for this purposes is the active life expectancy - the average number of years that a person can expect to live with complete function or in an “active” way.

This indicator has been applied to orient public policy in Japan, Canada, France, the United Kingdom, the United States and many other countries. In Latin America and the Caribbean, the available estimates suggest that although life expectancies in urban

areas are similar, the proportions of remaining life free of disability are different. According to Ham-Chande (2003), at age 65, when life expectancy varies by a maximum of 0.7 years, the proportion of life free of disability varies from 89.9% (Montevideo, Uruguay) to 79.3% (Santiago, Chile), a gap of more than 10%. At age 85, when life expectancy still varies by a maximum of 0.7 year, the proportion of life free of disability varies from 74.0% (Montevideo) to 48.9% (Santiago), a gap of more than 25.0%.

The production of consistent evidence about quality of life requires consideration that, in the older ages, it does not make sense to define disability as discrete and constant throughout age because most aged people manifest different types and degrees of limitation, which evolve during their lifetime.

Such sorts of estimates are not yet available in Latin America and the Caribbean. Until recently data have been lacking and use of appropriate methodologies has also been limited. However data from the survey on Health, Wellbeing and Ageing in Latin America and the Caribbean (SABE) partly remedies this lack as SABE adopted a multidimensional approach and collected data on a range of health domains, together with information on social and economic circumstances. Additionally, the SABE survey was cross-national providing an important opportunity for comparisons across the region.

The purpose of this paper is to characterize the health and functional status of older persons living in urban areas in Latin America and the Caribbean. More specifically, it intends to identify multidimensional functioning profiles, to obtain the prevalence of these profiles among older persons and to estimate the active life expectancy incorporating cognitive, emotional and physical domains of health of older persons.

METHODS

Data

This analysis uses data on health and functioning from the Health, Wellbeing and Aging in Latin America and the Caribbean (SABE) survey. SABE is a cross-sectional survey conducted in urban areas of 7 countries in Latin America and the Caribbean: Buenos Aires DF in Argentina, Bridgetown in Barbados, Sao Paulo in Brazil, Santiago in Chile, Havana in Cuba, Mexico DF in Mexico and Montevideo in Uruguay. The universe of study was the population aged 60 years and over residing in private households occupied by permanent residents in each of the selected urban areas.

The sampling frame was obtained from periodic national employment or other household surveys, which generally offer more up to date sampling frames than the census. This is the case for Buenos Aires DF, Havana, Mexico DF, Montevideo and Sao

Paulo. In Santiago, however, the 1992 census provided the sampling frame, and in Bridgetown the national electoral register was used as a frame (Pallini and Pelaez 2004)

The sample design involved classical multistage clustered sampling with stratification of the units at the highest levels of aggregation. In all areas, the sample was chosen in three stages. The exception is Bridgetown and Sao Paulo where only two selection stages were applied. In all cases, the stages of the sample design enable the derivation of probabilities of selection for each target individual. Expansion factors were calculated to allow grossing up from the surveys to the whole population. Data were collected during approximately the same period of time. Field work started in the first quarter of 2000 and finished in the third quarter of 2000. The exception is Santiago, where it started at the end of 1999 and finished at the start of 2000.

The total number of individuals in the analytic file of survey respondents ranged from 1043 in Buenos Aires DF to 2143 in Sao Paulo. This does not include spouses and partners of survey respondents who were also interviewed but are not included in the analyses presented here as they are not a random sample. We excluded records in which the interview was incomplete, or in which the respondent was not able to answer and there was no proxy respondent, or in which there was no information on the interview result, or in which there was no information on the age or sex of the respondent. Details of these exclusions are shown in Table 1. We also excluded Santiago from our analysis because the data set did not have information on the answers to each item of the Mini Mental State Examination (MMSE), providing only the global result, what would not be enough to the purposes of this work. The final number of individual in the data set ranged from 1037 in Buenos Aires DF to 2113 in Sao Paulo (Table 1).

**Table 1 - Number of records in the data file, number of incomplete interviews, number of people not able to answer the questionnaire without a proxy respondent available, number of records without register on the interview result, number of records missing information on sex, number of records missing information on age, number of people aged less than 60 years, number of records in the data set
SABE urban areas, 2000**

SABE urban areas	Data file	Incomplete interview	Not able to answer and no proxy available	No information on interview result	Missing sex	Missing age	Aged less than 60	Data set
Buenos Aires DF	1043	6	0	0	0	0	0	1037
Bridgetown	1508	0	30	0	0	0	0	1478
Sao Paulo	2143	9	20	1	0	0	0	2113
Havana	1905	0	0	0	0	0	0	1905
Mexico DF	1876	0	62	2	1	0	629	1188*
Montevideo	1450	0	13	0		0	0	1437

*There was 6 observations that were both below 60 and not able to answer and no proxy available

Measures

The SABE survey collected detailed information on cognitive, emotional and physical dimensions of the health of older persons. Therefore, it allows analysis of function considering several domains of health and functioning of these individuals and the inter-relations between these domains.

Measures of functioning include items from indices of cognitive performance, depressive symptoms and physical function. Data were using standard instruments validated in Spanish. Measures of cognitive function included 15 items from a summary version of Mini Mental State Examination (MMSE) (Folstein, Folstein et al. 1975). Depressive symptoms were measured using questions from a 15-item version of the original 30 item Geriatric Depression Scale (GDS) (Yesavage, Brink et al. 1982). Measures of physical function included , 12 mobility impairments, 6 activities of daily living (ADLs) (Katz, Branch et al. 1983) and 7 instrumental activities of daily living (IADLs) (Lawton and Brody 1969).

Data on mortality

The data on mortality were provided by the bureau of statistics from countries involved in the research, namely: Instituto Nacional de Estadística y Censos (Argentina), Fundacao Sistema Estadual de Analise de Dados¹ (Brazil), Direccion Nacional de Estadistica (Cuba), Instituto Nacional de Estadística, Geografia e Informatica (Mexico), Instituto Nacional de Estadística (Uruguay). They refer to urban areas in which data were collected in the year 2000, except for Barbados, where the data refers to the whole country and was provided by the Word Health Organization.

Analysis

Life tables

Life expectancy calculations require the basic life table relations:

$$l_x = l_0 \cdot (1 - q_0) \dots (1 - q_{x-1}) \quad (1)$$

$$T_x = \int_x^{\infty} l_t dt \quad (2)$$

$$e_x = T_x / l_x \quad (3)$$

¹ In the case of Brazil, data were provided by the state bureau of statistics of Sao Paulo

Where q_x is the probability of dying within the year at age x ; I_x the survival function with initial value I_0 ; T_x is the number of person-years lived at or beyond age x ; and e_x is the residual life expectancy at age x . Estimation of active life expectancy requires stratifying life table parameters according to the distribution of functioning status across the population using measures of functioning generated from the survey data.

We used Grade of Membership (GoM) models (Manton et al, 1994) to define multidimensional functioning profiles combining variables representing each item from MMSE, GDS, physical mobility, IADL and ADL. Our literature review suggested GoM analysis as the best methodological strategy to describe functioning among older persons representing variations in the types and degrees of disability. GoM has been used to provide assessments of the health and functioning of older populations in both developed countries (Manton and Stallard, 1991; Portrait, Lindeboom et al. 1999; Manton and Land, 2000; Portrait, Lindeboom et al. 2001) and developing countries (Manton, Myers et al. 1987, Baptista, 2003).

The GoM model

The special feature of GoM model that makes it appropriate for analysis of health and functioning of older persons is that the groups it defines are not exclusive. GoM allows a person to be a partial member of more than one group in the sense that one's observed characteristics represent a mixture of the characteristics from two or more of the analytically defined groups.

This ability to represent partial membership in two or more groups is important in the analysis of functioning among older populations where the set of characteristics needed to describe persons is very complex. For example, a person may be cognitively intact but have mobility impairments. Or a person may have serious cognitive impairment but little physical impairments.

Below we present a brief summary of this methodology. The revision follows Manton, Woodbury and Tolley (1994), Manton and Stallard (1991), Berkman, Singer and Manton (1989) and Manton, Myers et al. (1987)

Grade of Membership is a term that refers to the properties of models that describe the state of a person in “fuzzy” states (ZADEH, 1965) instead of discrete groups or sets. The “fuzziness” describes individual heterogeneity on dimensions or types (e.g. individual functioning states) required to produce the data. To describe the GoM model several terms must be defined.

Let us assume that the i th person is assessed on j characteristics –these measurements involve determining whether a person has, or does not have, the l th response to that variable. For example, whether a person remembered the month of the

interview or not; whether a person felt satisfied with life or not; whether a person had difficulty with running 1.5 km or not. The binary variables describing whether the person had a particular attribute may be represented as y_{ijl} .

The GoM model assumes that the y_{ijl} may be predicted from two coefficients: (1) a structural parameter, λ_{kjl} , which describes the probability that each of the K groups has the l th response to the j th variable; (2) an association parameter, g_{ik} , which describes how much each of the attributes for each person (i.e., y_{ijl}) is determined by each of the $K\lambda_{kjl}$. Thus the g_{ik} are linear weights that predict an individual's observed characteristics in terms of the characteristics of the types. The g_{ik} are estimated under the constraint that, over all types, the g_{ik} sum 1.0 (i.e., $\sum_k g_{ik} = 1.0$) and that the g_{ik} are all between 0 and 1. With these definitions the GoM model may be written as

$$\hat{y}_{ijl} = \sum_k g_{ik} \cdot \lambda_{kjl} \quad (4)$$

The \hat{y}_{ijl} is the probability predicted by the model that the i th person will have the l th response to the j th variable. Thus the closeness of the value of y^*_{ijl} to the \hat{y}_{ijl} describes the fit of the model. If, for one of the K types, $g_{ik}=1$, all other g_{ik} must be zero and the y_{ijl} will be exactly equal to the λ_{kjl} for that type.

The GoM is estimated by the multinomial probability function given by:

$$\Pr(Y_{ijl} = 1,0) = \prod_{i=1}^I \prod_{j=1}^J \prod_{l=1}^{L_j} \left(\sum_{k=1}^K g_{ik} \cdot \lambda_{kjl} \right)^{y_{ijl}} \quad (5)$$

in which Y_{ijl} represents a binary state in which each element i th assumes in the category l th of variable j th, to all possible combinations of i and j .

The λ_{kjl} and g_{ik} are estimated iteratively by maximizing a conditional likelihood function, beginning from a set of initial values for the g_{ik} and λ_{kjl} [for details see Manton et al (1994)]. The GoM analyses were performed using software developed by Charpentier (2006).

In exploratory analysis, models can be estimated by choosing successively higher values of K . However, while an increase in K tends to improve the fit of the model, the profiles and mixes among them generally become more difficult to interpret (Seplaki et al, 2004; Berkman et al 1989). In particular, comparable prior studies have found that between 4 and 6 disability profiles provide reasonable summaries of health and functioning of older persons.

The number of functioning profiles was chosen considering not just model parsimony, but also agglomeration of indicators of cognitive, emotional and physical domains of health that were consistent with scientific and clinical literature on health and

co-morbidity in later life. With SABE, the balance between profile detail and interpretability results in choice of models producing 6 profiles for Buenos Aires DF and Mexico DF and 5 profiles for Bridgetown, Sao Paulo and Montevideo.

Subsets of characteristics that distinguish one profile from another, and thus form the basis of the descriptions of the profile are defined using criteria developed by Singer (1989) and Berkman et al (1989), which compare each λ_{kjl} to the corresponding marginal frequency. A particular response is defined as a distinguishing characteristic for a profile if its estimated response probability is at least 30% greater than the marginal frequency of that response on the overall sample.

GoM models can be sensitive to initial parameter values, particularly those for the λ_{kjl} , because the difficulty of identifying a global maximum on the complex likelihood surface. This issue was addressed by choosing initial values for λ_{kjl} that reflect highly idealized and simplified combinations of functional impairment that were informed both by analyses (using random values) and existing studies. This strategy of using “informed” initial values increases confidence in the optimized solution, relative to one derived from purely random or other numerical criteria Manton et al (1994).

Functional status life tables

An important property of the GoM model is that both structural parameters, λ_{kjl} , and moments of the distribution of the grades of membership, g_{ik} , are consistently estimated. As a consequence, if sample weights are used, then the weighted moments will be consistent estimators of the population moments under the assumption that the sample weights are based on an independent probability mechanism (Manton, Toley and Woodbury, 1989). Thus the sample means of the g_{ik} values, say g^*_{ik} , for K types are consistent estimators of the concentration of each of the types in the study population. The weighted sample means will approximate this condition for general population. Then since:

$$g^*_{ik} = \sum_i g_{ik} \cdot w_i / \sum_i w_i \quad (6)$$

and

$$\sum_K \bar{g}_k = 1 \quad (7)$$

the GoM model yields an additive disaggregation of the population according to functioning status. Since the concentrations of the K profiles generalize the concept of

population subgroups (to allow within group heterogeneity), GOM analyses may be conducted separately for nonoverlapping subpopulations with \bar{g}_k 's weighted to satisfy equation (7).

Using equation (7) the life table parameters can be redefined for K disability dimensions where \bar{g}_{ikx} is the mean of g_{ik} at age x, as

$$l_x = \sum_k l_{kx} = l_x \sum_k \bar{g}_{kx} \quad (8)$$

$$T_x = \sum_k T_{kx} = \sum_k \int_x^{\infty} l_{kx} dt \quad (9)$$

$$e_x = \sum_k e_{kx} = \sum_k T_{kx} / l_x \quad (10)$$

Which parallel equations (1), (2) and (3). Equations (8), (9) and (10) show that l_{kx} , T_{kx} and e_{kx} represent duration-weighted measures of the population impact of the K functioning profiles.

RESULTS

Functioning profiles

The structural parameters, λ_{kij} , estimated through the GoM model were used to identify multidimensional functioning profiles. The GoM analysis was performed in three stages. Firstly we designated which variables were used to define the profiles. As discussed before we included 55 variables representing cognitive, emotional and physical health domains. Secondly we performed series of GoM analyses with different numbers of profiles for each SABE urban area. Here we compared GoM model estimates for 2, 3, 4, 5, 6, 7 and 8 profiles. Thirdly we determined how many profiles were necessary to explain the variation in the 55 variables. As discussed before, the final choice of models produced 6 profiles for Buenos Aires DF and Mexico DF and 5 profiles for Bridgetown, Sao Paulo and Montevideo.

For each profile of each estimator, we calculated the ratio between the probability of a person from profile k having answer I to a health domain indicator j, λ_{kij} , and the marginal frequency of that health domain indicator in the population as a whole. If the probability of the answer I to the indicator j was 30% greater than the marginal frequency of that answer to that indicator in the population, such a characteristic would define that profile.

Tables 2A-F in annex present the marginal frequencies of each health domain indicator and the estimated probabilities of the presence of each answer I=3 to each one

of $j=55$ domains of health analyzed, in each one of k profiles, λ_{kjl} . The first column contains the marginal frequencies describing the proportion of persons in the sample that inform presence of difficulties in a given domain of health. For example, in Buenos Aires 80% report having difficulty with climbing several flights of stairs without resting. The following columns contain the estimated probabilities, λ_{kjl} , of the difficulty with a given domain of health belonging to a given functioning profile. For example, a wrong answer to the month of interview date has a probability of 36% of belonging to profile IV in Buenos Aires.

Tables 2A-F contain only answers indicating problems with cognitive, emotional and physical domains of health. The full set of estimated profile response probabilities is given in Tables 2A1-F6 in annex. The prevalence of the multidimensional functioning profiles for each SABE urban area is presented in Graph 1A-F in annex. Below we present a description of the set functioning profiles for Buenos Aires. The names given above the description are a simplification, but are intended as a description for ease reference.

Buenos Aires, Argentina

Profile I, Fully Functioning: Profile I has no physical or mental impairments.

Profile II, Mildly Depressed and Mildly Cognitively Impaired: Profile II has mild depressive symptoms. This profile has mild cognitive impairments, indicated by incorrect responses to cognitive evaluation items on arithmetic ability and short-term memory. This profile has no physical impairments.

Profile III, Limited Physical Mobility: Profile III has limited mobility as a result of physical problems compromising lower and upper limbs. These physical problems affect the performance of social roles as there are difficulties with some IADLs. This profile has no mental impairments.

Profile IV, Moderate Cognitively Impaired, Limited Physical Mobility and Mildly Depressed: Profile IV has moderate cognitive impairments, indicated by incorrect responses to all cognitive evaluation items, apart from one item on short-term memory. This profile, however, preserves a minimum level of cognitive function as it was not necessary to use proxy respondents to carry on the interview. Performance of social roles is compromised as there are difficulties with many IADLs. Profile IV has also mild depressive symptoms.

Profile V, Severe Physically Impaired, Severe Depressed and Mildly Cognitively Impaired: Profile V has severe physical mobility, ADL and IADL impairments. This profile has severe depressive symptoms. Profile V also has mild cognitive impairments, indicated by incorrect responses to cognitive evaluation items on orientation

to time, arithmetic ability and short-term memory. Performance of personal care and social roles are heavily compromised.

Profile VI, Substantially Impaired: Profile VI has severe cognitive impairment, indicated by missing responses to all cognitive evaluation items. It means that it was not possible to perform the cognitive screening test and that it was necessary to use proxy respondents during the interview. This profile has also severe physical mobility, ADL and IADL impairments. Emotional domain was not evaluated as Geriatric Depression Scale can not be applied to proxy respondents. Performance of personal care and social roles are heavily compromised.

Active life expectancy

We used the GoM model to incorporate the various domains of health on estimates of active life expectancy among older persons living in SABE urban areas. As discussed above, in the GoM model, the structural parameter, λ_{kjl} , and the association parameter, g_{ik} , are consistently estimated. A consequence of this property is that the weighed moments are consistent estimators of population moments, under the assumption that the sample weights are based on a probability mechanism independent of the inference process of λ_{kjl} and g_{ik} .

The active life expectancy and the life expectancy in the functioning profile were estimated in two stages. Firstly we calculated the weighted means of the association parameters of each functioning profile, \bar{g}_k , to get an approximation its prevalence in the population. Secondly we used these prevalences to stratify the functions of the life table according to functioning profiles described above and hence getting an additive desegregation of life expectancy in to active life expectancy and life expectancy in the functioning profile.

Tables 3.1A-F present total life expectancy and life expectancy in each functioning profile for men and women. Tables 3.2A-F present total life expectancy and proportion remaining life time in each functioning profile. For analytical purposes the functioning profiles were divided in two groups. The first groups profiles without ADL impairments and was named “mild disabilities”. The second groups profiles with one or more ADL impairments and was named “moderate or severe disabilities”.

Women live longer than men in the six urban areas in Latin America and the Caribbean included in the present analysis. Among women, life expectancy at age 60 ranges from 23.59 years in Bridgetown to 22.04 years in Buenos Aires. Among men, life expectancy at age 60 ranges from 20.50 years in Havana to 17.42 years in Buenos Aires.

However the survivorship difference between women and men decreases with

age. Montevideo presents the highest survivorship differential, Mexico DF the lowest. At age 60, the survivorship difference by sex ranges from 5.34 years in Montevideo to 1.92 years in Mexico DF. At age 85, it decreases to 1.34 years and 0.14 years, respectively.

Although life expectancies at age 60 are similar in SABE urban areas, active life expectancies vary remarkably. Among women, active life expectancy at age 60 ranges from 9.96 years in Bridgetown to 5.78 years in Havana. Among men, active life expectancy at age 60 ranges from 9.85 years in Montevideo to 7.75 years in Buenos Aires (Graph 2 in annex)

Older people living in SABE areas can expect to live a significant part of their remaining life time with disabilities. Among women at age 60, this ranges from 74.50% of their remaining life time in Havana to 57.77% in Bridgetown. Among men at age 60, it ranges from 57.65% of their remaining life time in Mexico DF to 43.96% in Montevideo (Graph 3A-F in annex).

Most of the remaining life time with disabilities will be lived in functioning states involving moderate or severe disabilities compromising at least one Activity of Daily Living. This trend is observed even from young ages – from age 60 among men and women in Sao Paulo and Havana and from age 65 among women in Bridgetown. The exceptions are women in Buenos Aires DF, Mexico DF and men in Bridgetown, where most of the remaining time with disabilities will be lived with mild disabilities. Both the part of the remaining life time with disabilities and the part of the remaining life time with moderate or severe disabilities increase with age (Graph 4A-F in annex).

In all study areas, longer life is not synonymous with better functioning for older women, compared with men. Despite higher life expectancy at each age, women have lower proportion of remaining life time without disabilities than men. Havana presents the highest functioning differential by sex, Mexico DF the lowest. In Havana the proportion of remaining life time without disabilities among men is approximately two times higher than among women in all age groups. In Montevideo, it is approximately 15%.

Besides longer life with disabilities, women have longer life than men with moderate or severe disabilities. Bridgetown presents the highest functioning differential by level of impairment, Sao Paulo the lowest. In Bridgetown the proportion of remaining life time with disabilities compromising at least one Activity of Daily Living among men is about 50% lower than among women in all age groups. In Bridgetown, it is roughly 15%.

Women also have longer life with mild disabilities than men. The exceptions are Bridgetown, Mexico DF and Havana (from age 80), where mild disabilities include profiles in which prevalence among men is at least 20% higher than among women. This is the

case of profiles involving moderate cognitive deficit as Profile III in Bridgetown and Mexico DF, and Profile II in Havana (from age 80).

The decomposition of life expectancy with disability into profiles combining cognitive, emotional and physical domains of health of older persons complements the information on the level of disability with information on the nature of the impairments of these individuals experience (Graph 5A-F in annex)

Active life expectancy represents functional changes for survivors at all ages after 60. Because disability is more prevalent at later ages, the decomposition of life expectancy according to functioning profiles will change with age. With SABE data it was possible to identify three patterns of variation with age of: a) life expectancy in a given functioning profile; b) proportion of remaining life time in a given functioning profile.

These three patterns are summarized in Box 1. The first column describes the urban areas from SABE included in the analysis. The column “Group 1” presents the functioning profiles in which life expectancy in the functioning profile and proportion of remaining lifetime in the functioning profile decrease with age. The column “Group 2” presents the functioning profiles in which life expectancy in the functioning profile decreases with age, whereas the proportion of remaining lifetime in the functioning profile increases with age. The column “Group 3” presents the functioning profiles in which life expectancy in the functioning profile and proportion of remaining lifetime in the functioning profile increase with age.

Box 1

SABE urban area	Group 1 Decreasing DLE and %DLE	Group 2 Decreasing DLE and increasing %DLE	Group 3 Increasing DLE and %DLE
Buenos Aires DF	I, II, III _m	III _w , IV, V	VI
Bridgetown	I, II _w	II _m , III, IV, V _m	V _w
Sao Paulo	I, II, IV _w	III, IV _m	V
Havana	I, II	III, IV	V
Mexico DF	I, II _w	II _m , III, IV, V	VI
Montevideo	I, II	III, IV, V	-

Among functioning profiles from Group 1, rate of functional loss and life expectancy decrease with age, so both life expectancy in the functioning profile and proportion of remaining lifetime in the functioning profile will decrease with age. This group includes profiles either without impairments (Profile I in all countries) or with little

impairments. The exception is Profile IV among men in Sao Paulo, which is highly impaired.

Among profiles from Group 2, rate of functional loss increases with age. As life expectancy decreases with age, there is a composition effect so that while life expectancy in the functioning profile will decrease with age, proportion of remaining life time in the functioning profile will increase with age. This trend is observed in the majority of profiles.

Finally, among profiles from Group 3, the rate of functional loss increases with age. However here even though life expectancy decreases with age, the rate of functional loss is high enough to compensate the mortality trend and both life expectancy in the functioning profile and proportion of remaining lifetime in the functioning profile will increase with age. This group includes highly impaired profiles (Profile VI for Buenos Aires DF and Mexico DF and Profile V for all others). In The exception is Montevideo, where the highly impaired profile (Profile V) follows Group 2 trend.

In a synthetic cohort perspective, prevalence of a given functioning profile at each age would represent a net flow from all movements between functioning profiles. According to this perspective, as the functioning status of older persons during ageing process deteriorates, individuals would transit from profiles with mild impairments to profiles with moderate or severe impairments. In Buenos Aires DF, Profile III is characterized by moderate physical impairments and Profile V is characterized by severe physical impairments, severe depression and mild cognitive impairments. Decreases in the rate of functional loss among older persons in Profile III at later ages could be a result of a deterioration of functioning status with age of people in Profile III, who would transit to a more impaired profile as Profile V, what would produce increases in the rate of functional loss of Profile V.

Other evidence that longer life does not mean better functioning for older women among SABE respondents is the fact that men do expect to live a higher proportion of remaining life time with disability than women in one profile only in each urban area. In all areas this profile is characterised by moderate cognitive deterioration _Profile II in Buenos Aires DF, Profile III in Bridgetown, Sao Paulo and Mexico DF and Profile IV in Montevideo. The exception is Havana, where Profile III represents severe physical impairments.

DISCUSSION

Characterizing health and functioning among older persons in Latin America and the Caribbean is an important empirical question given its unprecedented and rapid

population ageing process, especially considering the fiscal limitation of the national budgets in the region. Decomposing life expectancy into functioning states combining cognitive, emotional and physical domains of health complements the information on the total length of life with information on the quality of life by explicitly considering the level of disability and the nature of the impairments experienced by population.

We used Grade of Membership models to summarize the variation in 55 measures of cognitive, emotional and physical performance, ADL and IADL impairments. Among SABE respondents, this variation was described by five functioning profiles in Bridgetown, Sao Paulo and Montevideo and by six functioning profiles in Buenos Aires DF and Mexico DF. In all urban areas Profile I was the active profile, characterized by no or little impairment, while Profile V or Profile VI (in Buenos Aires DF and Mexico DF) was the frail profile, characterized by severe impairments. The multidimensional functioning profiles follow the hierarchy of functional loss described in literature (HOEYMAN et al., 1996; MANTON and STALLARD, 1991). Functional loss progress from a profile with no or little impairment to profiles with various combinations of cognitive, emotional and physical impairments to profiles with IADL impairment and, finally, to profiles with IADL and ADL impairment.

We conclude that life expectancies are similar, but active life expectancies vary substantially in the selected areas. Results from these cross sectional results would, if equally applicable longitudinally, imply that SABE respondents would expect to live an important part of their remaining life time with disabilities and that most of the time with disabilities involves compromise of at least one ADL. Despite a higher life expectancy at each age, women have a lower proportion of remaining life time without disabilities than men. Women have longer life with disabilities in profiles characterized both by mild disabilities and by moderate or severe disabilities. Men have longer life with disability than women only in one profile and in all areas this profile involves moderate cognitive deterioration, except for Cuba, where it involves moderate physical impairments.

The active life expectancies presented here were estimated applying unistate life table methodology, ignoring the possibility of an older person with disability returning to an active state. Empirical evidence for the US suggests that older persons disabled at age 65 would expect to live more than 70% of their remaining life time in an independent way (ROGERS, ROGERS et al. , 1989). As SABE survey data refers to one period in time, we could not estimate transitions between the multidimensional functioning states. Therefore our results might be, in some extent, underestimating active life expectancies in the area.

What of the gender differences reported? The fact that men have longer life

without disabilities than women could be a result of either higher risk of functional loss among women (incidence), or of longer survival with disability among women than men, which would influence prevalence. Empirical evidence suggests that in the case of England and Wales (Bebbington, 1988) and of the United States (Manton, 1988; Rogers, Rogers and Branch, 1989.), women live proportionally more time with disability than men due to higher survivorship among women. In the present analysis, however, it is not possible to make any speculations as we do not have information on the incidence of the multidimensional disability profile by sex, again, because SABE survey refers to one period in time.

Do these results mean that health and functioning in Havana (Women) and Mexico DF (Men) is more deteriorated than in Montevideo (Women and Men)? Not necessarily. The Active life expectancies presented here were based on prevalence rates of self-reported measures and it is possible that there are country differences in reporting which do not reflect 'real' differences in health and function. Empirical evidence suggests that self-reported measures could be affected by various factors, such as the socio-economic situation and educational levels, availability and expansion of medical care system, availability and generosity of disability programs, expectations either about level of performance of an individual and about the deviation from a supposed normal standard that would characterize disability. However some of these factors could be incorporated in future analysis such as socio-economic circumstances, educational levels and access to health services. An additional limitation of the analysis, as discussed above, is that as the SABE data are cross sectional, we cannot examine the extent to which differences between countries reflect differences in incidence or differences in survival with functional loss.

Active life expectancy estimates presented here represent the current health and functioning status of older persons. They do not give insights on the functioning dynamic, (e.g. transitions between functioning states or changes on disability severity) or on the functional changes in different birth cohorts or in different periods of time. Life expectancy and life expectancy in the multidimensional functioning profiles were estimated under the assumption that mortality rates and morbidity rates will remain constant in the recent past so that the observed cross sectional estimates are identical to the cohort estimates. As either mortality rates or morbidity rates could vary throughout time, our estimates may not reflect the health and functioning of the current cohort of older persons. Analysis of functioning dynamics would require longitudinal databases covering long period of time. This type of data are not yet available in the region.

In some countries, such as the United States, there is evidence that health

expectancies are growing roughly as fast as total life expectancies, and that the health status of the population is improving (CRIMMINS et al., 1997). In others, such as the United Kingdom, as life expectancy has risen, the expected number of years with disability of any type or degree has increased as a proportion of total life expectancy among men and has remained more or less static among women – although these estimates come from cross sectional analyses (BONE et al. 1995). In Latin America and the Caribbean, there is currently no consolidated evidence on the associations between gains in life expectancy and improvements on functioning and health of older persons. However since the distribution of the elderly population by health status depends partly on early life conditions, and since the improvements in survival during the early life were attributed to medical innovations and were not accompanied by changes in social-economic conditions, it is possible that the health status will deteriorate progressively as the cohorts who experienced the decline of mortality become aged (Palloni, Pinto-Aguirre et al. 2002).

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ANNEX

**Table 2A. Grade of Membership Pure-Type Profiles Response Probabilities
and Distinguishing Characteristics (Bold)
MMSE, GDS, Mobility measures, ADL and IADL**

Buenos Aires DF, Argentina

Measure	Marginal Frequency (N=1037)	Pure-Type Response Probabilities					
		I	II	III	IV	V	VI
Month	0.04	0.00	0.00	0.00	0.36	0.08	0.00
Day of the month	0.16	0.00	0.21	0.09	0.92	0.18	0.00
Year	0.02	0.00	0.00	0.00	0.10	0.13	0.04
Day of the week	0.05	0.00	0.00	0.00	0.51	0.00	0.00
Tree	0.01	0.00	0.00	0.00	0.09	0.00	0.00
Table	0.03	0.00	0.00	0.00	0.25	0.01	0.00
Dog	0.02	0.00	0.00	0.00	0.18	0.00	0.00
Reverse order digits	0.49	0.15	1.00	0.22	1.00	0.57	0.00
Takes the paper	0.09	0.05	0.11	0.07	0.16	0.17	0.00
Folds paper with both hands	0.02	0.00	0.00	0.00	0.23	0.01	0.00
Place paper over his/her legs	0.04	0.00	0.00	0.00	0.40	0.00	0.00
Remembered tree	0.18	0.00	0.41	0.11	0.45	0.29	0.00
Remembered table	0.34	0.17	0.67	0.20	0.42	0.46	0.00
Remembered dog	0.23	0.00	0.63	0.00	0.60	0.25	0.00
Drawing	0.11	0.01	0.00	0.09	0.68	0.06	0.00
Satisfied with life	0.15	0.00	0.00	0.00	0.56	0.88	0.00
Dropped activities and interests	0.20	0.00	0.38	0.00	0.09	1.00	0.00
Life is empty	0.16	0.00	0.04	0.00	0.79	0.85	0.00
Felt bored	0.18	0.00	0.11	0.00	0.87	0.95	0.00
Good spirits most of the time	0.13	0.00	0.00	0.00	0.85	0.57	0.00
Afraid of something bad	0.18	0.00	0.48	0.00	0.00	0.79	0.00
Happy most of the time	0.74	1.00	1.00	1.00	0.00	0.17	0.00
Felt helpless	0.10	0.00	0.00	0.00	0.17	0.85	0.00
Preferred to stay at home instead of going out	0.41	0.00	1.00	0.04	1.00	1.00	0.00
Felt that have more memory problems	0.07	0.00	0.12	0.00	0.14	0.36	0.00
Wonderful to be alive	0.08	0.00	0.00	0.00	0.43	0.37	0.00
Felt useless	0.09	0.00	0.00	0.00	0.00	0.99	0.00
Felt full of energy	0.10	0.00	0.00	0.00	0.00	0.98	0.00
Felt present situation was hopeless	0.20	0.00	0.13	0.00	0.69	0.86	0.00
Other people better off	0.28	0.17	0.33	0.02	0.47	0.95	0.00
Running 1.5 km	0.95	0.88	1.00	1.00	0.97	1.00	1.00
Walking several hundred yards	0.36	0.00	0.00	1.00	0.93	1.00	0.74
Walking one hundred yards	0.15	0.00	0.00	0.22	0.00	0.98	0.56
Sitting for two hours	0.16	0.00	0.31	0.13	0.00	0.70	0.28
Getting up after sitting for long periods	0.31	0.00	0.29	0.70	0.00	1.00	0.43
Climbing several flights of stairs without resting	0.80	0.47	1.00	1.00	1.00	0.98	1.00
Climbing one flight of stairs without resting	0.32	0.00	0.00	1.00	0.86	1.00	0.74
Stooping, kneeling or crouching	0.44	0.00	0.32	1.00	1.00	1.00	0.57
Reaching or extending arms above shoulder level	0.13	0.00	0.00	0.17	0.29	0.60	0.44
Pulling or pushing large objects	0.30	0.00	0.00	0.80	1.00	0.90	0.70
Lifting or carrying weights over 5kgs	0.39	0.00	0.00	1.00	1.00	1.00	0.75
Difficulty picking up a coin	0.07	0.00	0.00	0.00	0.31	0.35	0.23
Walking across a room	0.06	0.00	0.00	0.00	0.00	0.81	0.17
Dressing	0.10	0.00	0.00	0.04	0.00	0.76	0.42
Bathing	0.08	0.00	0.00	0.00	0.00	0.73	0.53
Eating	0.03	0.00	0.00	0.00	0.00	0.17	0.25
Getting in and out of bed	0.08	0.00	0.00	0.00	0.00	0.78	0.27
Toileting	0.04	0.00	0.00	0.00	0.00	0.43	0.21
Preparing hot meal	0.14	0.00	0.00	0.33	0.00	0.65	0.66
Managing money	0.07	0.00	0.00	0.00	0.00	0.39	0.75
Shopping for groceries	0.17	0.00	0.00	0.29	0.00	1.00	0.83
Making telephone calls	0.11	0.00	0.00	0.00	0.36	0.46	0.71
Doing light housework	0.25	0.00	0.00	0.63	0.28	1.00	0.74
Doing heavy housework	0.43	0.00	0.00	1.00	1.00	1.00	0.87
Taking medications	0.14	0.15	0.00	0.00	0.44	0.20	0.61

Note: MMSE = mini mental state examination; GDS = Geriatric depression scale; ADL = activities of daily living; IADL = instrumental activities of daily living

**Table 2B. Grade of Membership Pure-Type Profiles Response Probabilities
and Distinguishing Characteristics (Bold)**
MMSE, GDS, Mobility measures, ADL and IADL
Bridgetown, Barbados

Measure	Marginal Frequency (N=1478)	Pure-Type Response Probabilities				
		I	II	III	IV	V
Month	0.02	0.00	0.00	0.10	0.00	0.17
Day of the month	0.11	0.00	0.00	0.46	0.16	0.07
Year	0.03	0.00	0.00	0.13	0.03	0.15
Day of the week	0.02	0.00	0.00	0.07	0.02	0.10
Tree	0.01	0.00	0.00	0.06	0.00	0.05
Table	0.01	0.00	0.00	0.01	0.00	0.13
Dog	0.00	0.00	0.00	0.01	0.00	0.10
Reverse order digits	0.28	0.00	0.00	1.00	0.50	0.00
Takes the paper	0.04	0.00	0.00	0.20	0.05	0.03
Folds paper with both hands	0.02	0.00	0.00	0.07	0.04	0.04
Place paper over his/her legs	0.02	0.00	0.00	0.00	0.00	0.00
Remembered tree	0.16	0.00	0.00	1.00	0.03	0.00
Remembered table	0.26	0.00	0.00	1.00	0.23	0.00
Remembered dog	0.16	0.00	0.00	1.00	0.00	0.00
Drawing	0.12	0.00	0.02	0.29	0.33	0.02
Satisfied with life	0.05	0.00	0.38	0.00	0.00	0.00
Dropped activities and interests	0.23	0.00	0.53	0.00	0.65	0.00
Life is empty	0.07	0.00	0.53	0.00	0.00	0.00
Felt bored	0.12	0.00	0.87	0.00	0.00	0.00
Good spirits most of the time	0.05	0.00	0.37	0.00	0.00	0.00
Afraid of something bad	0.04	0.00	0.31	0.00	0.00	0.00
Happy most of the time	0.92	1.00	0.67	1.00	1.00	0.00
Felt helpless	0.06	0.00	0.31	0.00	0.09	0.00
Preferred to stay at home instead of going out	0.51	0.37	0.81	0.47	0.77	0.00
Felt that have more memory problems	0.04	0.00	0.24	0.00	0.02	0.03
Wonderful to be alive	0.01	0.00	0.06	0.00	0.00	0.00
Felt useless	0.03	0.00	0.18	0.00	0.02	0.00
Felt full of energy	0.20	0.00	0.65	0.00	0.51	0.00
Felt present situation was hopeless	0.03	0.00	0.19	0.00	0.00	0.00
Other people better off	0.15	0.00	0.21	0.46	0.19	0.00
Running 1.5 km	0.90	0.86	1.00	0.68	1.00	1.00
Walking several hundred yards	0.34	0.00	0.45	0.00	1.00	1.00
Walking one hundred yards	0.17	0.00	0.00	0.00	0.97	0.68
Sitting for two hours	0.09	0.00	0.19	0.00	0.27	0.15
Getting up after sitting for long periods	0.27	0.00	0.63	0.00	0.81	0.44
Climbing several flights of stairs without resting	0.51	0.12	0.99	0.18	0.99	0.94
Climbing one flight of stairs without resting	0.24	0.00	0.00	0.00	0.99	0.76
Stooping, kneeling or crouching	0.38	0.07	0.70	0.00	1.00	0.65
Reaching or extending arms above shoulder level	0.10	0.00	0.01	0.00	0.41	0.30
Pulling or pushing large objects	0.17	0.00	0.00	0.00	0.85	0.67
Lifting or carrying weights over 5kgs	0.27	0.00	0.00	0.00	1.00	0.90
Difficulty picking up a coin	0.06	0.00	0.06	0.00	0.21	0.29
Walking across a room	0.09	0.00	0.00	0.00	0.39	0.40
Dressing	0.06	0.00	0.00	0.00	0.16	0.67
Bathing	0.06	0.00	0.00	0.00	0.18	0.66
Eating	0.04	0.00	0.00	0.00	0.09	0.54
Getting in and out of bed	0.04	0.00	0.00	0.00	0.11	0.44
Toileting	0.03	0.00	0.00	0.00	0.09	0.51
Preparing hot meal	0.17	0.00	0.00	0.00	0.64	1.00
Managing money	0.08	0.00	0.00	0.00	0.25	0.95
Shopping for groceries	0.27	0.00	0.00	0.00	1.00	1.00
Making telephone calls	0.09	0.00	0.00	0.14	0.18	0.90
Doing light housework	0.17	0.00	0.00	0.00	0.73	0.88
Doing heavy housework	0.33	0.00	0.00	0.00	1.00	1.00
Taking medications	0.15	0.11	0.00	0.34	0.14	0.87

Note: MMSE = mini mental state examination; GDS = Geriatric depression scale; ADL = activities of daily living; IADL = instrumental activities of daily living

**Table 2C. Grade of Membership Pure-Type Profiles Response Probabilities
and Distinguishing Characteristics (Bold)**
MMSE, GDS, Mobility measures, ADL and IADL
Sao Paulo, Brazil

Measure	Marginal Frequency (N=2113)	Pure-Type Response Probabilities				
		I	II	III	IV	V
Month	0.06	0.00	0.00	0.43	0.00	0.00
Day of the month	0.18	0.07	0.10	0.73	0.13	0.00
Year	0.09	0.00	0.00	0.62	0.00	0.00
Day of the week	0.03	0.00	0.00	0.00	0.00	0.00
Tree	0.01	0.00	0.00	0.06	0.00	0.04
Table	0.02	0.00	0.00	0.00	0.00	0.00
Dog	0.01	0.00	0.00	0.07	0.00	0.00
Reverse order digits	0.45	0.37	0.28	1.00	0.51	0.00
Takes the paper	0.09	0.07	0.06	0.30	0.06	0.00
Folds paper with both hands	0.05	0.00	0.00	0.35	0.00	0.00
Place paper over his/her legs	0.09	0.05	0.00	0.47	0.00	0.00
Remembered tree	0.22	0.09	0.00	1.00	0.12	0.00
Remembered table	0.29	0.29	0.00	0.98	0.20	0.00
Remembered dog	0.21	0.14	0.00	0.89	0.13	0.00
Drawing	0.12	0.00	0.00	0.68	0.08	0.00
Satisfied with life	0.13	0.00	0.00	0.00	0.81	0.00
Dropped activities and interests	0.18	0.00	0.00	0.00	1.00	0.00
Life is empty	0.26	0.13	0.00	0.00	1.00	0.00
Felt bored	0.25	0.11	0.00	0.00	1.00	0.00
Good spirits most of the time	0.14	0.00	0.00	0.00	0.86	0.00
Afraid of something bad	0.27	0.25	0.00	0.00	1.00	0.00
Happy most of the time	0.73	1.00	1.00	1.00	0.20	0.00
Felt helpless	0.10	0.00	0.00	0.00	0.63	0.00
Preferred to stay at home instead of going out	0.37	0.24	0.46	0.16	0.93	0.00
Felt that have more memory problems	0.10	0.04	0.00	0.00	0.52	0.00
Wonderful to be alive	0.03	0.00	0.00	0.00	0.18	0.00
Felt useless	0.11	0.00	0.00	0.00	0.73	0.00
Felt full of energy	0.15	0.00	0.00	0.00	0.92	0.00
Felt present situation was hopeless	0.15	0.00	0.00	0.00	0.88	0.00
Other people better off	0.27	0.33	0.00	0.00	0.84	0.00
Running 1.5 km	0.92	0.80	1.00	1.00	1.00	1.00
Walking several hundred yards	0.35	0.00	0.00	1.00	1.00	0.86
Walking one hundred yards	0.17	0.00	0.00	0.30	0.42	0.70
Sitting for two hours	0.22	0.00	0.48	0.00	0.45	0.29
Getting up after sitting for long periods	0.36	0.00	0.58	0.00	1.00	0.72
Climbing several flights of stairs without resting	0.64	0.00	1.00	1.00	1.00	1.00
Climbing one flight of stairs without resting	0.33	0.00	0.09	1.00	0.90	0.78
Stooping, kneeling or crouching	0.51	0.00	1.00	0.80	1.00	0.77
Reaching or extending arms above shoulder level	0.15	0.00	0.13	0.00	0.52	0.41
Pulling or pushing large objects	0.34	0.00	0.20	0.49	1.00	0.84
Lifting or carrying weights over 5kgs	0.39	0.00	0.26	0.72	1.00	0.88
Difficulty picking up a coin	0.08	0.00	0.00	0.00	0.25	0.34
Walking across a room	0.08	0.00	0.00	0.06	0.14	0.45
Dressing	0.17	0.00	0.01	0.13	0.62	0.53
Bathing	0.09	0.00	0.00	0.00	0.24	0.52
Eating	0.05	0.00	0.00	0.09	0.04	0.33
Getting in and out of bed	0.11	0.00	0.00	0.00	0.43	0.42
Toileting	0.07	0.00	0.00	0.00	0.15	0.39
Preparing hot meal	0.27	0.07	0.00	1.00	0.06	0.80
Managing money	0.17	0.00	0.00	0.44	0.14	0.84
Shopping for groceries	0.37	0.00	0.00	1.00	0.85	1.00
Making telephone calls	0.22	0.00	0.00	1.00	0.00	0.82
Doing light housework	0.28	0.11	0.00	0.96	0.20	0.70
Doing heavy housework	0.54	0.21	0.36	1.00	0.93	0.96
Taking medications	0.17	0.00	0.00	0.65	0.00	0.82

Note: MMSE = mini mental state examination; GDS = Geriatric depression scale; ADL = activities of daily living; IADL = instrumental activities of daily living

Table 2D. Grade of Membership Pure-Type Profiles Response Probabilities and Distinguishing Characteristics (Bold)

MMSE, GDS, Mobility measures, ADL and IADL

Havana, Cuba

Measure	Marginal Frequency (N=1905)	Pure-Type Response Probabilities				
		I	II	III	IV	V
Month	0.02	0.00	0.07	0.00	0.01	0.07
Day of the month	0.10	0.00	0.33	0.00	0.07	0.03
Year	0.03	0.00	0.07	0.00	0.05	0.12
Day of the week	0.06	0.02	0.12	0.00	0.12	0.08
Tree	0.01	0.00	0.04	0.02	0.00	0.07
Table	0.01	0.00	0.04	0.00	0.01	0.06
Dog	0.01	0.00	0.02	0.00	0.02	0.05
Reverse order digits	0.45	0.19	0.92	0.24	0.74	0.00
Takes the paper	0.09	0.06	0.13	0.05	0.27	0.00
Folds paper with both hands	0.03	0.00	0.05	0.00	0.08	0.02
Place paper over his/her legs	0.03	0.01	0.03	0.00	0.11	0.03
Remembered tree	0.19	0.00	0.49	0.16	0.17	0.02
Remembered table	0.25	0.00	0.82	0.00	0.14	0.00
Remembered dog	0.25	0.07	0.53	0.31	0.17	0.00
Drawing	0.09	0.02	0.13	0.08	0.29	0.03
Satisfied with life	0.16	0.00	0.00	0.10	0.79	0.00
Dropped activities and interests	0.21	0.00	0.21	0.19	0.72	0.00
Life is empty	0.23	0.00	0.26	0.00	1.00	0.00
Felt bored	0.23	0.00	0.22	0.00	1.00	0.00
Good spirits most of the time	0.16	0.00	0.05	0.00	1.00	0.00
Afraid of something bad	0.22	0.00	0.24	0.26	0.67	0.00
Happy most of the time	0.68	1.00	0.82	1.00	0.00	0.00
Felt helpless	0.12	0.00	0.00	0.00	0.72	0.00
Preferred to stay at home instead of going out	0.47	0.02	1.00	0.52	0.61	0.00
Felt that have more memory problems	0.13	0.00	0.20	0.07	0.41	0.00
Wonderful to be alive	0.05	0.03	0.00	0.00	0.34	0.00
Felt useless	0.12	0.00	0.00	0.03	0.68	0.00
Felt full of energy	0.15	0.00	0.06	0.08	0.69	0.00
Felt present situation was hopeless	0.11	0.00	0.00	0.00	0.93	0.00
Other people better off	0.21	0.00	0.35	0.00	0.93	0.00
Running 1.5 km	0.87	0.60	1.00	1.00	1.00	0.99
Walking several hundred yards	0.34	0.00	0.00	0.83	0.64	0.82
Walking one hundred yards	0.15	0.00	0.00	0.22	0.40	0.53
Sitting for two hours	0.20	0.00	0.13	0.46	0.24	0.33
Getting up after sitting for long periods	0.42	0.00	0.60	0.73	0.44	0.61
Climbing several flights of stairs without resting	0.63	0.00	0.97	1.00	0.69	1.00
Climbing one flight of stairs without resting	0.30	0.00	0.06	0.54	0.72	0.80
Stooping, kneeling or crouching	0.51	0.00	0.47	1.00	0.71	0.78
Reaching or extending arms above shoulder level	0.14	0.00	0.02	0.20	0.38	0.37
Pulling or pushing large objects	0.22	0.00	0.00	0.19	0.99	0.59
Lifting or carrying weights over 5kgs	0.35	0.00	0.23	0.43	1.00	0.74
Difficulty picking up a coin	0.06	0.00	0.00	0.00	0.20	0.35
Walking across a room	0.08	0.00	0.00	0.08	0.22	0.36
Dressing	0.11	0.00	0.00	0.14	0.24	0.45
Bathing	0.09	0.00	0.00	0.04	0.25	0.52
Eating	0.05	0.00	0.00	0.00	0.10	0.34
Getting in and out of bed	0.13	0.00	0.00	0.27	0.24	0.44
Toileting	0.06	0.00	0.00	0.03	0.13	0.36
Preparing hot meal	0.21	0.00	0.00	0.42	0.27	0.83
Managing money	0.09	0.00	0.00	0.00	0.16	0.69
Shopping for groceries	0.27	0.00	0.00	0.37	0.91	1.00
Making telephone calls	0.20	0.01	0.14	0.01	0.61	0.80
Doing light housework	0.20	0.00	0.00	0.38	0.46	0.73
Doing heavy housework	0.38	0.00	0.00	0.99	0.60	0.91
Taking medications	0.13	0.08	0.00	0.11	0.19	0.67

Note: MMSE = mini mental state examination; GDS = Geriatric depression scale; ADL = activities of daily living; IADL = instrumental activities of daily living

**Table 2E. Grade of Membership Pure-Type Profiles Response Probabilities
and Distinguishing Characteristics (Bold)
MMSE, GDS, Mobility measures, ADL and IADL
Mexico DF, Mexico**

Measure	Marginal Frequency (N=1188)	Pure-Type Response Probabilities					
		I	II	III	IV	V	VI
Month	0.04	0.00	0.00	0.43	0.00	0.05	0.00
Day of the month	0.17	0.00	0.32	0.96	0.00	0.29	0.00
Year	0.05	0.00	0.00	0.52	0.00	0.00	0.00
Day of the week	0.05	0.00	0.00	0.49	0.00	0.11	0.00
Tree	0.01	0.00	0.00	0.13	0.00	0.00	0.00
Table	0.02	0.00	0.00	0.22	0.00	0.00	0.00
Dog	0.02	0.00	0.00	0.28	0.00	0.00	0.00
Reverse order digits	0.60	0.38	1.00	1.00	0.77	0.58	0.00
Takes the paper	0.13	0.00	0.21	0.40	0.24	0.17	0.00
Folds paper with both hands	0.08	0.00	0.00	0.61	0.00	0.17	0.00
Place paper over his/her legs	0.07	0.00	0.00	0.57	0.00	0.17	0.00
Remembered tree	0.20	0.00	0.61	0.90	0.08	0.08	0.00
Remembered table	0.32	0.13	0.45	1.00	0.42	0.25	0.00
Remembered dog	0.24	0.00	0.34	1.00	0.32	0.15	0.00
Drawing	0.12	0.00	0.00	0.72	0.16	0.29	0.00
Satisfied with life	0.08	0.00	0.00	0.00	0.00	0.86	0.00
Dropped activities and interests	0.22	0.00	0.82	0.00	0.00	0.92	0.00
Life is empty	0.22	0.00	0.96	0.00	0.00	1.00	0.00
Felt bored	0.20	0.00	1.00	0.00	0.00	1.00	0.00
Good spirits most of the time	0.11	0.00	0.00	0.00	0.00	0.93	0.00
Afraid of something bad	0.26	0.00	1.00	0.53	0.00	0.74	0.00
Happy most of the time	0.80	1.00	1.00	1.00	1.00	0.00	0.00
Felt helpless	0.15	0.00	0.52	0.00	0.00	1.00	0.00
Preferred to stay at home instead of going out	0.41	0.18	1.00	0.35	0.29	1.00	0.00
Felt that have more memory problems	0.19	0.00	0.89	0.00	0.00	0.49	0.00
Wonderful to be alive	0.04	0.00	0.00	0.09	0.00	0.42	0.00
Felt useless	0.14	0.00	0.32	0.00	0.00	1.00	0.00
Felt full of energy	0.15	0.00	0.26	0.10	0.00	1.00	0.00
Felt present situation was hopeless	0.15	0.00	0.47	0.17	0.00	0.96	0.00
Other people better off	0.26	0.00	1.00	0.31	0.00	0.76	0.00
Running 1.5 km	0.76	0.56	1.00	0.40	1.00	1.00	0.90
Walking several hundred yards	0.34	0.00	0.22	0.00	1.00	1.00	0.70
Walking one hundred yards	0.14	0.00	0.00	0.00	0.20	0.99	0.40
Sitting for two hours	0.26	0.00	0.53	0.00	0.63	0.67	0.24
Getting up after sitting for long periods	0.42	0.00	0.98	0.00	1.00	0.92	0.52
Climbing several flights of stairs without resting	0.64	0.36	1.00	0.01	1.00	1.00	0.81
Climbing one flight of stairs without resting	0.28	0.00	0.10	0.00	1.00	1.00	0.53
Stooping, kneeling or crouching	0.50	0.05	1.00	0.00	1.00	1.00	0.69
Reaching or extending arms above shoulder level	0.18	0.00	0.14	0.00	0.45	0.79	0.36
Pulling or pushing large objects	0.36	0.00	0.28	0.00	1.00	1.00	0.71
Lifting or carrying weights over 5kgs	0.34	0.00	0.18	0.00	1.00	1.00	0.66
Difficulty picking up a coin	0.11	0.00	0.00	0.00	0.26	0.42	0.35
Walking across a room	0.06	0.00	0.00	0.00	0.00	0.51	0.28
Dressing	0.11	0.00	0.00	0.00	0.10	0.87	0.36
Bathing	0.07	0.00	0.00	0.00	0.00	0.54	0.36
Eating	0.04	0.00	0.00	0.00	0.00	0.22	0.24
Getting in and out of bed	0.09	0.00	0.00	0.00	0.00	0.96	0.31
Toileting	0.05	0.00	0.00	0.00	0.00	0.42	0.26
Preparing hot meal	0.17	0.00	0.00	0.00	0.55	0.30	0.62
Managing money	0.07	0.00	0.00	0.00	0.00	0.43	0.53
Shopping for groceries	0.19	0.00	0.00	0.00	0.62	0.53	0.61
Making telephone calls	0.15	0.00	0.00	0.48	0.15	0.52	0.57
Doing light housework	0.20	0.00	0.00	0.00	0.65	0.73	0.58
Doing heavy housework	0.33	0.00	0.00	0.00	1.00	1.00	0.77
Taking medications	0.08	0.00	0.00	0.10	0.13	0.16	0.51

Note: MMSE = mini mental state examination; GDS = Geriatric depression scale; ADL = activities of daily living; IADL = instrumental activities of daily living

**Table 2F. Grade of Membership Pure-Type Profiles Response Probabilities
and Distinguishing Characteristics (Bold)
MMSE, GDS, Mobility measures, ADL and IADL
Montevideo, Uruguay**

Measure	Marginal Frequency (N=1437)	Pure-Type Response Probabilities				
		I	II	III	IV	V
Month	0.02	0.00	0.00	0.00	0.59	0.00
Day of the month	0.11	0.05	0.05	0.12	0.69	0.18
Year	0.01	0.00	0.00	0.00	0.32	0.00
Day of the week	0.02	0.00	0.00	0.00	0.61	0.00
Tree	0.00	0.00	0.00	0.00	0.00	0.00
Table	0.00	0.00	0.00	0.00	0.00	0.00
Dog	0.00	0.00	0.00	0.00	0.00	0.01
Reverse order digits	0.42	0.34	0.30	0.54	0.43	0.71
Takes the paper	0.05	0.00	0.09	0.00	0.70	0.00
Folds paper with both hands	0.02	0.00	0.00	0.00	0.49	0.00
Place paper over his/her legs	0.05	0.00	0.05	0.00	0.52	0.09
Remembered tree	0.09	0.03	0.03	0.11	0.50	0.22
Remembered table	0.30	0.20	0.27	0.23	0.98	0.53
Remembered dog	0.20	0.18	0.09	0.15	0.64	0.31
Drawing	0.11	0.04	0.00	0.00	0.76	0.33
Satisfied with life	0.16	0.00	0.00	1.00	0.09	0.00
Dropped activities and interests	0.26	0.00	0.04	1.00	0.00	0.62
Life is empty	0.19	0.00	0.00	1.00	0.38	0.00
Felt bored	0.24	0.00	0.00	1.00	0.00	0.42
Good spirits most of the time	0.15	0.00	0.00	1.00	0.00	0.00
Afraid of something bad	0.22	0.00	0.00	1.00	0.00	0.38
Happy most of the time	0.78	1.00	1.00	0.00	0.00	1.00
Felt helpless	0.15	0.00	0.00	1.00	0.00	0.00
Preferred to stay at home instead of going out	0.48	0.21	0.65	1.00	0.00	0.75
Felt that have more memory problems	0.11	0.00	0.06	0.44	0.00	0.24
Wonderful to be alive	0.08	0.00	0.00	0.67	0.00	0.00
Felt useless	0.09	0.00	0.00	0.55	0.00	0.12
Felt full of energy	0.20	0.00	0.00	1.00	0.00	0.39
Felt present situation was hopeless	0.12	0.00	0.00	0.92	0.00	0.00
Other people better off	0.25	0.08	0.32	0.88	0.00	0.28
Running 1.5 km	0.91	0.83	1.00	1.00	0.82	1.00
Walking several hundred yards	0.34	0.00	0.40	0.65	0.00	1.00
Walking one hundred yards	0.11	0.00	0.00	0.00	0.00	0.85
Sitting for two hours	0.17	0.00	0.52	0.00	0.09	0.44
Getting up after sitting for long periods	0.35	0.00	1.00	0.00	0.00	1.00
Climbing several flights of stairs without resting	0.61	0.20	1.00	1.00	0.25	1.00
Climbing one flight of stairs without resting	0.27	0.00	0.42	0.20	0.00	1.00
Stooping, kneeling or crouching	0.39	0.00	1.00	0.12	0.00	1.00
Reaching or extending arms above shoulder level	0.15	0.00	0.00	0.00	0.22	0.78
Pulling or pushing large objects	0.23	0.00	0.00	0.11	0.22	1.00
Lifting or carrying weights over 5kgs	0.27	0.00	0.00	0.33	0.00	1.00
Difficulty picking up a coin	0.05	0.00	0.00	0.00	0.00	0.29
Walking across a room	0.05	0.00	0.00	0.00	0.01	0.31
Dressing	0.09	0.00	0.00	0.00	0.50	0.47
Bathing	0.05	0.00	0.00	0.00	0.00	0.28
Eating	0.02	0.00	0.00	0.00	0.16	0.11
Getting in and out of bed	0.08	0.00	0.00	0.00	0.03	0.48
Toileting	0.02	0.00	0.00	0.00	0.00	0.12
Preparing hot meal	0.11	0.00	0.00	0.00	0.90	0.44
Managing money	0.03	0.00	0.00	0.00	0.14	0.17
Shopping for groceries	0.12	0.00	0.00	0.00	0.27	0.72
Making telephone calls	0.04	0.00	0.00	0.04	0.38	0.14
Doing light housework	0.18	0.00	0.00	0.00	1.00	0.83
Doing heavy housework	0.32	0.14	0.00	0.00	1.00	1.00
Taking medications	0.16	0.20	0.07	0.03	0.75	0.16

Note: MMSE = mini mental state examination; GDS = Geriatric depression scale; ADL = activities of daily living; IADL = instrumental activities of daily living

Table 2A1. Grade of Membership Pure-Type Profiles Response Probabilities

and Distinguishing Characteristics (Bold)

Mini Mental State Examination Items

Buenos Aires DF, Argentina

Measure	Response	Marginal Frequency (N=1037)	Pure-Type Response Probabilities					
			I	II	III	IV	V	VI
Month	Correct	0.93	1.00	1.00	1.00	0.64	0.92	0.00
	Wrong	0.04	0.00	0.00	0.00	0.36	0.08	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	0.00	1.00
Day of the month	Correct	0.81	1.00	0.79	0.91	0.08	0.82	0.00
	Wrong	0.16	0.00	0.21	0.09	0.92	0.18	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	0.00	1.00
Year	Correct	0.95	1.00	1.00	1.00	0.90	0.87	0.00
	Wrong	0.02	0.00	0.00	0.00	0.10	0.13	0.04
	Missing	0.03	0.00	0.00	0.00	0.00	0.00	0.96
Day of the week	Correct	0.92	1.00	1.00	1.00	0.50	1.00	0.00
	Wrong	0.05	0.00	0.00	0.00	0.51	0.00	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	0.00	1.00
Tree	Correct	0.96	1.00	1.00	1.00	0.91	1.00	0.00
	Wrong	0.01	0.00	0.00	0.00	0.09	0.00	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	0.00	1.00
Table	Correct	0.94	1.00	1.00	1.00	0.75	0.99	0.00
	Wrong	0.03	0.00	0.00	0.00	0.25	0.01	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	0.00	1.00
Dog	Correct	0.95	1.00	1.00	1.00	0.82	1.00	0.00
	Wrong	0.02	0.00	0.00	0.00	0.18	0.00	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	0.00	1.00
Reverse order digits	Correct	0.48	0.85	0.00	0.78	0.00	0.43	0.00
	Wrong	0.49	0.15	1.00	0.22	1.00	0.57	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	0.00	1.00
Takes the paper	Correct	0.88	0.95	0.89	0.93	0.84	0.83	0.00
	Wrong	0.09	0.05	0.11	0.07	0.16	0.17	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	0.00	1.00
Folds paper with both hands	Correct	0.95	1.00	1.00	1.00	0.77	0.99	0.00
	Wrong	0.02	0.00	0.00	0.00	0.23	0.01	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	0.00	1.00
Place paper over his/her legs	Correct	0.93	1.00	1.00	1.00	0.60	1.00	0.00
	Wrong	0.04	0.00	0.00	0.00	0.40	0.00	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	0.00	1.00
Remembered tree	Correct	0.79	1.00	0.59	0.89	0.55	0.71	0.00
	Wrong	0.18	0.00	0.41	0.11	0.45	0.29	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	0.00	1.00
Remembered table	Correct	0.64	0.83	0.33	0.80	0.58	0.54	0.00
	Wrong	0.34	0.17	0.67	0.20	0.42	0.46	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	0.00	1.00
Remembered dog	Correct	0.74	1.00	0.37	1.00	0.40	0.75	0.00
	Wrong	0.23	0.00	0.63	0.00	0.60	0.25	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	0.00	1.00
Drawing	Correct	0.86	0.99	1.00	0.91	0.32	0.94	0.00
	Wrong	0.11	0.01	0.00	0.09	0.68	0.06	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	0.00	1.00

Table 2B1. Grade of Membership Pure-Type Profiles Response Probabilities and Distinguishing Characteristics (Bold)
Geriatric Depression Scale Items
Buenos Aires DF, Argentina

Measure	Response	Marginal Frequency (N=1037)	Pure-Type Response Probabilities					
			I	II	III	IV	V	VI
Satisfied with life	Yes	0.75	1.00	1.00	1.00	0.00	0.12	0.00
	No	0.15	0.00	0.00	0.00	0.56	0.88	0.00
	Missing	0.10	0.00	0.00	0.00	0.44	0.00	1.00
Dropped activities and interests	Yes	0.75	1.00	0.62	1.00	0.91	0.00	0.00
	No	0.20	0.00	0.38	0.00	0.09	1.00	0.00
	Missing	0.05	0.00	0.00	0.00	0.00	0.00	1.00
Life is empty	Yes	0.77	1.00	0.96	1.00	0.00	0.15	0.00
	No	0.16	0.00	0.04	0.00	0.79	0.85	0.00
	Missing	0.07	0.00	0.00	0.00	0.21	0.00	1.00
Felt bored	Yes	0.76	1.00	0.89	1.00	0.13	0.05	0.00
	No	0.18	0.00	0.11	0.00	0.87	0.95	0.00
	Missing	0.06	0.00	0.00	0.00	0.00	0.00	1.00
Good spirits most of the time	Yes	0.80	1.00	1.00	1.00	0.00	0.43	0.00
	No	0.13	0.00	0.00	0.00	0.85	0.57	0.00
	Missing	0.07	0.00	0.00	0.00	0.15	0.00	1.00
Afraid of something bad	Yes	0.77	1.00	0.52	1.00	1.00	0.21	0.00
	No	0.18	0.00	0.48	0.00	0.00	0.79	0.00
	Missing	0.06	0.00	0.00	0.00	0.00	0.00	1.00
Happy most of the time	Yes	0.15	0.00	0.00	0.00	0.60	0.78	0.00
	No	0.74	1.00	1.00	1.00	0.00	0.17	0.00
	Missing	0.11	0.00	0.00	0.00	0.40	0.05	1.00
Felt helpless	Yes	0.84	1.00	1.00	1.00	0.83	0.15	0.00
	No	0.10	0.00	0.00	0.00	0.17	0.85	0.00
	Missing	0.06	0.00	0.00	0.00	0.00	0.00	1.00
Preferred to stay at home instead of going out	Yes	0.53	1.00	0.00	0.96	0.00	0.00	0.00
	No	0.41	0.00	1.00	0.04	1.00	1.00	0.00
	Missing	0.06	0.00	0.00	0.00	0.00	0.00	1.00
Felt that have more memory problems	Yes	0.78	1.00	0.88	0.78	0.14	0.64	0.00
	No	0.07	0.00	0.12	0.00	0.14	0.36	0.00
	Missing	0.15	0.00	0.00	0.22	0.71	0.00	1.00
Wonderful to be alive	Yes	0.80	1.00	1.00	1.00	0.00	0.62	0.00
	No	0.08	0.00	0.00	0.00	0.43	0.37	0.00
	Missing	0.12	0.00	0.00	0.00	0.57	0.01	1.00
Felt useless	Yes	0.84	1.00	1.00	1.00	0.88	0.01	0.00
	No	0.09	0.00	0.00	0.00	0.00	0.99	0.00
	Missing	0.07	0.00	0.00	0.00	0.12	0.00	1.00
Felt full of energy	Yes	0.81	1.00	1.00	1.00	0.62	0.02	0.00
	No	0.10	0.00	0.00	0.00	0.00	0.98	0.00
	Missing	0.09	0.00	0.00	0.00	0.38	0.00	1.00
Felt present situation was hopeless	Yes	0.70	1.00	0.87	0.97	0.00	0.14	0.00
	No	0.20	0.00	0.13	0.00	0.69	0.86	0.00
	Missing	0.10	0.00	0.00	0.03	0.31	0.00	1.00
Other people better off	Yes	0.46	0.50	0.67	0.74	0.00	0.05	0.00
	No	0.28	0.17	0.33	0.02	0.47	0.95	0.00
	Missing	0.26	0.33	0.00	0.24	0.53	0.00	1.00

Table 2C1. Grade of Membership Pure-Type Profiles Response Probabilities and Distinguishing Characteristics (Bold)

Physical mobility
Buenos Aires DF, Argentina

Measure	Response	Marginal Frequency (N=1037)	Pure-Type Response Probabilities					
			I	II	III	IV	V	VI
Running 1.5 km	No difficulty	0.04	0.12	0.00	0.00	0.00	0.00	0.00
	Difficulty	0.95	0.88	1.00	1.00	0.97	1.00	1.00
	Missing	0.00	0.00	0.00	0.00	0.03	0.00	0.00
Walking several hundred yards	No difficulty	0.64	1.00	1.00	0.00	0.07	0.00	0.26
	Difficulty	0.36	0.00	0.00	1.00	0.93	1.00	0.74
	Missing	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Walking one hundred yards	No difficulty	0.85	1.00	1.00	0.78	1.00	0.00	0.41
	Difficulty	0.15	0.00	0.00	0.22	0.00	0.98	0.56
	Missing	0.00	0.00	0.00	0.00	0.00	0.02	0.02
Sitting for two hours	No difficulty	0.83	1.00	0.69	0.87	1.00	0.30	0.63
	Difficulty	0.16	0.00	0.31	0.13	0.00	0.70	0.28
	Missing	0.00	0.00	0.00	0.00	0.00	0.00	0.09
Getting up after sitting for long periods	No difficulty	0.69	1.00	0.71	0.30	1.00	0.00	0.50
	Difficulty	0.31	0.00	0.29	0.70	0.00	1.00	0.43
	Missing	0.00	0.00	0.00	0.00	0.00	0.00	0.07
Climbing several flights of stairs without resting	No difficulty	0.20	0.53	0.00	0.00	0.00	0.00	0.00
	Difficulty	0.80	0.47	1.00	1.00	1.00	0.98	1.00
	Missing	0.00	0.00	0.00	0.00	0.00	0.02	0.00
Climbing one flight of stairs without resting	No difficulty	0.68	1.00	1.00	0.00	0.14	0.00	0.24
	Difficulty	0.32	0.00	0.00	1.00	0.86	1.00	0.74
	Missing	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Stooping, kneeling or crouching	No difficulty	0.55	1.00	0.68	0.00	0.00	0.00	0.40
	Difficulty	0.44	0.00	0.32	1.00	1.00	1.00	0.57
	Missing	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Reaching or extending arms above shoulder	No difficulty	0.87	1.00	1.00	0.83	0.71	0.40	0.54
	Difficulty	0.13	0.00	0.00	0.17	0.29	0.60	0.44
	Missing	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Pulling or pushing large objects	No difficulty	0.69	1.00	1.00	0.20	0.00	0.10	0.30
	Difficulty	0.30	0.00	0.00	0.80	1.00	0.90	0.70
	Missing	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lifting or carrying weights over 5kgs	No difficulty	0.61	1.00	1.00	0.00	0.00	0.00	0.21
	Difficulty	0.39	0.00	0.00	1.00	1.00	1.00	0.75
	Missing	0.00	0.00	0.00	0.00	0.00	0.00	0.05
Difficulty picking up a coin	No difficulty	0.93	1.00	1.00	1.00	0.67	0.65	0.74
	Difficulty	0.07	0.00	0.00	0.00	0.31	0.35	0.23
	Missing	0.01	0.00	0.00	0.00	0.02	0.01	0.04

**Table 2D1. Grade of Membership Pure-Type Profiles Response Probabilities
and Distinguishing Characteristics (Bold)**
**Activities of Daily Living (ADL) and Instrumental Activities of Daily Living (IADL)
Buenos Aires DF, Argentina**

Measure	Response	Marginal Frequency (N=1037)	Pure-Type Response Probabilities					
			I	II	III	IV	V	VI
Walking across a room	No difficulty	0.94	1.00	1.00	1.00	1.00	0.19	0.83
	Difficulty	0.06	0.00	0.00	0.00	0.00	0.81	0.17
Dressing	No difficulty	0.90	1.00	1.00	0.96	1.00	0.24	0.58
	Difficulty	0.10	0.00	0.00	0.04	0.00	0.76	0.42
Bathing	No difficulty	0.92	1.00	0.99	1.00	1.00	0.27	0.47
	Difficulty	0.08	0.00	0.00	0.00	0.00	0.73	0.53
Eating	Missing	0.00	0.00	0.01	0.00	0.00	0.00	0.00
	No difficulty	0.97	1.00	1.00	1.00	1.00	0.83	0.75
Getting in and out of bed	Difficulty	0.03	0.00	0.00	0.00	0.00	0.17	0.25
	Missing	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toileting	No difficulty	0.93	1.00	1.00	1.00	1.00	0.22	0.73
	Difficulty	0.08	0.00	0.00	0.00	0.00	0.78	0.27
Preparing hot meal	No difficulty	0.95	1.00	1.00	0.99	1.00	0.56	0.76
	Difficulty	0.04	0.00	0.00	0.00	0.00	0.43	0.21
Managing money	Missing	0.01	0.00	0.00	0.01	0.00	0.02	0.03
	No difficulty	0.86	1.00	1.00	0.67	1.00	0.35	0.34
Shopping for groceries	Difficulty	0.14	0.00	0.00	0.33	0.00	0.65	0.66
	Missing	0.00	0.00	0.00	0.00	0.01	0.01	0.00
Making telephone calls	No difficulty	0.93	1.00	1.00	1.00	0.99	0.60	0.25
	Difficulty	0.07	0.00	0.00	0.00	0.00	0.39	0.75
Doing light housework	Missing	0.00	0.00	0.00	0.00	0.01	0.01	0.00
	No difficulty	0.83	1.00	1.00	0.71	1.00	0.00	0.17
Doing heavy housework	Difficulty	0.17	0.00	0.00	0.29	0.00	1.00	0.83
	Missing	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Taking medications	No difficulty	0.89	1.00	1.00	1.00	0.64	0.53	0.29
	Difficulty	0.11	0.00	0.00	0.00	0.36	0.46	0.71
Taking medications	Missing	0.00	0.00	0.00	0.00	0.00	0.01	0.00
	No difficulty	0.75	1.00	1.00	0.37	0.72	0.00	0.26
Taking medications	Difficulty	0.25	0.00	0.00	0.63	0.28	1.00	0.74
	Missing	0.00	0.00	0.00	0.00	0.00	0.00	0.13
Taking medications	No difficulty	0.58	1.00	1.00	0.00	0.00	0.00	0.13
	Difficulty	0.43	0.00	0.00	1.00	1.00	1.00	0.87
Taking medications	Missing	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	No difficulty	0.86	0.85	1.00	1.00	0.56	0.80	0.39
Taking medications	Difficulty	0.14	0.15	0.00	0.00	0.44	0.20	0.61

Table 2A2. Grade of Membership Pure-Type Profiles Response Probabilities**and Distinguishing Characteristics (Bold)****Mini Mental State Examination Items****Bridgetown, Barbados**

Measure	Response	Marginal Frequency (N=1478)	Pure-Type Response Probabilities				
			I	II	III	IV	V
Month	Correct	0.95	1.00	1.00	0.90	1.00	0.00
	Wrong	0.02	0.00	0.00	0.10	0.00	0.17
	Missing	0.03	0.00	0.00	0.00	0.00	0.83
Day of the month	Correct	0.87	1.00	1.00	0.54	0.84	0.00
	Wrong	0.11	0.00	0.00	0.46	0.16	0.07
	Missing	0.03	0.00	0.00	0.00	0.00	0.93
Year	Correct	0.95	1.00	1.00	0.87	0.97	0.00
	Wrong	0.03	0.00	0.00	0.13	0.03	0.15
	Missing	0.03	0.00	0.00	0.00	0.00	0.85
Day of the week	Correct	0.96	1.00	1.00	0.93	0.98	0.00
	Wrong	0.02	0.00	0.00	0.07	0.02	0.10
	Missing	0.03	0.00	0.00	0.00	0.00	0.90
Tree	Correct	0.96	1.00	1.00	0.94	1.00	0.00
	Wrong	0.01	0.00	0.00	0.06	0.00	0.05
	Missing	0.03	0.00	0.00	0.00	0.00	0.95
Table	Correct	0.97	1.00	1.00	0.99	1.00	0.00
	Wrong	0.01	0.00	0.00	0.01	0.00	0.13
	Missing	0.03	0.00	0.00	0.00	0.00	0.87
Dog	Correct	0.97	1.00	1.00	0.99	1.00	0.00
	Wrong	0.00	0.00	0.00	0.01	0.00	0.10
	Missing	0.03	0.00	0.00	0.00	0.00	0.90
Reverse order digits	Correct	0.70	1.00	1.00	0.00	0.50	0.00
	Wrong	0.28	0.00	0.00	1.00	0.50	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	1.00
Takes the paper	Correct	0.93	1.00	1.00	0.80	0.95	0.00
	Wrong	0.04	0.00	0.00	0.20	0.05	0.03
	Missing	0.03	0.00	0.00	0.00	0.00	0.97
Folds paper with both hands	Correct	0.96	1.00	1.00	0.93	0.96	0.00
	Wrong	0.02	0.00	0.00	0.07	0.04	0.04
	Missing	0.03	0.00	0.00	0.00	0.00	0.96
Place paper over his/her legs	Correct	0.95	1.00	1.00	1.00	1.00	0.00
	Wrong	0.02	0.00	0.00	0.00	0.00	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	1.00
Remembered tree	Correct	0.81	1.00	1.00	0.00	0.97	0.00
	Wrong	0.16	0.00	0.00	1.00	0.03	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	1.00
Remembered table	Correct	0.72	1.00	1.00	0.00	0.77	0.00
	Wrong	0.26	0.00	0.00	1.00	0.23	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	1.00
Remembered dog	Correct	0.81	1.00	1.00	0.00	1.00	0.00
	Wrong	0.16	0.00	0.00	1.00	0.00	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	1.00
Drawing	Correct	0.86	1.00	0.98	0.71	0.67	0.00
	Wrong	0.12	0.00	0.02	0.29	0.33	0.02
	Missing	0.03	0.00	0.00	0.00	0.00	0.98

Table 2B2. Grade of Membership Pure-Type Profiles Response Probabilities and Distinguishing Characteristics (Bold)
Geriatric Depression Scale Items
Bridgetown, Barbados

Measure	Response	Marginal Frequency (N=1478)	Pure-Type Response Probabilities				
			I	II	III	IV	V
Satisfied with life	Yes	0.91	1.00	0.62	1.00	1.00	0.00
	No	0.05	0.00	0.38	0.00	0.00	0.00
	Missing	0.04	0.00	0.00	0.00	0.00	1.00
Dropped activities and interests	Yes	0.74	1.00	0.47	1.00	0.35	0.00
	No	0.23	0.00	0.53	0.00	0.65	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	1.00
Life is empty	Yes	0.89	1.00	0.47	1.00	1.00	0.00
	No	0.07	0.00	0.53	0.00	0.00	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	1.00
Felt bored	Yes	0.85	1.00	0.13	1.00	1.00	0.00
	No	0.12	0.00	0.87	0.00	0.00	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	1.00
Good spirits most of the time	Yes	0.92	1.00	0.63	1.00	1.00	0.00
	No	0.05	0.00	0.37	0.00	0.00	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	1.00
Afraid of something bad	Yes	0.92	1.00	0.69	1.00	1.00	0.00
	No	0.04	0.00	0.31	0.00	0.00	0.00
	Missing	0.04	0.00	0.00	0.00	0.00	1.00
Happy most of the time	Yes	0.05	0.00	0.33	0.00	0.00	0.00
	No	0.92	1.00	0.67	1.00	1.00	0.00
	Missing	0.04	0.00	0.00	0.00	0.00	1.00
Felt helpless	Yes	0.91	1.00	0.69	1.00	0.91	0.00
	No	0.06	0.00	0.31	0.00	0.09	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	1.00
Preferred to stay at home instead of going out	Yes	0.44	0.63	0.19	0.53	0.23	0.00
	No	0.51	0.37	0.81	0.47	0.77	0.00
	Missing	0.05	0.00	0.00	0.00	0.00	1.00
Felt that have more memory problems	Yes	0.74	1.00	0.00	0.80	0.90	0.00
	No	0.04	0.00	0.24	0.00	0.02	0.03
	Missing	0.22	0.00	0.76	0.20	0.08	0.97
Wonderful to be alive	Yes	0.96	1.00	0.94	1.00	1.00	0.00
	No	0.01	0.00	0.06	0.00	0.00	0.00
	Missing	0.03	0.00	0.00	0.00	0.00	1.00
Felt useless	Yes	0.94	1.00	0.82	1.00	0.98	0.00
	No	0.03	0.00	0.18	0.00	0.02	0.00
	Missing	0.04	0.00	0.00	0.00	0.00	1.00
Felt full of energy	Yes	0.77	1.00	0.35	1.00	0.49	0.00
	No	0.20	0.00	0.65	0.00	0.51	0.00
	Missing	0.04	0.00	0.00	0.00	0.00	1.00
Felt present situation was hopeless	Yes	0.93	1.00	0.81	1.00	1.00	0.00
	No	0.03	0.00	0.19	0.00	0.00	0.00
	Missing	0.04	0.00	0.00	0.00	0.00	1.00
Other people better off	Yes	0.63	1.00	0.00	0.31	0.73	0.00
	No	0.15	0.00	0.21	0.46	0.19	0.00
	Missing	0.23	0.00	0.79	0.23	0.08	1.00

Table 2C2. Grade of Membership Pure-Type Profiles Response Probabilities and Distinguishing Characteristics (Bold)

Physical mobility
Bridgetown, Barbados

Measure	Response	Marginal Frequency (N=1478)	Pure-Type Response Probabilities				
			I	II	III	IV	V
Running 1.5 km	No difficulty	0.10	0.14	0.00	0.32	0.00	0.00
	Difficulty	0.90	0.86	1.00	0.68	1.00	1.00
	No difficulty	0.66	1.00	0.55	1.00	0.00	0.00
Walking several hundred yards	Difficulty	0.34	0.00	0.45	0.00	1.00	1.00
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
	No difficulty	0.83	1.00	1.00	1.00	0.03	0.32
Walking one hundred yards	Difficulty	0.17	0.00	0.00	0.00	0.97	0.68
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
	No difficulty	0.91	1.00	0.81	1.00	0.73	0.85
Sitting for two hours	Difficulty	0.09	0.00	0.19	0.00	0.27	0.15
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
	No difficulty	0.73	1.00	0.37	1.00	0.19	0.56
Getting up after sitting for long periods	Difficulty	0.27	0.00	0.63	0.00	0.81	0.44
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
	No difficulty	0.49	0.88	0.00	0.80	0.00	0.06
Climbing several flights of stairs without resting	Difficulty	0.51	0.12	0.99	0.18	0.99	0.94
	Missing	0.01	0.00	0.01	0.02	0.01	0.00
	No difficulty	0.75	1.00	0.97	1.00	0.00	0.20
Climbing one flight of stairs without resting	Difficulty	0.24	0.00	0.00	0.00	0.99	0.76
	Missing	0.01	0.00	0.03	0.00	0.01	0.04
	No difficulty	0.61	0.93	0.30	1.00	0.00	0.32
Stooping, kneeling or crouching	Difficulty	0.38	0.07	0.70	0.00	1.00	0.65
	Missing	0.00	0.01	0.00	0.00	0.00	0.03
	No difficulty	0.90	1.00	0.99	1.00	0.59	0.70
Reaching or extending arms above shoulder	Difficulty	0.10	0.00	0.01	0.00	0.41	0.30
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
	No difficulty	0.83	1.00	1.00	1.00	0.15	0.33
Pulling or pushing large objects	Difficulty	0.17	0.00	0.00	0.00	0.85	0.67
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
	No difficulty	0.73	1.00	1.00	1.00	0.00	0.10
Lifting or carrying weights over 5kgs	Difficulty	0.27	0.00	0.00	0.00	1.00	0.90
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
	No difficulty	0.94	1.00	0.94	0.99	0.79	0.69
Difficulty picking up a coin	Difficulty	0.06	0.00	0.06	0.00	0.21	0.29
	Missing	0.00	0.00	0.00	0.01	0.00	0.02

Table 2D2. Grade of Membership Pure-Type Profiles Response Probabilities and Distinguishing Characteristics (Bold)
Activities of Daily Living (ADL) and Instrumental Activities of Daily Living (IADL)
Bridgetown, Barbados

Measure	Response	Marginal Frequency (N=1478)	Pure-Type Response Probabilities				
			I	II	III	IV	V
Walking across a room	No difficulty	0.91	1.00	1.00	1.00	0.61	0.60
	Difficulty	0.09	0.00	0.00	0.00	0.39	0.40
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Dressing	No difficulty	0.94	1.00	1.00	1.00	0.84	0.33
	Difficulty	0.06	0.00	0.00	0.00	0.16	0.67
	Missing	0.01	0.00	0.00	0.00	0.00	0.00
Bathing	No difficulty	0.94	1.00	1.00	1.00	0.82	0.34
	Difficulty	0.06	0.00	0.00	0.00	0.18	0.66
	Missing	0.01	0.00	0.00	0.00	0.00	0.00
Eating	No difficulty	0.96	1.00	0.97	1.00	0.91	0.46
	Difficulty	0.04	0.00	0.00	0.00	0.09	0.54
	Missing	0.00	0.00	0.03	0.00	0.00	0.00
Getting in and out of bed	No difficulty	0.96	1.00	0.96	1.00	0.89	0.56
	Difficulty	0.04	0.00	0.00	0.00	0.11	0.44
	Missing	0.01	0.00	0.04	0.00	0.00	0.00
Toileting	No difficulty	0.96	1.00	1.00	1.00	0.91	0.49
	Difficulty	0.03	0.00	0.00	0.00	0.09	0.51
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Preparing hot meal	No difficulty	0.83	1.00	1.00	1.00	0.36	0.00
	Difficulty	0.17	0.00	0.00	0.00	0.64	1.00
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Managing money	No difficulty	0.91	1.00	1.00	1.00	0.75	0.05
	Difficulty	0.08	0.00	0.00	0.00	0.25	0.95
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Shopping for groceries	No difficulty	0.72	1.00	1.00	0.93	0.00	0.00
	Difficulty	0.27	0.00	0.00	0.00	1.00	1.00
	Missing	0.01	0.00	0.00	0.07	0.00	0.00
Making telephone calls	No difficulty	0.90	1.00	1.00	0.77	0.82	0.10
	Difficulty	0.09	0.00	0.00	0.14	0.18	0.90
	Missing	0.01	0.00	0.00	0.09	0.00	0.00
Doing light housework	No difficulty	0.83	1.00	1.00	1.00	0.27	0.12
	Difficulty	0.17	0.00	0.00	0.00	0.73	0.88
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Doing heavy housework	No difficulty	0.67	1.00	1.00	1.00	0.00	0.00
	Difficulty	0.33	0.00	0.00	0.00	1.00	1.00
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Taking medications	No difficulty	0.84	0.88	0.98	0.66	0.85	0.11
	Difficulty	0.15	0.11	0.00	0.34	0.14	0.87
	Missing	0.01	0.01	0.02	0.00	0.01	0.02

Table 2A3. Grade of Membership Pure-Type Profiles Response Probabilities**and Distinguishing Characteristics (Bold)****Mini Mental State Examination Items****Sao Paulo, Brazil**

Measure	Response	Marginal Frequency (N=2113)	Pure-Type Response Probabilities				
			I	II	III	IV	V
Month	Correct	0.86	1.00	1.00	0.57	1.00	0.00
	Wrong	0.06	0.00	0.00	0.43	0.00	0.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Day of the month	Correct	0.74	0.93	0.90	0.27	0.87	0.00
	Wrong	0.18	0.07	0.10	0.73	0.13	0.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Year	Correct	0.83	1.00	1.00	0.38	1.00	0.00
	Wrong	0.09	0.00	0.00	0.62	0.00	0.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Day of the week	Correct	0.89	1.00	1.00	1.00	1.00	0.00
	Wrong	0.03	0.00	0.00	0.00	0.00	0.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Tree	Correct	0.91	1.00	1.00	0.95	1.00	0.00
	Wrong	0.01	0.00	0.00	0.06	0.00	0.04
	Missing	0.08	0.00	0.00	0.00	0.00	0.97
Table	Correct	0.90	1.00	1.00	1.00	1.00	0.00
	Wrong	0.02	0.00	0.00	0.00	0.00	0.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Dog	Correct	0.91	1.00	1.00	0.93	1.00	0.00
	Wrong	0.01	0.00	0.00	0.07	0.00	0.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Reverse order digits	Correct	0.47	0.63	0.72	0.00	0.49	0.00
	Wrong	0.45	0.37	0.28	1.00	0.51	0.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Takes the paper	Correct	0.83	0.93	0.94	0.70	0.94	0.00
	Wrong	0.09	0.07	0.06	0.30	0.06	0.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Folds paper with both hands	Correct	0.87	1.00	1.00	0.65	1.00	0.00
	Wrong	0.05	0.00	0.00	0.35	0.00	0.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Place paper over his/her legs	Correct	0.83	0.95	1.00	0.53	1.00	0.00
	Wrong	0.09	0.05	0.00	0.47	0.00	0.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Remembered tree	Correct	0.70	0.91	1.00	0.00	0.88	0.00
	Wrong	0.22	0.09	0.00	1.00	0.12	0.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Remembered table	Correct	0.63	0.71	1.00	0.02	0.80	0.00
	Wrong	0.29	0.29	0.00	0.98	0.20	0.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Remembered dog	Correct	0.71	0.86	1.00	0.11	0.87	0.00
	Wrong	0.21	0.14	0.00	0.89	0.13	0.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Drawing	Correct	0.80	1.00	1.00	0.32	0.92	0.00
	Wrong	0.12	0.00	0.00	0.68	0.08	0.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00

Table 2B3. Grade of Membership Pure-Type Profiles Response Probabilities and Distinguishing Characteristics (Bold)
Geriatric Depression Scale Items
Sao Paulo, Brazil

Measure	Response	Marginal Frequency (N=2113)	Pure-Type Response Probabilities				
			I	II	III	IV	V
Satisfied with life	Yes	0.72	1.00	1.00	1.00	0.17	0.00
	No	0.13	0.00	0.00	0.00	0.81	0.00
	Missing	0.15	0.00	0.00	0.00	0.03	1.00
Dropped activities and interests	Yes	0.68	1.00	1.00	1.00	0.00	0.00
	No	0.18	0.00	0.00	0.00	1.00	0.00
	Missing	0.14	0.00	0.00	0.00	0.00	1.00
Life is empty	Yes	0.59	0.87	1.00	1.00	0.00	0.00
	No	0.26	0.13	0.00	0.00	1.00	0.00
	Missing	0.15	0.00	0.00	0.00	0.00	1.00
Felt bored	Yes	0.61	0.89	1.00	1.00	0.00	0.00
	No	0.25	0.11	0.00	0.00	1.00	0.00
	Missing	0.14	0.00	0.00	0.00	0.00	1.00
Good spirits most of the time	Yes	0.71	1.00	1.00	1.00	0.14	0.00
	No	0.14	0.00	0.00	0.00	0.86	0.00
	Missing	0.15	0.00	0.00	0.00	0.00	1.00
Afraid of something bad	Yes	0.59	0.75	1.00	1.00	0.00	0.00
	No	0.27	0.25	0.00	0.00	1.00	0.00
	Missing	0.14	0.00	0.00	0.00	0.00	1.00
Happy most of the time	Yes	0.12	0.00	0.00	0.00	0.80	0.00
	No	0.73	1.00	1.00	1.00	0.20	0.00
	Missing	0.16	0.00	0.00	0.00	0.00	1.00
Felt helpless	Yes	0.76	1.00	1.00	1.00	0.37	0.00
	No	0.10	0.00	0.00	0.00	0.63	0.00
	Missing	0.14	0.00	0.00	0.00	0.00	1.00
Preferred to stay at home instead of going out	Yes	0.49	0.76	0.54	0.84	0.07	0.00
	No	0.37	0.24	0.46	0.16	0.93	0.00
	Missing	0.14	0.00	0.00	0.00	0.00	1.00
Felt that have more memory problems	Yes	0.69	0.96	1.00	0.29	0.48	0.00
	No	0.10	0.04	0.00	0.00	0.52	0.00
	Missing	0.22	0.00	0.00	0.71	0.00	1.00
Wonderful to be alive	Yes	0.82	1.00	1.00	1.00	0.79	0.00
	No	0.03	0.00	0.00	0.00	0.18	0.00
	Missing	0.16	0.00	0.00	0.00	0.03	1.00
Felt useless	Yes	0.74	1.00	1.00	1.00	0.27	0.00
	No	0.11	0.00	0.00	0.00	0.73	0.00
	Missing	0.15	0.00	0.00	0.00	0.00	1.00
Felt full of energy	Yes	0.70	1.00	1.00	1.00	0.08	0.00
	No	0.15	0.00	0.00	0.00	0.92	0.00
	Missing	0.15	0.00	0.00	0.00	0.00	1.00
Felt present situation was hopeless	Yes	0.69	1.00	1.00	0.99	0.10	0.00
	No	0.15	0.00	0.00	0.00	0.88	0.00
	Missing	0.16	0.00	0.00	0.01	0.02	1.00
Other people better off	Yes	0.38	0.56	0.67	0.00	0.16	0.00
	No	0.27	0.33	0.00	0.00	0.84	0.00
	Missing	0.35	0.10	0.33	1.00	0.00	1.00

**Annex 2C3. Grade of Membership Pure-Type Profiles Response Probabilities
and Distinguishing Characteristics (Bold)**

Physical mobility

Sao Paulo, Brazil

Measure	Response	Marginal Frequency (N=2113)	Pure-Type Response Probabilities				
			I	II	III	IV	V
Running 1.5 km	No difficulty	0.08	0.20	0.00	0.00	0.00	0.00
	Difficulty	0.92	0.80	1.00	1.00	1.00	1.00
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Walking several hundred yards	No difficulty	0.65	1.00	1.00	0.00	0.00	0.14
	Difficulty	0.35	0.00	0.00	1.00	1.00	0.86
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Walking one hundred yards	No difficulty	0.83	1.00	1.00	0.70	0.58	0.30
	Difficulty	0.17	0.00	0.00	0.30	0.42	0.70
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Sitting for two hours	No difficulty	0.78	1.00	0.52	1.00	0.55	0.71
	Difficulty	0.22	0.00	0.48	0.00	0.45	0.29
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Getting up after sitting for long periods	No difficulty	0.64	1.00	0.42	1.00	0.00	0.28
	Difficulty	0.36	0.00	0.58	0.00	1.00	0.72
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Climbing several flights of stairs without resting	No difficulty	0.36	1.00	0.00	0.00	0.00	0.00
	Difficulty	0.64	0.00	1.00	1.00	1.00	1.00
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Climbing one flight of stairs without resting	No difficulty	0.67	1.00	0.91	0.00	0.10	0.22
	Difficulty	0.33	0.00	0.09	1.00	0.90	0.78
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Stooping, kneeling or crouching	No difficulty	0.49	1.00	0.00	0.20	0.00	0.24
	Difficulty	0.51	0.00	1.00	0.80	1.00	0.77
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Reaching or extending arms above shoulder	No difficulty	0.85	1.00	0.87	1.00	0.48	0.59
	Difficulty	0.15	0.00	0.13	0.00	0.52	0.41
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Pulling or pushing large objects	No difficulty	0.66	1.00	0.80	0.51	0.00	0.16
	Difficulty	0.34	0.00	0.20	0.49	1.00	0.84
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Lifting or carrying weights over 5kgs	No difficulty	0.61	1.00	0.74	0.28	0.00	0.12
	Difficulty	0.39	0.00	0.26	0.72	1.00	0.88
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Difficulty picking up a coin	No difficulty	0.92	1.00	1.00	1.00	0.75	0.66
	Difficulty	0.08	0.00	0.00	0.00	0.25	0.34
	Missing	0.00	0.00	0.00	0.00	0.00	0.00

**Annex 2D3. Grade of Membership Pure-Type Profiles Response Probabilities
and Distinguishing Characteristics (Bold)**
Activities of Daily Living (ADL) and Instrumental Activities of Daily Living (IADL)
Sao Paulo, Brazil

Measure	Response	Marginal Frequency (N=2113)	Pure-Type Response Probabilities				
			I	II	III	IV	V
Walking across a room	No difficulty	0.92	1.00	1.00	0.94	0.86	0.55
	Difficulty	0.08	0.00	0.00	0.06	0.14	0.45
Dressing	No difficulty	0.83	1.00	0.99	0.87	0.38	0.47
	Difficulty	0.17	0.00	0.01	0.13	0.62	0.53
Bathing	No difficulty	0.91	1.00	1.00	1.00	0.76	0.48
	Difficulty	0.09	0.00	0.00	0.00	0.24	0.52
Eating	No difficulty	0.95	1.00	1.00	0.91	0.96	0.67
	Difficulty	0.05	0.00	0.00	0.09	0.04	0.33
Getting in and out of bed	No difficulty	0.89	1.00	1.00	1.00	0.57	0.58
	Difficulty	0.11	0.00	0.00	0.00	0.43	0.42
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Toileting	No difficulty	0.93	1.00	1.00	1.00	0.85	0.61
	Difficulty	0.07	0.00	0.00	0.00	0.15	0.39
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Preparing hot meal	No difficulty	0.73	0.93	1.00	0.00	0.94	0.20
	Difficulty	0.27	0.07	0.00	1.00	0.06	0.80
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Managing money	No difficulty	0.83	1.00	1.00	0.56	0.86	0.16
	Difficulty	0.17	0.00	0.00	0.44	0.14	0.84
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Shopping for groceries	No difficulty	0.63	1.00	1.00	0.00	0.15	0.00
	Difficulty	0.37	0.00	0.00	1.00	0.85	1.00
Making telephone calls	No difficulty	0.78	1.00	1.00	0.00	1.00	0.18
	Difficulty	0.22	0.00	0.00	1.00	0.00	0.82
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Doing light housework	No difficulty	0.72	0.89	1.00	0.04	0.80	0.30
	Difficulty	0.28	0.11	0.00	0.96	0.20	0.70
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Doing heavy housework	No difficulty	0.46	0.79	0.64	0.00	0.07	0.04
	Difficulty	0.54	0.21	0.36	1.00	0.93	0.96
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Taking medications	No difficulty	0.83	1.00	1.00	0.35	1.00	0.18
	Difficulty	0.17	0.00	0.00	0.65	0.00	0.82
	Missing	0.00	0.00	0.00	0.00	0.00	0.00

Table 2A4. Grade of Membership Pure-Type Profiles Response Probabilities and Distinguishing Characteristics (Bold)
Mini Mental State Examination Items
Havana, Cuba

Measure	Response	Marginal Frequency (N=1905)	Pure-Type Response Probabilities				
			I	II	III	IV	V
Month	Correct	0.90	1.00	0.93	1.00	0.99	0.00
	Wrong	0.02	0.00	0.07	0.00	0.01	0.07
	Missing	0.08	0.00	0.00	0.00	0.00	0.94
Day of the month	Correct	0.82	1.00	0.67	1.00	0.93	0.00
	Wrong	0.10	0.00	0.33	0.00	0.07	0.03
	Missing	0.08	0.00	0.00	0.00	0.00	0.97
Year	Correct	0.89	1.00	0.93	1.00	0.95	0.00
	Wrong	0.03	0.00	0.07	0.00	0.05	0.12
	Missing	0.08	0.00	0.00	0.00	0.00	0.88
Day of the week	Correct	0.87	0.98	0.88	1.00	0.88	0.00
	Wrong	0.06	0.02	0.12	0.00	0.12	0.08
	Missing	0.08	0.00	0.00	0.00	0.00	0.92
Tree	Correct	0.91	1.00	0.96	0.98	1.00	0.00
	Wrong	0.01	0.00	0.04	0.02	0.00	0.07
	Missing	0.08	0.00	0.00	0.00	0.00	0.93
Table	Correct	0.91	1.00	0.96	1.00	0.99	0.00
	Wrong	0.01	0.00	0.04	0.00	0.01	0.06
	Missing	0.08	0.00	0.00	0.00	0.00	0.94
Dog	Correct	0.91	1.00	0.98	1.00	0.98	0.00
	Wrong	0.01	0.00	0.02	0.00	0.02	0.05
	Missing	0.08	0.00	0.00	0.00	0.00	0.95
Reverse order digits	Correct	0.47	0.81	0.08	0.76	0.26	0.00
	Wrong	0.45	0.19	0.92	0.24	0.74	0.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Takes the paper	Correct	0.83	0.94	0.87	0.95	0.73	0.00
	Wrong	0.09	0.06	0.13	0.05	0.27	0.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Folds paper with both hands	Correct	0.90	1.00	0.95	1.00	0.92	0.00
	Wrong	0.03	0.00	0.05	0.00	0.08	0.02
	Missing	0.08	0.00	0.00	0.00	0.00	0.98
Place paper over his/her legs	Correct	0.89	0.99	0.97	1.00	0.89	0.00
	Wrong	0.03	0.01	0.03	0.00	0.11	0.03
	Missing	0.08	0.00	0.00	0.00	0.00	0.97
Remembered tree	Correct	0.73	1.00	0.51	0.84	0.83	0.00
	Wrong	0.19	0.00	0.49	0.16	0.17	0.02
	Missing	0.08	0.00	0.00	0.00	0.00	0.98
Remembered table	Correct	0.68	1.00	0.18	1.00	0.86	0.00
	Wrong	0.25	0.00	0.82	0.00	0.14	0.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Remembered dog	Correct	0.68	0.93	0.47	0.69	0.83	0.00
	Wrong	0.25	0.07	0.53	0.31	0.17	0.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Drawing	Correct	0.83	0.98	0.87	0.92	0.71	0.00
	Wrong	0.09	0.02	0.13	0.08	0.29	0.03
	Missing	0.08	0.00	0.00	0.00	0.00	0.97

Table 2B4. Grade of Membership Pure-Type Profiles Response Probabilities and Distinguishing Characteristics (Bold)
Geriatric Depression Scale Items
Havana, Cuba

Measure	Response	Marginal Frequency (N=1905)	Pure-Type Response Probabilities				
			I	II	III	IV	V
Satisfied with life	Yes	0.73	1.00	1.00	0.90	0.21	0.00
	No	0.16	0.00	0.00	0.10	0.79	0.00
	Missing	0.11	0.00	0.00	0.00	0.00	1.00
Dropped activities and interests	Yes	0.69	1.00	0.79	0.81	0.28	0.00
	No	0.21	0.00	0.21	0.19	0.72	0.00
	Missing	0.10	0.00	0.00	0.00	0.00	1.00
Life is empty	Yes	0.66	1.00	0.74	1.00	0.00	0.00
	No	0.23	0.00	0.26	0.00	1.00	0.00
	Missing	0.10	0.00	0.00	0.00	0.00	1.00
Felt bored	Yes	0.67	1.00	0.78	1.00	0.00	0.00
	No	0.23	0.00	0.22	0.00	1.00	0.00
	Missing	0.10	0.00	0.00	0.00	0.00	1.00
Good spirits most of the time	Yes	0.73	1.00	0.96	1.00	0.00	0.00
	No	0.16	0.00	0.05	0.00	1.00	0.00
	Missing	0.11	0.00	0.00	0.00	0.00	1.00
Afraid of something bad	Yes	0.69	1.00	0.76	0.74	0.33	0.00
	No	0.22	0.00	0.24	0.26	0.67	0.00
	Missing	0.10	0.00	0.00	0.00	0.00	1.00
Happy most of the time	Yes	0.21	0.00	0.18	0.00	1.00	0.00
	No	0.68	1.00	0.82	1.00	0.00	0.00
	Missing	0.11	0.00	0.00	0.00	0.00	1.00
Felt helpless	Yes	0.78	1.00	1.00	1.00	0.28	0.00
	No	0.12	0.00	0.00	0.00	0.72	0.00
	Missing	0.10	0.00	0.00	0.00	0.00	1.00
Preferred to stay at home instead of going out	Yes	0.43	0.98	0.00	0.48	0.39	0.00
	No	0.47	0.02	1.00	0.52	0.61	0.00
	Missing	0.11	0.00	0.00	0.00	0.00	1.00
Felt that have more memory problems	Yes	0.73	1.00	0.69	0.93	0.58	0.00
	No	0.13	0.00	0.20	0.07	0.41	0.00
	Missing	0.15	0.00	0.11	0.00	0.00	1.00
Wonderful to be alive	Yes	0.85	0.97	1.00	1.00	0.63	0.00
	No	0.05	0.03	0.00	0.00	0.34	0.00
	Missing	0.11	0.00	0.00	0.00	0.03	1.00
Felt useless	Yes	0.78	1.00	1.00	0.97	0.32	0.00
	No	0.12	0.00	0.00	0.03	0.68	0.00
	Missing	0.10	0.00	0.00	0.00	0.00	1.00
Felt full of energy	Yes	0.75	1.00	0.94	0.92	0.31	0.00
	No	0.15	0.00	0.06	0.08	0.69	0.00
	Missing	0.10	0.00	0.00	0.00	0.00	1.00
Felt present situation was hopeless	Yes	0.78	1.00	1.00	1.00	0.07	0.00
	No	0.11	0.00	0.00	0.00	0.93	0.00
	Missing	0.10	0.00	0.00	0.00	0.00	1.00
Other people better off	Yes	0.59	0.90	0.49	0.90	0.00	0.00
	No	0.21	0.00	0.35	0.00	0.93	0.00
	Missing	0.19	0.10	0.16	0.10	0.07	1.00

Table 2C4. Grade of Membership Pure-Type Profiles Response Probabilities and Distinguishing Characteristics (Bold)

Physical mobility

Havana, Cuba

Measure	Response	Marginal Frequency (N=1905)	Pure-Type Response Probabilities				
			I	II	III	IV	V
Running 1.5 km	No difficulty	0.13	0.40	0.00	0.00	0.00	0.01
	Difficulty	0.87	0.60	1.00	1.00	1.00	0.99
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Walking several hundred yards	No difficulty	0.66	1.00	1.00	0.17	0.36	0.18
	Difficulty	0.34	0.00	0.00	0.83	0.64	0.82
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Walking one hundred yards	No difficulty	0.85	1.00	1.00	0.78	0.60	0.47
	Difficulty	0.15	0.00	0.00	0.22	0.40	0.53
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Sitting for two hours	No difficulty	0.80	1.00	0.87	0.54	0.76	0.67
	Difficulty	0.20	0.00	0.13	0.46	0.24	0.33
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Getting up after sitting for long periods	No difficulty	0.58	1.00	0.40	0.27	0.56	0.39
	Difficulty	0.42	0.00	0.60	0.73	0.44	0.61
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Climbing several flights of stairs without resting	No difficulty	0.37	1.00	0.03	0.00	0.31	0.00
	Difficulty	0.63	0.00	0.97	1.00	0.69	1.00
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Climbing one flight of stairs without resting	No difficulty	0.33	0.00	0.81	0.46	0.28	0.20
	Difficulty	0.30	0.00	0.06	0.54	0.72	0.80
	Missing	0.37	1.00	0.13	0.00	0.00	0.00
Stooping, kneeling or crouching	No difficulty	0.49	1.00	0.53	0.00	0.29	0.22
	Difficulty	0.51	0.00	0.47	1.00	0.71	0.78
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Reaching or extending arms above shoulder	No difficulty	0.86	1.00	0.98	0.80	0.62	0.63
	Difficulty	0.14	0.00	0.02	0.20	0.38	0.37
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Pulling or pushing large objects	No difficulty	0.78	1.00	1.00	0.81	0.01	0.41
	Difficulty	0.22	0.00	0.00	0.19	0.99	0.59
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Lifting or carrying weights over 5kgs	No difficulty	0.65	1.00	0.77	0.57	0.00	0.20
	Difficulty	0.35	0.00	0.23	0.43	1.00	0.74
	Missing	0.00	0.00	0.00	0.00	0.00	0.05
Difficulty picking up a coin	No difficulty	0.94	1.00	1.00	1.00	0.80	0.65
	Difficulty	0.06	0.00	0.00	0.00	0.20	0.35
	Missing	0.00	0.00	0.00	0.00	0.00	0.00

**Table 2D4. Grade of Membership Pure-Type Profiles Response Probabilities
and Distinguishing Characteristics (Bold)**
Activities of Daily Living (ADL) and Instrumental Activities of Daily Living (IADL)
Havana, Cuba

Measure	Response	Marginal Frequency (N=1905)	Pure-Type Response Probabilities				
			I	II	III	IV	V
Walking across a room	No difficulty	0.92	1.00	1.00	0.92	0.78	0.64
	Difficulty	0.08	0.00	0.00	0.08	0.22	0.36
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Dressing	No difficulty	0.89	1.00	1.00	0.86	0.76	0.55
	Difficulty	0.11	0.00	0.00	0.14	0.24	0.45
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Bathing	No difficulty	0.91	1.00	1.00	0.96	0.75	0.48
	Difficulty	0.09	0.00	0.00	0.04	0.25	0.52
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Eating	No difficulty	0.95	1.00	1.00	1.00	0.90	0.66
	Difficulty	0.05	0.00	0.00	0.00	0.10	0.34
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Getting in and out of bed	No difficulty	0.87	1.00	1.00	0.73	0.76	0.56
	Difficulty	0.13	0.00	0.00	0.27	0.24	0.44
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Toileting	No difficulty	0.94	1.00	1.00	0.97	0.87	0.64
	Difficulty	0.06	0.00	0.00	0.03	0.13	0.36
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Preparing hot meal	No difficulty	0.79	1.00	1.00	0.58	0.73	0.17
	Difficulty	0.21	0.00	0.00	0.42	0.27	0.83
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Managing money	No difficulty	0.91	1.00	1.00	1.00	0.84	0.31
	Difficulty	0.09	0.00	0.00	0.00	0.16	0.69
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Shopping for groceries	No difficulty	0.73	1.00	1.00	0.63	0.09	0.00
	Difficulty	0.27	0.00	0.00	0.37	0.91	1.00
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Making telephone calls	No difficulty	0.80	0.99	0.86	0.99	0.39	0.20
	Difficulty	0.20	0.01	0.14	0.01	0.61	0.80
	Missing	0.01	0.00	0.00	0.00	0.00	0.00
Doing light housework	No difficulty	0.80	1.00	1.00	0.62	0.54	0.27
	Difficulty	0.20	0.00	0.00	0.38	0.46	0.73
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Doing heavy housework	No difficulty	0.62	1.00	1.00	0.01	0.40	0.09
	Difficulty	0.38	0.00	0.00	0.99	0.60	0.91
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Taking medications	No difficulty	0.87	0.92	1.00	0.89	0.81	0.33
	Difficulty	0.13	0.08	0.00	0.11	0.19	0.67
	Missing	0.00	0.00	0.00	0.00	0.00	0.00

Table 2A5. Grade of Membership Pure-Type Profiles Response Probabilities and Distinguishing Characteristics (Bold)
Mini Mental State Examination Items

Mexico DF, Mexico							
Measure	Response	Marginal Frequency (N=1188)	Pure-Type Response Probabilities				
			I	II	III	IV	V
Month	Correct	0.90	1.00	1.00	0.57	1.00	0.95
	Wrong	0.04	0.00	0.00	0.43	0.00	0.05
	Missing	0.06	0.00	0.00	0.00	0.00	1.00
Day of the month	Correct	0.77	1.00	0.68	0.04	1.00	0.71
	Wrong	0.17	0.00	0.32	0.96	0.00	0.29
	Missing	0.06	0.00	0.00	0.00	0.00	1.00
Year	Correct	0.89	1.00	1.00	0.48	1.00	1.00
	Wrong	0.05	0.00	0.00	0.52	0.00	0.00
	Missing	0.06	0.00	0.00	0.00	0.00	1.00
Day of the week	Correct	0.89	1.00	1.00	0.51	1.00	0.89
	Wrong	0.05	0.00	0.00	0.49	0.00	0.11
	Missing	0.06	0.00	0.00	0.00	0.00	1.00
Tree	Correct	0.93	1.00	1.00	0.87	1.00	1.00
	Wrong	0.01	0.00	0.00	0.13	0.00	0.00
	Missing	0.06	0.00	0.00	0.00	0.00	1.00
Table	Correct	0.92	1.00	1.00	0.78	1.00	1.00
	Wrong	0.02	0.00	0.00	0.22	0.00	0.00
	Missing	0.06	0.00	0.00	0.00	0.00	1.00
Dog	Correct	0.92	1.00	1.00	0.72	1.00	1.00
	Wrong	0.02	0.00	0.00	0.28	0.00	0.00
	Missing	0.06	0.00	0.00	0.00	0.00	1.00
Reverse order digits	Correct	0.34	0.62	0.00	0.00	0.23	0.42
	Wrong	0.60	0.38	1.00	1.00	0.77	0.58
	Missing	0.06	0.00	0.00	0.00	0.00	1.00
Takes the paper	Correct	0.81	1.00	0.79	0.60	0.76	0.83
	Wrong	0.13	0.00	0.21	0.40	0.24	0.17
	Missing	0.06	0.00	0.00	0.00	0.00	1.00
Folds paper with both hands	Correct	0.86	1.00	1.00	0.39	1.00	0.83
	Wrong	0.08	0.00	0.00	0.61	0.00	0.17
	Missing	0.06	0.00	0.00	0.00	0.00	1.00
Place paper over his/her legs	Correct	0.87	1.00	1.00	0.43	1.00	0.83
	Wrong	0.07	0.00	0.00	0.57	0.00	0.17
	Missing	0.06	0.00	0.00	0.00	0.00	1.00
Remembered tree	Correct	0.74	1.00	0.39	0.10	0.92	0.92
	Wrong	0.20	0.00	0.61	0.90	0.08	0.08
	Missing	0.06	0.00	0.00	0.00	0.00	1.00
Remembered table	Correct	0.62	0.87	0.55	0.00	0.58	0.75
	Wrong	0.32	0.13	0.45	1.00	0.42	0.25
	Missing	0.06	0.00	0.00	0.00	0.00	1.00
Remembered dog	Correct	0.70	1.00	0.66	0.00	0.68	0.85
	Wrong	0.24	0.00	0.34	1.00	0.32	0.15
	Missing	0.06	0.00	0.00	0.00	0.00	1.00
Drawing	Correct	0.82	1.00	1.00	0.28	0.84	0.71
	Wrong	0.12	0.00	0.00	0.72	0.16	0.29
	Missing	0.06	0.00	0.00	0.00	0.00	1.00

**Table 2B5. Grade of Membership Pure-Type Profiles Response Probabilities and Distinguishing Characteristics (Bold)
Geriatric Depression Scale Items**

Mexico DF, Mexico							
Measure	Response	Marginal Frequency (N=1188)	Pure-Type Response Probabilities				
			I	II	III	IV	VI
Satisfied with life	Yes	0.84	1.00	1.00	1.00	1.00	0.14
	No	0.08	0.00	0.00	0.00	0.00	0.86
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Dropped activities and interests	Yes	0.71	1.00	0.18	1.00	1.00	0.08
	No	0.22	0.00	0.82	0.00	0.00	0.92
	Missing	0.07	0.00	0.00	0.00	0.00	1.00
Life is empty	Yes	0.71	1.00	0.04	1.00	1.00	0.00
	No	0.22	0.00	0.96	0.00	0.00	1.00
	Missing	0.07	0.00	0.00	0.00	0.00	1.00
Felt bored	Yes	0.72	1.00	0.00	1.00	1.00	0.00
	No	0.20	0.00	1.00	0.00	0.00	1.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Good spirits most of the time	Yes	0.81	1.00	1.00	1.00	1.00	0.07
	No	0.11	0.00	0.00	0.00	0.00	0.93
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Afraid of something bad	Yes	0.66	1.00	0.00	0.48	1.00	0.26
	No	0.26	0.00	1.00	0.53	0.00	0.74
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Happy most of the time	Yes	0.12	0.00	0.00	0.00	0.00	1.00
	No	0.80	1.00	1.00	1.00	1.00	0.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Felt helpless	Yes	0.78	1.00	0.48	1.00	1.00	0.00
	No	0.15	0.00	0.52	0.00	0.00	1.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Preferred to stay at home instead of going out	Yes	0.51	0.82	0.00	0.65	0.71	0.00
	No	0.41	0.18	1.00	0.35	0.29	1.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Felt that have more memory problems	Yes	0.68	1.00	0.00	0.93	0.86	0.51
	No	0.19	0.00	0.89	0.00	0.00	0.49
	Missing	0.13	0.00	0.11	0.07	0.14	0.00
Wonderful to be alive	Yes	0.87	1.00	1.00	0.91	1.00	0.48
	No	0.04	0.00	0.00	0.09	0.00	0.42
	Missing	0.09	0.00	0.00	0.00	0.00	1.00
Felt useless	Yes	0.79	1.00	0.68	1.00	1.00	0.00
	No	0.14	0.00	0.32	0.00	0.00	1.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Felt full of energy	Yes	0.77	1.00	0.74	0.90	1.00	0.00
	No	0.15	0.00	0.26	0.10	0.00	1.00
	Missing	0.08	0.00	0.00	0.00	0.00	1.00
Felt present situation was hopeless	Yes	0.77	1.00	0.53	0.83	1.00	0.04
	No	0.15	0.00	0.47	0.17	0.00	0.96
	Missing	0.09	0.00	0.00	0.00	0.00	1.00
Other people better off	Yes	0.58	0.89	0.00	0.69	0.83	0.22
	No	0.26	0.00	1.00	0.31	0.00	0.76
	Missing	0.16	0.11	0.00	0.00	0.17	0.03

Table 2C5. Grade of Membership Pure-Type Profiles Response Probabilities and Distinguishing Characteristics (Bold)

Measure	Response	Marginal Frequency (N=1188)	Physical mobility					
			Mexico DF, Mexico					
			I	II	III	IV	V	VI
Running 1.5 km	No difficulty	0.23	0.44	0.00	0.50	0.00	0.00	0.10
	Difficulty	0.76	0.56	1.00	0.40	1.00	1.00	0.90
	Missing	0.01	0.00	0.00	0.10	0.00	0.00	0.00
Walking several hundred yards	No difficulty	0.66	1.00	0.78	0.97	0.00	0.00	0.30
	Difficulty	0.34	0.00	0.22	0.00	1.00	1.00	0.70
	Missing	0.00	0.00	0.00	0.03	0.00	0.00	0.00
Walking one hundred yards	No difficulty	0.86	1.00	1.00	0.97	0.80	0.01	0.60
	Difficulty	0.14	0.00	0.00	0.00	0.20	0.99	0.40
	Missing	0.00	0.00	0.00	0.03	0.00	0.00	0.00
Sitting for two hours	No difficulty	0.74	1.00	0.47	1.00	0.37	0.33	0.76
	Difficulty	0.26	0.00	0.53	0.00	0.63	0.67	0.24
	Missing	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Getting up after sitting for long periods	No difficulty	0.58	1.00	0.02	0.98	0.00	0.08	0.48
	Difficulty	0.42	0.00	0.98	0.00	1.00	0.92	0.52
	Missing	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Climbing several flights of stairs without resting	No difficulty	0.36	0.64	0.00	0.96	0.00	0.00	0.19
	Difficulty	0.64	0.36	1.00	0.01	1.00	1.00	0.81
	Missing	0.00	0.00	0.00	0.03	0.00	0.00	0.00
Climbing one flight of stairs without resting	No difficulty	0.72	1.00	0.90	0.96	0.00	0.00	0.47
	Difficulty	0.28	0.00	0.10	0.00	1.00	1.00	0.53
	Missing	0.00	0.00	0.00	0.04	0.00	0.00	0.00
Stooping, kneeling or crouching	No difficulty	0.50	0.95	0.00	0.97	0.00	0.00	0.31
	Difficulty	0.50	0.05	1.00	0.00	1.00	1.00	0.69
	Missing	0.00	0.00	0.00	0.03	0.00	0.00	0.00
Reaching or extending arms above shoulder	No difficulty	0.82	1.00	0.86	1.00	0.55	0.21	0.64
	Difficulty	0.18	0.00	0.14	0.00	0.45	0.79	0.36
	Missing	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pulling or pushing large objects	No difficulty	0.64	1.00	0.72	1.00	0.00	0.00	0.29
	Difficulty	0.36	0.00	0.28	0.00	1.00	1.00	0.71
	Missing	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lifting or carrying weights over 5kgs	No difficulty	0.66	1.00	0.82	1.00	0.00	0.00	0.34
	Difficulty	0.34	0.00	0.18	0.00	1.00	1.00	0.66
	Missing	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Difficulty picking up a coin	No difficulty	0.89	1.00	1.00	1.00	0.74	0.58	0.65
	Difficulty	0.11	0.00	0.00	0.00	0.26	0.42	0.35
	Missing	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Table 2D5. Grade of Membership Pure-Type Profiles Response Probabilities
and Distinguishing Characteristics (Bold)**
Activities of Daily Living (ADL) and Instrumental Activities of Daily Living (IADL)

Mexico City, Mexico

Measure	Response	Marginal Frequency (N=1188)	Pure-Type Response Probabilities					
			I	II	III	IV	V	VI
Walking across a room	No difficulty	0.94	1.00	1.00	0.98	1.00	0.48	0.72
	Difficulty	0.06	0.00	0.00	0.00	0.00	0.51	0.28
	Missing	0.00	0.00	0.00	0.02	0.00	0.01	0.00
Dressing	No difficulty	0.89	1.00	1.00	0.98	0.90	0.13	0.64
	Difficulty	0.11	0.00	0.00	0.00	0.10	0.87	0.36
	Missing	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Bathing	No difficulty	0.93	1.00	1.00	0.95	1.00	0.46	0.63
	Difficulty	0.07	0.00	0.00	0.00	0.00	0.54	0.36
	Missing	0.01	0.00	0.00	0.05	0.00	0.00	0.01
Eating	No difficulty	96.10%	1.00	1.00	1.00	1.00	0.78	0.76
	Difficulty	3.50%	0.00	0.00	0.00	0.00	0.22	0.24
	Missing	0.30%	0.00	0.00	0.00	0.00	0.00	0.00
Getting in and out of bed	No difficulty	90.30%	1.00	1.00	0.97	1.00	0.04	0.66
	Difficulty	9.30%	0.00	0.00	0.00	0.00	0.96	0.31
	Missing	0.40%	0.00	0.00	0.03	0.00	0.00	0.02
Toileting	No difficulty	94.40%	1.00	1.00	0.96	1.00	0.58	0.73
	Difficulty	5.20%	0.00	0.00	0.00	0.00	0.42	0.26
	Missing	0.40%	0.00	0.00	0.04	0.00	0.00	0.01
Preparing hot meal	No difficulty	82.70%	1.00	1.00	0.95	0.45	0.70	0.38
	Difficulty	16.90%	0.00	0.00	0.00	0.55	0.30	0.62
	Missing	0.40%	0.00	0.00	0.05	0.00	0.00	0.00
Managing money	No difficulty	92.30%	1.00	1.00	0.96	1.00	0.57	0.47
	Difficulty	7.30%	0.00	0.00	0.00	0.00	0.43	0.53
	Missing	0.30%	0.00	0.00	0.04	0.00	0.00	0.00
Shopping for groceries	No difficulty	81.10%	1.00	1.00	0.97	0.38	0.47	0.39
	Difficulty	18.70%	0.00	0.00	0.00	0.62	0.53	0.61
	Missing	0.30%	0.00	0.00	0.03	0.00	0.00	0.00
Making telephone calls	No difficulty	84.30%	1.00	1.00	0.52	0.85	0.49	0.43
	Difficulty	14.90%	0.00	0.00	0.48	0.15	0.52	0.57
	Missing	0.80%	0.00	0.00	0.00	0.00	0.00	0.00
Doing light housework	No difficulty	79.60%	1.00	1.00	1.00	0.35	0.27	0.42
	Difficulty	20.10%	0.00	0.00	0.00	0.65	0.73	0.58
	Missing	0.30%	0.00	0.00	0.00	0.00	0.00	0.00
Doing heavy housework	No difficulty	67.00%	1.00	1.00	0.98	0.00	0.00	0.23
	Difficulty	32.70%	0.00	0.00	0.00	1.00	1.00	0.77
	Missing	0.30%	0.00	0.00	0.02	0.00	0.00	0.00
Taking medications	No difficulty	91.50%	1.00	1.00	0.88	0.86	0.84	0.49
	Difficulty	8.20%	0.00	0.00	0.10	0.13	0.16	0.51
	Missing	0.30%	0.00	0.00	0.02	0.01	0.00	0.00

Table 2A6. Grade of Membership Pure-Type Profiles Response Probabilities

and Distinguishing Characteristics (Bold)

Mini Mental State Examination Items

Montevideo, Uruguay

Measure	Response	Marginal Frequency (N=1437)	Pure-Type Response Probabilities				
			I	II	III	IV	V
Month	Correct	0.98	1.00	1.00	1.00	0.39	1.00
	Wrong	0.02	0.00	0.00	0.00	0.59	0.00
	Missing	0.00	0.00	0.00	0.00	0.02	0.00
Day of the month	Correct	0.89	0.95	0.95	0.88	0.29	0.82
	Wrong	0.11	0.05	0.05	0.12	0.69	0.18
	Missing	0.00	0.00	0.00	0.00	0.02	0.00
Year	Correct	0.99	1.00	1.00	1.00	0.66	1.00
	Wrong	0.01	0.00	0.00	0.00	0.32	0.00
	Missing	0.00	0.00	0.00	0.00	0.02	0.00
Day of the week	Correct	0.98	1.00	1.00	1.00	0.37	1.00
	Wrong	0.02	0.00	0.00	0.00	0.61	0.00
	Missing	0.00	0.00	0.00	0.00	0.02	0.00
Tree	Correct	1.00	1.00	1.00	1.00	0.98	1.00
	Wrong	0.00	0.00	0.00	0.00	0.00	0.00
	Missing	0.00	0.00	0.00	0.00	0.02	0.00
Table	Correct	1.00	1.00	1.00	1.00	0.98	1.00
	Wrong	0.00	0.00	0.00	0.00	0.00	0.00
	Missing	0.00	0.00	0.00	0.00	0.02	0.00
Dog	Correct	1.00	1.00	1.00	1.00	1.00	0.99
	Wrong	0.00	0.00	0.00	0.00	0.00	0.01
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Reverse order digits	Correct	0.58	0.66	0.70	0.46	0.57	0.29
	Wrong	0.42	0.34	0.30	0.54	0.43	0.71
	Correct	0.95	1.00	0.91	1.00	0.30	1.00
Takes the paper	Wrong	0.05	0.00	0.09	0.00	0.70	0.00
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
	Correct	0.99	1.00	1.00	1.00	0.51	1.00
Folds paper with both hands	Wrong	0.02	0.00	0.00	0.00	0.49	0.00
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
	Correct	0.99	1.00	0.95	1.00	0.46	0.91
Place paper over his/her legs	Wrong	0.05	0.00	0.05	0.00	0.52	0.09
	Missing	0.00	0.00	0.00	0.00	0.02	0.00
	Correct	0.95	1.00	0.97	0.97	0.89	0.50
Remembered tree	Wrong	0.09	0.03	0.03	0.11	0.50	0.22
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
	Correct	0.70	0.80	0.73	0.77	0.00	0.47
Remembered table	Wrong	0.30	0.20	0.27	0.23	0.98	0.53
	Missing	0.00	0.00	0.00	0.00	0.02	0.00
	Correct	0.80	0.82	0.91	0.85	0.36	0.69
Remembered dog	Wrong	0.20	0.18	0.09	0.15	0.64	0.31
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
	Correct	0.89	0.96	1.00	1.00	0.24	0.67
Drawing	Wrong	0.11	0.04	0.00	0.00	0.76	0.33
	Missing	0.00	0.00	0.00	0.00	0.00	0.00

Table 2B6. Grade of Membership Pure-Type Profiles Response Probabilities and Distinguishing Characteristics (Bold)
Geriatric Depression Scale Items
Montevideo, Uruguay

Measure	Response	Marginal Frequency (N=1437)	Pure-Type Response Probabilities				
			I	II	III	IV	V
Satisfied with life	Yes	0.82	1.00	1.00	0.00	0.21	1.00
	No	0.16	0.00	0.00	1.00	0.09	0.00
	Missing	0.02	0.00	0.00	0.00	0.70	0.00
Dropped activities and interests	Yes	0.74	1.00	0.96	0.00	1.00	0.38
	No	0.26	0.00	0.04	1.00	0.00	0.62
	Missing	0.01	0.00	0.00	0.00	0.00	0.00
Life is empty	Yes	0.80	1.00	1.00	0.00	0.03	1.00
	No	0.19	0.00	0.00	1.00	0.38	0.00
	Missing	0.02	0.00	0.00	0.00	0.60	0.00
Felt bored	Yes	0.75	1.00	1.00	0.00	0.66	0.58
	No	0.24	0.00	0.00	1.00	0.00	0.42
	Missing	0.01	0.00	0.00	0.00	0.34	0.00
Good spirits most of the time	Yes	0.83	1.00	1.00	0.00	0.14	1.00
	No	0.15	0.00	0.00	1.00	0.00	0.00
	Missing	0.02	0.00	0.00	0.00	0.86	0.00
Afraid of something bad	Yes	0.77	1.00	1.00	0.00	0.58	0.62
	No	0.22	0.00	0.00	1.00	0.00	0.38
	Missing	0.01	0.00	0.00	0.00	0.42	0.00
Happy most of the time	Yes	0.17	0.00	0.00	1.00	0.00	0.00
	No	0.78	1.00	1.00	0.00	0.00	1.00
	Missing	0.04	0.00	0.00	0.00	1.00	0.00
Felt helpless	Yes	0.84	1.00	1.00	0.00	0.55	1.00
	No	0.15	0.00	0.00	1.00	0.00	0.00
	Missing	0.01	0.00	0.00	0.00	0.45	0.00
Preferred to stay at home instead of going out	Yes	0.51	0.79	0.35	0.00	0.52	0.25
	No	0.48	0.21	0.65	1.00	0.00	0.75
	Missing	0.02	0.00	0.00	0.00	0.48	0.00
Felt that have more memory problems	Yes	0.80	1.00	0.66	0.56	0.00	0.76
	No	0.11	0.00	0.06	0.44	0.00	0.24
	Missing	0.09	0.00	0.28	0.00	1.00	0.00
Wonderful to be alive	Yes	0.87	1.00	1.00	0.16	0.00	1.00
	No	0.08	0.00	0.00	0.67	0.00	0.00
	Missing	0.06	0.00	0.00	0.18	1.00	0.00
Felt useless	Yes	0.89	1.00	1.00	0.45	0.15	0.88
	No	0.09	0.00	0.00	0.55	0.00	0.12
	Missing	0.03	0.00	0.00	0.00	0.85	0.00
Felt full of energy	Yes	0.78	1.00	1.00	0.00	0.26	0.61
	No	0.20	0.00	0.00	1.00	0.00	0.39
	Missing	0.02	0.00	0.00	0.00	0.74	0.00
Felt present situation was hopeless	Yes	0.86	1.00	1.00	0.08	0.24	1.00
	No	0.12	0.00	0.00	0.92	0.00	0.00
	Missing	0.02	0.00	0.00	0.00	0.76	0.00
Other people better off	Yes	0.60	0.92	0.11	0.12	0.00	0.72
	No	0.25	0.08	0.32	0.88	0.00	0.28
	Missing	0.15	0.00	0.57	0.00	1.00	0.00

Table 2C6. Grade of Membership Pure-Type Profiles Response Probabilities and Distinguishing Characteristics (Bold)

**Physical mobility
Montevideo, Uruguay**

Measure	Response	Marginal Frequency (N=1437)	Pure-Type Response Probabilities				
			I	II	III	IV	V
Running 1.5 km	No difficulty	0.09	0.17	0.00	0.00	0.18	0.00
	Difficulty	0.91	0.83	1.00	1.00	0.82	1.00
	No						
Walking several hundred yards	No difficulty	0.66	1.00	0.59	0.35	0.96	0.00
	Difficulty	0.34	0.00	0.40	0.65	0.00	1.00
	Missing	0.00	0.00	0.01	0.00	0.04	0.00
Walking one hundred yards	No difficulty	0.88	1.00	1.00	1.00	1.00	0.15
	Difficulty	0.11	0.00	0.00	0.00	0.00	0.85
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Sitting for two hours	No difficulty	0.83	1.00	0.47	1.00	0.87	0.56
	Difficulty	0.17	0.00	0.52	0.00	0.09	0.44
	Missing	0.00	0.00	0.01	0.00	0.04	0.00
Getting up after sitting for long periods	No difficulty	0.65	1.00	0.00	1.00	1.00	0.00
	Difficulty	0.35	0.00	1.00	0.00	0.00	1.00
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Climbing several flights of stairs without resting	No difficulty	0.39	0.80	0.00	0.00	0.75	0.00
	Difficulty	0.61	0.20	1.00	1.00	0.25	1.00
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Climbing one flight of stairs without resting	No difficulty	0.72	1.00	0.58	0.80	1.00	0.00
	Difficulty	0.27	0.00	0.42	0.20	0.00	1.00
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Stooping, kneeling or crouching	No difficulty	0.61	1.00	0.00	0.88	0.94	0.00
	Difficulty	0.39	0.00	1.00	0.12	0.00	1.00
	Missing	0.00	0.00	0.00	0.00	0.06	0.00
Reaching or extending arms above shoulder	No difficulty	0.84	1.00	1.00	1.00	0.67	0.22
	Difficulty	0.15	0.00	0.00	0.00	0.22	0.78
	Missing	0.00	0.00	0.00	0.00	0.11	0.00
Pulling or pushing large objects	No difficulty	0.77	1.00	1.00	0.89	0.76	0.00
	Difficulty	0.23	0.00	0.00	0.11	0.22	1.00
	Missing	0.00	0.00	0.00	0.00	0.02	0.00
Lifting or carrying weights over 5kgs	No difficulty	0.73	1.00	1.00	0.67	0.98	0.00
	Difficulty	0.27	0.00	0.00	0.33	0.00	1.00
	Missing	0.00	0.00	0.00	0.00	0.02	0.00
Difficulty picking up a coin	No difficulty	0.95	1.00	1.00	1.00	0.91	0.71
	Difficulty	0.05	0.00	0.00	0.00	0.00	0.29
	Missing	0.00	0.00	0.00	0.00	0.09	0.00

Table 2D6. Grade of Membership Pure-Type Profiles Response Probabilities and Distinguishing Characteristics (Bold)
Activities of Daily Living (ADL) and Instrumental Activities of Daily Living (IADL)
Montevideo, Uruguay

Measure	Response	Marginal Frequency (N=1437)	Pure-Type Response Probabilities				
			I	II	III	IV	V
Walking across a room	No difficulty	0.95	1.00	1.00	1.00	0.99	0.69
	Difficulty	0.05	0.00	0.00	0.00	0.01	0.31
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Dressing	No difficulty	0.91	1.00	1.00	1.00	0.50	0.53
	Difficulty	0.09	0.00	0.00	0.00	0.50	0.47
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Bathing	No difficulty	0.96	1.00	1.00	1.00	1.00	0.72
	Difficulty	0.05	0.00	0.00	0.00	0.00	0.28
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Eating	No difficulty	0.98	1.00	1.00	1.00	0.84	0.89
	Difficulty	0.02	0.00	0.00	0.00	0.16	0.11
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Getting in and out of bed	No difficulty	0.92	1.00	1.00	1.00	0.97	0.52
	Difficulty	0.08	0.00	0.00	0.00	0.03	0.48
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Toileting	No difficulty	0.98	1.00	1.00	1.00	1.00	0.88
	Difficulty	0.02	0.00	0.00	0.00	0.00	0.12
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Preparing hot meal	No difficulty	0.89	1.00	1.00	1.00	0.10	0.56
	Difficulty	0.11	0.00	0.00	0.00	0.90	0.44
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Managing money	No difficulty	0.97	1.00	1.00	1.00	0.86	0.83
	Difficulty	0.03	0.00	0.00	0.00	0.14	0.17
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Shopping for groceries	No difficulty	0.88	1.00	1.00	1.00	0.73	0.28
	Difficulty	0.12	0.00	0.00	0.00	0.27	0.72
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Making telephone calls	No difficulty	0.96	1.00	1.00	0.96	0.62	0.86
	Difficulty	0.04	0.00	0.00	0.04	0.38	0.14
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Doing light housework	No difficulty	0.82	1.00	1.00	1.00	0.00	0.17
	Difficulty	0.18	0.00	0.00	0.00	1.00	0.83
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Doing heavy housework	No difficulty	0.68	0.86	1.00	1.00	0.00	0.00
	Difficulty	0.32	0.14	0.00	0.00	1.00	1.00
	Missing	0.00	0.00	0.00	0.00	0.00	0.00
Taking medications	No difficulty	0.84	0.80	0.93	0.97	0.25	0.84
	Difficulty	0.16	0.20	0.07	0.03	0.75	0.16
	Missing	0.00	0.00	0.00	0.00	0.00	0.00

Table 3.1A
**Total life expectancy, active life expectancy
 and life expectancy with disability, by types and degrees of disability, sex and age groups
 Buenos Aires DF (Argentina) - 2000**

		Mild disabilities						Moderate or severe disabilities					
		Man			Profile IV			Profile V			Profile VI		
Age group	Total life expectancy	Active life expectancy	Disability life expectancy	Mild disability life expectancy	Profile II	Profile III	Profile IV	Moderate or severe disability life expectancy	Profile V	Profile VI			
60-64	17.42	7.75	9.67	7.64	3.58	2.88	1.18	2.03	1.12	0.91			
65-69	14.05	5.72	8.34	6.51	3.02	2.44	1.05	1.82	0.91	0.91			
70-74	10.97	3.96	7.01	5.36	2.35	2.05	0.96	1.66	0.76	0.90			
75-79	8.24	2.89	5.35	3.95	1.78	1.41	0.75	1.40	0.48	0.92			
80-84	5.79	1.47	4.31	2.81	1.16	1.07	0.59	1.50	0.34	1.16			
85 and +	3.97	0.69	3.28	1.41	0.56	0.36	0.49	1.87	0.34	1.54			
		Woman			Profile IV			Profile V			Profile VI		
Age group	Total life expectancy	Active life expectancy	Disability life expectancy	Mild disability life expectancy	Profile II	Profile III	Profile IV	Moderate or severe disability life expectancy	Profile V	Profile VI			
60-64	22.04	7.62	14.42	11.01	4.65	4.13	2.24	3.41	2.20	1.20			
65-69	17.96	5.56	12.40	9.34	3.84	3.52	1.98	3.05	1.82	1.23			
70-74	14.05	3.67	10.38	7.60	2.88	3.02	1.69	2.78	1.51	1.27			
75-79	10.48	2.01	8.47	5.79	2.00	2.40	1.39	2.67	1.35	1.32			
80-84	7.21	1.14	6.07	3.85	1.11	1.70	1.05	2.22	1.03	1.18			
85 and +	4.90	0.53	4.36	2.81	0.80	1.37	0.63	1.55	0.65	0.90			

Table 3.2A
**Total life expectancy, proportion of remaining life time in active state
 and proportion of remaining life time with disability, by types and degrees of disability, sex and age groups**
Buenos Aires DF (Argentina) - 2000

Age group	Total life expectancy	Active life	Life with disability	Mild disabilities			Moderate or severe disabilities		
				Man			Woman		
				Profile II	Profile III	Profile IV	Moderate or severe disability	Profile V	Profile VI
60-64	17.42	0.45	0.55	0.44	0.21	0.17	0.07	0.12	0.06
65-69	14.05	0.41	0.59	0.46	0.22	0.17	0.07	0.13	0.06
70-74	10.97	0.36	0.64	0.49	0.21	0.19	0.09	0.15	0.08
75-79	8.24	0.35	0.65	0.48	0.22	0.17	0.09	0.17	0.11
80-84	5.79	0.25	0.75	0.49	0.20	0.18	0.10	0.26	0.20
85 and +	3.97	0.17	0.83	0.36	0.14	0.09	0.12	0.47	0.39

Table 3.1B
**Total life expectancy, active life expectancy
 and life expectancy with disability, by types and degrees of disability, sex and age groups
 Bridgetown (Barbados) – 2000**

		Mild disabilities				Moderate or severe disabilities			
		Man				Woman			
Age group	Total life expectancy	Active life expectancy	Disability life expectancy	Mild disability life expectancy	Profile II	Profile III	Moderate or severe disability life expectancy	Profile IV	Profile V
60-64	18.56	9.62	8.95	5.48	2.35	3.13	3.46	3.08	0.38
65-69	15.20	7.25	7.95	4.63	1.96	2.67	3.32	2.97	0.35
70-74	12.34	5.27	7.07	3.93	1.60	2.32	3.15	2.81	0.34
75-79	10.05	3.83	6.22	3.25	1.36	1.89	2.97	2.67	0.31
80-84	8.31	2.58	5.72	3.07	1.23	1.84	2.66	2.29	0.36
85 and +	6.65	1.63	5.02	2.59	1.02	1.56	2.43	2.21	0.22

Table 3.2B
Total life expectancy, proportion of remaining life time in active state
and proportion of remaining life time with disability, by types and degrees of disability, sex and age groups
Bridgetown (Barbados) – 2000

Age group	Total life expectancy	Man						Moderate or severe disabilities		
		Mild disabilities			Profile III			Moderate or severe disability	Profile IV	Profile V
		Active life expectancy	Disability life expectancy	Mild disability	Profile II	Profile III	Moderate or severe disability	Profile IV	Profile V	
60-64	18.56	0.52	0.48	0.30	0.13	0.17	0.19	0.17	0.02	
65-69	15.20	0.48	0.52	0.30	0.13	0.18	0.22	0.20	0.02	
70-74	12.34	0.43	0.57	0.32	0.13	0.19	0.25	0.23	0.03	
75-79	10.05	0.38	0.62	0.32	0.14	0.19	0.30	0.27	0.03	
80-84	8.31	0.31	0.69	0.37	0.15	0.22	0.32	0.28	0.04	
85 and +	6.65	0.24	0.76	0.39	0.15	0.24	0.37	0.33	0.03	
Woman										
Age group	Total life expectancy	Woman						Moderate or severe disabilities		
		Active life expectancy	Disability life expectancy	Mild disability	Profile II	Profile III	Moderate or severe disability	Profile IV	Profile V	
60-64	23.59	0.42	0.58	0.30	0.15	0.15	0.28	0.24	0.05	
65-69	19.85	0.38	0.62	0.29	0.14	0.15	0.32	0.27	0.06	
70-74	16.18	0.34	0.66	0.29	0.13	0.15	0.37	0.30	0.07	
75-79	13.08	0.28	0.72	0.28	0.12	0.16	0.44	0.35	0.09	
80-84	10.51	0.24	0.76	0.27	0.11	0.17	0.48	0.38	0.10	
85 and +	8.30	0.21	0.79	0.25	0.07	0.18	0.54	0.41	0.13	

Table 3.1C
**Total life expectancy, active life expectancy
 and life expectancy with disability, by types and degrees of disability, sex and age groups
 Sao Paulo (Brazil) - 2000**

		Mild disabilities				Moderate or severe disabilities				
		Man		Woman		Man		Woman		
Age group	Total life expectancy	Active life expectancy	Disability life expectancy	Mild disability life expectancy	Mild disability life expectancy	Profile II	Moderate or severe disability life expectancy	Profile III	Profile IV	Profile V
60-64	17.43	8.48	8.95	2.89	2.89	2.42	6.07	2.35	1.94	1.78
65-69	14.30	6.36	7.94	2.42	2.42	2.42	5.52	2.09	1.62	1.81
70-74	11.58	4.61	6.97	1.87	1.87	1.87	5.10	1.90	1.40	1.80
75-79	9.06	3.07	5.99	1.48	1.48	1.48	4.50	1.73	1.09	1.69
80-84	6.80	1.72	5.08	1.04	1.04	1.04	4.04	1.47	0.76	1.82
85 and +	5.24	0.93	4.31	0.62	0.62	0.62	3.69	0.93	0.50	2.26

Table 3.2C
Total life expectancy, proportion of remaining life time in active state
and proportion of remaining life time with disability, by types and degrees of disability, sex and age groups
Sao Paulo (Brazil) - 2000

Age group	Total life expectancy	Man						Woman					
		Mild disabilities			Moderate or severe disabilities			Mild disabilities			Moderate or severe disabilities		
		Active life	Disability life	Mild disability	Profile II	Moderate or severe disability	Profile III	Profile IV	Profile V	Profile II	Moderate or severe disability	Profile III	Profile IV
60-64	17.43	0.49	0.51	0.17	0.17	0.35	0.13	0.11	0.10	0.32	0.68	0.41	0.19
65-69	14.30	0.44	0.56	0.17	0.17	0.39	0.15	0.11	0.13	0.29	0.71	0.45	0.18
70-74	11.58	0.40	0.60	0.16	0.16	0.44	0.16	0.12	0.16	0.34	0.66	0.50	0.19
75-79	9.06	0.34	0.66	0.16	0.16	0.50	0.19	0.12	0.19	0.25	0.75	0.59	0.22
80-84	6.80	0.25	0.75	0.15	0.15	0.59	0.22	0.11	0.27	0.18	0.82	0.70	0.18
85 and +	5.24	0.18	0.82	0.12	0.12	0.70	0.18	0.10	0.43	0.09	0.91	0.77	0.14

Table 3.1D
**Total life expectancy, active life expectancy
 and life expectancy with disability, by types and degrees of disability, sex and age groups
 Havana (Cuba) - 2000**

		Mild disabilities				Moderate or severe disabilities			
		Man				Woman			
Age group	Total life expectancy	Active life expectancy	Disability life expectancy	Mild disability life expectancy	Profile II	Moderate or severe disability life expectancy	Profile III	Profile IV	Profile V
60-64	20.55	8.95	11.60	4.22	7.38	4.18	1.90	1.29	
65-69	16.88	6.70	10.18	3.53	6.65	3.65	1.68	1.32	
70-74	13.57	4.85	8.72	2.88	5.85	3.13	1.34	1.37	
75-79	10.62	3.16	7.46	2.36	5.10	2.66	0.99	1.45	
80-84	8.13	1.77	6.36	1.66	4.70	2.46	0.78	1.46	
85 and +	6.22	0.96	5.26	1.13	4.13	1.77	0.78	1.58	

Table 3.2D
**Total life expectancy, proportion of remaining life time in active state
 and proportion of remaining life time with disability, by types and degrees of disability, sex and age groups
 Havana (Cuba) - 2000**

Age group	Total life expectancy	Active life expectancy	Disability life expectancy	Mild disabilities		Moderate or severe disabilities	
				Profile II	Moderate or severe disability	Profile III	Profile IV
Man							
60-64	20.55	0.44	0.56	0.21	0.21	0.36	0.20
65-69	16.88	0.40	0.60	0.21	0.21	0.39	0.22
70-74	13.57	0.36	0.64	0.21	0.21	0.43	0.23
75-79	10.62	0.30	0.70	0.22	0.22	0.48	0.25
80-84	8.13	0.22	0.78	0.20	0.20	0.58	0.30
85 and +	6.22	0.15	0.85	0.18	0.18	0.66	0.28
Woman							
Age group	Total life expectancy	Active life expectancy	Disability life expectancy	Mild disability	Profile II	Moderate or severe disability	Profile V
60-64	22.68	0.26	0.74	0.26	0.26	0.49	0.20
65-69	18.73	0.22	0.78	0.26	0.26	0.52	0.21
70-74	15.07	0.20	0.80	0.24	0.24	0.56	0.21
75-79	11.92	0.15	0.85	0.23	0.23	0.62	0.23
80-84	8.97	0.11	0.89	0.18	0.18	0.71	0.23
85 and +	6.69	0.08	0.92	0.14	0.14	0.78	0.21

Table 3.1.E
**Total life expectancy, active life expectancy
 and life expectancy with disability, by types and degrees of disability, sex and age groups**
Mexico DF (Mexico) - 2000

Age group	Man						Mild disabilities			Moderate or severe disabilities		
	Total life expectancy	Active life expectancy	Disability life expectancy	Mild disability life expectancy	Profile II	Profile III	Profile IV	Moderate and severe disability life expectancy	Profile V	Profile VI		
60-64	20.38	8.63	11.75	8.40	2.71	2.21	3.48	3.34	1.67	1.67		
65-69	16.93	6.46	10.47	7.35	2.35	2.00	2.99	3.12	1.57	1.55		
70-74	13.82	4.46	9.36	6.28	1.98	1.77	2.53	3.08	1.50	1.58		
75-79	11.09	2.73	8.36	5.33	1.68	1.51	2.14	3.03	1.45	1.58		
80-84	8.76	1.49	7.27	4.55	1.30	1.43	1.82	2.72	0.89	1.82		
85 and +	6.89	0.68	6.21	3.62	0.84	1.28	1.50	2.59	1.04	1.55		
Woman												
Age group	Woman						Mild disabilities			Moderate and severe disabilities		
	Total life expectancy	Active life expectancy	Disability life expectancy	Mild disability life expectancy	Profile II	Profile III	Profile IV	Moderate and severe disability life expectancy	Profile V	Profile VI		
60-64	22.30	8.13	14.17	9.35	3.22	1.81	4.32	4.82	2.09	2.73		
65-69	18.44	6.00	12.44	7.80	2.42	1.54	3.83	4.64	1.82	2.82		
70-74	14.92	4.20	10.72	6.43	1.88	1.22	3.33	4.29	1.48	2.81		
75-79	11.81	2.75	9.06	5.02	1.27	1.06	2.69	4.04	1.18	2.86		
80-84	9.14	1.65	7.49	3.38	0.64	0.92	1.81	4.11	0.83	3.28		
85 and +	7.04	0.46	6.57	2.16	0.17	0.71	1.28	4.42	0.70	3.71		

Table 3.2E
Total life expectancy, proportion of remaining life time in active state
and proportion of remaining life time with disability, by types and degrees of disability, sex and age groups
Mexico DF (Mexico) - 2000

Age group	Total life expectancy	Active life expectancy	Disability life expectancy	Mild disability	Mild disabilities			Moderate or severe disabilities		
					Profile II	Profile III	Profile IV	Moderate or severe disability	Profile V	Profile VI
60-64	20.38	0.42	0.58	0.41	0.13	0.11	0.17	0.16	0.08	0.08
65-69	16.93	0.38	0.62	0.43	0.14	0.12	0.18	0.18	0.09	0.09
70-74	13.82	0.32	0.68	0.45	0.14	0.13	0.18	0.22	0.11	0.11
75-79	11.09	0.25	0.75	0.48	0.15	0.14	0.19	0.27	0.13	0.14
80-84	8.76	0.17	0.83	0.52	0.15	0.16	0.21	0.31	0.10	0.21
85 and +	6.89	0.10	0.90	0.53	0.12	0.19	0.22	0.38	0.15	0.23
Woman										
Age group	Total life expectancy	Active life expectancy	Disability life expectancy	Mild disability	Profile II	Profile III	Profile IV	Moderate or severe disability	Profile V	Profile VI
60-64	22.30	0.36	0.64	0.42	0.14	0.08	0.19	0.22	0.09	0.12
65-69	18.44	0.33	0.67	0.42	0.13	0.08	0.21	0.25	0.10	0.15
70-74	14.92	0.28	0.72	0.43	0.13	0.08	0.22	0.29	0.10	0.19
75-79	11.81	0.23	0.77	0.43	0.11	0.09	0.23	0.34	0.10	0.24
80-84	9.14	0.18	0.82	0.37	0.07	0.10	0.20	0.45	0.09	0.36
85 and +	7.04	0.07	0.93	0.31	0.02	0.10	0.18	0.63	0.10	0.53

Table 3.1F
**Total life expectancy, active life expectancy
 and life expectancy with disability, by types and degrees of disability, sex and age groups**
Montevideo (Uruguay) - 2000

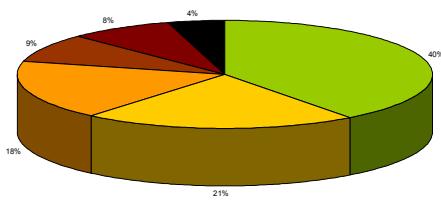
Age group	Total life expectancy	Mild disabilities					Moderate or severe disabilities		
		Active life expectancy	Disability life expectancy	Mild disability life expectancy	Profile II	Profile III	Moderate or severe disability life expectancy	Profile IV	Profile V
60-64	17.57	9.85	7.73	4.59	2.67	1.92	3.14	0.78	2.36
65-69	14.19	7.42	6.78	3.91	2.36	1.55	2.87	0.63	2.23
70-74	11.49	5.61	5.88	3.25	2.09	1.15	2.63	0.54	2.09
75-79	9.05	3.75	5.30	2.72	1.91	0.81	2.58	0.50	2.08
80-84	6.93	2.55	4.38	1.95	1.35	0.59	2.43	0.43	2.01
85 and +	5.17	1.75	3.42	1.09	0.63	0.46	2.32	0.49	1.83
Woman									
Age group	Total life expectancy	Active life expectancy	Disability life expectancy	Mild disability life expectancy	Profile II	Profile III	Moderate or severe disability life expectancy	Profile IV	Profile V
60-64	22.92	9.30	13.62	8.14	4.58	3.56	5.48	0.67	4.81
65-69	18.91	7.26	11.65	6.67	3.89	2.78	4.98	0.62	4.37
70-74	15.22	5.62	9.59	5.11	2.95	2.16	4.49	0.55	3.94
75-79	11.80	4.00	7.81	3.60	1.94	1.66	4.21	0.47	3.74
80-84	8.92	2.82	6.10	2.46	1.27	1.18	3.64	0.42	3.22
85 and +	6.51	1.77	4.74	1.70	0.74	0.96	3.04	0.46	2.58

Table3.2F
**Total life expectancy, proportion of remaining life time in active state
 and proportion of remaining life time with disability, by types and degrees of disability, sex and age groups**
Montevideo (Uruguay) - 2000

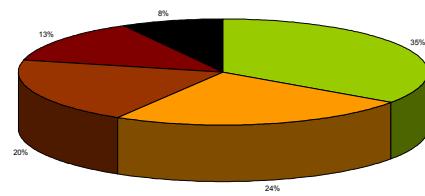
Age group	Total life expectancy	Active life expectancy	Disability life expectancy	Mild disabilities			Moderate or severe disabilities		
				Mild disability	Profile II	Profile III	Moderate or severe disability	Profile IV	Profile V
60-64	17.57	0.56	0.44	0.26	0.15	0.11	0.18	0.04	0.13
65-69	14.19	0.52	0.48	0.28	0.17	0.11	0.20	0.04	0.16
70-74	11.49	0.49	0.51	0.28	0.18	0.10	0.23	0.05	0.18
75-79	9.05	0.41	0.59	0.30	0.21	0.09	0.28	0.06	0.23
80-84	6.93	0.37	0.63	0.28	0.20	0.09	0.35	0.06	0.29
85 and +	5.17	0.34	0.66	0.21	0.12	0.09	0.45	0.09	0.35
Woman									
Age group	Total life expectancy	Active life expectancy	Disability life expectancy	Mild disability	Profile II	Profile III	Moderate or severe disability	Profile IV	Profile V
60-64	22.92	0.41	0.59	0.36	0.20	0.16	0.24	0.03	0.21
65-69	18.91	0.38	0.62	0.35	0.21	0.15	0.26	0.03	0.23
70-74	15.22	0.37	0.63	0.34	0.19	0.14	0.29	0.04	0.26
75-79	11.80	0.34	0.66	0.31	0.16	0.14	0.36	0.04	0.32
80-84	8.92	0.32	0.68	0.28	0.14	0.13	0.41	0.05	0.36
85 and +	6.51	0.27	0.73	0.26	0.11	0.15	0.47	0.07	0.40

Graph 1A-F
Composition of functioning of older persons, both sexes
SABE urban areas - 2000

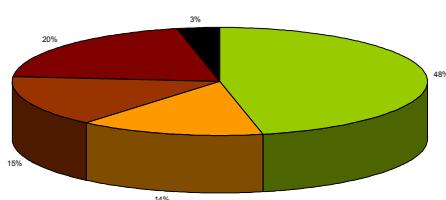
Graph 1 A
Buenos Aires DF



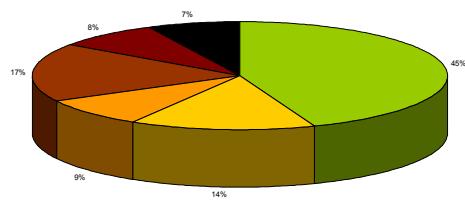
Graph 1 D
Havana



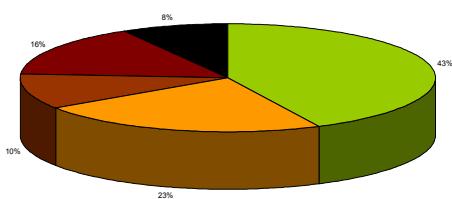
Graph 1 B
Bridgetown



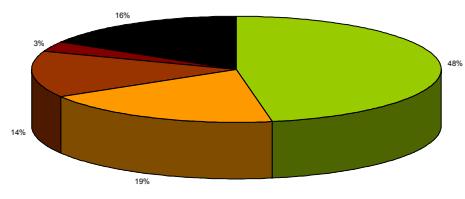
Graph 1 E
Mexico DF



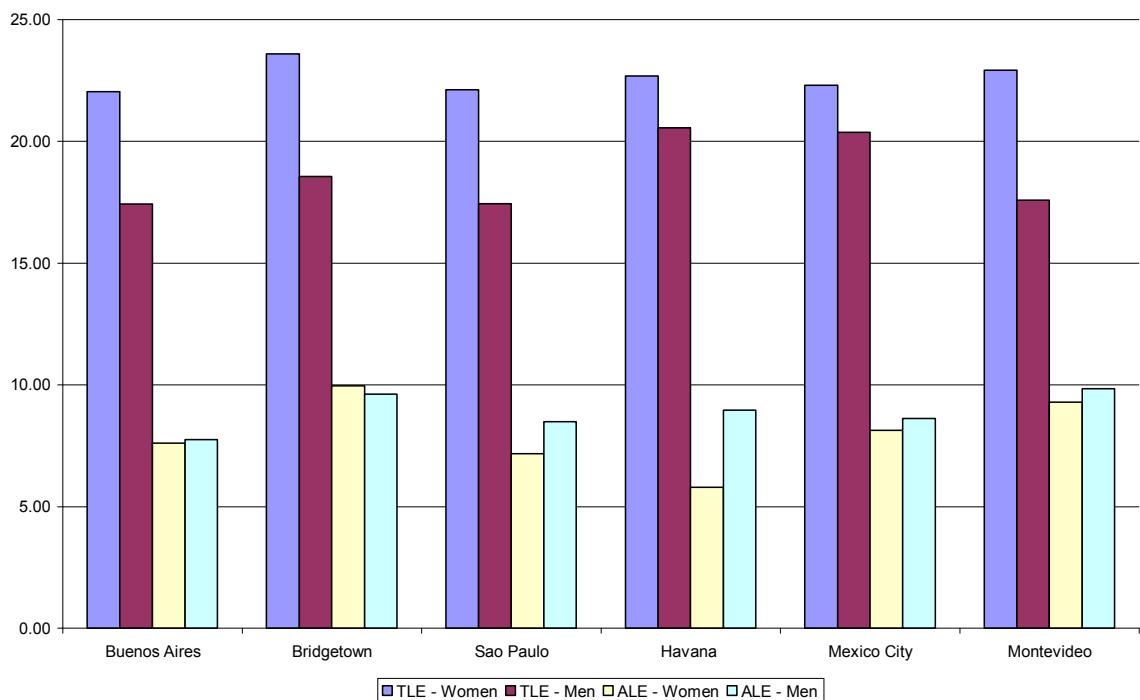
Graph 1 C
Sao Paulo



Graph 1 F
Montevideo

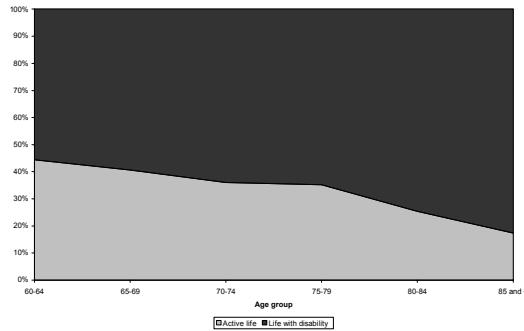


Graph 2
Life expectancy and active life expectancy at 60 years, by sex
SABE urban areas – 2000

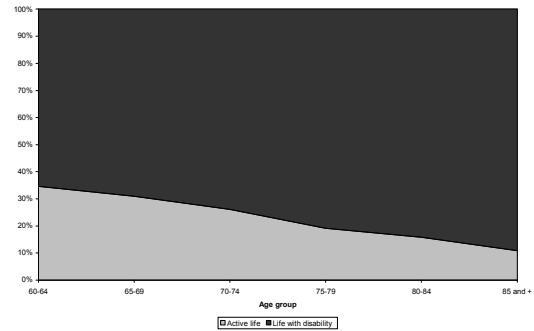


Graph 3A1-F2
Proportion of remaining life time
active and with disabilities, by age group
SABE urban areas – 2000

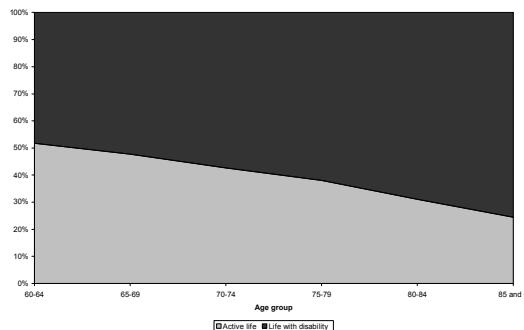
Graph 3A1
Buenos Aires DF
Man



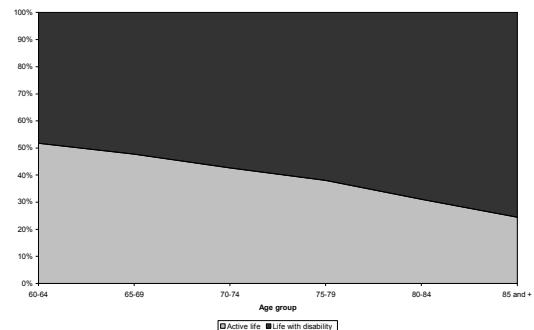
Graph 3A2
Buenos Aires DF
Woman



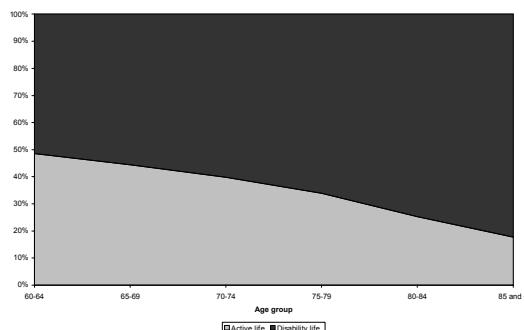
Graph 3B1
Bridgetown
Man



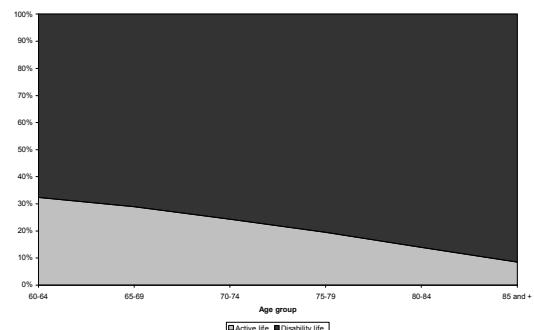
Graph 3B2
Bridgetown
Woman



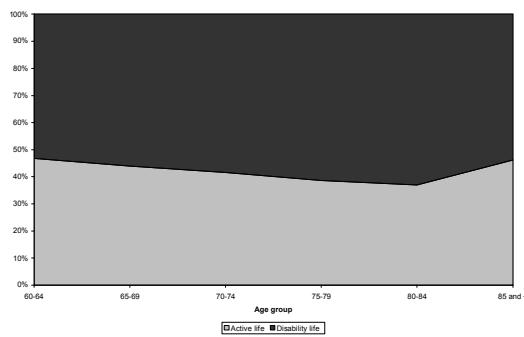
Graph 3C1
Sao Paulo
Man



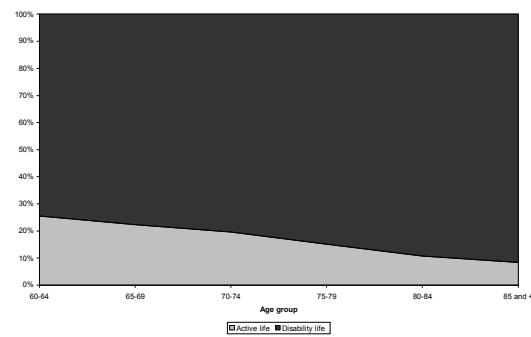
Graph 3C2
Sao Paulo
Woman



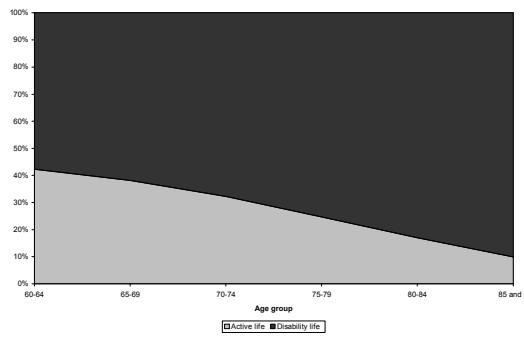
Graph 3D1
Havana
Man



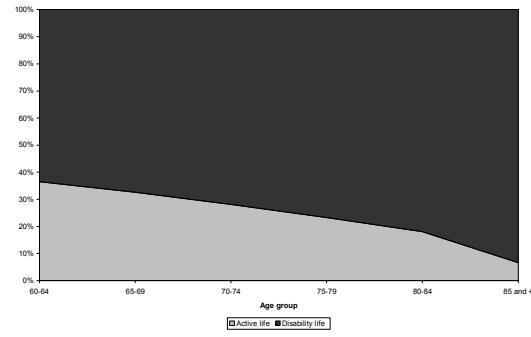
Graph 3D2
Havana
Woman



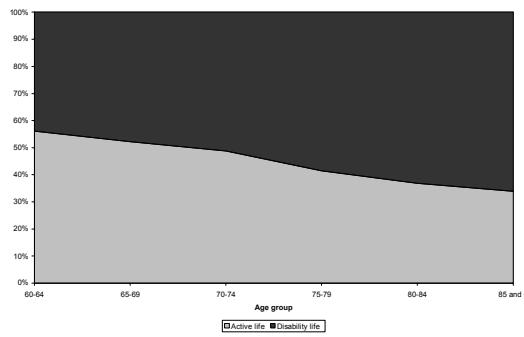
Graph 3E1
Mexico DF
Man



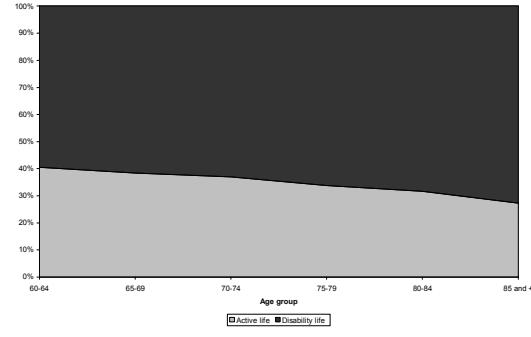
Graph 3E2
Mexico DF
Woman



Graph 3F1
Montevideo
Man

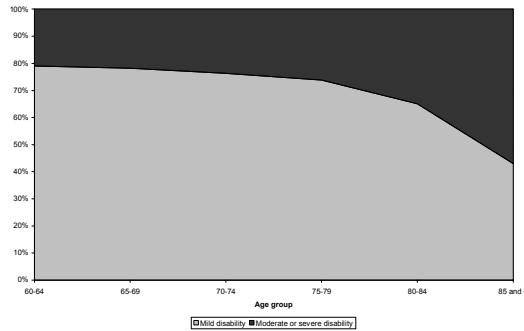


Graph 3F2
Montevideo
Man

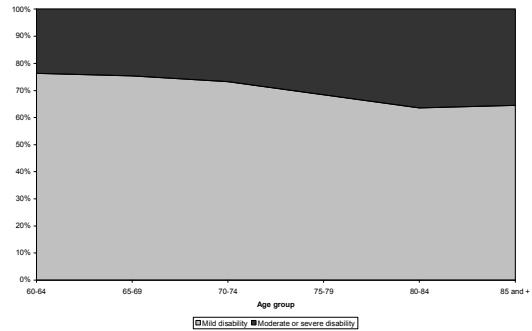


Graph 4A-F
Proportion of remaining life time with mild and moderate or severe disabilities, by age group
SABE urban areas – 2000

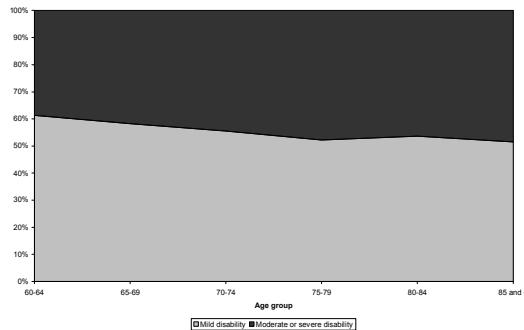
Graph 4A1
Buenos Aires DF
Man



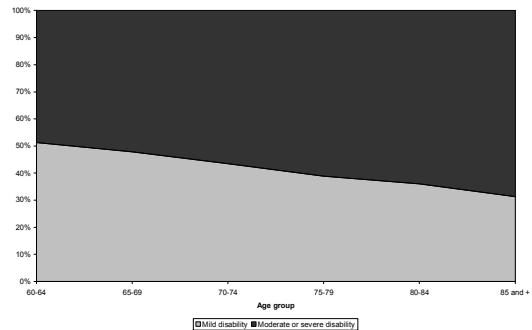
Graph 4A2
Buenos Aires DF
Woman



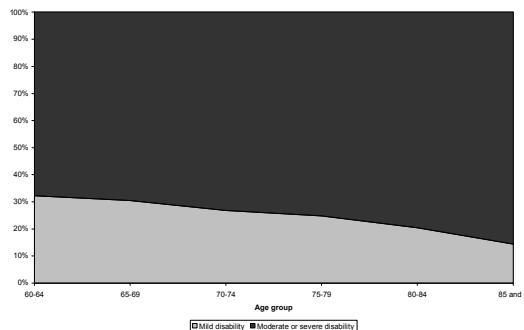
Graph 4B1
Bridgetown
Man



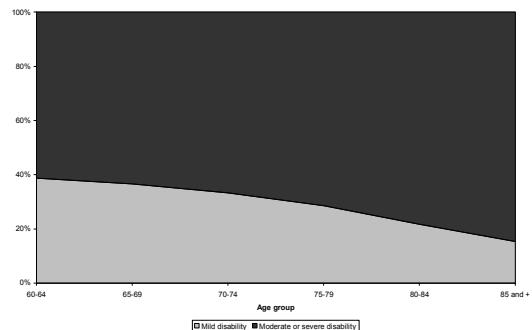
Graph 4B2
Bridgetown
Woman



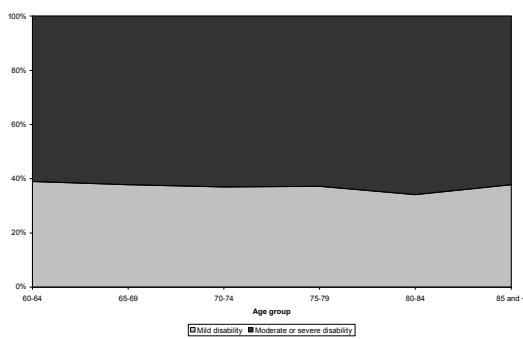
Graph 4C1
Sao Paulo
Man



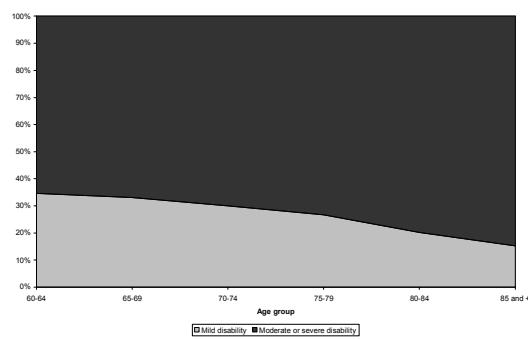
Graph 4C2
Sao Paulo
Woman



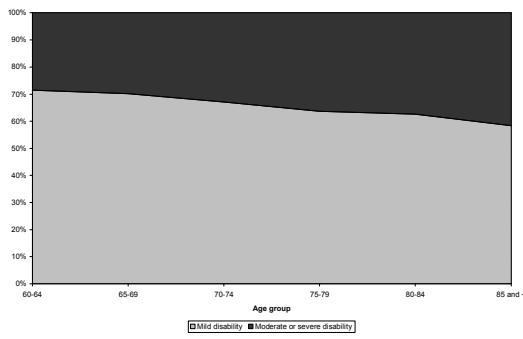
Graph 4D1
Havana
Man



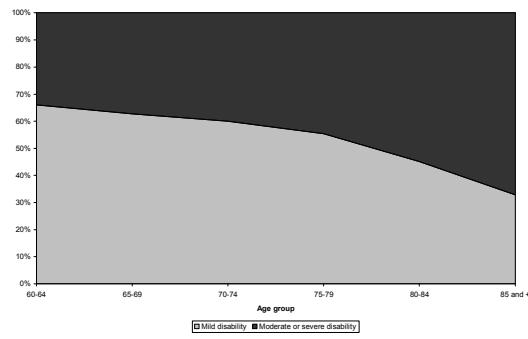
Graph 4D2
Havana
Woman



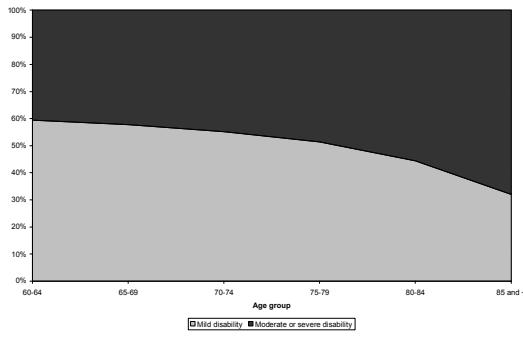
Graph 4E1
Mexico DF
Man



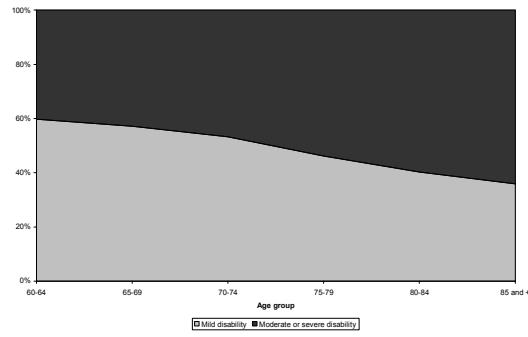
Graph 4E2
Mexico DF
Woman



Graph 4F1
Montevideo
Man



Graph 4F2
Montevideo
Woman



Graph 5A-F
**Proportion of remaining life time with disability,
 by functioning profiles and age group**
SABE urban areas – 2000

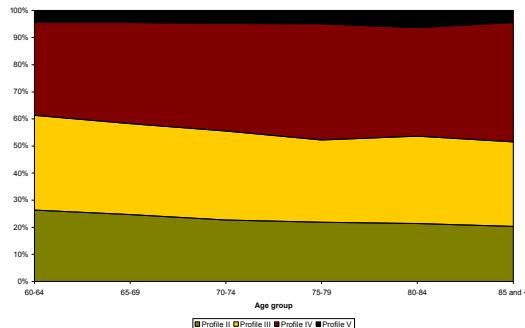
Graph 5A1
Buenos Aires DF
Man



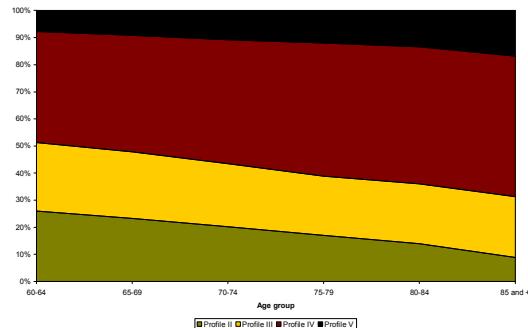
Graph 5A2
Buenos Aires DF
Woman



Graph 5B1
Bridgetown
Man



Graph 5B2
Bridgetown
Woman



Graph 5C1
Sao Paulo
Man



Graph 5C2
Sao Paulo
Woman



Graph 5D1
Havana
Man



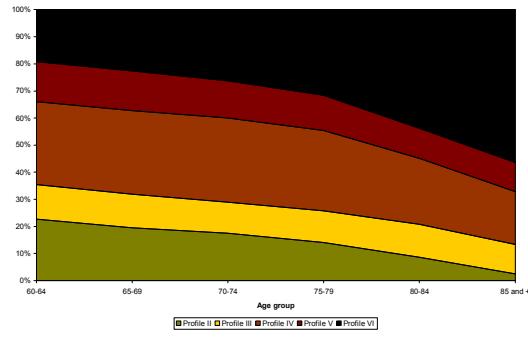
Graph 5D2
Havana
Woman



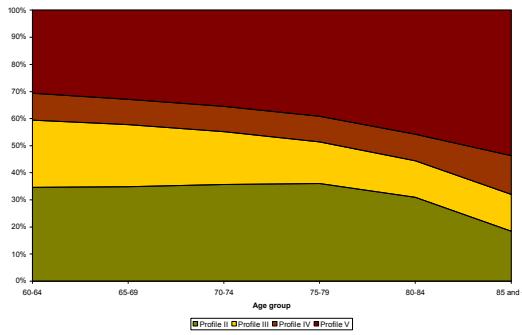
Graph 5E1
Mexico DF
Man



Graph 5E2
Mexico DF
Woman



Graph 5F1
Montevideo
Man



Graph 5F2
Montevideo
Man

