Agota Szende Bas Janssen <u>Juan Cabases</u> *Editors*

Self-Reported Population Health: An International Perspective based on EQ-5D





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Agota Szende • Bas Janssen Juan Cabasés Editors

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The EuroQol Group

- The EuroQol Group is a network of international multidisciplinary researchers devoted to the measurement of health status. Established in 1987, the EuroQol Group originally consisted of researchers from Europe, but nowadays includes members from North and South America, Asia, Africa, Australia, and New Zealand. The Group is responsible for the development of EQ-5D, a preference-based measure of health status that is now widely used in clinical trials, observational studies, and other health surveys. The EuroQol Group has been holding annual scientific meetings since its inception in 1987.
- The EuroQol Group can be justifiably proud of its collective scientific achievements over the last 20 years. Research areas include valuation, EQ-5D use in clinical studies and in population surveys, experimentation with the EQ-5D descriptive system, computerized applications, interpretation of EQ-5D ratings, and the role of EQ-5D in measuring social inequalities in self-reported health.
- The EuroQol Group's website (www.euroqol.org) contains detailed information about EQ-5D, guidance for users, a list of available language versions, EQ-5D references, and contact details.
- EQ-5D is a standardized measure of health status developed by the EuroQol Group in order to provide a simple, generic measure of health for clinical and economic appraisal. Applicable to a wide range of health conditions and treatments, it provides a simple descriptive profile and a single index value for health status that can be used in the clinical and economic evaluation of health care as well as in population health surveys.

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Glossary of EQ-5D Terms

EQ-5D-3L	Descriptive system of health-related quality of life states consisting of five dimensions (mobility, self-care, usual activities, pain/discomfort, anxiety/depression). Each dimension has three responses recording three levels of severity (no problems/some or moderate problems/extreme problems) within a particular EQ-5D dimension.
EQ-5D-5L	Descriptive system of health-related quality of life states consisting of five dimensions (mobility, self-care, usual activities, pain/discomfort, anxiety/depression). Each dimension has five responses recording five levels of severity (no problems/slight problems/moderate problems/ severe problems/extreme problems) within a particular EQ-5D dimension.
EQ-5D-Y	EQ-5D-Y Youth version. Descriptive system of youth health-related quality of life states consisting of five dimensions (mobility, looking after myself, doing usual activities, having pain or discomfort, feeling worried, sad, or unhappy). Each dimension has three responses recording three levels of severity (no problems/some problems or a bit/a lot (of) problems or very) within a particular EQ-5D dimension.
EQ-5D descriptive system	Standard layout for the above five-dimensional descriptive system for recording an individual's current EQ-5D self-reported health state (often referred to as page 2 of the EQ-5D questionnaire).
EQ-5D Self-reported health state	An EQ-5D health state recorded by an individual on the EQ-5D descriptive system.

EQ-5D self-report

EQ-5D valuation questionnaire

questionnaire

EQ VAS Standard vertical 20-cm visual analogue scale (similar to a

thermometer) for recording an individual's rating for their current health-related quality of life state (often referred to

as page 3 of the EQ-5D questionnaire).

EQ VAS score Score recorded by an individual for their current

health-related quality of life state on the EQ VAS.

EQ SDQ Standard set of questions concerning socio-demographic

variables for use with the EQ-5D valuation questionnaire

and a modified version for use with the EQ-5D questionnaire. These questions are optional for users.

Questionnaire, of standard layout, consisting of the EQ-5D

descriptive system, the EQ VAS, and (if required) the

modified version of the EQ SDQ.

Questionnaire, of standard layout, consisting of the EQ-5D questionnaire (including full EQ SDQ) in addition to the

EQ-5D VAS, and a standard set of instructions.

EQ-5D index value
Index value attached to an EQ-5D state according to a

particular set of weights or value set.

EQ-5D value set A scoring algorithm that can be used to attach a single

index value to each EQ-5D state using a scale anchored at 1 = full health and 0 = dead. Value sets are derived from EQ-5D valuation surveys normally conducted on a representative sample of the general population of specific

countries or regions, typically using the EQ-5D VAS rating

scale or the time trade-off techniques.

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Chapter 1 Introduction

Juan Cabasés and Rosalind Rabin

1.1 Purpose of This Book

During the 26 years since EQ-5D was first developed, a substantial amount of research has been carried out worldwide using the instrument. Among these studies were surveys conducted in various countries that measured the health-related quality of life of the general population. These studies have been informative in providing new data on population health characteristics, complementing the traditionally collected morbidity and mortality data.

The EuroQol Group is frequently asked to provide EQ-5D population reference data (sometimes called population norm data or simply population norms) for a specific country or international region. Such data can be used to compare profiles for patients with specific conditions with data for the average person in the general population in a similar age and/or gender group. Also the burden of disease in question can be compared to the general population's health.

In response to the increasing need for EQ-5D population reference data, the EuroQol Group established the Self-Reported Health Task Force whose objectives were as follows:

- Updating the international EQ-5D general population database archive.
- Providing easy-to-use tables with population norm data for individual countries.
- Illustrating the potential use of EQ-5D data in population health studies.
- Providing a recommended format to present and analyse EQ-5D data collected from future surveys.

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A first booklet summarised this work and presented population norms from population surveys conducted in 15 countries (Szende and Willimas 2004). The current book presents the population norms for 24 countries and some of their regions as well as results of some additional analyses of population health based on EQ-5D, including EQ-5D index norms.

The target audiences for this book are researchers using EQ-5D to collect data from patients or members of the general population and policy-makers using the collected information in health care decision-making. Readers wishing to learn more are encouraged to contact the EuroQol Group Executive Office (userinformationservice@euroqol.org).

1.2 EQ-5D

EQ-5D is a standardized health-related quality of life questionnaire developed by the EuroQol Group in order to provide a simple, generic measure of health for clinical and economic appraisal (EuroQol Group 1990). Applicable to a wide range of health conditions and treatments, it provides a simple descriptive profile, a self-report visual analogue scale and a single index value for health status that can be used in the clinical and economic evaluation of health care as well as in population health surveys (Fig. 1.1).

EQ-5D is designed for self-completion by respondents and is suited for use in postal surveys, web-based applications, and in face-to-face interviews. It is cognitively undemanding, taking only a few minutes to complete. The instructions to respondents are included in the questionnaire.

The EQ-5D consists of 2 pages – the EQ-5D descriptive system (page 2) and the EQ VAS (page 3). The EQ-5D descriptive system comprises five dimensions: mobility, self-care, usual activities, pain/discomfort and anxiety/depression. The EQ-5D is available in three level and five level response options, EQ-5D-3L and EQ-5D-5L, respectively, and a youth version, EQ-5D-Y.

The EQ-5D-3L (EQ-5D 3 level) was introduced in 1990 and is available in more than 160 translated versions. Although the EQ-5D-3L was initially designed for self-completion in paper-and-pencil format, EQ-5D-3L data are currently also collected electronically by web or tablet versions, or by following a telephone interviewer script. Each dimension has three levels: no problems, some problems, severe problems/unable to. The respondent is asked to indicate his/her health state by ticking (or placing a cross) in the box against the most appropriate statement in each of the five dimensions. This decision results in a 1-digit number expressing the level selected for that dimension. The digits for the five dimensions can be combined in a 5-digit number ('profile') describing the respondent's health state. It should be noted that the numerals 1–3 have no arithmetic properties and should not be used as a cardinal score.

The EQ VAS records the respondent's self-rated health on a vertical, visual analogue scale where the endpoints are labelled 'Best imaginable health state' and

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By placing a tick in one box in each group below, please indicate which statements best describe your own health state today.

Mobility	
I have no problems in walking about	
I have some problems in walking about	
I am confined to bed	
Self-Care	
I have no problems with self-care	
I have some problems washing or dressing myself	
I am unable to wash or dress myself	
Usual Activities (e.g. work, study, housework, family or leisure activities)	
I have no problems with performing my usual activities	
I have some problems with performing my usual activities	
I am unable to perform my usual activities	
Pain/Discomfort	
I have no pain or discomfort	
I have moderate pain or discomfort	
I have extreme pain or discomfort	
Anxiety/Depression	
I am not anxious or depressed	
I am moderately anxious or depressed	
I am extremely anxious or depressed	

Fig. 1.1 EQ-5D-3L

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To help people say how good or bad a health state is, we have drawn a scale (rather like a thermometer) on which the best state you can imagine is marked 100 and the worst state you can imagine is marked 0.

We would like you to indicate on this scale how good or bad your own health is today, in your opinion. Please do this by drawing a line from the box below to whichever point on the scale indicates how good or bad your health state is today.

> Your own health state

imaginable health state 100 9 0 8**\overline{4}**0 2<u><u></u> **=**0</u> Worst imaginable

health state

Best

Fig. 1.1 (continued)

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'Worst imaginable health state'. This information can be used as a quantitative measure of health outcome as judged by the individual respondents.

The responses to the EQ-5D dimensions can be used to obtain a single index value (EQ-5D index) for all health states described by the 5-digit number. Given the five dimension and three-level response option format of the EQ-5D-3L questionnaire, there are 243 possible health states plus dead and unconscious. An index value is attached to each EQ-5D state according to a particular set of weights or value sets that measure health states on a scale anchored at 1 = full health and 0 = dead. Value sets (previously also referred to as "tariffs") were based on representative samples of the general population (as opposed to patients) of a particular country or regions, and used a technique for valuing health states with the EQ-5D VAS rating scale or the Time Trade-Off technique. A distinction should be made between the EQ-VAS self-report question for measuring health outcome and the EQ-5D valuation questionnaire that is designed to collect valuations for health states defined by the EQ-5D descriptive system using the EQ-5D VAS rating scale.

The EQ-5D index values can be used in the estimations of Quality Adjusted Life Years (QALYs) as standard QALY calculations require valuations for all relevant health states on a scale anchored at 1= full health and 0= dead. While the EQ-5D index values (and QALYs based on it) are often used in economic evaluation to inform priority setting in health care, the EQ-5D index values are also useful as single index measures in clinical studies as well as in population health surveys.

After extensive research and preparation, the EuroQol Group launched the EQ-5D-5L self-complete version in 2009, with the aim of further improving the sensitivity and discriminatory power of the existing EQ-5D-3L version. The EQ-5D-5L (EQ-5D 5 level) is available in more than 100 translated versions. The EQ-5D-5L still consists of two pages – the EQ-5D-5L descriptive system (page 2) and the EQ visual Analogue scale (EQ VAS) (page 3). The descriptive system comprises the same five dimensions as the EQ-5D-3L. However, each dimension now has five levels: no problems, slight problems, moderate problems, severe problems, and extreme problems/unable.

The EQ-5D-Y (EQ-5D Youth version) is an EQ-5D-3L self complete version for children and adolescents aged 7–12. It is available in more than 25 languages.

All analyses and results in this book, however, are based on adult EQ-5D-3L and EQ VAS data.

1.3 The Structure of the Book

This book presents results from four main analyses of the international EQ-5D database.

Chapter 2 presents the data sources and methods of the book. General population surveys are accumulated from 24 countries (Table 2.1). Descriptive statistics are used to provide EQ-5D population norms by age and gender categories for EQ

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VAS, EQ-5D index values, and for the five dimensions. Correlations between country-specific EQ-5D data (EQ VAS and 5 dimensions) and country-specific economic and health system macro indicators are calculated in the cross-country analysis. Odds ratios and the health concentration index methodology are used in the socio-demographic analysis of EQ-5D data.

Chapter 3 presents the population norm data using EQ-5D for each country. EQ-5D norms are reported for EQ VAS and EQ-5D index values, and for self-reported problems on each of the five dimensions of the EQ-5D descriptive system, all classified by age and gender. These EQ-5D norms can be used as reference data to compare patients with specific conditions and to assess the burden of the disease in question.

Chapter 4 demonstrates that cross-country differences exist in EQ-5D outcomes after the population data is standardized for demographic differences. These cross-country differences in the general level of health are explained by looking at macro data on the economic and health system characteristics of each country. Results show that it is the prior living standards of a country that mostly explain cross-country differences in self-reported health.

Chapter 5 specifically addresses the distribution of health within the population and the degree to which age, gender, education level and country are responsible for inequalities in self-reported health. Usual activities and pain/discomfort were the highest contributors to overall inequalities in self-assessed health in most countries. Education had a consistent role in explaining a lower level of self-reported health. The level of inequalities in self-assessed health and the health inequality profile by EQ-5D dimension differed substantially across countries, deserving the attention of policy makers within each country.

Future population surveys using EQ-5D-3L or EQ-5D-5L may be integrated into the EuroQol archive of population survey datasets as they become available. Researchers planning to conduct new population surveys using EQ-5D should contact the EuroQol Group Executive Office (userinformationservice@euroqol.org).

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Chapter 2 Data and Methods

Bas Janssen, Agota Szende, and Juan Manuel Ramos-Goñi

2.1 International EQ-5D Archive of Population Surveys

The international EQ-5D database archive consists of 27 EQ-5D population surveys collected in 24 countries. Countries with 1 or more population surveys include: Argentina, Armenia, Belgium, Canada, China, Denmark, England, Finland, France, Germany, Greece, Hungary, Italy, Japan, Korea, the Netherlands, New Zealand, Slovenia, Spain, Sweden, Thailand, United Kingdom, United States, and Zimbabwe. The datasets are structured in a standardized format to facilitate comparative research, although each survey also has its own characteristics and variables specific to the individual research context in which they were conducted. In addition, three datasets from Argentina, China, and Sweden (Stockholm area) were analyzed locally and results were added to the book, as the dataset transfer to the central archive was not possible from these countries. The datasets captured by this book currently include observations on 216,703 individuals. For a more detailed account of the data, see Table 2.1.

All of the surveys used a standardized version of EQ-5D-3L. The Dutch, Swedish and Finnish versions were translated in 1987 according to a 'simultaneous' process while the remaining versions were translated according to the EuroQol Group's translation protocol – based on international guidelines. However, some differences between sampling and data collection methods should be noted.

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Table 2.1 National and Regional EQ-5D Population Surveys

	Source	Sample	Data	Survey method
Notional				in the state of th
Valional				
Argentina	Ministry of Health of Argentina 2005	41,392	2005	Face-to-face interviews on the 2005 Risk Factors Survey on a random selection of households representative also at regional level
Belgium	ESEMED, König et al. 2009	2,411	2001–2003	2001–2003 Personal computer-based home interviews on a national representative sample of the noninstitutionalized general adult population as part of the European Study of the Epidemiology of Mental Disorders (ESEMeD)
China	Household Health Survey 2010; Sun et al. 2011	8,031	2010	Face-to-face interviews on the representative 2010 Household Health Survey (HHS)
Denmark	Sorensen et al. 2009	16,861	2000–2001	2000–2001 Face-to-face interviews on three representative national surveys, including a national health interview survey undertaken by the National Institute of Public Health (SUSY-2000), a health survey undertaken in Funen County (Funen data set) and a national health survey undertaken by the University of Southern Denmark (SDU data
				set) with a total of 22,486 individuals
England	Health Survey for England 2010	14,763	2008	Computer assisted interviews on a randomly selected sample of households in England
Finland	Saarni et al. 2006	8,028	2000	Face-to-face interviews on the Health 2000 survey sample, which is a representative survey of the Finnish population aged 30 and over
France	ESEMED, König et al. 2009	2,892	2001–2003	2001–2003 Personal computer-based home interviews on a national representative sample of the noninstitutionalized general adult population as part of the European Study of the Epidemiology of Mental Disorders (ESEMeD)
Germany	ESEMED, König et al. 2009	3,552	2001–2003	Personal computer-based home interviews on a national representative sample of the noninstitutionalized general adult population as part of the European Study of the Epidemiology of Mental Disorders (ESEMeD)
Greece	Yfantopoulous 1999	464	1998	Face-to-face interviews on a sample of 500 individuals selected from the general population

Hungary	Szende and Nemeth 2003	5,503	2000	Self-administered questionnaire during a personal interview on a random sample of 7000 people from the electoral registry
Italy	ESEMED, König et al. 2009	4,709	2001–2003	Personal computer-based home interviews on a national representative sample of the noninstitutionalized general adult population as part of the European Study of the Epidemiology of Mental Disorders (ESEMeD)
Korea	Lee et al. 2009	1,307	2007	Face-to-face interviews on a random sample of the South Korean residential registry
Netherlands	ESEMED, König et al. 2009	2,367	2001–2003	Personal computer-based home interviews on a national representative sample of the noninstitutionalized general adult population as part of the European Study of the Epidemiology of Mental Disorders (ESEMeD)
New Zealand	Devlin et al. 2000	1,327	1999	Postal survey on a random sample of 3000 New Zealanders selected from the electoral roll
Slovenia	Prevolnik Rupel and Rebolj 2001	742	2000	Postal survey on a randomized sample of 3000 people selected from the general population
Spain	ESEMED, König et al. 2009	5,473	2001–2003	2001–2003 Personal computer-based home interviews on a national representative sample of the noninstitutionalized general adult population as part of the European Study of the Epidemiology of Mental Disorders (ESEMeD)
Sweden	Björk et al. 1999	534	1994	Postal survey on a randomized sample of 1000 Swedish citizens selected from the general population from an address register
Thailand	Tongsiri et al. 2011	1,409	2007	Face-to-face interviews on a random national sample provided by the national statistical office
United Kingdom	Kind et al. 1998	3,395	1993	Face-to-face interviews on a random sample of 5324 individuals selected from the general population (based on the Postcode Address file) from England, Scotland and Wales
United States	MEPS, Sullivan et al. 2005	38,678	2000–2002	Paper-and-pencil questionnaire among the Medical Expenditure Panel Survey participants, a nationally representative survey of the US civilian noninstitutionalized population. The research pooled 2000, 2001, and 2002 MEPS data on 23,839, 32,122, and 37,418 individuals

(continued)

Table 2.1 (continued)

	Source	size	collection	Survey method
Regional				
Armenia (5 regions)	Armenia (5 regions) Gharagebakyan 2003	2,217	2002	Face-to-face interviews on a random sample of 1300 households (2337 individuals) selected from the general population of 5 regions of Armenia (Yerevan city, Gegharkounik, Shirak, Lori, and Suinik)
Canada (Alberta)	HQCA 2010	5,010	2010	Computer Assisted Telephone Interviewing with a sample of 5010 adult Albertans
Japan (3 prefectures) Tsuchiya et al. 2002	Tsuchiya et al. 2002	620	1998	Face-to-face interviews on a random sample of 972 individuals selected from the general population (over age 20) of 3 Prefectures in Japan – Saitama, Hiroshima and Hokkaido
Spain (Canary Islands)	Canary Health Survey 2009	4,468	2009	Personal computer-based home interviews on a district representative regional Canaries Health Survey to 4600 individuals
Spain (Catalonia)	Catalunya Health Survey 2011	5,603	2011	Personal computer-based home interviews on a district representative regional Catalonia Continuous Health Survey in semester waves of 2500 individuals
Sweden (Stockholm Sun et al. 2012 county)	Sun et al. 2012	32,597	2006	Postal survey on a representative sample of the Stockholm County population aged 20–88 years
Zimbabwe (Harare) Jelsma 2003	Jelsma 2003	2,350	2000	Face-to-face interviews with 2488 residents from Glenview (a high density suburb of Harare). As compared to the 1992 census Harare Profile, males were underrepresented and there were more young and better educated respondents than in the general population

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Most importantly, while the majority of surveys were national representative surveys covering the whole of the country, some surveys covered a specific part (such as prefectures, regions or even city areas). Therefore, care should be exercised in generalizing data outside the geographic location captured by the data collection. Results in this book are reported separately for the national and the regional surveys.

Surveys also differed in sample sizes and in the method of data collection. The Argentinean dataset had the largest sample with over 41,000 respondents, while the Greek and the Swedish national surveys had the smallest sample of around 500 respondents. Some of the surveys were postal while others were performed as part of a face-to-face interview or administered by telephone. Since the questions asked in EQ-5D are very simple to answer, there is no reason to believe that there would be a significant impact on results other than differences in response rates.

While only the most recent national surveys were included in this book from each country, the date of data collection varied considerably across countries. Data collection for the majority of surveys took place during or after 2000, however some surveys were older with the United Kingdom and Swedish national datasets being the earliest from 1993 to 1994, respectively. These differences should be considered when interpreting results, given that health-related quality of life in general and specifically EQ-5D ratings and values could have changed over time.

Standardized variables across all datasets included reported problems by the five dimensions, self-reported EQ VAS ratings, and the EQ-5D index values. In addition, all analyses of EQ-5D data presented in this book focused on three main characteristics of the population: age, gender, and education level. Age in most surveys was measured as a continuous variable (life years), while gender was recorded as a categorical variable. Education level in each country was recoded to a three-level scale, distinguishing low (i.e. primary), medium (i.e. secondary), and high (i.e. university degree) education level.

All data analyses were performed using SPSS version 19 and Stata version 12 statistical software packages. All codes were checked and analyses were reproduced by a second analyst. The exact methodologies are described in the remainder of this chapter.

2.2 Methods of Describing EQ-5D Population Norms

The EuroQol Group is frequently asked to provide EQ-5D population reference data (sometimes called normative data) for a specific country or international region. Such data can be used as reference data to compare profiles for patients with specific conditions with data for the average person in the general population in a similar age and/or gender group. This comparison helps to identify the burden of disease in a particular patient population.

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Descriptive statistics are provided for EQ VAS, the five dimensions, and EQ-5D-3L index values for the total population and by gender and the following age groups: 18–24, 25–34, 35–44, 45–54, 55–64, 65–74, 75+ years.

EQ-5D index value calculations are provided using the following value sets (Szende et al. 2007):

- European VAS value set for all countries. Note that the European VAS value set was constructed using data from 11 valuation studies in 6 countries: Finland (1), Germany (3), The Netherlands (1), Spain (3), Sweden (1) and the UK (2). This survey included enough data from different European regions to make the European VAS dataset moderately representative for Europe. (Greiner et al. 2003; Weijnen et al. 2003).
- Country-specific time trade-off (TTO) value set if available. Note that the time trade-off (TTO) method has played an important role in generating value sets for the EQ-5D as one of the most widely accepted preference elicitation methods for health states (Torrance 1986) for economic evaluation and the method of choice in the first large-scale EQ-5D valuation study (Dolan 1997). Table 2.2 summarizes those 13 countries that have their own TTO value sets and describes the value sets.
- Country-specific VAS value set if available. Note that the Visual Analogue Scale (VAS) has become the other widely used method to elicit preferences for the EQ-5D, including nine countries. Table 2.3 summarizes countries that have their own VAS based value sets and describes the value sets, including the European value set.

This means that for countries with no available value set from their own general population, only the European VAS value set based EQ-5D index values are summarised. However, for countries with available TTO and/or VAS value sets, additional population norms of EQ-5D index values are calculated.

To summarize key results on reported problems, EQ VAS, and EQ-5D index values, countries are tabulated in alphabetic order and are not ranked. Detailed country-by-country results are provided in the appendices. Because the population norms data are presented by age and gender, there is no need for the sample to have the same age distribution as the general population in each country. Therefore the data that are presented in the tables have not been standardized for age or gender. This means that international comparisons across several age groups should be made with caution as the demographic build-up by age and gender varies between countries, and that the samples of the general population used to create the tables do not necessarily follow that same distribution. However, international comparisons of data contained in a single cell (i.e. 1 age and gender group) are valid. The following section describes the methodology used to analyse cross-country differences in EO-5D population data.

Fable 2.2 Coefficients for the estimation of the EO-5D index values based on TTO valuation studies

Country	Source	Model	MAD	Constant	MO2	МОЗ	SC2	SC3	UA2	UA3	PD2	PD3	AD2	AD3	N3	Other
Argentina	Augustovski 2009	OLS	0.039		-0.189	-0.272	-0.128	-0.209	-0.111	-0.067	-0.130	-0.209	-0.082	-0.135		02: 0.003
																03: -0.355
																Z2:-0.413
																Z3: 0.117
																$C2^2$: 0.010
																$C3^2$: -0.005
Denmark	Wittrup-Jensen 2002	RE	0.089	-0.114	-0.053	-0.411	-0.063	-0.192	-0.048	-0.144	-0.062	-0.396	-0.068	-0.367		
France	Chevalier 2011	RE	0.043		-0.155	-0.372	-0.212	-0.326	-0.156	-0.189	-0.112	-0.265	-0.090	-0.204	-0.174	
Germany	Greiner 2005	RE	0.047	-0.001	-0.099	-0.327	-0.087	-0.174			-0.112	-0.315		-0.065	-0.323	
Italy	Scalone 2013	RE	0.030		-0.076	-0.518	-0.100	-0.289	-0.085	-0.198	-0.098	-0.334	-0.095	-0.213		D1: 0.043
Japan	Tsuchiya 2002	OLS	0.015	-0.152	-0.075	-0.418	-0.054	-0.102	-0.044	-0.133	-0.080	-0.194	-0.063	-0.112		
Korea	Lee 2009	OLS	0.029	-0.050	-0.418	-0.046	-0.136	-0.051	-0.208	-0.037	-0.151	-0.043	-0.158		-0.050	
Netherlands	Lamers 2006	RE	0.030	-0.071	-0.036	-0.161	-0.082	-0.152	-0.032	-0.057	-0.086	-0.329	-0.124	-0.325	-0.234	
Spain	Badia 2001	RE	NR	-0.024	-0.106	-0.430	-0.134	-0.309	-0.071	-0.195	-0.089	-0.261	-0.062	-0.144	-0.291	
Thailand	Tongsiri 2011	RE	0.080	-0.202	-0.121	-0.432	-0.121	-0.242	-0.059	-0.118	-0.072	-0.209	-0.032	-0.110	-0.139	
United Kingdom	United Kingdom MVH Group 1995	RE	0.039	-0.081	-0.069	-0.314	-0.104	-0.214	-0.036	-0.094	-0.123	-0.386	-0.071	-0.236	-0.269	
United States	Shaw 2005	RE	0.025		-0.146	-0.558	-0.175	-0.471	-0.140	-0.374	-0.173	-0.537	-0.156	-0.450		D1: 0.140
																12^2 : -0.011
																I3: 0.122
																13^2 : 0.015
Zimbabwe	Jelsma 2003	RE	0.049	0.049 -0.100	-0.056	-0.204	-0.092	-0.231	-0.043	-0.135	$-0.056 \ -0.204 \ -0.092 \ -0.231 \ -0.043 \ -0.135 \ -0.067 \ -0.302 \ -0.046 \ -0.173$	-0.302	-0.046	-0.173		
MO2 = 1 if mol	MO2 = 1 if mobility is at level 2: MO3 = 1 if mobility is at level 3. SC2 = 1 if self-care is at level 2: SC3 = 1 if self-care is at level 3. UA2 = 1 if usual activities is at	33 = 1 i	fmobili	ty is at lev	rel 3. SC	2 = 1 if	self-care	is at lev	el 2: SC	3 = 1 if s	self-care	is at leve	el 3. UA	2 = 1 if 1	usual act	ivities is at

2; AD3 = 1 if anxiety/depression is at level 3. N3 = 1 if any dimension is at level 3, D1 = additional number of dimensions at either level 2 or level 3; I2 = number of level 2; UA3 = 1 if usual activities is at level 3. PD2 = 1 if pain/discomfort is at level 2; PD3 = if pain/discomfort is at level dimensions at level 2 beyond the first; 13 = number of dimensions at level 3 beyond the first; O2 = 1 if all dimensions at level 1 and level 2; O3 = 1 if all dimensions at level 1 and level 3; Z2 = 1 if at least one dimension at level 2 and one dimension at level 3; Z3 = number of dimensions at level 2 given at least one dimension at level 3; C2 = number of dimensions at level 2; C3 = number of dimensions at level 3; MAD= mean absolute difference; OLS = ordinary least squares; RE = random

Table 2.3 Coefficients for the estimation of the EQ-5D index values based on VAS valuation studies

			,												
Country	Source	ModeMAD Constant MO2	Constant	MO2	MO3	SC2	SC3	UA2	UA3	PD2	PD3	AD2	AD3	N3	Other
Argentina	Augustovski 2009	OLS 0.020		-0.248	-0.247 -0.184	-0.184	-0.178	-0.209	-0.148	-0.185	-0.157	-0.150	-0.116		02: -0.028
															03: -0.388
															Z2: -0.232
															Z3: 0.086
															$C2^2$: 0.020
															$C3^2$: 0.008
Belgium	Cleemput 2004	RE 0.036	-0.152	-0.074	-0.148	-0.083	-0.166	-0.031	-0.062	-0.084	-0.168	-0.103	-0.206	-0.256	
Denmark	Wittrup-Jensen 2002	RE NR	-0.225	-0.126	-0.252	-0.112	-0.224	-0.064	-0.128	-0.078	-0.156	-0.091	-0.182		
Europe ^a	Greiner 2003	RE 0.030	-0.128	-0.066	-0.183	-0.117	-0.156	-0.026	-0.086	-0.093	-0.164	-0.089	-0.129	-0.229	
Finland	Ohinmaa 1995	OLS NR	-0.158	-0.058	-0.230	-0.098	-0.143	-0.047	-0.131	-0.1111	-0.153	-0.160	-0.196		
Germany ^b	Claes 1999	RE 0.036	0.926	0.945	0.393	0.808	0.470	0.880	0.554	0.975	0.467	0.817	0.468		
New Zealand	Devlin 2000	RE 0.041	-0.204	-0.075	-0.150	-0.071	-0.142	-0.014	-0.028	-0.080	-0.160	-0.092	-0.184	-0.217	
Slovenia	Prevolnik Rupel	OLS NR	-0.128	-0.206	-0.412	-0.093	-0.186	-0.054	-0.108	-0.1111	-0.222	-0.093	-0.186		
	2000														
Spain	Badia 1998	OLS NR	-0.150	-0.090	-0.179	-0.101	-0.202	-0.055	-0.110	-0.060	-0.119	-0.051	-0.102	-0.212	
United Kingdom	United Kingdom MVH Group 1995	RE NR	-0.155	-0.071	-0.182	-0.093	-0.145	-0.031	-0.081	-0.084	-0.171	-0.063	-0.124	-0.215	

evel 3, 0 otherwise. UA2 = 1 if usual activities is at level 2, 0 otherwise; UA3 = 1 if usual activities is at level 3, 0 otherwise. PD2 = 1 if pain/discomfort is at level 2, MO2 = 1 if mobility is at level 2, 0 otherwise; MO3 = 1 if mobility is at level 3, 0 otherwise. SC2 = 1 if self-care is at level 2, 0 otherwise; SC3 = 1 if self-care is at 0 otherwise; PD3 = if pain/discomfort is at level 3, 0 otherwise. AD2 = 1 if anxiety/depression is at level 2, 0 otherwise; AD3 = 1 if anxiety/depression is at level 3, 0 otherwise. N1 = 1 if any dimension is at either level 2 or level 3, 0 otherwise; N3 = 1 if any dimension is at level 3, 0 otherwise; O2 = 1 if all dimensions at level 1 and level 2, 0 otherwise; O3 = 1 if all dimensions at level 1 and level 3, 0 otherwise; Z2 = 1 if at least one dimension at level 2 and one dimension at level 3, b The German model is a multiplicative model. This implies that when any of the dimensions is at level 1 the appropriate coefficient for that dimension is 1 These values have been rescaled with the mean value of dead

0 otherwise; Z3 = number of dimensions at level 2 given at least one dimension at level 3; C2 = number of dimensions at level 2; C3 = number of dimensions at level

3. GLIM = generalized linear model; MAD = mean absolute difference; NR = not reported; OLS = ordinary least squares; RE = random effects model

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2.3 Methods of Cross-Country Analysis of EQ-5D Data

Cross-country summary data for reported problems by five dimensions and EQ VAS were estimated using a standardized population structure for all countries with national EQ-5D surveys. Countries were tabulated in alphabetic order. Standardization for age was performed to avoid bias due to the fact that some populations have a relatively higher proportion of elderly people. Age standardization of reported problems by dimension and EQ VAS was based on the European population structure using Eurostat data from 2010 (Table 2.4).

To explore reasons for cross-country differences in EQ-5D data, correlations between country-specific EQ-5D data (EQ VAS and five dimensions) and country-specific economic and health system macro indicators were calculated.

Living standards were estimated by means of Gross Domestic Product (GDP) per capita and unemployment rate. Indicators for health care system performance were health expenditure per capita and health expenditure as a % of GDP, number of hospital beds per 1,000 people and number of physicians per 1,000 people. The indicators were selected on the basis of a presumed or possible relationship with self-reported health. Data were obtained from the World Health Organization Statistical Information System and the World Bank. The data were from 2010 or the closest year with available data (Table 2.5). An alternative set of macro data was also used to see how results might change when using macro data from the same year as the EQ-5D data collection, including variables on gross national income on purchasing power parity, unemployment rate, and health expenditure data.

For all correlation analyses, non-parametric Spearman rank correlations were calculated. For this calculation, countries were ranked based on mean self-assessed health results, and their living standards and health care system performance characteristics. A high rank correlation means that the ranking of countries on one variable (e.g. prevalence of self-reported health problems) is similar to the ranking of another variable (e.g. GDP per capita).

 Table 2.4
 European

 population age structure

Age group	EU population (%)
18–24	11
25–34	17
35–44	18
45–54	18
55-64	15
65–74	11
75+	10
ALL	100

Source: Eurostat 2010, EU 27

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	GDP per capita \$ 2010	Unemployment rate % 2010 ^a	Health expenditure (% of GDP) 2010 ^a	Health expenditure per capita \$ 2010 ^a	Physicians per 1,000 people 2004–2009 ^a
Argentina	9,124	8.6	8.1	742	3.2
Belgium	43,006	8.3	10.7	4,618	3.0
China	4,433	4.3	5.1	221	1.4
Denmark	56,486	7.4	11.4	6,422	3.4
France	39,170	9.3	11.9	4,691	3.5
Germany	40,164	7.1	11.6	4,668	3.5
Greece	25,832	12.5	10.2	2,729	6.0
Hungary	12,863	11.2	7.3	942	3.1

9.5

6.9

11.9

10.1

9.4

9.5

9.6

3.9

9.6

17.9

3,248

1,439

5,593

3.279

2,154

2.883

4,710

3,503

8,362

179

4.2

2.0

3.9

2.4

2.5

3.7

3.8

0.3

2.7

Table 2.5 Country-specific economic and health system macro indicators

Source: Macro indicators for each country were obtained from the World Bank (www.worldbank. org) Physician per 1,000 population data were obtained from the World Health Organization Statistical Information System (www.who.int)

33,787

20,540

46,623

32,407

22,898

29,956

49,360

4.614

46,612

8.4

3.7

4.5

6.5

7.2

20.1

8.4

1.2

7.8

9.6

Italy

Korea

Netherlands

Slovenia

Sweden

Thailand

United States

United Kingdom 36,256

Spain

New Zealand

2.4 Methods of Sociodemographic Analysis of EQ-5D Data

Two main approaches were used to derive socio-demographic indicators based on EQ-5D, based on odds ratios and concentration indices.

Logistic regression age-adjusted odds ratios for reporting problems on each EQ-5D dimension were calculated by age groups, gender, and education. An odds ratio higher than 1 indicates that the examined group reported more health problems than the reference group. The reference group was males, 18–24 years, with medium/high education.

Secondly, the analysis used the concentration index method, which is a single index measure of relative inequalities (Wagstaff et al. 1991; Kakwani et al. 1997). The overall health concentration index measures the mean difference in health between individuals as a proportion of the average health of the total population. This index can also be interpreted as a measure of how unequal the distribution of health is in the population. Health inequality is measured on a scale between 0 (meaning complete equality in health) and 1 (meaning complete inequality in health). Researchers also showed that the concentration index value also

^aData availability for last year varies in some countries

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corresponds to 75 % of the Schutz index, and as such, it can also be interpreted as the proportion of health that should be redistributed from those above the average level to those below the average in order to equalize the distribution of health. (Koolman and Doorslaer 2004).

The overall concentration index can be decomposed to identify the impact of various factors, such as socio-demographic or quality of life characteristics, in order to determine how much each factor contributes to inequalities (Wagstaff and Doorslaer 2004; Clarke et al. 2010). In the current analysis, overall self-reported health was measured by the EQ VAS. Decomposition analysis was performed to determine inequalities by socio-demographic factors and by the EQ-5D dimensions, as well as in a combined model in which both socio-demographic and EQ-5D dimension variables were included.

The health concentration index for overall self-reported health, as measured by the EQ VAS, was computed by the convenient regression model as proposed by Kakwani et al. (1997):

$$\frac{2\sigma_R^2}{\overline{EQVAS}}EQVAS_i = \alpha_i + \gamma_k R_i + \varepsilon_i$$

where R_i is the relative fractional rank of the ith individual (ranked by the individual's EQ VAS health), and γ_k is the estimated concentration index.

For the purposes of the decomposition analysis, the same estimation is used for all explanatory variables (by replacing EQ VAS with the explanatory variable in the equation and also using this variable for ranking purposes).

The total health concentration index can be written as the weighted sum of the concentration indices of the explanatory variables and the generalized concentration index of ε :

$$\hat{C} = \sum_{k} \hat{\eta}_{k} \hat{C}_{xk} + G \hat{C}_{\varepsilon}$$

where the weights are equal to the elasticities of EQ VAS score with respect to each explanatory variable in the model:

$$\hat{\eta}_k = \hat{\gamma}_k \overline{x}_k / \overline{EQVAS}$$

where \overline{x}_k (the mean of x_k explanatory variables: age, gender, education, EQ-5D problems) is multiplied by the coefficients for each explanatory variable that are taken from the linear regression model to explain EQ VAS:

$$EQ - VAS = \alpha + \sum_{k} \gamma_{k} \chi_{ik} + \varepsilon_{i}.$$

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Chapter 3 Population Norms for the EQ-5D

Bas Janssen and Agota Szende

3.1 Catalogue of Population Norms

Annexes 1 and 2 capture a full set of EQ-5D population norm tables that were estimated for each country. The tables contain information on the size of the study, EQ VAS ratings and proportion of reported problems on each of the EQ-5D dimensions, as well as EQ-5D index values.

Annex 1 includes surveys that were based on national representative populations. The survey for England is included among the national surveys, as it is expected to be referenced more widely in studies performed in the United Kingdom. Annex 2 includes surveys that were based on general populations but were limited to specific regions of the particular country. There are three examples where both national and regional surveys are available in a single country, including Spain, Sweden, and the United Kingdom. The choice between using the national versus the regional dataset as a reference group may well depend on the objectives and audiences of future studies. It is important to note that in all of these three countries, the regional surveys were conducted more recently. Both the survey for England and the Stockholm county survey capture a large proportion of the population in England and Sweden. The results of the English survey were similar to the UK survey, conducted 17 years previously, however no EQ VAS data were collected in the English survey. The new Stockholm county survey results show consistently worse EQ-5D population norms in all EQ-5D variables and in all age

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groups. The two Spanish regional surveys also generally show worse EQ-5D population norms compared to the earlier national Spanish survey, although this is not consistently seen in all age groups.

All surveys included the EQ VAS ratings, with the exception of the Finnish and English surveys. All surveys included EQ-5D dimensions. The EQ-5D index population norms based on the European value set were calculated for all surveys. Country-specific TTO-based value sets were available for 13 countries to calculate EQ-5D index population norms. Country-specific VAS-based value sets were available for 10 countries to calculate EQ-5D index population norms. Results for sub-groups with less than 15 observations were indicated as not being available. Key results are discussed in the sections below, while all detailed tables are included in the annexes.

The population norm tables in the annexes reflect granular reporting of descriptive statistics in order to provide flexibility for researchers when using the EQ-5D norms for comparative purposes. The population norm tables can be used as reference data to compare profiles for patients with specific conditions with data for the average person in the general population in a similar age and/or gender group.

3.2 EQ VAS Population Norms

For illustration purposes, the mean EQ VAS data from all population surveys of the EuroQol archive were pooled and are presented in Fig. 3.1. As can be seen, the mean EQ VAS ratings decrease with increasing age. Also, men of all age groups reported higher EQ VAS ratings than women.

Table 3.1 shows results for self-rated EQ VAS scores for each country by age group and for the total population. It is important to note that while results in each age group may be compared across countries, the total population scores cannot be compared directly as they reflect the unique age structure within each country.

Figure 3.2 graphically presents self-rated EQ VAS scores by age group for each country. As can be seen, the mean EQ VAS ratings decrease with increasing age, although countries vary according to how younger age groups rate their health and how the slope of people's self-rated health declines over the decades of their life. Korean data show a somewhat outlier pattern in people reporting their health within a narrow EQ VAS range. This was also observed to some extent in the New Zealand data.

For easier interpretation, Figs. 3.3 and 3.4 present self-rated EQ VAS scores separately by age group for two sets of countries. The first graph shows the 'upper values' (mainly viewed from the perspective of older people), and the second the 'lower values'. Accordingly, a difference in the lower end of the Y-axis on the first figure should be noted.

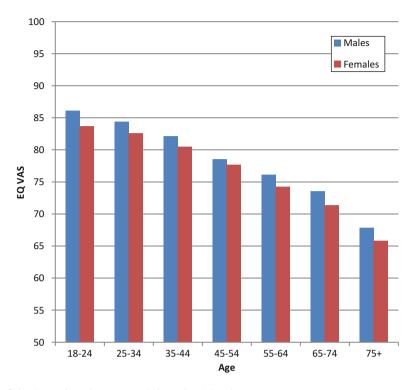


Fig. 3.1 Illustration of mean population EQ VAS ratings

Table 3.1 EQ VAS ratings by age group and total population (not standardized)

	18-24	25-34	35–44	45–54	55–64	65–74	75+	Total
Argentina	82.0	79.4	77.2	74.4	69.5	67.9	62.2	75.3
Belgium	84.0	82.0	80.2	77.2	74.2	71.3	69.4	77.6
China	89.1	85.7	82.7	79.4	76.5	72.2	69.4	80.4
Denmark	86.2	87.9	85.8	83.0	81.6	78.3	76.2	83.7
France	83.9	83.2	78.7	77.9	74.2	68.1	61.5	76.8
Germany	85.3	84.0	82.5	78.5	72.9	68.6	60.5	77.3
Greece	83.5	85.8	84.7	78.0	69.9	67.0	56.0	79.0
Hungary	83.3	81.1	75.3	69.1	63.7	59.0	53.9	71.1
Italy	87.5	83.9	81.4	77.0	74.0	67.8	60.1	77.1
Korea	78.9	80.7	80.6	80.4	76.9	76.5	_	79.5
Netherlands	85.7	84.6	83.7	81.0	80.7	78.0	72.9	82.0
New Zealand	82.4	82.3	82.5	82.2	81.6	79.6	70.8	80.8
Slovenia	85.4	82.6	80.8	75.5	67.9	65.3	55.4	76.4
Spain	82.0	80.1	76.7	73.6	72.0	69.0	62.2	75.0
Sweden	84.3	86.2	86.2	83.7	79.0	81.5	71.8	83.3
Thailand	82.9	80.9	80.1	78.3	79.3	76.1	72.3	79.4
United Kingdom	86.5	86.8	86.6	82.0	81.7	77.3	73.8	82.8
United States	86.2	83.5	81.8	79.2	76.9	75.1	68.5	80.0

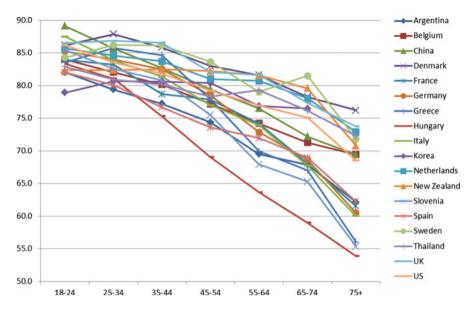


Fig. 3.2 EQ VAS ratings by age group

Table 3.2 shows results for self-rated EQ VAS scores for each regional survey by age group and for the total population. As seen across the national surveys, the mean EQ VAS ratings decrease with increasing age in the regional surveys as well.

3.3 EQ-5D Dimensions

As the data on the 5 EQ-5D dimensions are not continuous but ordinal, the information is presented as the proportions of the population reporting level 1 (no problems), level 2 (some problems) and level 3 (extreme problems) per dimension, by age group and gender. Because the number of people reporting severe problems is usually very small in general population surveys, the sum of the proportions of reported level 2 and level 3 problems is sometimes used. This essentially changes the 3-level EQ-5D dimensions into 2-level dimensions, using categories 'no problems' and 'problems'.

In a pooled dataset of surveys, Fig. 3.5 illustrates the sum of the proportion of reported level 2 and level 3 problems for each of the 5 EQ-5D dimensions for three distinct age groups. As can be seen from the figure, the proportion of problems increased with age on all dimensions. Problems with mobility increased the most with increasing age, whereas problems with anxiety/depression increased the least. For every age group the proportion of problems with pain/discomfort was higher than the proportion of problems on the other dimensions.

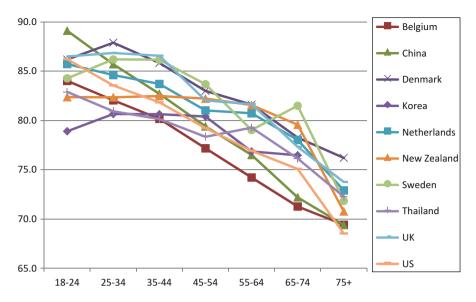


Fig. 3.3 EQ VAS ratings by age group (countries with 'upper values')

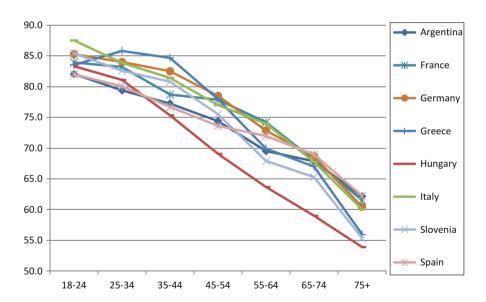


Fig. 3.4 EQ VAS ratings by age group (countries with 'lower values')

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Table 3.2	EQ VAS ratings by age group and total population (not standardized) from regional
surveys	

	18–24	25-34	35–44	45–54	55–64	65-74	75+	Total
Armenia (5 regions)	87.8	78.4	68.0	62.3	55.3	50.1	43.8	65.7
Canada (Alberta)	81.6	80.5	78.7	75.7	77.1	77.1	75.3	78.3
Japan (3 prefectures)	78.9	77.9	79.3	79.8	76.8	76.6	67.7	77.8
Spain - Canary Islands	83.3	79.7	77.4	71.6	66.1	64.4	56.4	71.7
Spain – Catalunya	82.4	79.3	77.5	72.7	67.6	63.6	54.4	72.3
Sweden – Stockholm county	81.7	81.5	80.7	79.2	78.1	75.9	68.5	78.7
Zimbabwe – Harare district	81.8	79.8	76.6	75.1	70.5	61.5	-	79.8

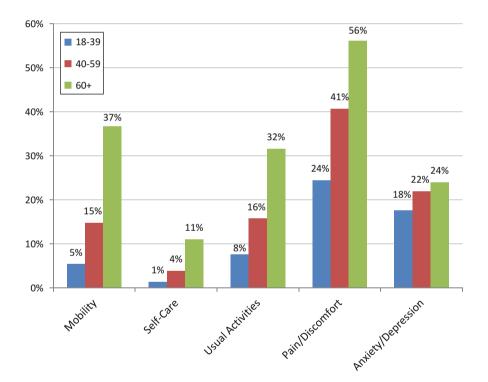


Fig. 3.5 EQ-5D profile of the population (% reporting any problem)

Table 3.3 summarizes results for reported problems along the five dimensions by country. These results reflect the total population scores and cannot be compared directly to each other as they reflect the unique age structure within each country.

1	1	•	` ,	1 /	
	Mobility	Self-care	Usual activities	Pain/discomfort	Anxiety/depression
Argentina	10.8	2.9	8.0	30.9	22.8
Belgium	12.6	4.0	12.4	28.5	6.6
China	5.1	2.8	5.2	10.7	8.7
Denmark	10.7	2.5	17.9	36.7	16.1
England	19.4	5.6	17.0	35.3	19.3
Finland	26.3	8.6	21.0	47.8	13.9
France	13.4	4.0	10.0	35.9	15.0
Germany	15.9	2.7	9.9	27.6	4.3
Greece	13.3	5.7	10.5	16.8	10.7
Hungary	19.6	6.5	14.8	39.2	35.2
Italy	10.4	3.3	9.4	26.6	8.7
Korea	5.9	0.8	4.1	21.3	17.4
Netherlands	11.5	3.4	13.5	34.2	3.5
New Zealand	20.0	4.4	21.5	40.8	21.2
Slovenia	29.8	14.0	32.9	47.2	36.4
Spain	13.7	4.1	11.7	22.9	7.8
Sweden	8.6	1.5	7.9	40.8	26.0
Thailand	26.3	8.7	22.7	65.0	47.4
United Kingdom	18.4	4.3	16.3	33.0	21.0
United States	18.5	3.7	17.9	48.3	23.2

Table 3.3 Reported problems by 5 dimensions (% of any problem)

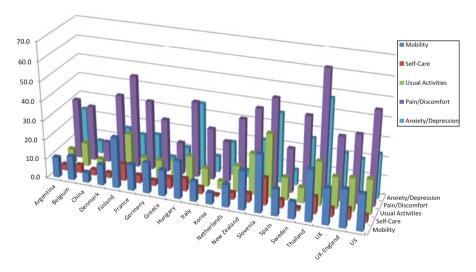


Fig. 3.6 EQ-5D profile by country

Figure 3.6 graphically presents reported problems by dimension for each country. As can be seen, problems with pain/discomfort were generally the most prevalent, while problems with self-care were the least prevalent among the 5 dimensions.

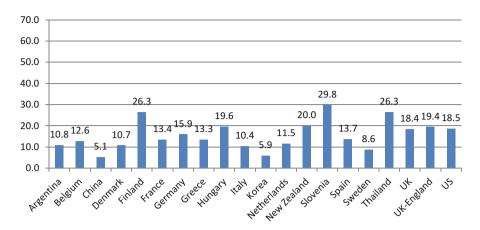


Fig. 3.7 Reported problems with mobility (% of any problem)

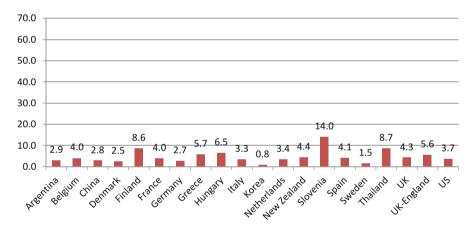


Fig. 3.8 Reported problems with self-care (% of any problem)

Figures 3.7, 3.8, 3.9, 3.10 and 3.11 show reported problems for each dimension separately across all countries. Variability in reported problems for each dimension is also present among countries, with percentages of reported problem ranges of 5.1–29.8 % for mobility; 0.8–14.0 % for self-care; 4.1–32.9 % for usual activities; 10.7–65.0 % for pain/discomfort; and 3.5–47.4 % for anxiety/depression.

Table 3.4 summarizes the results for reported problems across the 5 dimensions by regional surveys. These results reflect the total population scores and cannot be compared directly to each other as they reflect the unique age structure within each country.

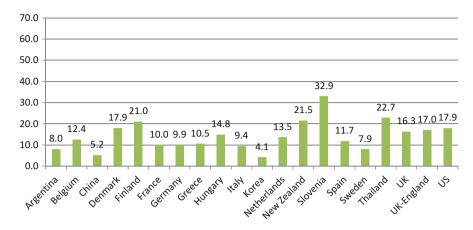


Fig. 3.9 Reported problems with usual activities (% of any problem)

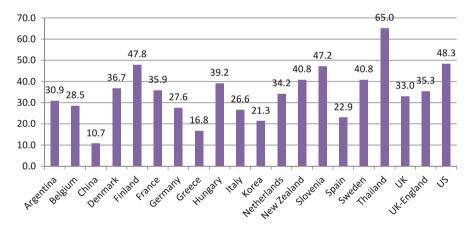


Fig. 3.10 Reported problems with pain/discomfort (% of any problem)

3.4 EQ-5D Index Population Norms

Tables 3.5, 3.6, and 3.7 summarize key EQ-5D index value population norms by age group for each country, based on different value sets. Table 3.5 shows EQ-5D index values that are based on the European VAS value set scoring algorithm. Table 3.6 shows the available EQ-5D index values that are based on country-specific TTO value sets. Table 3.7 shows the available EQ-5D index values that are based on country-specific VAS value sets.

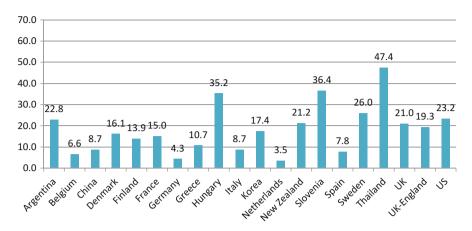


Fig. 3.11 Reported problems with anxiety/depression (% of any problem)

Table 3.4 Reported problems by five dimensions (% of any problem) – regional surveys

	Mobility	Self-care	Usual activities	Pain/ discomfort	Anxiety/ depression
Armenia (5 regions)	27.4	14.3	30.2	65.1	53.5
Canada (Alberta)	18.5	3.7	17.9	48.3	23.2
Japan (3 prefecture)	7.3	1.8	5.2	20.0	8.5
Spain-Canary Islands	17.1	6.3	14.7	39.5	25.7
Spain – Catalunya	16.9	7.0	12.4	32.9	19.5
Sweden – Stockholm county	11.6	2.1	10.4	45.2	32.7
Zimbabwe - Harare district	9.8	3.4	11.0	30.5	30.7

Therefore, cross-country differences seen in Tables 3.6 and 3.7 can be due to a mixture of differences in how people in each country report problems along the five dimensions and how different populations value these problems. Total population scores also cannot be compared for the reason that they are not standardized for demographic differences across countries. Regional data are presented using the available national TTO and VAS value sets.

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 Table 3.5
 EQ-5D index population norms (European VAS value set)

	Age							
	18–24	25-34	35–44	45-54	55-64	65-74	75+	Total
National								
Argentina	0.907	0.889	0.869	0.849	0.829	0.796	0.724	0.856
Belgium	0.953	0.921	0.920	0.889	0.881	0.848	0.761	0.891
China	0.990	0.980	0.970	0.960	0.930	0.900	0.840	0.951
Denmark	0.914	0.914	0.881	0.861	0.845	0.818	0.753	0.866
Finland	N/A	0.919	0.891	0.853	0.805	0.762	0.573	0.815
France	0.924	0.921	0.883	0.893	0.836	0.804	0.756	0.872
Germany	0.950	0.949	0.943	0.908	0.881	0.838	0.771	0.902
Greece	0.979	0.972	0.957	0.916	0.817	0.793	0.739	0.913
Hungary	0.934	0.911	0.873	0.802	0.755	0.716	0.639	0.823
Italy	0.969	0.956	0.943	0.910	0.877	0.823	0.724	0.899
Korea	0.957	0.958	0.949	0.915	0.828	0.787	N/A	0.915
Netherlands	0.938	0.910	0.922	0.874	0.869	0.863	0.798	0.892
New Zealand	0.913	0.906	0.893	0.858	0.817	0.800	0.712	0.848
Slovenia	0.879	0.859	0.831	0.772	0.697	0.663	0.621	0.788
Spain	0.968	0.963	0.939	0.911	0.884	0.870	0.773	0.915
Sweden	0.888	0.893	0.868	0.835	0.813	0.836	0.701	0.851
Thailand	0.814	0.785	0.771	0.717	0.694	0.670	0.657	0.742
UK	0.934	0.922	0.905	0.849	0.804	0.785	0.734	0.856
UK-England	0.922	0.915	0.891	0.857	0.819	0.785	0.720	0.857
US	0.899	0.883	0.853	0.809	0.776	0.756	0.677	0.825
Regional								
Armenia (5 regions)	0.881	0.798	0.736	0.690	0.600	0.521	0.473	0.693
Canada (Alberta)	0.879	0.960	0.944	0.905	0.937	0.931	0.868	0.925
Japan (3 prefectures)	0.961	0.961	0.965	0.938	0.908	0.886	0.758	0.927
Spain-Canary Islands	0.930	0.910	0.878	0.825	0.753	0.736	0.619	0.815
Spain – Catalunya	0.958	0.929	0.914	0.871	0.807	0.762	0.623	0.853
Sweden – Stockholm county	0.860	0.860	0.850	0.820	0.800	0.800	0.740	0.824
Zimbabwe – Harare district	0.867	0.859	0.774	0.750	0.697	0.607	N/A	0.842

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 Table 3.6
 EQ-5D index population norms (country-specific TTO value sets)

	Age							
	18–24	25-34	35–44	45–54	55–64	65–74	75+	Total
National								·
Argentina	0.951	0.936	0.919	0.898	0.874	0.835	0.756	0.902
Denmark	0.928	0.927	0.901	0.882	0.870	0.847	0.794	0.887
France	0.948	0.946	0.913	0.922	0.853	0.810	0.735	0.892
Germany	0.972	0.973	0.966	0.945	0.922	0.891	0.839	0.938
Italy	0.984	0.978	0.973	0.955	0.936	0.904	0.839	0.947
Korea	0.981	0.982	0.976	0.960	0.909	0.888		0.958
Netherlands	0.950	0.927	0.935	0.890	0.890	0.886	0.830	0.910
Spain	0.982	0.975	0.949	0.923	0.901	0.891	0.781	0.929
UK	0.940	0.927	0.911	0.847	0.799	0.779	0.726	0.856
UK-England	0.929	0.919	0.893	0.855	0.810	0.773	0.703	0.855
US	0.924	0.912	0.889	0.855	0.830	0.817	0.755	0.867
Regional	18-24	25-34	35-44	45-54	55-64	65-74	75+	Total
Japan (3 prefecture)	0.967	0.963	0.965	0.941	0.912	0.881	0.768	0.929
Spain-Canary Islands	0.953	0.934	0.911	0.854	0.780	0.754	0.596	0.836
Spain – Catalunya	0.974	0.947	0.941	0.898	0.838	0.780	0.594	0.871
Zimbabwe – Harare district	0.848	0.841	0.793	0.785	0.756	0.661		0.833

 Table 3.7
 EQ-5D index population norms (country-specific VAS value set)

	Age							
	18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
National								
Argentina	0.928	0.911	0.888	0.867	0.837	0.793	0.712	0.871
Belgium	0.948	0.915	0.912	0.881	0.871	0.836	0.748	0.883
Denmark	0.885	0.884	0.845	0.822	0.799	0.766	0.691	0.826
Finland		0.909	0.878	0.835	0.781	0.738	0.583	0.800
Germany	0.962	0.966	0.962	0.937	0.915	0.882	0.817	0.930
New Zealand	0.890	0.883	0.869	0.827	0.782	0.763	0.672	0.818
Slovenia	0.869	0.841	0.794	0.712	0.619	0.554	0.498	0.738
Spain	0.969	0.963	0.939	0.912	0.883	0.866	0.761	0.914
UK	0.931	0.920	0.902	0.846	0.799	0.778	0.726	0.852
UK-England	0.922	0.914	0.888	0.854	0.814	0.775	0.706	0.853
Regional	18-24	25-34	35-44	45-54	55-64	65-74	75+	Total
Japan (3 prefecture)	0.885	0.884	0.845	0.822	0.799	0.766	0.691	0.826
Spain-Canary Islands	0.934	0.916	0.886	0.834	0.765	0.740	0.617	0.821
Spain – Catalunya	0.960	0.932	0.919	0.878	0.815	0.770	0.620	0.857

Chapter 4 Cross-Country Analysis of EQ-5D Data

Agota Szende and Bas Janssen

4.1 Cross Country Comparison of Standardized EQ-5D Data

EQ VAS ratings and the rate of self-reported problems on the five dimensions within specific age groups were seen to be variable between countries in Chap. 3. However, when aggregate measures of self-assessed health are compared between countries, it is necessary to adjust for potential differences in demographics. As gender was shown to play a small role in explaining EQ-5D data, the standardization took into account age differences across countries.

Table 4.1 presents mean EQ-5D data for 18 countries with national representative population surveys where demographic characteristics were standardized based on a European population structure. Note that the data presented in Table 4.1 do not represent the actual situation in each country, but are based on the European age distribution. Because the age structure superimposed on the dataset was the same for each country, comparisons between countries can be made. When comparing Table 4.1 with the non-standardized EQ VAS ratings (Table 3.1, column for total) and 5D reported problems (Table 3.3), the results show the impact of age standardization of population norms, that are usually within a few percentage score difference.

As can be seen in Table 4.1, the data show that important differences exist in EQ-5D population data across countries after taking into account differences in population structure. Mean EQ VAS score varied from 70.37 to 83.28 in the total

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Table 4.1 Self-reported EQ-5D results after age standardization (mean VAS and proportions of any problem)

	EQ VAS	Mobility	Self-care	Usual activity	Pain/ discomfort	Anxiety/ depression
Argentina	73.92	0.133	0.037	0.098	0.339	0.238
Belgium	77.42	0.139	0.048	0.129	0.294	0.061
China	79.91	0.061	0.034	0.061	0.115	0.092
Denmark	83.28	0.115	0.028	0.186	0.370	0.162
France	76.32	0.144	0.046	0.107	0.358	0.145
Germany	77.16	0.172	0.031	0.105	0.278	0.045
Greece	76.50	0.172	0.083	0.137	0.204	0.112
Hungary	70.37	0.209	0.072	0.158	0.404	0.362
Italy	76.95	0.123	0.044	0.111	0.277	0.092
Korea	71.31	0.065	0.010	0.046	0.296	0.229
Netherlands	81.44	0.118	0.035	0.125	0.326	0.032
New Zealand	80.76	0.192	0.043	0.208	0.393	0.212
Slovenia	74.47	0.347	0.167	0.365	0.510	0.380
Spain	74.29	0.127	0.040	0.110	0.213	0.073
Sweden	82.49	0.113	0.025	0.096	0.425	0.264
Thailand	78.90	0.298	0.092	0.259	0.652	0.470
United Kingdom	82.75	0.182	0.043	0.162	0.331	0.209
US	79.33	0.193	0.037	0.183	0.480	0.224

population. The largest difference between any two countries in reporting problems were 28.6, 12.7, 31.9, 53.7, and 43.8 % in absolute terms along the five dimensions, respectively.

Hungary reported the lowest EQ VAS ratings, followed by Korea, while Denmark and the United Kingdom reported the highest EQ VAS ratings. The highest proportion of problems on the 5 EQ-5D dimensions was reported by Slovenia and Thailand. Note that while Hungary and Korea reported a lower mean EQ VAS than Slovenia and Thailand, more problems were reported in Slovenia and Thailand across the 5 EQ-5D dimensions. At the other end of the spectrum, China reported the lowest proportion of problems but reported average EQ VAS ratings, while Denmark and the UK reported the highest EQ VAS ratings and average proportions of problems. These results indicate that countries also differed in how they answered the more general EQ VAS question relative to how they answered the more specific questions on the EQ-5D dimensions.

4.2 The Impact of Economic and Health Care Indicators

After seeing that differences in EQ-5D data across countries exist after standardization for population structure, this section examines whether these patterns can be explained by differences in living standards and health care system

Table 4.2 Spearman rank correlations between indicators of living standards and self-reported health

		ממט			11. 14.	
		GDP per			Health expenditure	Physicians per 1,000
	Age group	capita	Unemployment rate	Unemployment rate Health expenditure (% of GDP)	per capita	beoble
EQ-VAS	18–24	0.38	-0.12	0.29	0.40	0.09
	25–34	0.55^{*}	-0.06	0.44	0.53^{*}	0.32
	35-44	0.50^{*}	-0.26	0.35	0.47	0.18
	45–54	0.49^{*}	-0.50^*	0.29	0.48*	-0.13
	55-64	0.45	-0.50^{*}	0.26	0.45	-0.25
	65–74	0.47	-0.48^{*}	0.20	0.44	-0.21
	75+	0.42	-0.51^*	0.17	0.37	-0.24
	Total	0.58^{*}	-0.35	0.39	0.55^*	-0.03
		GDP per			Health expenditure	Physicians per 1,000
EQ-5D dimension	Age group	capita	Unemployment rate	Unemployment rate Health expenditure (% of GDP)	per capita	people
Mobility	18–24	0.20	-0.24	0.28	0.21	-0.38
	25–34	0.11	-0.21	0.16	0.14	-0.43
	35-44	-0.09	0.11	0.10	-0.03	-0.33
	45–54	0.01	0.03	0.08	0.00	-0.23
	55-64	-0.38	0.05	-0.11	-0.32	-0.22
	65–74	-0.32	0.07	-0.11	-0.27	-0.24
	75+	-0.11	0.08	-0.10	-0.13	-0.01
	Total	-0.19	0.14	0.04	-0.13	-0.27
Self-care	18–24	-0.21	-0.32	-0.15	-0.18	-0.30
	25–34	0.09	-0.20	0.10	0.11	-0.37
	35-44	-0.33	0.36	-0.03	-0.25	-0.20
	45–54	0.01	-0.04	0.02	-0.02	-0.26
	55-64	-0.48^{*}	0.24	-0.25	-0.42	-0.26
	65–74	-0.50^{*}	0.09	-0.26	-0.47^{*}	-0.17
	75+	-0.25	0.51^{*}	-0.14	-0.31	0.44
	Total	-0.35	0.26	-0.14	-0.35	-0.05
						(boundage)

(continued)

Table 4.2 (continued)

		GDP per			Health expenditure	Physicians per 1,000
EQ-5D dimension	Age group	capita	Unemployment rate	Health expenditure (% of GDP)	per capita	people
Usual activities	18–24	0.34		0.31	0.37	-0.34
	25–34	0.33		0.28	0.34	-0.32
	35-44	0.23		0.24	0.25	-0.32
	45-54	0.23		0.13	0.22	-0.27
	55-64	-0.18		-0.03	-0.14	-0.17
	65–74	-0.15		-0.05	-0.15	-0.25
	75+	-0.13		-0.13	-0.18	-0.05
	Total	0.08		0.13	60.0	-0.24
Pain/discomfort	18–24	0.34		0.26	0.37	-0.27
	25–34	0.32		0.23	0.32	-0.21
	35-44	0.26		0.15	0.27	-0.21
	45-54	0.16		0.05	0.17	-0.28
	55-64	-0.04		-0.17	-0.04	-0.38
	65–74	-0.16		-0.24	-0.14	-0.51^{*}
	75+	-0.20		-0.30	-0.18	-0.44
	Total	0.10	-0.11	-0.01	0.12	-0.38
Anxiety/depression	18–24	-0.01		-0.17	0.00	-0.36
	25–34	-0.24		-0.30	-0.22	-0.47
	35-44	-0.30		-0.37	-0.28	-0.42
	45-54	-0.30		-0.41	-0.30	-0.40
	55-64	-0.43		-0.56^{*}	-0.44	-0.47^{*}
	65–74	-0.53^{*}		-0.60**	-0.52^{*}	-0.54^*
	75+	-0.51^{*}		-0.68^{**}	-0.52^{*}	-0.59^{**}
	Total	-0.38		-0.51^*	-0.38	-0.46
$\stackrel{*}{p} < 0.05; \stackrel{**}{p} < 0.01$						

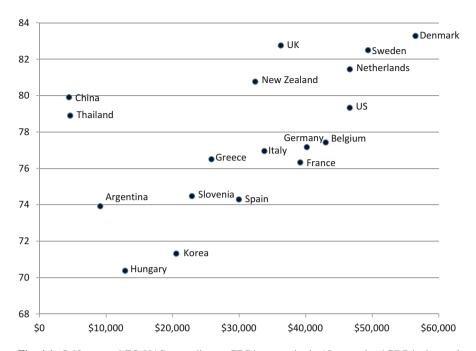


Fig. 4.1 Self-reported EQ VAS according to GDP* per capita in 18 countries *GDP is the total value of all goods and services produced by an economy in 1 year

performance. In addition, we explored whether macro-economic variables are correlated with EQ VAS ratings and the prevalence of problems in different age groups across countries.

Table 4.2 gives an overview of Spearman rank correlation coefficients between EQ VAS ratings and self-reported health problems on EQ-5D dimensions, and indicators of living standards and health care system performance in the 18 countries. Correlations are presented for different age groups and for all age groups combined.

The prior living standards (GDP per capita) in the countries studied correlated most with the EQ VAS scores (0.58), while unemployment appeared to significantly correlate in people over the age of 45 only. Health care expenditure also correlated with better EQ VAS data (0.55). Less significant results were detected between macro indicators and reported problems.

The positive relationship between living standards and self-reported EQ VAS was further examined and is graphically presented in Fig. 4.1.

As Fig. 4.1 shows, EQ VAS correlated well with a country's GDP, although China and Thailand were outliers with relatively high EQ VAS scores compared to their GDP.

Further linear regression analyses showed that GDP level explained 29 % of EQ VAS at the country level (p=0.02), but explained 67 % of the EQ VAS when excluding 'outliers' China and Thailand. Health expenditure per capita was the only

other statistically significant explanatory factor that explained 26 % of the country mean VAS (p=0.03). While GPD showed a stronger correlation with VAS than health expenditure, a dollar unit of health expenditure had eight times the impact of a dollar unit of GPD on the country mean VAS scores (with coefficients of 0.0001 for GPD and 0.0008 for health expenditure). Another set of regression analyses, that used macro data from the year of EQ-5D data collection in each country on gross national income expressed in purchasing power parity in 2010 values, did not reach statistically significant results. However, health care expenditure remained a statistically significant factor (p=0.03), explaining 27 % of variation in the country mean VAS scores.

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Chapter 5 Socio-demographic Indicators Based on EQ-5D

Agota Szende and Bas Janssen

5.1 The Use of EQ-5D in Socio-demographic Analysis

In addition to describing population norms, the EQ-5D database archive also offered the opportunity to explore health inequalities as reported by general populations of 18 countries. We have seen that age, and gender to a lesser extent, played an important role in explaining EQ-5D data across individuals. A social indicator, education, was also available in most datasets that were analysed alongside age and gender to explain EQ-5D data.

The level of attained education is important as it represents the cultural component of an individual's socio-economic status, and is an indicator of living circumstances in the earlier part of one's life. Education level is fairly stable over the life course of an individual. Later in life it shapes one's occupation and expected income potential. Through this mechanism, its indirect link with health is stronger than its direct effect (Singh-Manoux et al. 2002).

Among the higher education groups, lower prevalence of health risk factors has been observed. Given the existing health problems, individuals with a lower level of education experience greater ill-health (Eachus et al. 1999). Higher education can directly or through its vehicle mechanisms (such as being able to afford domestic help, acquisition of home appliances, reduced workload or part-time work) enable extra coping pathways that are not available to individuals with lower levels of attained education (Simon 2002). Furthermore, observational studies among people suffering from chronic conditions revealed that, through better self-management

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and compliance, better treatment results can be achieved among the better-educated (Katz 1998; Karter et al. 2000; Goldman and Smith 2002). A large body of literature has shown that education is an important determinant of health indicators (Kunst et al. 1995; Mackenbach et al. 1997; Regidor et al. 1999; Borrell et al. 1999; Dalstra et al. 2002; Blakely et al. 2002; Regidor et al. 2003; von dem Knesebeck et al. 2003; Nishi et al. 2004).

Two commonly used approaches of socio-demographic analysis of health, odds ratios and concentration indices, were applied to the EQ-5D national surveys.

5.2 Odds Ratios Based on EQ-5D

The odds ratios for age, gender, and education are presented by country and by EQ-5D dimension in Table 5.1. The reference population group was men aged 18–24 years with medium or high education level. The odds ratios presented for demographic and education categories should be interpreted as relative to this reference group.

Generally, each decade of age added substantial odds for higher reported problems along all the EQ-5D dimensions. The only exception was anxiety/depression in the Netherlands and Sweden, where the odds decreased with age. In all other countries, anxiety/depression had increased odds with age but among the five dimension this dimension had the smallest odds ratio. Gender related odds ratios generally favoured men in terms of reported problems. However, exceptions included mobility, self-care, and usual activities in some countries. Gender related odds ratios were highest for self-care in Korea (6.53), self-care in Greece (4.76), and self-care in Sweden (3.06).

In most countries, attaining at least the medium level of education translated into significantly lower age- and gender-adjusted odds of experiencing problems on any dimension. Education had generally the highest impact in Korea and Slovenia, and had a particularly high impact on self-care in Sweden, with an odds ratio of 11.63.

5.3 Concentration Indices Based on EQ-5D

Results of the concentration index analysis of the 17 countries are shown in Tables 5.2, 5.3 and 5.4. Findings suggest that the level of inequalities in self-assessed EQ VAS health and the health inequality profile by EQ-5D dimension differed across countries. In terms of the overall level of inequalities, Korea, Denmark, and China presented the lowest level of relative inequalities (0.090, 0.094, and 0.095 respectively) while Spain and Hungary had the highest relative inequalities (0.173 and 0.157, respectively).

Differences were discerned in the extent to which the socio-demographic and the quality of life factors explained overall inequalities in self-assessed health.

Table 5.1 Odds ratios (95 % confidence intervals) for reporting problems on EQ-5D-3L dimensions in 19 countries

Country	Dimension	Gender	95 %	CI	Age	95 %	CI	Edu	95 %	CI
Belgium	Mobility	1.37	0.98	1.91	1.64	1.46	1.84	1.05	0.70	1.58
	Self-care	1.37	0.91	2.07	1.63	1.30	2.03	0.91	0.53	1.56
	Usual activities	1.47	1.13	1.91	1.50	1.33	1.68	1.17	0.83	1.65
	Pain/discomfort	1.31	1.05	1.63	1.31	1.22	1.42	1.19	0.88	1.63
	Anxiety/	1.63	1.04	2.55	1.05	0.93	1.20	1.04	0.60	1.82
	depression									
China	Mobility	1.18	0.95	1.45	1.71	1.58	1.84	1.89	1.46	2.46
	Self-care	1.08	0.82	1.42	1.53	1.39	1.68	1.71	1.23	2.38
	Usual activities	1.20	0.97	1.48	1.55	1.44	1.67	2.47	1.89	3.23
	Pain/discomfort	1.67	1.43	1.95	1.55	1.47	1.63	1.54	1.29	1.83
	Anxiety/	1.19	1.01	1.40	1.23	1.17	1.30	2.36	1.95	2.86
	depression									
Denmark	Mobility	1.25	1.12	1.38	1.41	1.37	1.45	1.82	1.62	2.04
	Self-care	1.25	1.02	1.53	1.51	1.42	1.59	1.89	1.49	2.40
	Usual activities	1.48	1.36	1.61	1.28	1.25	1.31	1.62	1.48	1.76
	Pain/discomfort		1.32	1.51	1.17	1.15	1.20	1.41	1.32	1.51
	Anxiety/	1.68	1.54	1.83	1.06	1.04	1.09	1.33	1.22	1.46
	depression									
England	Mobility	1.22	1.11	1.35	1.65	1.59	1.70	2.17	1.95	2.41
	Self-care	1.19	1.02	1.40	1.47	1.40	1.55	2.33	1.95	2.79
	Usual activities	1.28	1.16	1.41	1.47	1.43	1.52	2.04	1.82	2.27
	Pain/discomfort	1.16	1.08	1.26	1.39	1.36	1.43	1.72	1.57	1.88
	Anxiety/	1.52	1.39	1.67	1.03	1.00	1.06	1.52	1.37	1.68
	depression		0.04			• • •	• • •			
Finland	Mobility	1.04	0.91	1.18	2.17	2.06	2.28	1.89	1.65	2.16
	Self-care	0.96	0.80	1.15	2.24	2.08	2.41	1.78	1.46	2.17
	Usual activities	1.17	1.02	1.34	1.92	1.83	2.02	1.82	1.57	2.10
	Pain/discomfort		1.19	1.46	1.46	1.40	1.52	1.62	1.44	1.81
	Anxiety/ depression	1.26	1.08	1.46	1.16	1.10	1.22	1.50	1.28	1.77
France	Mobility	1.63	1.22	2.17	1.91	1.73	2.10	1.36	0.97	1.89
	Self-care	0.94	0.59	1.49	1.68	1.43	1.99	1.51	0.86	2.65
	Usual activities	1.22	0.89	1.66	1.54	1.38	1.72	1.29	0.89	1.88
	Pain/discomfort	1.19	0.98	1.44	1.39	1.30	1.48	1.20	0.97	1.49
	Anxiety/	1.16	0.90	1.49	1.01	0.93	1.09	0.93	0.71	1.22
	depression									
Germany	Mobility	1.18	0.96	1.46	1.92	1.79	2.06	1.89	1.16	3.09
	Self-Care	1.47	0.90	2.39	2.17	1.84	2.57	1.91	1.00	3.67
	Usual activities	1.22	0.93	1.59	1.69	1.54	1.86	1.96	1.25	3.08
	Pain/discomfort	1.36	1.15	1.60	1.38		1.48	1.59	0.99	2.56
	Anxiety/	1.43	0.98	2.07	1.04	0.90	1.19	1.79	0.82	3.91
	depression									
Greece	Mobility	1.34	0.71	2.53	1.93	1.54	2.42	2.13	1.06	4.29
	Self-care	4.76	1.75	13.01	2.58	1.76	3.78	1.54	0.55	4.33
	Usual activities	1.95	0.93	4.11	2.52	1.86	3.40	2.22	0.96	5.14
	Pain/discomfort	1.83	1.04	3.20	1.59	1.32	1.92	3.03	1.62	5.68
	Anxiety/	1.27	0.66	2.43	1.19	0.96	1.47	3.79	1.71	8.36
	depression	1.2/	0.00	2.73	1.17	0.50	1.7/	3.19	1./1	0.50

(continued)

Table 5.1 (continued)

Country	Dimension	Gender	95 %	CI	Age	95 %	CI	Edu	95 %	CI
Hungary	Mobility	1.17	1.00	1.37	1.80	1.71	1.89	2.00	1.70	2.35
	Self-care	0.84	0.66	1.08	1.84	1.69	2.00	2.61	2.00	3.40
	Usual activities	1.02	0.86	1.21	1.64	1.56	1.73	2.35	1.97	2.80
	Pain/discomfort	1.45	1.28	1.64	1.48	1.43	1.54	1.95	1.71	2.23
	Anxiety/	1.71	1.51	1.93	1.24	1.20	1.29	1.98	1.74	2.26
	depression									
Italy	Mobility	1.44	1.15	1.79	2.25	2.07	2.45	1.78	1.30	2.43
	Self-care	1.94	1.39	2.70	2.16	1.88	2.48	1.81	1.12	2.91
	Usual activities	1.77	1.41	2.20	1.91	1.76	2.07	2.00	1.46	2.75
	Pain/discomfort	1.74	1.50	2.02	1.53	1.46	1.60	1.47	1.24	1.75
	Anxiety/ depression	2.26	1.81	2.81	1.25	1.17	1.35	1.20	0.90	1.59
Korea	Mobility	2.40	1.37	4.22	1.66	1.29	2.15	3.56	1.81	7.03
	Self-care	6.53	0.77	55.11	3.52	1.44	8.64	3.34	0.31	35.97
	Usual activities	1.67	0.87	3.20	1.60	1.17	2.18	6.72	2.77	16.27
	Pain/discomfort	1.73	1.28	2.34	1.63	1.42	1.86	2.51	1.70	3.71
	Anxiety/ depression	2.05	1.51	2.80	1.31	1.14	1.49	1.42	0.93	2.16
Netherlands	Mobility	1.60	1.12	2.29	1.53	1.37	1.70	1.38	0.95	2.01
	Self-care	2.93	1.60	5.39	1.36	1.07	1.72	1.08	0.55	2.13
	Usual activities	1.97	1.43	2.71	1.30	1.19	1.42	1.14	0.82	1.60
	Pain/discomfort	1.42	1.13	1.78	1.22	1.13	1.31	1.06	0.84	1.35
	Anxiety/ depression	2.12	1.08	4.15	0.80	0.63	1.01	2.41	1.07	5.46
New Zealand	Mobility	1.04	0.77	1.40	1.75	1.58	1.93	1.26	0.92	1.73
	Self-care	0.77	0.45	1.33	1.76	1.46	2.13	1.28	0.73	2.25
	Usual activities	1.11	0.83	1.47	1.58	1.44	1.73	1.09	0.80	1.48
	Pain/discomfort		0.86	1.37	1.45	1.34	1.56	1.29	0.99	1.68
	Anxiety/ depression	1.43	1.08	1.89	1.11	1.02	1.21	1.27	0.94	1.71
Slovenia	Mobility	0.70	0.48	1.02	1.95	1.72	2.20	4.48	2.64	7.58
	Self-care	0.87	0.54	1.39	1.67	1.45	1.93	3.89	2.30	6.58
	Usual activities	0.93	0.66	1.31	1.51	1.37	1.68	3.29	2.04	5.31
	Pain/discomfort		0.76	1.43	1.52	1.37	1.67	2.30	1.39	3.81
	Anxiety/ depression	1.13	0.83	1.54	1.16	1.06	1.27	1.66	1.06	2.59
Spain	Mobility	1.61	1.30	2.00	1.91	1.78	2.06	1.46	1.10	1.96
•	Self-care	2.02	1.36	3.01	1.79	1.58	2.03	2.12	1.20	3.74
	Usual activities	1.76	1.39	2.24	1.63	1.51	1.75	1.37	1.01	1.88
	Pain/discomfort		1.43	2.05	1.34			1.41		1.73
	Anxiety/ depression	1.86	1.41	2.46	1.15	1.08	1.23	1.48	1.10	2.01
Sweden	Mobility	1.37	0.71	2.61	1.68	1.34	2.11	1.36	0.67	2.75
	Self-care	3.06	0.60	15.69	1.39	0.83	2.32		1.24	109.0
	Usual activities	0.97	0.51	1.87	1.27	1.03	1.57	1.58	0.77	3.26
	Pain/discomfort		0.77	1.62	1.26	1.12	1.42	2.05	1.33	3.16
	Anxiety/	1.74	1.16	2.63	0.94	0.83	1.07	1.41	0.87	2.28
	depression	/ '	1.10	2.03	J. J T	3.05	1.07	1.11	5.07	2.20

(continued)

Table 5.1 (continued)

Country	Dimension	Gender	95 %	CI	Age	95 %	CI	Edu	95 %	CI
Thailanda	Mobility	1.30	1.01	1.67	1.57	1.42	1.72	-	_	_
	Self-care	0.93	0.64	1.36	1.40	1.22	1.61	_	_	_
	Usual activities	0.97	0.75	1.24	1.22	1.11	1.34	-	_	-
	Pain/discomfort	1.37	1.09	1.71	1.31	1.20	1.43	_	_	_
	Anxiety/	1.44	1.17	1.79	1.14	1.05	1.23	-	_	-
	depression									
United Kingdo	m Mobility	0.90	0.75	1.09	1.65	1.56	1.76	1.68	1.37	2.06
	Self-care	0.80	0.57	1.13	1.45	1.30	1.62	1.85	1.26	2.71
	Usual activities	0.88	0.72	1.07	1.40	1.32	1.48	1.56	1.27	1.92
	Pain/discomfort	1.02	0.87	1.19	1.39	1.33	1.46	1.77	1.50	2.09
	Anxiety/	1.35	1.14	1.61	1.13	1.07	1.18	1.52	1.26	1.82
	depression									
United States	Mobility	1.25	1.17	1.34	1.73	1.70	1.77	1.96	1.80	2.14
	Self-care	1.04	0.93	1.16	1.61	1.55	1.68	2.33	2.06	2.63
	Usual activities	1.43	1.35	1.52	1.54	1.51	1.57	1.84	1.69	2.01
	Pain/discomfort	1.30	1.24	1.37	1.46	1.43	1.48	1.45	1.35	1.57
	Anxiety/	1.49	1.42	1.57	1.12	1.10	1.14	1.42	1.33	1.51
	depression									

^aEducation variable not available

Socio-demographic factors explained the smallest proportion of health inequalities in New Zealand (2.4 %), Korea (3.0 %), and Sweden (4.0 %), while they explained higher proportions in Slovenia (27.6 %) and Hungary (24.4 %).

The five dimensions of EQ-5D were generally more powerful in explaining overall self-assessed health. The explained proportion of the index varied from 14.6 % in Thailand to 54.3 % in Slovenia and Greece.

Within the socio-demographic variables, gender played the smallest role in explaining overall inequalities in self-assessed health (0–21.7 %), while age was generally the most important determinant (0–97.8 %). Education played a variable role in explaining inequalities in each country, from 0.3 % in Belgium to 93.9 % in Korea.

The health inequality profile according to the EQ-5D dimensions showed different patterns across countries. Pain/discomfort and usual activities were the highest contributors to overall inequalities in self-assessed health in most countries (n=8 and n=7, respectively). In Greece and Germany, mobility was the most important factor among the five dimensions. The relative share of mobility was the highest in Greece (37.5 %), while New Zealand had the highest relative share of self-care (21.7 %). Problems with usual activities contributed with the highest relative share in The Netherlands (48.0 %). Pain/discomfort had a particularly high relative share in Thailand (57.2 %) and Korea (49.6 %). The relative share of anxiety/depression was highest in China (36.4 %) in explaining overall inequalities in self-assessed health.

Table 5.2 Health inequality profile of 17 countries by socio-demographic factors (explained share in absolute and relative percentages)

		Socio-demogra	aphic factor (per	centages)	
	Inequality	Explained			
Country	index*	share	Gender	Age	Education
Belgium	0.126	7.9	0.2	7.7	0.0
_		100.0	1.9	97.8	0.3
China	0.095	21.7	0.1	12.9	8.6
		100.0	0.6	59.6	39.7
Denmark	0.094	7.0	0.0	4.3	2.7
		100.0	0.0	61.2	38.8
France	0.132	12.8	0.0	11.9	0.9
		100.0	0.0	93.3	6.7
Germany	0.131	17.8	0.1	16.9	0.8
-		100.0	0.5	95.2	4.3
Greece	0.125	16.5	0.5	12.7	3.3
		100.0	2.9	77.2	19.9
Hungary	0.157	24.4	0.4	19.6	4.4
		100.0	1.5	80.2	18.2
Italy	0.133	19.0	0.7	17.6	0.7
-		100.0	3.6	92.5	3.9
Korea	0.090	3.0	0.2	0.0	2.8
		100.0	6.1	0.0	93.9
Netherlands	0.104	4.7	0.4	3.7	0.6
		100.0	8.8	78.1	13.0
New Zealand	0.103	2.4	0.1	2.1	0.2
		100.0	2.9	86.8	10.3
Slovenia	0.136	27.6	0.3	15.9	11.4
		100.0	1.1	57.7	41.2
Spain	0.173	7.5	0.5	6.7	0.4
•		100.0	6.4	88.8	4.9
Sweden	0.103	4.0	0.1	1.6	2.3
		100.0	2.7	40.1	57.2
Thailand ^a	0.108	0.9	0.2	0.7	_
		100.0	21.7	78.3	_
United Kingdom	0.110	9.0	0.0	5.9	3.1
٥		100.0	0.1	65.6	34.3
United States	0.112	9.3	0.3	7.6	1.4
		100.0	3.7	81.5	14.8

^{*}p < 0.05 in all countries

The decomposition analysis that combined both the socio-demographic variables and reported problems along the five dimensions confirmed the above findings. However, in this analysis, problems with usual activities became the strongest contributor to overall inequalities in the majority of countries (n=9) followed by pain/discomfort.

^aEducation variable is not available in Thailand

Table 5.3 Health inequality profile of 17 countries by quality of life dimensions (explained share in absolute and relative percentages)

		Quality of	life factors	(percent	ages)		
Country	Inequality index*	Explained share	Mobility	Self- care	Usual activities	Pain/ discomfort	Anxiety/ depression
Belgium	0.126	24.9	5.2	3.5	8.2	4.7	3.4
_		100.0	20.9	13.9	32.9	18.8	13.5
China	0.095	24.4	3.1	0.2	2.8	9.5	8.9
		100.0	12.5	0.8	11.4	38.9	36.4
Denmark	0.094	36.5	7.0	2.6	12.7	8.4	5.8
		100.0	19.3	7.2	34.7	23.0	15.8
France	0.132	24.2	5.4	3.0	4.6	7.4	3.7
		100.0	22.5	12.5	19.1	30.5	15.4
Germany	0.131	34.6	11.3	1.6	9.1	9.3	3.3
		100.0	32.8	4.6	26.4	26.8	9.4
Greece	0.125	54.3	20.4	0.2	16.5	11.7	5.6
		100.0	37.5	0.4	30.3	21.5	10.3
Hungary	0.157	46.3	9.0	2.9	6.8	18.3	9.3
		100.0	19.5	6.3	14.7	39.5	20.0
Italy	0.133	35.2	7.7	2.7	9.2	10.8	4.8
		100.0	21.8	7.6	26.2	30.7	13.7
Korea	0.090	16.8	0.3	0.3	2.8	8.3	5.1
		100.0	1.8	2.0	16.6	49.6	30.1
Netherlands	0.104	30.7	6.5	0.4	14.7	8.3	0.9
		100.0	21.1	1.2	48.0	26.9	2.8
New Zealand	0.103	37.4	7.3	8.1	10.6	5.0	6.4
		100.0	19.5	21.7	28.3	13.4	17.2
Slovenia	0.136	54.3	13.0	9.3	14.6	11.9	5.5
		100.0	24.0	17.1	26.8	21.9	10.1
Spain	0.173	21.5	5.1	0.6	5.5	7.7	2.7
		100.0	23.5	2.9	25.5	35.7	12.5
Sweden	0.103	43.9	2.6	2.6	9.6	16.6	12.6
		100.0	5.9	5.9	21.8	37.7	28.6
Thailand	0.108	14.6	1.5	0.0	2.2	8.4	2.7
		100.0	10.2	0.0	15.1	57.2	18.5
United	0.110	35.0	7.1	1.6	9.7	9.6	7.0
Kingdom		100.0	20.3	4.5	27.7	27.4	20.1
United States	0.112	42.6	8.2	4.3	13.8	7.8	8.5
		100.0	19.3	10.1	32.5	18.2	19.9

p<0.05 in all countries

Table 5.4 Health inequality profile of 17 countries by socio-demographic and quality of life dimensions (explained share in absolute and relative percentages)

	* 100	Turn land of the second		<	1 dispersion	Mobilitar	5000 JES	II and cotinities	Doi: 04: 000 to to	Anxiety/
	mequanty maex	Explained share	Celluel	Age	Education	MODILITY	sell-cale	Osual activities	ram/disconnort	nebression
Belgium	0.126	26.8	0.0	3.8	0.0	4.3	3.4	7.8	4.2	3.4
		100.0	0.0	14.0	0.0	16.1	12.6	29.0	15.5	12.7
China	0.095	36.6	0.1	11.5	4.1	2.3	0.2	2.4	7.4	8.6
		100.0	0.3	31.3	11.3	6.2	0.7	6.5	20.3	23.4
Denmark	0.094	38.4	0.1	1.6	1.7	7.1	2.4	12.0	8.1	5.5
		100.0	0.1	4.2	4.3	18.5	6.3	31.1	21.1	14.4
France	0.132	28.6	0.0	7.0	0.7	3.5	2.9	4.5	6.1	4.0
		100.0	0.0	24.5	2.4	12.1	10.0	15.7	21.4	13.8
Germany	0.131	39.4	0.0	9.0	0.3	8.3	1.3	8.7	8.5	3.4
		100.0	0.0	22.9	0.7	21.1	3.2	22.0	21.4	8.7
Greece	0.126	55.2	0.1	2.6	0.3	20.4	0.0	15.4	10.4	0.9
		100.0	0.1	4.7	0.5	37.1	0.0	27.9	18.9	10.8
Hungary	0.157	50.6	0.0	9.4	1.2	9.9	2.4	5.9	15.8	9.2
		100.0	0.0	18.7	2.3	13.1	4.8	11.8	31.3	18.1
Italy	0.133	38.8	0.0	8.0	0.1	5.6	2.5	8.7	9.1	4.8
		100.0	0.0	20.5	0.2	14.5	6.4	22.4	23.5	12.4
Korea	0.090	19.3	0.0	0.0	1.5	0.4	0.4	2.7	9.0	5.3
		100.0	0.0	0.0	7.9	2.1	2.0	14.0	46.6	27.4
Netherlands	0.104	31.4	0.0	1.4	0.4	5.7	0.4	14.7	8.0	6.0
		100.0	0.0	4.4	1.2	18.2	1.2	46.7	25.4	2.8
New Zealand	0.103	38.9	0.1	0.0	0.1	8.1	8.1	10.6	5.3	6.5
		100.0	0.2	0.0	0.3	20.8	20.9	27.3	13.8	16.8
Slovenia	0.136	57.7	0.3	4.1	6.2	8.8	7.4	13.9	11.3	5.7
		100.0	0.5	7.2	10.7	15.3	12.7	24.2	19.6	6.6
Spain	0.173	22.8	0.1	2.8	0.1	4.0	9.0	5.2	7.2	2.7
		100.0	9.0	12.4	9.0	17.5	2.5	22.9	31.6	12.0

Sweden	0.104	44.4	0.0	0.4	0.3	2.4	2.5	7.6	16.3	12.8
		100.0	0.1	6.0	0.7	5.4	5.6	21.9	36.7	28.8
Thailand ^a	0.108	15.4	0.4	0.2	ı	1.5	0.0	2.1	8.4	2.9
		100.0	2.3		ı	9.5	0.0	13.9	54.7	18.6
United Kingdom 0.110	0.110	35.9	0.0		1.3	6.3	1.5	8.6	8.9	6.9
		100.0	0.0	3.0	3.7	17.7	4.3	27.2	24.7	19.3
United States	0.112	43.1	0.0		0.5	7.6	4.0	13.9	7.4	8.5
		100.0	0.0		1.2	17.5	9.4	32.2	17.3	19.8
* 10.05 Ile ai \$0.07	200									

p < 0.05 in all countries 8 Education variable is not available in Thailand

5.4 Conclusions

Evidence from these analyses shows that inequalities in self-reported health measured by the EQ-5D exist across many countries despite different demographic, economic and cultural characteristics. The individual health inequality profile of each country deserves the attention of policy makers to promote greater equity.

Both the analysis of odds ratios and concentration indices showed that age is the most important overall predictor of experiencing lower EQ VAS and problems on mobility, self-care, usual activities, and pain/discomfort in all countries. Gender does play an additional role, although its role is much smaller. Having attained at least a medium level of education, adjusted for age and gender, translated into lower odds of reporting problems on any dimension of EQ-5D in almost all surveyed countries. However, this relationship seemed to possess some country-specific traits that deserve the attention of policy makers.

In addition, the decomposition analysis of the concentration index provided a unique insight into the role of each individual EQ-5D dimension in explaining overall inequalities in EQ VAS. This analysis, in particular, highlighted the wide-spread importance of problems with pain/discomfort and usual activities in explaining inequalities in overall self-assessed health.

Finally, it has to be noted that the above results should not be used for ranking countries based on health inequality among their populations. Neither was the analysis designed to account for potential differences in demographic or other sample characteristics across countries. Each country should consider the results within the light of their own social and health care context. Further data collection and research by population subgroups that were not included in this study – such as social, ethnic, or patient groups – could help prioritize and further refine inequality reduction programs.

Another limitation of this study derives from the simple, generic nature of the EQ-5D questionnaire. The domains described by the EQ-5D-3L are generic and response options are limited to three levels. While these characteristics make the EQ-5D feasible to administer in large population surveys, they also lead to some limitations in interpreting results. For example, it is not possible to determine what proportion of reported pain related to acute, sub-acute, or chronic pain, or what were the key types of usual activities people had problem with. Targeted research along each important quality of life domain could further help understand in-depth characteristics of inequalities and identify strategies to tackle them efficiently.

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Annex 1: EQ-5D Population Norms – National Surveys

Argentina

Source: Ministry of Health of Argentina (2005)

Number of respondents

Age	18-24	25-34	35–44	45-54	55-64	65–74	75+	Total
Total	5,957	9,059	8,213	6,690	5,078	3,686	2,709	41,392
Males	2,829	3,951	3,569	3,008	2,171	1,350	949	17,827
Females	3,128	5,108	4,644	3,682	2,907	2,336	1,760	23,565

EQ VAS (self-rated health)

		Age							
EQ-VAS (self-rated)	18–24	25-34	35–44	45–54	55-64	65–74	75+	Total
Total	Mean	82.0	79.4	77.2	74.4	69.5	67.9	62.2	75.3
	Standard error	0.5	0.4	0.4	0.5	0.6	0.6	1.0	0.2
	25th percentile	75	70	70	70	60	50	50	70
	50th percentile	85	80	80	80	70	70	60	80
	75th percentile	90	90	90	90	80	80	80	90
Males	Mean	83.9	81.1	79.3	75.9	70.3	69.6	64.2	77.3
	Standard error	0.6	0.5	0.6	0.8	0.8	0.9	1.8	0.3
	25th percentile	80	70	70	70	60	60	50	70
	50th percentile	90	80	80	80	70	70	70	80
	75th percentile	90	90	90	90	80	80	80	90
Females	Mean	79.9	77.9	75.5	72.9	68.8	66.5	60.8	73.6
	Standard error	0.6	0.6	0.6	0.7	0.8	0.8	1.1	0.3
	25th percentile	70	70	70	60	50	50	50	60
	50th percentile	80	80	80	80	70	70	60	80
	75th percentile	90	90	90	80	80	80	80	90

Problems reported by dimension (raw numbers, weighted proportions)

		Age													
		18–24	Í	25–34	Í	35–44		45–54		55–64		65–74		75+	
Total		n	%	n	%	n	%	n	%	n	%	n	%	n	%
Mobility	No problems	5,800	97.3	8,743	9.96		2	5,960	6.06	4,084	82.5	2,592	74.0		56.5
	Some problems	142	2.6	303	3.3		5.2	709	8.9	696	17.2	1,051	24.8		40.8
	Confined to bed	15	0.2	13	0.1		0.3	21	0.2	25	0.4	43	1.3		2.7
Self-care	No problems	5,917	8.86	8,996	99.1	8,130	98.3	6,557	98.4	4,892	97.1	3,409	93.4	2,234	83.6
	Some problems	30	1.1	50	8.0		1.6	117	1.5	174	2.8	251	5.1		13.5
	Unable to	10	0.1	13	0.0		0.1	16	0.1	12	0.1	26	1.4		2.9
Usual activities	No problems	5,794	97.4	8,769	9.96		92.6	6,103	93.8	4,359	87.8	2,965	82.2		0.89
	Some problems	153	2.6	278	3.1		4.2	265	0.9	<i>LL</i> 19	11.6	651	15.9		27.0
	Unable to	10	0.1	12	0.3		0.2	22	0.2	42	0.5	70	2.0		4.9
Pain/discomfort	No	4,804	83.0	966'9	78.0		71.1	4,161	65.6	2,843	60.7	1,804	53.3		41.9
	Some	1,076	16.1	1,890	19.7		26.2	2,176	29.3	1,873	34.5	1,565	39.5		45.0
	Extreme	77	6.0	173	2.4		2.7	353	5.0	362	4.8	317	7.2		13.2
Anxiety/depression	No	4,922	83.2	7,288	79.9		76.4	4,929	74.8	3,668	74.5	2,623	73.8		69.4
	Some	918	14.9	1,545	17.9		20.9	1,503	22.0	1,150	20.8	879	21.8		25.2
	Extreme	117	1.9	226	2.3		2.7	258	3.1	260	4.7	184	4.4		5.3

		Age													
		18–24		25–34		35-44		45-54		55-64		65–74		75+	
Males		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	2,757	97.5	3,817	97.0	3,399	95.4	2,773	92.5	1,826	84.9	665	78.4	574	65.2
	Some problems	65	2.4	130	3.0	161	4.5	230	7.4	336	14.9	339	20.4	354	32.8
	Confined to bed	7	0.1	4	0.1	6	0.1	5	0.1	6	0.2	19	1.2	21	2.0
Self-care	No problems	2,812	99.2	3,922	99.3	3,537	99.2	2,965	98.2	2,103	97.4	1,262	93.1	821	86.9
	Some problems	12	0.8	21	0.7	28	0.8	36	1.7	61	2.5	77	4.9	86	10.4
	Unable to	5	0.1	8	0.0	4	0.1	7	0.1	7	0.1	11	1.9	30	2.7
Usual activities	No problems	2,750	97.5	3,845	6.96	3,433	9.96	2,854	95.8	1,919	9.68	1,121	85.8	694	78.9
	Some problems	72	2.4	86	3.0	128	3.3	4	4.0	235	10.1	204	12.4	208	17.0
	Unable to	7	0.1	8	0.1	∞	0.1	10	0.2	17	0.3	25	1.8	47	4.1
Pain/discomfort	No	2,405	87.0	3,230	81.0	2,781	78.0	2,085	70.5	1,380	65.5	774	61.1	433	48.3
	Some	406	12.6	672	17.5	715	19.9	823	24.7	673	31.1	490	32.4	420	40.3
	Extreme	18	0.4	49	1.5	73	2.1	100	4.8	118	3.4	98	6.5	96	11.4
Anxiety/depression	No	2,420	85.8	3,347	82.4	2,927	82.2	2,397	79.8	1,663	76.9	1,034	76.9	714	74.6
	Some	371	12.9	535	15.7	590	16.4	536	18.0	425	18.4	276	20.6	202	21.2
	Extreme	38	1.4	69	1.8	52	1.5	75	2.3	83	4.7	40	2.4	33	4.2
														(con	(continued)

(continued)

		Age													
		18–24		25–34		35-44		45-54		55-64		65–74		75+	
Females		u		u	%	u	%	u	%	u		u	%	u	%
Mobility	No problems	3,043	6.96	4,926	6.3	4,316	93.9	3,187	89.4	2,258	80.2	1,600	9.07 (912	50.7
	Some problems	77		173	3.6	316	5.8	479	10.3	633		712	28.1	786	46.1
	Confined to bed	∞		6	0.2	12	0.4	16	0.4	16		24	1.3	62	3.2
Self-care	No problems	3,105		5,074	0.66	4,593	97.5	3,592	7.86	2,789		2,147	93.7	1,413	81.4
	Some problems	18		29	1.0	43	2.3	81	1.3	113		174	5.3	284	15.6
	Unable to	5		5	0.0	∞	0.2	6	0.1	5		15	1.0	63	3.1
Usual activities	No problems	3,044		4,924	96.3	4,342	94.7	3,249	91.8	2,440		1,844	79.5	1,075	2.09
	Some problems	81		180	3.2	288	5.0	421	8.0	442		447	18.5	562	33.8
	Unable to	3		4	0.5	14	0.3	12	0.2	25		45	2.1	123	5.5
Pain/discomfort	No	2,399		3,766	75.4	3,016	65.2	2,076	6.09	1,463		1,030	47.2	631	37.5
	Some	029		1,218	21.6	1,435	31.6	1,353	33.8	1,200		1,075	45.0	885	48.1
	Extreme	59		124	3.1	193	3.2	253	5.3	244		231	7.8	244	14.4
Anxiety/depression	No	2,502		3,941	7.77	3,311	71.5	2,532	70.0	2,005		1,589	71.4	1,168	0.99
	Some	547		1,010	19.7	1,136	24.7	<i>L</i> 96	26.0	725		603	22.7	478	28.0
	Extreme	79		157	2.6	197	3.8	183	4.0	177		144	5.9	114	6.1

EQ-5D index value (European VAS value set)

EQ-5D inc	lex value	Age							
(European		18-24	25-34	35-44	45-54	55-64	65-74	75+	Total
Total	Mean	0.907	0.889	0.869	0.849	0.829	0.796	0.724	0.856
	Standard error	0.003	0.004	0.004	0.004	0.005	0.006	0.009	0.002
	25th percentile	0.79	0.79	0.78	0.78	0.73	0.71	0.62	0.78
	50th percentile	0.98	0.98	0.98	0.98	0.84	0.78	0.76	0.98
	75th percentile	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Males	Mean	0.920	0.901	0.894	0.868	0.847	0.819	0.764	0.877
	Standard error	0.004	0.004	0.005	0.007	0.008	0.010	0.015	0.002
	25th percentile	0.98	0.79	0.79	0.78	0.76	0.73	0.65	0.78
	50th percentile	0.98	0.98	0.98	0.98	0.98	0.81	0.78	0.98
	75th percentile	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Females	Mean	0.892	0.879	0.847	0.832	0.813	0.778	0.698	0.837
	Standard error	0.005	0.005	0.005	0.006	0.007	0.008	0.010	0.002
	25th percentile	0.79	0.78	0.78	0.73	0.71	0.70	0.60	0.76
	50th percentile	0.98	0.98	0.98	0.79	0.79	0.78	0.73	0.98
	75th percentile	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98

EQ-5D index value (TTO value set)

EQ-5D inc	lex value	Age							
(TTO valu		18–24	25-34	35–44	45–54	55-64	65–74	75+	Total
Total	Mean	0.951	0.936	0.919	0.898	0.874	0.835	0.756	0.902
	Standard error	0.003	0.004	0.003	0.004	0.005	0.007	0.010	0.002
	25th percentile	0.93	0.93	0.88	0.88	0.83	0.72	0.65	0.88
	50th percentile	1.00	1.00	1.00	1.00	0.93	0.88	0.83	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.962	0.947	0.939	0.913	0.889	0.857	0.795	0.920
	Standard error	0.003	0.004	0.004	0.007	0.008	0.012	0.017	0.003
	25th percentile	1.00	0.93	0.93	0.88	0.83	0.80	0.69	0.88
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.93	0.88	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.940	0.926	0.902	0.883	0.859	0.818	0.729	0.885
	Standard error	0.004	0.005	0.005	0.006	0.007	0.009	0.012	0.003
	25th percentile	0.93	0.88	0.88	0.83	0.82	0.72	0.61	0.83
	50th percentile	1.00	1.00	1.00	0.93	0.93	0.88	0.77	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

EQ-5D index value (VAS value set)

EQ-5D ind	lex value	Age							
(VAS valu		18-24	25-34	35-44	45-54	55-64	65-74	75+	Total
Total	Mean	0.928	0.911	0.888	0.867	0.837	0.793	0.712	0.871
	Standard error	0.003	0.004	0.004	0.005	0.006	0.008	0.010	0.002
	25th percentile	0.84	0.84	0.81	0.81	0.72	0.62	0.51	0.81
	50th percentile	1.00	1.00	1.00	1.00	0.84	0.81	0.72	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.941	0.923	0.913	0.887	0.856	0.819	0.761	0.893
	Standard error	0.004	0.005	0.005	0.007	0.009	0.012	0.016	0.003
	25th percentile	1.00	0.84	0.84	0.81	0.72	0.66	0.57	0.81
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.84	0.81	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.914	0.900	0.866	0.846	0.819	0.772	0.679	0.850
	Standard error	0.005	0.005	0.006	0.006	0.008	0.009	0.011	0.003
	25th percentile	0.84	0.81	0.81	0.72	0.72	0.61	0.50	0.72
	50th percentile	1.00	1.00	1.00	0.84	0.84	0.81	0.65	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.84	1.00

Belgium

Source: ESEMeD; König et al. (2009)

Number of respondents

Age	18–24	25–34	35–44	45–54	55–64	65–74	75+	Total
Total	165	405	560	433	349	302	197	2,411
Males	74	205	283	215	179	145	87	1,188
Females	91	200	277	218	170	157	110	1,223

EQ VAS (self-rated health)

		Age							
EQ-VAS	(self-rated)	18–24	25-34	35–44	45–54	55-64	65–74	75+	Total
Total	Mean	84.0	82.0	80.2	77.2	74.2	71.3	69.4	77.6
	Standard error	1.0	1.2	1.2	1.4	1.6	1.3	1.7	0.5
	25th percentile	80	80	80	70	70	65	60	70
	50th percentile	85	85	85	80	80	75	75	80
	75th percentile	90	95	90	90	90	85	80	90
Males	Mean	84.3	81.6	81.7	78.8	75.8	70.6	69.2	78.6
	Standard error	1.2	1.9	1.5	2.0	2.2	1.9	2.8	0.8
	25th percentile	80	80	80	75	70	65	60	70
	50th percentile	85	85	85	80	80	75	75	80
	75th percentile	90	90	90	90	90	85	80	90
Females	Mean	83.7	82.5	78.7	75.4	72.4	71.7	69.6	76.7
	Standard error	1.7	1.5	1.9	2.0	2.3	1.8	2.1	0.8
	25th percentile	80	80	75	70	70	65	60	70
	50th percentile	87	88	85	80	80	75	70	80
	75th percentile	95	95	90	90	90	80	80	90

Problems reported by dimension (raw numbers, weighted proportions)

		Age													
		18–24		25–34		35-44		45–54		55–64		65–74		75+	
Total		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	157	95.1	384	95.1	526	94.1	380	87.1	300	86.3	234	76.0	124	55.5
	Some problems	∞	4.9	20	4.0	31	5.5	50	12.5	49	13.7	29	23.9	71	43.4
	Confined to bed	0	0.0	-	6.0	33	0.5	ε	0.4	0	0.0	1	0.1	2	1.1
Self-care	No problems	163	99.4	396	7.76	549	98.5	416	416 94.4	336	97.0	285	93.4	163	81.5
	Some problems	2	9.0	7	1.4	6	1.3	16	5.5	13	3.0	15	6.2	28	15.8
	Unable to	0	0.0	2	1.0		0.3	1	0.1	0	0.0	2	0.5	9	2.7
Usual activities	No problems	161	96.5	381	94.6	518	92.6	373	85.2	309	88.7	242	79.3	128	62.7
	Some problems	4	3.5	20	4.7		6.7	54	14.1	38	10.7	99	19.4	52	28.0
	Unable to	0	0.0	4	0.7	5	0.7	9	0.7	2	9.0	4	1.2	17	9.4
Pain/discomfort	No	140	87.7	325	78.3		78.1	298	68.1	229	64.1	193	57.8	106	49.1
	Some	24	12.0	75	20.1		20.4	119	29.3	113	33.0	102	40.7	82	45.4
	Extreme	1	0.4	5	1.6		1.5	16	2.6	7	2.9	7	1.6	6	5.5
Anxiety/depression	No	160	9.96	378	93.9	526	93.2	401	93.4	325	93.8	278	91.9	185	94.1
	Some	S	3.4		5.4		5.1	27	5.8	20	5.3	21	7.0	11	5.1
	Extreme	0	0.0	5	0.7	7	1.7	5	0.8	4	6.0	3	1.0	1	0.8

		Age													
		18–24	4	25–34	Í	35–44		45–54		55–64		65–74		75+	
Males		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	89	91.4	202	7.76	569	94.6	190	0.68	159	90.5		75.0	63	64.7
	Some problems	9	9.8	2	9.0	12	4.8	22	10.2	20	9.5	29	24.7	24	35.3
	Confined to bed	0	0.0	1	1.6	2	9.0	ε	0.7	0	0.0	1	0.3	0	0.0
Self-care	No problems	73	99.1	202	97.8 276	276	0.86	204 93.9	93.9	174	97.4	139	94.6	79	90.4
	Some problems	-	6.0		0.3	5	1.4	10	5.8	5	2.6	9	5.4	7	8.3
	Unable to	0	0.0	2	1.8	2	9.0	П	0.3	0	0.0	0	0.0	1	1.2
Usual activities	No problems	73	97.4	196	95.7	263	93.1	190	87.0	158	88.6	124		29	77.0
	Some problems	_	2.6	8	4.1	15	5.4	22	12.3	19	10.3	18		14	16.4
	Unable to	0	0.0	-	0.2	5	1.4	\mathcal{E}	9.0	2	1.1	33		9	6.5
Pain/discomfort	No	61	82.6	170	6.62	218	78.5	156	74.1	125	68.1	66		99	64.5
	Some	12	16.7	34	18.4	61	20.1	50	24.0	50	28.3	43		56	33.3
	Extreme	_	0.7		1.6	4	1.4	6	1.9		3.6	33	1.5	2	2.2
Anxiety/depression	No	70	94.7	193	94.6	270	95.1	208	8.76	164	92.9	138	95.4	83	95.1
	Some	4	5.3		4.5	6	2.8	9	2.0		8.9	7	4.6	4	4.9
	Extreme	0	0.0	3	6.0	4	2.0	1	0.2	1	0.3	0	0.0	0	0.0

(continued)

(continued)

		Age													
		18–24	4	25–34		35–44		45–54		55–64		65–74		75+	
Females		u	%	u	%	u	%	u	%	п	%	u	%	u	%
Mobility	No problems	68	0.66	182	92.2	257	93.6	190	85.1	141	81.3	119	76.7	61	49.4
	Some problems	7	1.0	18	7.8	19	6.1		14.9	29	18.7	38	23.3	47	48.8
	Confined to bed	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0	0		2	1.8
Self-care	No problems	06	9.66	194	5.76	273	6.86	212	94.9	162	96.5	146		84	75.6
	Some problems	-	0.4	9	2.5	4	1.1	9	5.1	8	3.5	6		21	20.7
	Unable to	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2		5	3.7
Usual activities	No problems	88	92.6	185	93.3	255	92.2	183	83.2	151	88.9	118		61	53.3
	Some problems	3	4.4	12	5.5	22	7.8	32	16.0	19	11.1	38		38	35.5
	Unable to	0	0.0	3	1.2	0	0.0	\mathcal{E}	8.0	0	0.0	_		=	11.2
Pain/discomfort	No	79	93.2	155	9.9/	216	7.77	142	61.8	104	59.4	94		50	39.1
	Some	12	8.9	41	21.9	99	20.7	69	34.9	63	38.5	59		53	53.4
	Extreme	0	0.0	4	1.5	5	1.6	7	3.3	ε	2.1	4		7	7.6
Anxiety/depression	No	06	9.86	185	93.1	256	91.4	193	88.7	161	94.8	140		102	93.5
	Some	-	1.4	13 6.4	6.4	18	18 7.2	21	6.6	9	6 3.6	14 8.8		7	5.2
	Extreme	0	0.0	2	9.0	3	1.4	4	1.5	3	1.6	3		1	1.3

EQ-5D index value (European VAS value set)

EQ-5D ind	lex value	Age							
(European		18–24	25-34	35-44	45-54	55-64	65–74	75+	Total
Total	Mean	0.953	0.921	0.920	0.889	0.881	0.848	0.761	0.891
	Standard error	0.008	0.010	0.007	0.010	0.011	0.011	0.020	0.004
	25th percentile	1.00	0.78	0.78	0.78	0.78	0.71	0.66	0.78
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.85	0.78	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.933	0.925	0.921	0.912	0.890	0.862	0.834	0.905
	Standard error	0.014	0.017	0.010	0.013	0.016	0.017	0.024	0.006
	25th percentile	0.81	0.85	0.81	0.78	0.78	0.75	0.71	0.78
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.976	0.918	0.919	0.864	0.871	0.838	0.714	0.878
	Standard error	0.007	0.011	0.010	0.015	0.015	0.015	0.027	0.006
	25th percentile	1.00	0.78	0.78	0.75	0.78	0.71	0.57	0.78
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.78	0.78	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

EQ-5D index value (VAS value set)

EQ-5D inc	lex value	Age							
(VAS valu		18-24	25-34	35–44	45–54	55–64	65–74	75+	Total
Total	Mean	0.949	0.915	0.912	0.881	0.871	0.836	0.748	0.883
	Standard error	0.009	0.011	0.008	0.011	0.012	0.012	0.020	0.005
	25th percentile	1.00	0.76	0.76	0.76	0.76	0.69	0.66	0.76
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.82	0.76	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.926	0.918	0.913	0.907	0.881	0.852	0.823	0.897
	Standard error	0.016	0.018	0.012	0.014	0.017	0.018	0.025	0.006
	25th percentile	0.77	0.82	0.77	0.76	0.76	0.73	0.69	0.76
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.973	0.911	0.911	0.853	0.860	0.825	0.699	0.869
	Standard error	0.008	0.012	0.011	0.016	0.017	0.016	0.027	0.006
	25th percentile	1.00	0.76	0.76	0.73	0.76	0.69	0.58	0.76
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.77	0.74	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

China
Source: Household Health Survey (2010), Sun et al. (2011)
Number of respondents

Age	18–24	25–34	35–44	45–54	55–64	65–74	75+	Total
Total	1,095	958	1,782	1,491	1,401	884	420	8,031
Males	549	450	853	721	675	444	184	3,876
Females	546	508	929	770	726	440	236	4,155

		Age							
EQ-VAS (self-rated)	18–24	25-34	35-44	45-54	55-64	65-74	75+	Total
Total	Mean	89.1	85.7	82.7	79.4	76.5	72.2	69.4	80.4
	Standard error	0.3	0.4	0.3	0.3	0.4	0.5	0.8	0.2
	25th percentile	80	80	80	70	70	60	60	73
	50th percentile	90	90	90	80	80	75	70	84
	75th percentile	100	90	90	90	90	80	80	90
Males	Mean	89.3	86.1	83.1	80.7	77.8	73.1	72.0	81.3
	Standard error	0.5	0.6	0.4	0.5	0.5	0.7	1.1	0.2
	25th percentile	85	80	80	75	70	65	60	75
	50th percentile	90	90	90	80	80	80	70	84
	75th percentile	100	90	90	90	90	80	80	90
Females	Mean	88.9	85.4	82.4	78.2	75.3	71.3	67.4	79.6
	Standard error	0.4	0.5	0.4	0.5	0.5	0.7	1.1	0.2
	25th percentile	80	80	80	70	70	60	60	73
	50th percentile	90	90	85	80	80	70	70	82
	75th percentile	98	90	90	90	85	80	80	89

Problems reported by dimension

		Age													
		18–24		25–34		35-44		45–54		55–64		65–74		75+	
Total		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	1,084	0.66	942	6.86		5.76	1,448	0.76	1,310	93.5	783	9.88	316	75.3
	Some problems	10	6.0	14	1.5		2.3	42	2.8	87	6.2	94	10.6		22.6
	Confined to bed	_	0.1	2	0.2	4	0.2	3	0.2	4	0.3	7	8.0	6	2.1
Self-care	No problems	1,076	98.2	949	99.1		8.86	1,464	98.2	1,358	97.0	832	94.1		86.2
	Some problems	18	1.6	7	0.7		1.0	24	1.6	36	2.6	46	5.2		11.4
	Unable to	2	0.2	2	0.2		0.2	33	0.2	9	0.4	9	0.7		2.4
Usual activities	No problems	1,080	98.6	940	98.1		97.4	1,439	96.4	1,306	93.2	799	90.4		75.9
	Some problems	13	1.2	16	1.7		2.2	49	3.3	85	6.1	89	7.7		17.9
	Unable to	2	0.2	2	0.2		0.4	4	0.3	10	0.7	17	1.9		6.2
Pain/discomfort	No	1,073	0.86	919	95.9		94.7	1,331	89.3	1,170	83.5	869	79.0		70.5
	Some	22	2.0	37	3.9		5.0	155	10.4	224	16.0	176	19.9		28.3
	Extreme	0	0.0	2	0.2		0.3	4	0.3	7	0.5	10	1.1		1.2
Anxiety/depression	No	1,064	97.2	806	94.8		93.1	1,370	91.8	1,238	88.4	754	85.3		80.5
	Some	30	2.7	45	4.7		6.7	115	7.7	156	11.1	120	13.6		18.3
	Extreme	1	0.1	3	0.5		0.2	7	0.5	7	0.5	10	1.1	S	1.2
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		Age													
		18–24		25–34		35-44		45–54	_	55–64		65–74		75+	
Males		u	%	u	%		%	п	u % u % u	u	%	u	%	u	%
Mobility	No problems	544	99.1	440	440 97.8	834	834 97.8	703	5.76	632	93.6	409	92.1	141 76.6	9.9/
	Some problems	4	4 0.7	∞	1.8	17	2.0	17	2.4	41	6.1	32	7.2	43	23.4
	Confined to bed	1	0.2	2	0.4	2	0.2	1	0.1	2	0.3	33	0.7	0	0.0
Self-care	No problems	540	98.3	445	6.86	843	6.86	707	98.1	654	6.96	422	95.0	164	89.2
	Some problems	8	1.5	Э	0.7	8	6.0	13	1.8	16	2.4	18	4.1	17	9.2
	Unable to	1	0.2	2	0.4	2	0.2	_	0.1	5	0.7	4	6.0	ϵ	1.6
Usual activities	No problems	542	7.86	442	98.3	834	8.76	703	97.5	630	93.3	409	92.1	147	8.62
	Some problems	9	1.1	9	1.3	14	1.6	17	2.4	39	5.8	28	6.3	31	16.9
	Unable to	_	0.2	2	0.4	5	9.0	_	0.1	9	6.0	7	1.6	9	3.3
Pain/discomfort	No	541	98.5	435	2.96	822	96.4	029	92.9	587	87.0	371	83.6	141	9.92
	Some	∞	1.5	14	3.1	30	3.5	51	7.1	98	12.7	89	15.3	43	23.4
	Extreme	0	0.0	1	0.2	1	0.1	0	0.0	2	0.3	5	1.1	0	0.0
Anxiety/depression	No	535	97.4	432	0.96	801	93.9	<i>L</i> 99	92.5	611	90.5	387	87.2	153	83.2
	Some	13	2.4	16	3.6	49	5.7	52	7.2	09	8.9	52	11.7	30	16.3
	Extreme	1	0.2	2	0.4	3	0.4	2	0.3	4	9.0	2	1.1	1	0.5

		Age													
		18–24		25–34		35-44		45–54		55–64		65–74		75+	
Females		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	540	6.86	502	8.86	903	97.2	744	9.96	829	93.4	374	85.0	175	74.2
	Some problems	9	1.1	9	1.2	24	2.6	24	3.1	46	6.3	62	14.1	52	22.0
	Confined to bed	0	0.0	0	0.0	2	0.2	2	0.3	2	0.3	4	6.0	6	3.8
Self-care	No problems	536	98.1	504	99.2	918	8.86	757	98.3	704	97.0	410	93.1	198	83.9
	Some problems	6	1.7	4	8.0	6	1.0	11	1.4	21	2.9	28	6.4	31	13.1
	Unable to	_	0.2	0	0.0	2	0.2	2	0.3		0.1	2	0.5	7	3.0
Usual activities	No problems	538	98.5	498	0.86	905	97.1	735	95.4	675	92.9	390	88.6	172	72.9
	Some problems	7	1.3	10	2.0	25	2.7	32	4.2		6.5	40	9.1	44	18.6
	Unable to	1	0.2	0	0.0	2	0.2	33	0.4	4	9.0	10	2.3	20	8.5
Pain/discomfort	No	532	97.4	484	95.3	998	93.2	662	86.0		80.3	327	74.3	155	65.7
	Some	14	2.6	23	4.5	59	6.4	104	13.5		19.0	108	24.6	92	32.2
	Extreme	0	0.0	П	0.2	4	0.4	4	0.5		0.7	5	1.1	5	2.1
Anxiety/depression	No	529	6.96	476	93.7	857	92.3	703	91.2	628	86.5	367	83.4	185	78.4
	Some	17	3.1	29	5.7	71	7.6	62	8.1		13.1	89	15.5	47	19.9
	Extreme	0	0.0	3	9.0	1	0.1	5	0.7	3	0.4	5	1.1	4	1.7

EQ-5D index value (European VAS value set)

EQ-5D inc	lex value	Age							
(European		18–24	25-34	35–44	45–54	55-64	65-74	75+	Total
Total	Mean	0.990	0.980	0.970	0.960	0.930	0.900	0.840	0.951
	Standard error	0.002	0.003	0.002	0.003	0.004	0.006	0.011	0.001
	25th percentile	1.00	1.00	1.00	1.00	1.00	0.78	0.69	0.96
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.990	0.980	0.970	0.960	0.940	0.920	0.870	0.956
	Standard error	0.003	0.004	0.003	0.004	0.005	0.008	0.014	0.002
	25th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.78	0.99
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.980	0.970	0.970	0.950	0.920	0.880	0.810	0.940
	Standard error	0.003	0.004	0.004	0.005	0.006	0.009	0.018	0.002
	25th percentile	1.00	1.00	1.00	1.00	0.78	0.78	0.69	0.92
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Denmark

Source: Sørensen et al. (2009) **Number of respondents**

Age	18–24	25–34	35–44	45–54	55–64	65–74	75+	Total
Total	1,580	2,974	3,277	3,341	2,737	1,824	1,128	16,861
Males	733	1,358	1,475	1,615	1,347	862	510	7,900
Females	847	1,616	1,802	1,726	1,390	962	618	8,961

		Age							
EQ-VAS (self-rated)	18-24	25-34	35–44	45–54	55–64	65–74	75+	Total
Total	Mean	86.2	87.9	85.8	83.0	81.6	78.3	76.2	83.7
	Standard error	0.5	0.3	0.4	0.5	0.5	0.7	1.0	0.2
	25th percentile	80	82	80	75	75	70	67.5	80
	50th percentile	90	90	90	89	85	80	80	90
	75th percentile	95	95	95	95	95	90	90	95
Males	Mean	86.2	88.1	85.7	82.5	82.3	79.6	75.6	83.8
	Standard error	0.8	0.5	0.6	0.7	0.7	1.0	1.5	0.3
	25th percentile	80	82	80	75	75	75	65.25	80
	50th percentile	90	90	90	85	85	83	80	90
	75th percentile	95	95	95	94	95	90	90	95
Females	Mean	86.1	87.7	85.9	83.5	80.9	77.1	76.7	83.5
	Standard error	0.8	0.5	0.5	0.6	0.7	1.0	1.3	0.3
	25th percentile	80	82.25	80	75	75	67	69	75
	50th percentile	90	90	90	90	85	80	80	90
	75th percentile	95	95	95	95	95	90	90	95

^{*}N = 6,500; EQ VAS was included in two of three sub-studies

Problems reported by dimension

		Age													
		18–24		25–34		35-44		45–54		55-64	Ī	65–74		75+	
Total		u	%	u	%	u	%		%	u	%	u	%	u	%
Mobility	No problems	1,531	6.96		0.96		93.7	3,049	91.3	2,378	6.98	1,463	80.2	719	63.7
		48	3.0		3.9		6.3		8.7	354	12.9	357	19.6	393	34.8
	Confined to bed	_	0.1		0.1		0.1		0.1	5	0.2	4	0.2	16	1.4
Self-care		1,571	99.4	2,961	9.66	3,236	7.86		0.86	2,671	97.6	1,727	94.7	266	88.4
	ns	7	0.4		0.4		1.0		1.9	54	2.0	82	4.5	102	0.6
		2	0.1		0.0		0.2		0.1	12	0.4	15	8.0	29	2.6
Usual activities		1,466	92.8		90.1		86.4		82.1	2,138	78.1	1,328	72.8	653	57.9
	sms	106	6.7		9.0		11.7		15.3	517	18.9	399	21.9	347	30.8
		8	0.5		6.0		1.8		2.6	82	3.0	26	5.3	128	11.3
Pain/discomfort		1,185	75.0		75.6		65.8		61.1	1,545	56.4	026	53.2	530	47.0
		388	24.6		23.6		32.5		35.8	1,116	40.8	787	43.1	545	48.3
		7	0.4		8.0		1.7		3.1	9/	2.8	<i>L</i> 9	3.7	53	4.7
Anxiety/depression	No	1,374	87.0		87.7		84.5		82.3	2,259	82.5	1,476	80.9	806	80.5
		193	12.2		11.8		14.9		16.8	460	16.8	334		206	18.3
		13	0.8		9.0		0.5		6.0	18	0.7	14	8.0	14	1.2

		Age													
		18–24		25–34		35-44		45–54		55–64		65–74		75+	
Males		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	716	1.76	1,311	96.5	1,388	94.1	1,484	91.9	1,195	88.7	701	81.3	340	2.99
	Some problems	16	2.2	44	3.2		5.8		8.0	150	11.1	160	18.6	165	32.4
	Confined to bed	1	0.1	\mathcal{E}	0.2		0.1		0.1	2	0.1	_	0.1	5	1.0
Self-care	No problems	728	99.3	1,354	7.66		9.86		97.9	1,321	98.1	824	95.6	456	89.4
	Some problems	4	0.5	4	0.3		1.1		2.0	22	1.6	31	3.6	45	8.8
	Unable to	1	0.1	0	0.0		0.3		0.1	4	0.3	7	8.0	6	1.8
Usual activities	No problems	693	94.5	1,246	91.8		89.1		85.2	1,097	81.4	658	76.3	326	63.9
	Some problems	35	4.8	104	7.7		9.3		12.7	214	15.9	161	18.7	145	28.4
	Unable to	5	0.7	8	9.0		1.6		2.1	36	2.7	43	5.0	39	7.6
Pain/discomfort	No	583	79.5	1,070	78.8		8.69		65.6	807	59.9	505	58.6	269	52.7
	Some	146	19.9	277	20.4		29.3		31.8	509	37.8	337	39.1	224	43.9
	Extreme	4	0.5	11	8.0		6.0		2.7	31	2.3	20	2.3	17	3.3
Anxiety/depression	No	<i>L</i> 99	91.0	1,232	20.7		88.1		84.8	1,168	86.7	736	85.4	441	86.5
	Some	62	8.5	118	8.7		11.6		14.8	175	13.0	122	14.2	63	12.4
	Extreme	4	0.5	∞	9.0		0.3		0.4	4	0.3	4	0.5	9	1.2
															:

continued)

(continued)

		Age													
		18–24		25–34		35-44		45–54		55–64		65–74		75+	
Females		n	%	n	%	n	%	n	%	n	%	n	%	n	%
Mobility	No problems	815	96.2	1,543	95.5	1,681	93.3	1,565	7.06	1,183	85.1	762	79.2	379	61.3
	Some problems	32	3.8	73	4.5	120	6.7	161	9.3	204	14.7	197	20.5	228	36.9
	Confined to bed	0	0.0	0		1	0.1	0	0.0		0.2	ε	0.3	111	1.8
Self-care	No problems	843	99.5	1,607		1,782	6.86	1,694	98.1		97.1	903	93.9	541	87.5
	Some problems	Э	0.4	∞	0.5	18	1.0	31	1.8	32	2.3	51	5.3	57	9.2
	Unable to	1	0.1	_		2	0.1	1	0.1		9.0	∞	8.0	20	3.2
Usual activities	No problems	773	91.3	1,434		1,518	84.2	1,367	79.2		74.9	029	9.69	327	52.9
	Some problems	71	8.4	163		248	13.8	305	17.7		21.8	238	24.7	202	32.7
	Unable to	Э	0.4	19		36	2.0	54	3.1		3.3	54	5.6	68	14.4
Pain/discomfort	No	602	71.1	1,178		1,126	62.5	982	56.9		53.1	465	48.3	261	42.2
	Some	242	28.6	425		634	35.2	684	39.6		43.7	450	46.8	321	51.9
	Extreme	ε	0.4	13		42	2.3	09	3.5		3.2	47	4.9	36	5.8
Anxiety/depression	No	707	83.5	1,375		1,470	81.6	1,380	80.0		78.5	740	6.97	467	75.6
	Some	131	15.5	232		318	17.6	323	18.7		20.5	212	22.0	143	23.1
	Extreme	6	1.1	6		14	8.0	23	1.3	14	1.0	10	1.0	8	1.3

EQ-5D index value (European VAS value set)

EO-5D inc	lex value	Age							
(European		18–24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.914	0.914	0.881	0.861	0.845	0.818	0.753	0.866
	Standard error	0.003	0.003	0.003	0.003	0.004	0.005	0.007	0.001
	25th percentile	0.78	0.78	0.78	0.78	0.75	0.71	0.66	0.78
	50th percentile	1.00	1.00	1.00	1.00	0.85	0.78	0.78	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.930	0.928	0.899	0.877	0.864	0.842	0.791	0.884
	Standard error	0.005	0.004	0.004	0.004	0.005	0.007	0.010	0.002
	25th percentile	0.78	0.78	0.78	0.78	0.78	0.75	0.69	0.78
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.78	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.900	0.902	0.867	0.847	0.828	0.796	0.722	0.850
	Standard error	0.005	0.004	0.004	0.004	0.005	0.007	0.010	0.002
	25th percentile	0.78	0.78	0.78	0.75	0.71	0.69	0.60	0.75
	50th percentile	1.00	1.00	1.00	1.00	0.78	0.78	0.75	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

EQ-5D ind	ex value	Age							
(TTO value		18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.928	0.927	0.901	0.882	0.870	0.847	0.794	0.887
	Standard error	0.003	0.002	0.002	0.003	0.003	0.004	0.006	0.001
	25th percentile	0.82	0.82	0.82	0.82	0.78	0.77	0.72	0.82
	50th percentile	1.00	1.00	1.00	1.00	0.84	0.82	0.82	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.942	0.938	0.917	0.896	0.886	0.869	0.825	0.903
	Standard error	0.004	0.003	0.003	0.004	0.004	0.006	0.009	0.002
	25th percentile	0.82	0.82	0.82	0.82	0.82	0.78	0.72	0.82
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.82	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.917	0.918	0.888	0.869	0.854	0.827	0.768	0.873
	Standard error	0.004	0.003	0.004	0.004	0.005	0.006	0.009	0.002
	25th percentile	0.82	0.82	0.82	0.78	0.77	0.76	0.69	0.78
	50th percentile	1.00	1.00	1.00	1.00	0.82	0.82	0.78	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

EQ-5D index value (VAS value set)

EQ-5D ind	lex value	Age							
(VAS valu		18–24	25-34	35–44	45-54	55-64	65–74	75+	Total
Total	Mean	0.885	0.884	0.845	0.822	0.799	0.766	0.691	0.826
	Standard error	0.004	0.003	0.003	0.004	0.004	0.006	0.008	0.002
	25th percentile	0.70	0.70	0.70	0.68	0.63	0.61	0.51	0.68
	50th percentile	1.00	1.00	1.00	1.00	0.71	0.70	0.68	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.907	0.903	0.866	0.841	0.822	0.794	0.730	0.848
	Standard error	0.006	0.005	0.005	0.005	0.006	0.008	0.011	0.002
	25th percentile	0.70	0.70	0.70	0.70	0.68	0.63	0.51	0.70
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.70	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.865	0.869	0.828	0.804	0.777	0.741	0.659	0.806
	Standard error	0.006	0.005	0.005	0.005	0.006	0.008	0.010	0.002
	25th percentile	0.70	0.70	0.68	0.63	0.61	0.57	0.51	0.63
	50th percentile	1.00	1.00	1.00	1.00	0.70	0.70	0.63	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

England

Source: Health Survey for England (2008)

Number of respondents

Age	18-24	25-34	35–44	45–54	55–64	65–74	75+	Total
Total	1,259	2,143	2,709	2,524	2,544	1,937	1,647	14,763
Males	572	937	1,197	1,130	1,181	900	676	6,593
Females	687	1,206	1,512	1,394	1,363	1,037	971	8,170

EQ VAS (self-rated health)

Not included in survey

Problems reported by dimension (raw numbers, weighted proportions)

		Age													
		18–24		25–34		35–44		45–54		55–64		65–74		75+	
Total		u	%	u	%	u	%		%		%	u	%	u	%
Mobility	No problems	1,135	0.96		95.1		91.3		86.3		77.8	1,222	65.6	735	47.4
	Some problems	50	3.9	104	4.9	219	8.6	337	13.4	547	22.0	633	34.1	816	52.3
	Confined to bed	1	0.1		0.1		0.0		0.3		0.3	7	0.4	5	0.3
Self-care	No problems	1,177	99.2		98.5		0.86		92.6		92.6	1,663	90.1	1,293	85.1
	Some problems	10	8.0		1.4		2.0		4.0		6.9	175	9.4	208	13.6
	Unable to	0	0.0		0.0		0.0		0.4		0.5	6	0.5	21	1.4
Usual activities	No problems	1,129	95.7		94.5		91.0		6.98		79.2	1,351	73.1	868	58.8
	Some problems	53	4.1		5.1		8.2		11.6		17.9	436	23.8	542	35.4
	Unable to	3	0.3		0.4		0.7		1.5		3.0	57	3.1	90	5.8
Pain/discomfort	No	994	84.0		83.0		75.6		66.4		57.6	894	48.0	591	38.1
	Some	186	15.5		16.0		22.2		29.9		36.1	829	44.5	818	52.7
	Extreme	7	0.5		1.1		2.2		3.7		6.3	141	7.5	142	9.2
Anxiety/depression	No	966	84.4		83.3		82.4		6.62		80.0	1,487	80.2	1,171	76.7
	Some	178	14.6		15.0		15.8		17.8		17.7	338	18.5	330	21.8
	Extreme	13	1.0		1.7		1.8		2.2		2.2	24	1.3	23	1.5

		Age													
		18–24		25–34		35–44		45–54		55–64		65–74		75+	
Males		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	515	9.96	830	8.56	1,011	90.6	826	88.8	892	79.1	594	9.89	327	51.3
	Some problems	18	3.1	36	4.0	107	9.4	120	10.9	237	20.6	265	31.0	307	48.1
	Confined to bed	_	0.3	-	0.1	0	0.0	3	0.3	3	0.2	4	0.4	4	9.0
Self-care	No problems	531	99.4	853	7.86	1,092	6.76	1,023	9.96	1,043	92.9	781	91.0	541	86.7
	Some problems	3	9.0	12	1.3	25	2.1	32	2.9	9/	6.4	71	8.3	74	11.7
	Unable to	0	0.0	0	0.0	0	0.0	4	0.4	7	9.0	9	0.7	10	1.6
Usual activities	No problems	517	97.5	823	95.2	1,022	91.8	940	89.1	893	79.5	647	75.4	400	64.0
	Some problems	14	2.2	39	4.3	82	7.3	106	6.6	200	17.2	177	21.1	187	30.0
	Unable to	2	0.3	4	0.5	11	6.0	12	1.0	37	3.3	31	3.5	38	0.9
Pain/discomfort	No	457	85.7	726	84.3	825	73.7	722	68.2	989	2.09	457	52.7	268	42.4
	Some	74	13.8	129	14.8	271	24.4	307	29.1	377	33.4	359	41.7	326	51.6
	Extreme	ε	0.5	∞	8.0	22	1.9	31	2.8	69	5.8	49	5.6	38	0.9
Anxiety/depression	No	469	87.8	748	9.98	938	84.1	874	83.2	946	83.9	727	84.2	507	6.08
	Some	61	11.5	104	12.1	156	13.8	170	15.5	166	14.6	127	14.8	110	17.9
	Extreme	4	0.7	11	1.2	22	2.0	14	1.3	17	1.5	∞	6.0	∞	1.3
														(continued)	(panu

(continued)

		Age													
		18–24		25–34		35-44		45–54		55–64		65–74		75+	
Females		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	620	95.3	1,096	94.3	1,332	92.1	1,118	83.9	1,008	76.5	879	67.9	408	44.6
	Some problems	32	4.7	89	5.7		7.9	217	15.8	310	23.2	368	36.8	509	55.3
	Confined to bed	0	0.0		0.0		0.1	\mathcal{S}	0.3	4	0.3	ε	0.3	1	0.1
Self-care	No problems	646	0.66	1,145	98.4	1,413	0.86	1,262	94.6	1,212	92.2	882	89.3	752	83.9
	Some problems	7	1.0		1.5		2.0	70	5.0	86	7.4	104	10.4	134	14.9
	Unable to	0	0.0		0.1		0.0	4	0.4	4	0.4	ε	0.3	11	1.2
Usual activities	No problems	612	93.9		93.8		90.3	1,121	84.7	1,035	78.8	704	71.0	498	55.2
	Some problems	39	0.9		5.9		9.2	186	13.4	245	18.5	259	26.3	355	39.2
	Unable to	1	0.2		0.3		0.5	26	1.9	36	2.6	26	2.7	52	5.7
Pain/discomfort	No	537	82.2		81.7		77.3	098	64.6	720	54.6	437	43.8	323	35.1
	Some	112	17.3		17.0		20.2	410	30.7	504	38.6	470	47.0	492	53.5
	Extreme	4	0.5		1.3		2.6	64	4.6	91	8.9	92	9.2	104	11.4
Anxiety/depression	No	527	81.0	930	80.1		80.8	1,020	76.7	1,004	76.3	092	9.92	664	73.7
	Some	117	17.6		17.7		17.7	271	20.1	274	20.7	211	21.8	220	24.6
	Extreme	6	1.4		2.2		1.5	42	3.1	39	3.0	16	1.6	15	1.6

EQ-5D index value (European VAS value set)

EQ-5D ind	lex value	Age							
(European		18–24	25-34	35–44	45-54	55–64	65–74	75+	Total
Total	Mean	0.926	0.918	0.895	0.862	0.825	0.790	0.726	0.862
	Standard error	0.004	0.003	0.003	0.004	0.005	0.005	0.006	0.002
	25th percentile	0.78	0.78	0.78	0.78	0.71	0.69	0.62	0.78
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.78	0.71	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.936	0.929	0.894	0.877	0.839	0.813	0.755	0.877
	Standard error	0.006	0.005	0.005	0.006	0.007	0.008	0.009	0.002
	25th percentile	1.00	1.00	0.78	0.78	0.71	0.69	0.69	0.78
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.78	0.78	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.915	0.907	0.896	0.847	0.811	0.770	0.706	0.848
	Standard error	0.006	0.005	0.005	0.006	0.006	0.008	0.008	0.002
	25th percentile	0.78	0.78	0.78	0.78	0.71	0.69	0.60	0.78
	50th percentile	1.00	1.00	1.00	1.00	0.78	0.78	0.71	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.85	1.00

EQ-5D inde	ex value	Age							
(TTO value		18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.933	0.923	0.898	0.862	0.819	0.784	0.717	0.862
	Standard error	0.004	0.004	0.004	0.005	0.006	0.006	0.007	0.002
	25th percentile	0.85	0.85	0.80	0.80	0.73	0.69	0.66	0.80
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.80	0.74	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.942	0.934	0.897	0.879	0.833	0.810	0.753	0.878
	Standard error	0.006	0.005	0.006	0.006	0.008	0.009	0.010	0.003
	25th percentile	1.00	1.00	0.80	0.80	0.74	0.73	0.69	0.80
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.85	0.80	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.924	0.913	0.900	0.846	0.804	0.760	0.692	0.847
	Standard error	0.006	0.005	0.005	0.007	0.008	0.009	0.010	0.003
	25th percentile	0.85	0.85	0.85	0.80	0.73	0.69	0.62	0.80
	50th percentile	1.00	1.00	1.00	1.00	0.85	0.80	0.73	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.88	1.00

EQ-5D index value (VAS value set)

EQ-5D inc	lex value	Age							
(VAS valu		18–24	25-34	35–44	45-54	55–64	65–74	75+	Total
Total	Mean	0.923	0.916	0.892	0.858	0.820	0.784	0.717	0.858
	Standard error	0.004	0.003	0.003	0.004	0.005	0.005	0.006	0.002
	25th percentile	0.78	0.78	0.76	0.76	0.70	0.66	0.63	0.76
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.76	0.70	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.934	0.928	0.890	0.873	0.835	0.807	0.746	0.873
	Standard error	0.006	0.005	0.005	0.006	0.007	0.008	0.009	0.002
	25th percentile	1.00	1.00	0.76	0.76	0.70	0.69	0.66	0.76
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.77	0.76	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.912	0.905	0.893	0.844	0.806	0.763	0.697	0.844
	Standard error	0.006	0.005	0.005	0.006	0.006	0.008	0.008	0.002
	25th percentile	0.78	0.78	0.78	0.76	0.70	0.66	0.60	0.75
	50th percentile	1.00	1.00	1.00	1.00	0.78	0.76	0.69	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.81	1.00

Finland

Source: HEALTH (2000), Aromaa and Koskinen (2004)

Number of respondents

Age	18–24	25-34	35–44	45–54	55-64	65–74	75+	Total
Total	0	856	1,813	1,920	1,282	993	1,164	8,028
Males	0	415	901	963	612	422	324	3,637
Females	0	441	912	957	670	571	840	4,391

EQ VAS (self-rated health)

Not included in survey

Problems reported by dimension

		Age													
		18–24	24	25–34		35-44		45–54		55-64		65–74		75+	
Total		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	1	1	681	92.6	1,401	93.1	1,383	83.1	761	0.89	465	55.4	202	23.5
	Some problems	Ι	I	31	4.4	102	8.9	278	16.7	357	31.9	370	44.0	601	6.69
	Confined to bed	I	I	0	0.0	2	0.1	\mathcal{C}	0.2	1	0.1	5	9.0	57	9.9
Self-care	No problems	I	I	703	9.86	1,476	98.1	1,580	94.9	1,026	91.4	748	88.8	478	55.9
	Some problems	I	ı	∞	1.1	22	1.5	83	5.0	91	8.1	84	10.0	256	29.9
	Unable to	I	ı	2	0.3	9	0.4	2	0.1	5	0.4	10	1.2	121	14.2
Usual activities	No problems	1	ı	<i>LL</i> 9	92.6	1,394	93.9	1,414	85.8	862	77.4	585	70.5	294	35.3
	Some problems	I	I	28	4.0	82	5.5	220	13.3	233	20.9	213	25.7	324	38.8
	Unable to	I	I	ϵ	0.4	6	9.0	14	8.0	18	1.6	32	3.9	216	25.9
Pain/discomfort	No	I	ı	535	75.8	066	67.4	934	57.1	467	42.6	282	34.3	221	26.3
	Some	1	ı	170	24.1	469	31.9	682	41.7	611	55.7	521	63.4	580	0.69
	Extreme	I	I	-	0.1	10	0.7	19	1.2	19	1.7	19	2.3	39	4.6
Anxiety/depression	No	1	1	620	91.4	1,256	89.0	1,341	87.0	919	86.9	675	84.6	869	75.4
	Some	ı	ı	49	7.2	139	8.6	187	12.1	132	12.5	118	14.8	184	23.2
	Extreme	ı	ı	6	1.3	17	1.2	14	6.0	9	9.0	S	9.0	11	1.4
	Evacine	I	I	6	L.7	/ T	7:7	ţ	0.5	0	0.0	- 1	0	0.0	0.0 €

		Age	•												
		18–24	24	25–34		35-44		45–54		55–64		65–74		75+	
Males		u	%	u	%	u	%	u	%	u	%	n	%	u	%
Mobility	No problems	1	ı	315	95.5	661	97.6	662	81.7	352	8.79	206	57.9	20	28.5
	Some problems	I	ı	15	4.5	52	7.3	146	18.0	166	32.0	148	41.6	167	6.79
	Confined to bed	I	I	0	0.0	_	0.1	2	0.2	1	0.2	2	9.0	6	3.7
Self-care	No problems	I	I	327	98.5	669	6.76	092	93.8	478	91.9	312	6.98	143	58.4
	Some problems	I	I	4	1.2	11	1.5	49	0.9	41	7.9	4	12.3	77	31.4
	Unable to	I	I	1	0.3	4	9.0	1	0.1	1	0.2	3	8.0	25	10.2
Usual activities	No problems	I	I	312	94.5	651	92.9	681	85.4	405	78.9	261	73.9	106	44.0
	Some problems	ı	ı	17	5.2	4	6.3	108	13.6	101	19.7	79	22.4	68	36.9
	Unable to	I	I	1	0.3	9	6.0	∞	1.0	7	1.4	13	3.7	46	19.1
Pain/discomfort	No	I	I	254	77.2	486	8.69	483	61.0	233	45.8	146	41.5	29	27.7
	Some	I	I	75	22.8	205	29.5	301	38.0	267	52.5	196	55.7	165	68.2
	Extreme	I	I	0	0.0	5	0.7	∞	1.0	6	1.8	10	2.8	10	4.1
Anxiety/depression	No	I	I	292	92.4	969	0.06	650	7.78	429	89.2	301	88.3	167	73.2
	Some	I	I	19	0.9	54	8.2	84	11.3	49	10.2	39	11.4	59	25.9
	Extreme	ı	ı	S	1.6	12	1.8	7	6.0	ε	9.0	1	0.3	7	6.0

(continued)

		Age													
		18–24	24	25–34		35–44		45–54		55–64		65–74		75+	
Females		u	%	n	%	n	%	n	%	n	%	n	%	n	%
Mobility	No problems	ı	ı	366	95.8	740	93.6	721	84.4	409	68.2	259	53.5	132	21.5
	Some problems	I	I	16	4.2	50	6.3	132	15.5	191	31.8	222	45.9	434	70.7
	Confined to bed	I	I	0	0.0	_	0.1	_	0.1	0	0.0	ю	9.0	48	7.8
Self-care	No problems	I	ı	376	7.86	777	98.4	820	95.9	548	91.0	436	90.3	335	54.9
	Some problems	I	ı	4	1.0	11	1.4	34	4.0	50	8.3	40	8.3	179	29.3
	Unable to	ı	ı	1	0.3	2	0.3	П	0.1	4	0.7	7	1.4	96	15.7
Usual activities	No problems	I	I	365	9.96	743	94.8	733	86.1	457	76.2	324	6.79	188	31.7
	Some problems	I	ı	11	2.9	38	4.8	112	13.2	132	22.0	134	28.1	235	39.6
	Unable to	I	ı	2	0.5	ε	0.4	9	0.7	11	1.8	19	4.0	170	28.7
Pain/discomfort	No	ı	ı	281	74.5	504	65.2	451	53.5	234	39.8	136	28.9	154	25.8
	Some	I	I	95	25.2	264	34.2	381	45.2	344	58.5	325	69.1	415	69.4
	Extreme	I	ı	-	0.3	5	9.0	11	1.3	10	1.7	6	1.9	59	4.8
Anxiety/depression	No	ı	1	328	9.06	099	88.0	691	86.3	490	85.1	374	81.8	431	76.3
	Some	I	ı	30	8.3	85	11.3	103	12.9	83	14.4	62	17.3	125	22.1
	Extreme	Ι	Ι	4	1.1	5	0.7	7	6.0	3	0.5	4	6.0	6	1.6

EQ-5D index value (European VAS value set)

EQ-5D ind	lex value	Age							
(European		18–24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	-	0.923	0.897	0.859	0.810	0.768	0.578	0.820
	Standard error	-	0.005	0.004	0.004	0.006	0.007	0.010	0.003
	25th percentile	_	0.78	0.78	0.78	0.71	0.69	0.34	0.71
	50th anxiety	_	1.00	1.00	1.00	0.78	0.78	0.66	0.78
	75th percentile	_	1.00	1.00	1.00	1.00	1.00	0.78	1.00
Males	Mean	_	0.927	0.899	0.866	0.824	0.781	0.617	0.843
	Standard error	_	0.008	0.006	0.006	0.008	0.011	0.017	0.004
	25th percentile	_	0.78	0.78	0.78	0.71	0.69	0.48	0.71
	50th percentile	_	1.00	1.00	1.00	0.78	0.78	0.69	1.00
	75th percentile	_	1.00	1.00	1.00	1.00	1.00	0.78	1.00
Females	Mean	_	0.919	0.894	0.852	0.798	0.757	0.562	0.802
	Standard error	-	0.007	0.005	0.006	0.007	0.009	0.012	0.004
	25th percentile	_	0.78	0.78	0.78	0.69	0.69	0.28	0.69
	50th percentile	_	1.00	1.00	0.78	0.78	0.78	0.64	0.78
	75th percentile	-	1.00	1.00	1.00	1.00	0.81	0.75	1.00

EO-5D inc	lex value	Age							
(VAS valu		18–24	25-34	35–44	45-54	55–64	65–74	75+	Total
Total	Mean	_	0.907	0.876	0.832	0.778	0.735	0.578	0.798
	Standard error	_	0.006	0.005	0.005	0.006	0.007	.735 0.578 .007 0.008 .63 0.41 .73 0.63 .00 0.73 .755 0.607 .011 0.015 .63 0.44 .73 0.63 .00 0.73 .719 0.566 .009 0.009 .63 0.40 .73 0.57	0.003
	25th percentile	_	0.73	0.73	0.68	0.67	0.63		0.67
	50th percentile	_	1.00	1.00	1.00	00 0.73 0.73 0.63 0.7 00 1.00 1.00 0.73 1.0 842 0.795 0.755 0.607 0.8 007 0.009 0.011 0.015 0.0 68 0.67 0.63 0.44 0.6 00 0.73 0.73 0.63 1.0 00 1.00 1.00 0.73 1.0 823 0.764 0.719 0.566 0.7	0.73		
	75th percentile	_	1.00	1.00	1.00	1.00	1.00	0.73	1.00
Males	Mean	_	0.914	0.882	.882 0.842 0.795 0.755 0.607 0.8 .007 0.007 0.009 0.011 0.015 0.0 .73 0.68 0.67 0.63 0.44 0.6 .00 1.00 0.73 0.73 0.63 1.0	0.822			
	Standard error	_	0.009	0.007	0.007	0 0.73 0.73 0.63 0 0 1.00 1.00 0.73 1 42 0.795 0.755 0.607 0 07 0.009 0.011 0.015 0 8 0.67 0.63 0.44 0 0 0.73 0.73 0.63 1 0 1.00 1.00 0.73 1 23 0.764 0.719 0.566 0	0.004		
	25th percentile	_	0.73	0.73	0.68	0.67	0.63	0.44	0.67
	50th percentile	_	1.00	1.00	1.00	0.73	0.73	0.63	1.00
	75th percentile	_	1.00	1.00	1.00	1.00	1.00	0.73	1.00
Females	Mean	_	0.902	0.871	0.823	0.764	0.719	0.63 0.73 5 0.607 1 0.015 0.44 0.63 0.73 9 0.566 9 0.009	0.778
	Standard error	_	0.008	0.006	0.007	0.008	0.009	0.009	0.004
	25th percentile	_	0.73	0.73	0.68	0.63	0.63	.73	0.63
	50th percentile	_	1.00	1.00	6 0.832 0.778 0.735 0.578 0 6 0.005 0.006 0.007 0.008 0 0.68 0.67 0.63 0.41 0 1.00 0.73 0.73 0.63 0 1.00 1.00 1.00 0.73 1 2 0.842 0.795 0.755 0.607 0 7 0.007 0.009 0.011 0.015 0 0.68 0.67 0.63 0.44 0 1.00 1.00 1.00 0.73 1 1.00 1.00 1.00 0.73 1 1.00 1.00 1.00 0.73 1 1.00 0.007 0.008 0.009 0.009 0 0.68 0.63 0.64 0.719 0.566 0 0.08 0.63 0.63 0.40 0 0.68 0.63 0.63 0.40 0	0.73			
	75th percentile	_	1.00	1.00	1.00	1.00	0.78	0.578 0.008 0.41 0.63 0.73 0.607 0.015 0.44 0.63 0.73 0.566 0.009 0.40 0.57	1.00

France

Source: ESEMeD; König et al. (2009)

Number of respondents

Age	18–24	25–34	35–44	45–54	55–64	65–74	75+	Total
Total	233	510	655	610	395	319	170	2,892
Males	111	233	319	286	185	127	67	1,328
Females	122	277	336	324	210	192	103	1,564

		Age							
EQ-VAS (s	self-rated)	18–24	25-34	35-44	45-54	55-64	65-74	75+	Total
Total	Mean	83.9	83.2	78.7	77.9	74.2	68.1	61.5	76.8
	Standard error	1.6	0.9	0.9	1.0	1.1	1.4	2.4	0.5
	25th percentile	80	80	70	70	70	60	50	70
	50th percentile	90	90	80	80	80	70	70	80
	75th percentile	95	90	90	90	90	80	80	90
Males	Mean	83.5	82.0	79.2	78.0	73.1	70.0	63.7	77.4
	Standard error	2.7	1.4	1.1	1.3	1.6	1.9	2.9	0.6
	25th percentile	80	80	70	70	70	60	50	70
	50th percentile	90	85	80	80	80	70	70	80
	75th percentile	95	90	90	90	85	80	80	90
Females	Mean	84.4	84.4	78.2	77.7	75.3	66.7	60.3	76.3
	Standard error	1.6	1.2	1.5	1.5	1.3	1.9	3.4	0.7
	25th percentile	80	80	70	70	70	60	50	70
	50th percentile	90	90	80	80	80	70	60	80
	75th percentile	90	90	90	90	90	80	80	90

Problems reported by dimension (raw numbers, weighted proportions)

		Age													
		18–24		25–34		35–44		45–54		55–64		65–74	_	75+	
Total		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	227	98.4	492	2.96	610	93.1	556	93.1	313	80.0	213	8.79	63	53.9
	Some problems	9	1.6	18	3.3	44	6.5	53	8.9	82	20.0	104	31.6	92	45.0
	Confined to bed	0	0.0	0	0.0	1	0.3	1	0.1	0	0.0	2	9.0	-	1.1
Self-care	No problems	232	99.4	503	98.5	637	97.6	594	98.3	369	93.5	296	91.9	142	83.7
	Some problems	1	9.0	9	1.4	17	2.4	15	1.5	26	6.5	21	7.4	25	13.3
	Unable to	0	0.0	1	0.1	1	0.1	1	0.2	0	0.0	2	8.0	3	3.0
Usual activities	No problems	228	96.4	487	96.3	605	92.7	565	94.3	339	84.7	265	82.1	114	68.2
	Some problems	5	3.6	22	3.5	46	6.4	42	5.4	53	14.7	49	15.8	52	28.3
	Unable to	0	0.0	1	0.2	4	6.0	ϵ	0.3	33	0.7	5	2.0	4	3.5
Pain/discomfort	No	193	81.4	389	80.0	450	67.2	398	8.99	211	55.1	146	45.5	29	37.7
	Some	38	17.1	116	19.5	199	31.6	204	32.4	173	41.8	160	49.2	95	57.3
	Extreme	2	1.5	S	0.5	9	1.1	∞	8.0	11	3.2	13	5.3	∞	4.9
Anxiety/depression	No	206	87.5	438	85.8	549	83.4	516	86.0	322	83.0	279	9.78	147	85.0
	Some	24	10.0	69	13.5	100	15.7	88	13.4	99	15.8	36	11.5	21	14.0
	Extreme	3	2.6	ε	0.7	9	6.0	9	9.0	7	1.2	4	6.0	2	1.1
														(cont	(continued)

(continued)

		Age													
		18–24		25–34		35–44		45–54		55–64		65–74		75+	
Males		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	109	99.1	222	0.96	302	94.6	262	94.5		81.6	94	78.3	45	65.1
	Some problems	2	6.0	11	4.0	17	5.4	23	5.3	33	18.4	33	21.7	22	34.9
	Confined to bed	0	0.0	0	0.0		0.0		0.1	0	0.0	0	0.0	0	0.0
Self-care	No problems	110	6.86	230	6.86	309	0.86	278	0.86	174	94.2	119	93.0	55	77.0
	Some problems	_	1.1	ϵ	1.1		1.9			11	5.8	8	7.0	12	23.0
	Unable to	0	0.0	0	0.0		0.1	1	0.5	0	0.0	0	0.0	0	0.0
Usual activities	No problems	109	9.96	219	95.2	293	92.0	265	94.7	163	86.4	112	8.68	48	69.4
	Some problems	2	3.4	13	4.4		7.5	18	4.7	20	12.7	14	8.2	18	29.2
	Unable to	0	0.0	1	0.4		0.5	ϵ	9.0	2	1.0	_	2.1	_	1.4
Pain/discomfort	No	06	79.4	181	81.4		68.1	192	67.2	107	57.8	65	53.9	53	43.0
	Some	20	18.4	50	18.3		31.2	06	32.2	72	38.2	61	0.44	37	55.6
	Extreme	П	2.2	7	0.3		0.7			9	3.9	П	2.1	_	1.4
Anxiety/depression	No	26	86.2	207	89.1	267	83.1	251		155	83.7	116	90.3	27	84.6
	Some	12	11.0	26	10.9		15.4			28	15.6	11	6.7	10	15.4
	Extreme	2	2.8	0	0.0	3	1.5	4		2	0.7	0	0.0	0	0.0
															ĺ

		Age													
		18–24		25–34		35-44		45–54		55–64		65–74		75+	
Females		u	%	u	%	u	%	п	%	u	%	п	%	u	%
Mobility	No problems	118	7.76	270	97.4	308	91.7	294	91.8	161	78.4	119	9.09	48	47.6
	Some problems	4	2.3	7	2.6	27	7.7		8.2	49	21.6	71	38.4	54	50.6
	Confined to bed	0	0.0	0	0.0	1	9.0		0.0	0	0.0	2	1.0	1	1.8
Self-care	No problems	122	100.0	273	273 98.1	328	97.1	316	98.6	195	92.8	177	91.1	87	87.4
	ne problems	0	0.0	ε	1.6	∞	2.9	∞	1.4	15	7.2	13	9.7	13	7.9
	Unable to	0	0.0	-	0.3	0	0.0	0	0.0	0	0.0	2	1.3	3	4.7
Usual activities	problems	119	96.1	268	97.4	312	93.4	300	93.9	176	83.0	153	6.97	99	67.5
	Some problems	3	3.9	6	2.6	22	5.4	24	6.1	33	16.6	35	21.1	34	27.8
	Unable to	0	0.0	0	0.0	2	1.3	0	0.0	П	0.3	4	2.0	κ	4.7
Pain/discomfort	No	103	83.4	208	78.5	230	66.4	206	66.4	104	52.4	81	39.7	38	34.7
		18	15.8	99	20.8	102	32.1	114	32.6	101	45.2	66	52.8	28	58.3
	Extreme	1	8.0	ε	0.7	4	1.5	4	6.0	5	2.4	12	7.6	7	6.9
Anxiety/depression		109	88.8	231	82.4	282	83.7	265	85.3	167	82.3	163	85.7	06	85.2
	Some	12	8.9	43	16.1	51	16.0	57	14.2	38	15.9	25	12.7	11	13.2
	Extreme	1	2.3	3	1.4	3	0.3	2	9.0	5	1.8	4	1.6	2	1.7

EQ-5D index value (European VAS value set)

EQ-5D inc	lex value	Age							
(European		18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.924	0.921	0.883	0.893	0.836	0.804	0.756	0.872
	Standard error	0.012	0.007	0.78 0.78 0.75 0.71 0.69 0.7 1.00 1.00 0.78 0.78 0.78 1.0 1.00 1.00 1.00 1.00 1.00 1.0 0.889 0.893 0.843 0.846 0.781 0.8 0.010 0.010 0.016 0.020 0.027 0.0 0.78 0.78 0.78 0.69 0.7 1.00 1.00 0.81 0.78 0.78 1.0 1.00 1.00 1.00 1.00 1.00 1.0 0.877 0.892 0.829 0.775 0.742 0.8 0.011 0.009 0.015 0.018 0.027 0.0	0.004				
	25th percentile	0.78	0.78	0.78	0.78	0.75	0.71	0.69	0.78
	50th percentile	1.00	1.00	1.00	1.00	0.78	0.78	0.78	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.918	0.931	0.889	0.893	0.843	0.846	0.781	0.885
	Standard error	0.018	0.009	0.010	0.010	0.016	0.020	0.027	0.005
	25th percentile	0.78	0.78	0.78	0.78	0.78	0.78	0.69	0.78
	50th percentile	1.00	1.00	1.00	1.00	0.81	0.78	0.78	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.931	0.911	0.877	0.892	0.829	0.775	0.742	0.859
	Standard error	0.016	0.010	0.011	0.009	0.015	0.018	0.027	0.006
	25th percentile	0.78	0.78	0.78	0.78	0.75	0.69	0.69	0.78
	50th percentile	1.00	1.00	1.00	1.00	0.78	0.78	0.71	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

EQ-5D ind	ex value	Age							
(TTO value		18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.948	0.946	0.913	0.922	0.853	0.810	0.735	0.892
	Standard error	0.012	0.006	0.008	0.006	0.013	0.017	0.028	0.004
	25th percentile	0.91	0.91	0.89	0.89	0.80	0.73	0.58	0.89
	50th percentile	1.00	1.00	1.00	1.00	0.91	0.89	0.85	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.944	0.952	0.917	0.925	0.862	0.868	0.767	0.908
	Standard error 0.019 0.007 0.009 0.008 0.019 0.024 0 25th percentile 0.91 0.91 0.89 0.89 0.85 0.80 0	0.041	0.006						
	25th percentile	0.91	0.91	0.89	0.89	0.85	0.80	0.63	0.89
	50th percentile	1.00	1.00	1.00	1.00	0.91	0.91	0.89	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.953	0.941	0.910	0.920	0.843	0.771	0.717	0.877
	Standard error	0.014	0.009	0.012	0.009	0.018	0.024	0.037	0.007
	25th percentile	0.91	0.91	0.89	0.89	0.80	0.64	0.58	0.89
	50th percentile	1.00	1.00	1.00	1.00	0.89	0.89	0.73	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Germany

Source: ESEMeD; König et al. (2009)

Number of respondents

Age	18-24	25–34	35–44	45–54	55–64	65–74	75+	Total
Total	264	551	838	637	597	418	247	3,552
Males	127	259	389	290	292	205	98	1,660
Females	137	292	449	347	305	213	149	1,892

		Age							
EQ-VAS (self-rated)	18–24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	85.3	84.0	82.5	78.5	72.9	68.6	60.5	77.3
	Standard error	1.1	0.8	0.6	0.7	1.0	1.1	1.5	0.4
	25th percentile	80	80	80	70	60	60	50	70
	50th percentile	90	90	88	80	80	70	65	80
	75th percentile	95	95	90	90	90	80	75	90
Males	Mean	84.6	84.2	82.3	78.0	73.2	72.0	61.5	78.4
	Standard error	1.7	1.2	0.8	1.1	1.3	1.3	2.2	0.5
	25th percentile	80	80	80	70	60	60	50	70
	50th percentile	90	90	85	80	80	75	60	80
	75th percentile	95	95	90	90	90	80	80	90
Females	Mean	86.0	83.8	82.7	79.0	72.5	66.2	60.0	76.3
	Standard error	1.4	1.0	0.9	1.0	1.4	1.5	1.9	0.5
	25th percentile	80	80	80	70	60	50	50	70
	50th percentile	90	90	90	80	80	70	65	80
	75th percentile	95	95	90	90	90	80	75	90

Problems reported by dimension (raw numbers, weighted proportions)

		Age													
		18–24		25–34		35–44		45–54		55–64	İ	65–74		75+	
Total		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	257	98.1	529	92.6	794	94.6	547	85.5	468	76.1	276	66.5	115	45.8
	Some problems	7	1.9	22	4.4	41	5.0	06	14.5	129	23.9	139	32.9	130	53.5
	Confined to bed	0	0.0	0	0.0	ε	0.4	0	0.0	0	0.0	3	9.0	2	0.7
Self-care	No problems	263	8.66	549	8.66	829	99.1	625	98.3	584	9.76	394	94.4	208	84.0
	Some problems	П	0.2	2	0.2	7	0.7	6	1.1	12	2.1	21	4.9	35	14.6
	Unable to	0	0.0	0	0.0	2	0.2	3	9.0	1	0.3			4	1.4
Usual activities	No problems	254	9.96	533	97.1	908	96.2	587	92.3	518	86.0	340		164	66.2
	Some problems	10	3.4	18	2.9	29	3.5	45	6.9	78	13.8			78	31.9
	Unable to	0	0.0	0	0.0	ε	0.2	5	6.0	1	0.2			5	1.9
Pain/discomfort	No	230	84.8	453	83.0	089	81.0	461	72.6	389	65.5			117	47.8
	Some	32	13.6	95	16.5	150	18.2	170	26.6	196	32.4			119	47.8
	•	2	1.6	ε	0.4	8	8.0	9	8.0	12	2.1			11	4.5
Anxiety/depression		252	94.5	531	96.2	810	8.96	909	95.1	571	92.6	398	95.3	232	93.4
	Some	12	5.5	18	3.5	27	3.1	29	4.5	23	3.9		4.0	14	6.2
	Extreme	0	0.0	2	0.3	1	0.1	2	0.4	3	0.5	3	0.7	1	0.4

		Age													
		18–24	·	25–34	_	35–44		45–54		55–64	_	65–74		75+	
Males		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	126	5.66	251	6.56	364	93.8	240	82.5	231	75.9	143	74.5	27	57.5
	Some problems	1	0.5	∞	4.1	23	5.7	50	17.5	61	24.1	09	24.6	40	41.7
	Confined to bed	0	0.0	0	0.0	2	0.5	0	0.0	0	0.0	2	6.0	_	0.7
Self-care	No problems	127	100.0	258	8.66	386	99.4	285	98.5	285	97.0	196	96.3	87	88.9
	Some problems	0	0.0	1	0.2	ϵ	9.0	ϵ	0.7	9	2.4	7	2.8	10	10.4
	Unable to	0	0.0	0	0.0	0	0.0	2	8.0	-	9.0	2	6.0	_	0.7
Usual activities	No problems	123	96.1	254	98.4	374	0.96	259	0.06	260	88.4	169	83.3	73	73.4
	Some problems	4	3.9	5	1.6	15	4.0	26	8.2	31	11.2	33	15.5	24	25.8
	Unable to	0	0.0	0	0.0	0	0.0	5	1.8	1	0.4	33	1.2	_	0.7
Pain/discomfort	No	115	89.2	213	82.3	325	83.6	208	72.4	199	68.1	129	64.0	57	61.0
	Some	10	7.8	45	17.4	62	15.9	79	26.5	88	30.7	72	34.0	37	35.3
	Extreme	2	3.1	1	0.3	2	0.4	\mathcal{S}	1.1	5	1.2	4	2.0	4	3.8
Anxiety/depression	No	122	96.2	251	97.1	380	0.86	277	94.9	280	95.4	197	2.96	93	94.5
	Some	5	3.8	7	2.7	6	2.0	12	4.5	6	3.6	7	2.8	S	5.5
	Extreme	0	0.0	1	0.3	0	0.0	П	9.0	33	1.0	1	9.0	0	0.0
														(conti	(continued)

(continued)

		Age													
		18–24		25–34		35–44		45–54		55–64		65–74		75+	
Females		п	%	п	%	u	%	п	%	u	%	п	%	u	%
Mobility	No problems	131	9.96	278	95.4	430	95.4	307	88.4	237	76.4	133	60.5	28	40.2
	Some problems	9	3.4	14	4.6	18	4.3	40	11.6	89	23.6	79	39.1	06	59.2
	Confined to bed	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0	1	0.4	1	0.7
Self-care	No problems	136	9.66	291	8.66	443	6.86	340	98.1	299	98.2	198	93.0	121	81.6
	Some problems	П	0.4	1	0.2	4	0.7	9	1.5	9	1.8	14	9.9	25	16.6
	Unable to	0	0.0	0	0.0	2	0.4	1	0.4	0	0.0	1	0.4	ε	1.8
Usual activities	No problems	131	97.1	279	95.7	432	96.5	328	94.4	258	83.6	171	78.8	91	62.7
	Some problems	9	2.9	13	4.3	14	3.0	19	5.6	47	16.4	40	20.2	54	34.8
	Unable to	0	0.0	0	0.0	3	0.5	0	0.0	0	0.0	2	6.0	4	2.4
Pain/discomfort	No	115	80.2	240	83.8	355	78.3	253	72.8	190	62.8	112	50.2	09	41.4
	Some	22	19.8	20	15.6	88	20.6	91	26.7	108	34.2	94	46.6	82	53.7
	Extreme	0	0.0	2	9.0	9	1.2	3	9.0	7	3.0	7	3.3	7	4.8
Anxiety/depression	No	130	92.8	280	95.3	430	92.6	329	95.4	291	95.8	201	94.3	139	92.8
	Some	7	7.2	11	4.3	18	4.3	17	4.4	14	4.2	10	4.9	6	6.5
	Extreme	0	0.0	1	0.4	-	0.1	1	0.2	0	0.0	2	0.8	_	0.7

EQ-5D index value (European VAS value set)

EQ-5D inc	lex value	Age							
(European		18–24	25-34	35–44	45–54	55–64	65–74	75+	Total
Total	Mean	0.950	0.949	0.943	0.908	0.881	0.838	0.771	0.902
	Standard error	0.009	0.005	0.005	0.006	0.008	0.009	0.013	0.003
	25th percentile	1.00	1.00	1.00	0.78	0.78	0.71	0.69	0.78
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.81	0.78	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.960	0.949	0.951	0.901	0.885	0.870	0.819	0.916
	Standard error	0.015	0.007	0.006	0.010	0.011	0.012	0.018	0.004
	25th percentile	1.00	1.00	1.00	0.78	0.78	0.78	0.71	0.78
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.81	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.938	0.949	0.934	0.914	0.877	0.815	0.748	0.889
	Standard error	0.012	0.007	0.007	0.008	0.011	0.013	0.017	0.004
	25th percentile	0.81	1.00	1.00	0.78	0.78	0.71	0.69	0.78
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.78	0.75	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.85	1.00

EQ-5D ind	ex value	Age							
(TTO value		18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.972	0.973	0.966	0.945	0.922	0.891	0.839	0.938
	Standard error	0.008	0.003	0.004	0.005	0.007	0.008	0.013	0.002
	25th percentile	1.00	1.00	1.00	0.89	0.89	0.79	0.79	0.89
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.90	0.89	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.971	0.973	0.970	0.940	0.927	0.915	0.880	0.948
	Standard error	0.014	0.005	0.005	0.008	0.008	0.011	0.016	0.003
	25th percentile	1.00	1.00	1.00	0.89	0.89	0.89	0.79	0.90
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.974	0.972	0.962	0.950	0.917	0.874	0.820	0.929
	Standard error	0.005	0.005	0.005	0.006	0.010	0.012	0.017	0.004
	25th percentile	1.00	1.00	1.00	0.89	0.89	0.79	0.79	0.89
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.89	0.89	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

EQ-5D index value (VAS value set)

EO-5D inc	lex value	Age							
(VAS valu		18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.963	0.966	0.962	0.937	0.915	0.882	0.817	0.930
	Standard error	0.009	0.004	0.004	0.005	0.007	0.008	0.013	0.003
	25th percentile	1.00	1.00	1.00	0.90	0.87	0.85	0.75	0.90
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.90	0.85	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.966	0.969	0.968	0.930	0.919	0.906	0.854	0.941
	Standard error	0.015	0.005	0.005	0.009	0.009	0.011	0.018	0.003
	25th percentile	1.00	1.00	1.00	0.90	0.87	0.85	0.77	0.90
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.959	0.964	0.956	0.944	0.911	0.864	0.799	0.920
	Standard error	0.008	0.006	0.005	0.006	0.010	0.012	0.017	0.004
	25th percentile	0.90	1.00	1.00	0.90	0.85	0.79	0.75	0.90
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.90	0.85	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00

Greece

Source: Yfantopoulos et al. (1999)

Number of respondents

Age	18-24	25-34	35–44	45–54	55-64	65–74	75+	Total
Total	86	97	78	83	60	48	12	464
Males	43	55	37	44	35	29	8	251
Females	43	42	41	39	25	19	4	213

		Age							
EQ-VAS (self-rated)	18-24	25-34	35–44	45–54	55-64	65-74	75+	Total
Total	Mean	83.5	85.8	84.7	78.0	69.9	67.0	56.0	79.0
	Standard error	1.5	1.5	1.9	1.9	2.9	2.9	7.8	0.9
	25th percentile	78	80	80	69.75	59.25	58	40	70
	50th percentile	89	90	90	80	73.5	70	53	83
	75th percentile	91	96.5	95	90	90	81.5	70	90
Males	Mean	85.0	85.2	86.5	78.7	77.5	65.3	61.1	80.1
	Standard error	1.9	1.8	2.9	2.5	3.4	3.2	11.0	1.1
	25th percentile	79.5	75	80	69	61	58	40	70
	50th percentile	90	89	90	82	84	61	59	85
	75th percentile	90	96	100	90	91	80	95	92
Females	Mean	82.1	86.5	83.1	77.2	59.4	69.5	47.0	77.8
	Standard error	2.4	2.5	2.4	2.8	4.4	5.4	9.6	1.4
	25th percentile	75	83.75	80	70	45	50	28.75	70
	50th percentile	85	90	87	80	60	79	46.5	80
	75th percentile	95	97	92.5	92	78.5	90	65.75	90

Problems reported by dimension

		Age													
		18–24	1	25–34	1	35–44	1	45–54	1	55–64	1	65–74	4	75+	
Total		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	71	97.3	84	8.86	64	92.8	89	87.2	40	0.69	31	6.89	9	50.0
	Some problems	7	2.7	1	1.2	S	7.2	10	12.8	17	29.3	12	26.7	9	50.0
	Confined to bed	0	0.0	0	0.0	0	0.0	0	0.0	_	1.7	2	4.4	0	0.0
Self-care	No problems	73	100.0	85	100.0	99	95.7	75	96.2	53	91.4	37	80.4	∞	2.99
	Some problems	0	0.0	0	0.0	κ	4.3	3	3.8	S	9.8	7	15.2	4	33.3
	Unable to	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	4.3	0	0.0
Usual activities	No problems	71	100.0	84	8.86	29	97.1	73	93.6	43	74.1	31	0.99	7	58.3
	Some problems	0	0.0	1	1.2	7	2.9	S	6.4	15	25.9	15	31.9	2	41.7
	able to	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.1	0	0.0
Pain/discomfort		74	92.5	83	94.3	29	91.8	69	85.2	39	65.0	29	61.7	9	50.0
		9	7.5	S	5.7	9	8.2	11	13.6	16	26.7	16	34.0	4	33.3
	e.	0	0.0	0	0.0	0	0.0	_	1.2		8.3	2	4.3	7	16.7
Anxiety/depression	No	70	97.2	79	91.9	65	92.9	89	87.2	47	81.0	35	79.5	11	91.7
	Some	_	1.4	9	7.0	4	5.7	8	10.3		15.5	9	13.6	1	8.3
	Extreme	-	1.4	-	1.2	1	1.4	2	2.6	2	3.4	3	8.9	0	0.0

		Age													
		18–24	4	25–34	4	35-44	4	45–54	4	55–64	4	65–74	4	75+	
Males		u	%	п	%	u	%	п	%	u	%	u	%	u	%
Mobility	No problems	38	97.4	48	0.86	31	9.88	37	90.2	28	82.4	17	63.0	4	50.0
	Some problems	-	2.6	-	2.0	4	11.4	4	8.6	9	17.6	6	33.3	4	50.0
	Confined to bed	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	_	3.7	0	0.0
Self-care	No problems	39	100.0	46	100.0	34	97.1	41	100.0	34	100.0	23	85.2	9	75.0
	Some problems	0	0.0	0	0.0	-	2.9	0	0.0	0	0.0	ϵ	11.1	2	25.0
	Unable to	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	_	3.7	0	0.0
Usual activities	No problems	38	100.0	48	0.86	34	97.1	39	95.1	59	85.3	18	64.3	S	62.5
	Some problems	0	0.0	1	2.0	-	2.9	2	4.9	5	14.7	10	35.7	ϵ	37.5
	Unable to	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Pain/discomfort	No	40	95.2	46	92.0	35	94.6	36	83.7	29	82.9	18	64.3	S	62.5
	Some	2	4.8	4	8.0	2	5.4	7	16.3	5	14.3	10	35.7	ϵ	37.5
	Extreme	0	0.0	0	0.0	0	0.0	0	0.0	1	2.9	0	0.0	0	0.0
Anxiety/depression	No	38	97.4	45	0.06	33	94.3	37	90.2	28	82.4	22	84.6	7	87.5
	Some	-	2.6	4	8.0	-	1 2.9	7	4.9	5	14.7	7	7.7	_	12.5
	Extreme	0	0.0	_	2.0	_	2.9	7	4.9	_	2.9	7	7.7	0	0.0
														;,,,,,	(Louistino)

(continued)

(continued)

		Age													
		18–24	4	25–34	4	35–44	1	45–54	+	55–64	+	65–74	+	75+	
Females		u	%	u	%	u	%	u	%	п	%	п	%	u	%
Mobility	No problems	33	97.1	36	100.0	33	97.1	31	83.8	12	50.0	14	77.8	2	50.0
	Some problems	_	2.9	0	0.0	-	2.9	9	16.2	11	45.8	3	16.7	7	50.0
	Confined to bed	0	0.0	0	0.0	0	0.0	0	0.0	1	4.2	-	5.6	0	0.0
Self-care	No problems	34	100.0	36	100.0	32	94.1	34	91.9	19	79.2	14	73.7	7	50.0
	Some problems	0	0.0	0	0.0	2	5.9	ϵ	8.1	5	20.8	4	21.1	7	50.0
	Unable to	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	5.3	0	0.0
Usual activities	No problems	33	100.0	36	100.0	33	97.1	34	91.9	14	58.3	13	68.4	7	50.0
	Some problems	0	0.0	0	0.0	1	2.9	ϵ	8.1	10	41.7	5	26.3	7	50.0
	Unable to	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	5.3	0	0.0
Pain/discomfort	No	34	89.5	37	97.4	32	88.9	33	8.98	10	40.0	11	57.9	_	25.0
	Some	4	10.5	П	2.6	4	11.1	4	10.5	11	44.0	9	31.6	_	25.0
	Extreme	0	0.0	0	0.0	0	0.0	_	5.6	4	16.0	2	10.5	7	50.0
Anxiety/depression	No	32	97.0	34	94.4	32	91.4	31	83.8	19	79.2	13	72.2	4	100.0
	Some	0	0.0	2	9.6	3	9.8	9	16.2	4	16.7	4	22.2	0	0.0
	Extreme	_	3.0	0	0.0	0	0.0	0	0.0	1	4.2	1	5.6	0	0.0

EQ-5D index value (European VAS value set)

EQ-5D inde	ex value	Age							
(European V		18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.979	0.972	0.957	0.916	0.817	0.793	0.739	0.913
	Standard error	0.010	0.010	0.016	0.019	0.032	0.040	0.074	0.009
	25th percentile	1.00	1.00	1.00	0.81	0.69	0.71	0.50	1.00
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.85	0.70	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.989	0.960	0.952	0.923	0.894	0.783	0.818	0.923
	Standard error	0.008	0.017	0.025	0.024	0.032	0.045	0.073	0.011
	25th percentile	1.00	1.00	1.00	0.90	0.81	0.71	0.67	1.00
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.81	0.86	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.967	0.988	0.963	0.907	0.708	0.809	0.580	0.902
	Standard error	0.020	0.008	0.021	0.029	0.057	0.076	0.153	0.015
	25th percentile	1.00	1.00	1.00	0.81	0.57	0.73	0.32	1.00
	50th percentile	1.00	1.00	1.00	1.00	0.75	1.00	0.52	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.89	1.00

Hungary

Source: Szende and Nemeth (2003)

Number of respondents

Age	18-24	25-34	35–44	45–54	55–64	65–74	75+	Total
Total	742	907	958	1,022	821	668	385	5,503
Males	369	442	437	480	351	256	132	2,467
Females	373	465	521	542	470	412	253	3,036

		Age							
EQ-VAS (self-rated)	18–24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	83.3	81.1	75.3	69.1	63.7	59.0	53.9	71.1
	Standard error	0.5	0.5	0.6	0.6	0.7	0.8	1.1	0.3
	25th percentile	80	75	70	50	50	50	40	58
	50th percentile	85	85	80	70	65	60	50	75
	75th percentile	90	90	90	83	80	75	70	89
Males	Mean	84.1	81.9	75.8	70.2	65.7	62.5	55.2	73.3
	Standard error	0.6	0.7	0.8	0.9	1.1	1.3	1.9	0.4
	25th percentile	80	75	70	55	50	50	40	60
	50th percentile	85	85	80	73.5	70	60	50	80
	75th percentile	90	90	86.25	85	80	79.75	70	90
Females	Mean	82.5	80.3	74.9	68.0	62.2	56.8	53.2	69.3
	Standard error	0.7	0.7	0.8	0.8	0.9	1.1	1.4	0.4
	25th percentile	75	70	70	50	50	45	40	50
	50th percentile	85	84	80	70	60	50	50	70.5
	75th percentile	90	90	90	80	80	70	70	85

Problems reported by dimension

		Age													
		18–24		25–34		35–44		45–54		55–64		65–74		75+	
Total		u	%	u	%	u	%	u	%	u	%	п	%	п	%
Mobility	No problems	725	0.66	853	95.4	098	91.4	062	78.8	553	2.69	386	60.4	160	42.4
	Some problems	9	8.0	36	4.0	71	7.5	199	19.8	236	29.8	241	37.7	213	56.5
	Confined to bed	1	0.1	5	9.0	10	1.1	14	4.1	4	0.5	12	1.9	4	1.1
Self-care	No problems	729	9.66	688	99.2	922	98.3	944	94.9	713	0.06	547	85.6	271	73.2
	Some problems	κ	0.4	4	0.4	14	1.5	41	4.1	69	8.7	74	11.6	85	23.0
	Unable to	0	0.0	ε	0.3	2	0.2	10	1.0	10	1.3	18	2.8	14	3.8
Usual activities	No problems	717	98.2	871	97.1	872	93.3	826	83.3	611	7.77	452	71.2	206	55.8
	Some problems	10	1.4	22	2.5	52	5.6	145	14.6	146	18.6	145	22.8	131	35.5
	Unable to	ж	0.4	4	0.4	11	1.2	21	2.1	29	3.7	38	0.9	32	8.7
Pain/discomfort	No	625	85.5	726	81.5	649	69.5	534	53.9	355	45.2	248	38.9	114	30.4
	Some	105	14.4	159	17.8	274	29.3	424	42.8	394	50.2	335	52.5	223	59.5
	Extreme	1	0.1	9	0.7	11	1.2	33	3.3	36	4.6	55	8.6	38	10.1
Anxiety/depression	No	604	83.0	675	76.1	653	70.1	869	60.5	415	52.9	337	53.1	167	45.0
	Some	115	15.8	192	21.6	262	28.1	351	35.5	326	41.6	257	40.5	176	47.4
	Extreme	6	1.2	20	2.3	17	1.8	40	4.0	43	5.5	41	6.5	28	7.5
														(continued)	(panu

(continued)

34 35-44 % n % 96.1 393 91.4 3.7 31 7.2 0.2 6 1.4 99.1 421 98.4 0.7 6 1.4 0.2 1 0.2 97.5 401 93.9 2.3 21 4.9 0.2 5 1.2 84.7 315 73.8 15.1 108 25.3 0.2 4 0.9 83.1 328 76.5 15.8 03 21.7		Age													
No problems 360 99.2 421 96.1 393 91.4 Some problems 360 99.2 421 96.1 393 91.4 Confined to bed 0 0.0 1 0.2 6 1.4 No problems 360 99.2 435 99.1 421 98.4 Some problems 3 0.8 3 0.7 6 1.4 Unable to 0 0.0 1 0.2 1 0.2 No problems 4 1.1 10 2.3 21 4.9 Unable to 0 0.0 1 0.2 5 1.2 No Some problems 50 13.8 66 15.1 108 25.3 Extreme 0 0.0 1 0.2 4 0.9 Some Some 50 13.8 66 15.1 108 25.3 Some No 319 87.9 363 83.1 328 76.5 Some Some Some Some Some Some Some Some		18–24		25–34		35-44		45–54		55-64		65–74		75+	
No problems 360 99.2 421 96.1 393 91.4 Some problems 3 0.8 16 3.7 31 7.2 Confined to bed 0 0.0 1 0.2 6 1.4 No problems 3 0.8 3 0.7 6 1.4 No problems 359 98.9 428 97.5 401 93.9 Some problems 4 1.1 10 2.3 21 4.9 Unable to 0 0.0 1 0.2 5 1.2 No 313 86.2 370 84.7 315 73.8 Some 50 13.8 66 15.1 108 25.3 Extreme 0 0.0 1 0.2 4 0.9 Some 0 1 0.2 4 0.9 An 11.0 69 15.8 96.5 17.7 Some 40		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Some problems 3 0.8 16 3.7 31 7.2 Confined to bed 0 0.0 1 0.2 6 1.4 No problems 360 99.2 435 99.1 421 98.4 Some problems 3 0.8 3 0.7 6 1.4 No problems 4 1.1 10 2.3 401 93.9 Some problems 4 1.1 10 2.3 21 4.9 Unable to 0 0.0 1 0.2 5 1.2 No 313 86.2 370 84.7 315 73.8 Some 50 13.8 66 15.1 108 25.3 Extreme 0 0 1 0.2 4 0.9 Some 0 1 0.2 4 0.9 An 11.0 69 15.8 93 21.7	No problems	360	99.2	421	96.1	393	91.4	384	81.4	245	73.1	163	66.5	63	48.8
Confined to bed 0 0.0 1 0.2 6 1.4 No problems 360 99.2 435 99.1 421 98.4 Some problems 3 0.8 3 0.7 6 1.4 Unable to 0 0.0 1 0.2 1 0.2 Some problems 4 1.1 10 2.3 21 4.9 Unable to 0 0.0 1 0.2 3.1 4.9 No 313 86.2 370 84.7 315 73.8 Some 50 13.8 66 15.1 108 25.3 Extreme 0 0 0 1 0.2 4 0.9 Some 0 319 87.9 363 83.1 328 76.5 Some 40 11.0 69 15.8 93 21.7	Some problems	33	8.0	16	3.7	31	7.2	81	17.2	88	26.3	92	31.0	2	49.6
No problems 360 99.2 435 99.1 421 98.4 Some problems 3 0.8 3 0.7 6 1.4 Unable to 0 0.0 1 0.2 1 0.2 Some problems 4 1.1 10 2.3 21 4.9 Unable to 0 0.0 1 0.2 5 1.2 No 313 86.2 370 84.7 315 73.8 Some 50 13.8 66 15.1 108 25.3 Extreme 0 0.0 1 0.2 4 0.9 Some 319 87.9 363 83.1 328 76.5 Some 40 11.0 69 15.8 93 21.7	Confined to bed	0	0.0	П		9	1.4	7	1.5	2	9.0	9	2.4	7	1.6
Some problems 3 0.8 3 0.7 6 1.4 Unable to 0 0.0 1 0.2 1 0.2 No problems 359 98.9 428 97.5 401 93.9 Some problems 4 1.1 10 2.3 21 4.9 Unable to 0 0.0 1 0.2 5 1.2 No 313 86.2 370 84.7 315 73.8 Some 50 13.8 66 15.1 108 25.3 Extreme 0 0.0 1 0.2 4 0.9 Some 319 87.9 363 83.1 328 76.5 Some 40 11.0 69 15.8 93 21.7	No problems	360	99.2	435		421	98.4	447	95.3	300	90.1		6.98	92	73.0
Unable to 0 0.0 1 0.2 1 0.2 No problems 359 98.9 428 97.5 401 93.9 Some problems 4 1.1 10 2.3 21 4.9 Unable to 0 0.0 1 0.2 5 1.2 No 313 86.2 370 84.7 315 73.8 Some 50 13.8 66 15.1 108 25.3 Extreme 0 0.0 1 0.2 4 0.9 some 319 87.9 363 83.1 328 76.5 Some 40 11.0 69 15.8 93 21.7	Some problems	ε	8.0	ε		9	1.4	17	3.6	26	7.8	23	9.4	30	23.8
No problems 359 98.9 428 97.5 401 93.9 Some problems 4 1.1 10 2.3 21 4.9 Unable to 0 0.0 1 0.2 5 1.2 No 313 86.2 370 84.7 315 73.8 Some 50 13.8 66 15.1 108 25.3 Extreme 0 0.0 1 0.2 4 0.9 some 40 11.0 69 15.8 93 21.7 Some 40 11.0 69 15.8 93 21.7	Unable to	0	0.0	_		_	0.2		1.1	7	2.1		3.7	4	3.2
Some problems 4 1.1 10 2.3 21 4.9 Unable to 0 0.0 1 0.2 5 1.2 No 313 86.2 370 84.7 315 73.8 Some 50 13.8 66 15.1 108 25.3 Extreme 0 0.0 1 0.2 4 0.9 No 319 87.9 363 83.1 328 76.5 Some 40 110 69 15.8 93 21.7	No problems	359	6.86	428		401	93.9		84.8	262	79.2		73.0	74	59.7
Unable to 0 0.0 1 0.2 5 1.2 No 313 86.2 370 84.7 315 73.8 Some 50 13.8 66 15.1 108 25.3 Extreme 0 0.0 1 0.2 4 0.9 No 319 87.9 363 83.1 328 76.5 Some 40 110 69 15.8 03 21.7	Some problems	4	1.1	10		21	4.9		12.7	55	16.6	48	19.7	38	30.6
No 313 86.2 370 84.7 315 73.8 Some 50 13.8 66 15.1 108 25.3 Extreme 0 0.0 1 0.2 4 0.9 No 319 87.9 363 83.1 328 76.5 Some 40 110 69 15.8 03 21.7	Unable to	0	0.0	_		5	1.2		5.6	14	4.2		7.4	12	7.6
Some 50 13.8 66 15.1 108 25.3 Extreme 0 0.0 1 0.2 4 0.9 No 319 87.9 363 83.1 328 76.5 Some 40 11.0 69 15.8 93 21.7	No	313	86.2	370		315	73.8		9.09	181	54.4		49.0	4	34.1
Extreme 0 0.0 1 0.2 4 0.9 No 319 87.9 363 83.1 328 76.5 Some 40 110 69 15.8 93 21.7	Some	20	13.8	99		108	25.3		36.6	145	43.5	112	46.1	11	59.7
No 319 87.9 363 83.1 328 76.5 Some 40 110 69 158 93 217	Extreme	0	0.0	_		4	6.0		2.8	7	2.1		4.9	∞	6.2
40 110 69 158 93 217	No	319	87.9	363		328	76.5		67.4	208	63.2	156	64.7	61	48.0
7:17	Some	40	11.0	69		93	21.7		29.6	111	33.7		31.5	09	47.2
Extreme 4 1.1 5 1.1 8 1.9	Extreme	4	1.1	5	1.1	8	1.9	14	3.0	10	3.0	6	3.7	9	4.7

		Age													
		18–24		25–34		35–44		45–54		55–64		65–74		75+	
Females		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	365	6.86	432	94.7	467	91.4	406	76.5	308	67.2	223	56.6	26	39.1
	Some problems	3	8.0	20	4.4	40	7.8	118	22.2	148	32.3	165	41.9	149	60.1
	Confined to bed	П	0.3	4	6.0	4	8.0	7	1.3	7	0.4	9	1.5	2	0.8
Self-care	No problems	369	100.0	454	99.3	501	98.2	497	94.5	413	0.06	335	84.8	179	73.4
	Some problems	0	0.0	1	0.2	8	1.6	24	4.6	43	9.4	51	12.9	55	22.5
	Unable to	0	0.0	2		_	0.2	5	1.0	ϵ	0.7	6	2.3	10	4.1
Usual activities	No problems	358	97.5	443		471	92.7	431	81.9	349	76.7	274	70.1	132	53.9
	Some problems	9	1.6	12		31	6.1	98	16.3	91	20.0	26	24.8	93	38.0
	Unable to	ε	8.0	3		9	1.2	6	1.7	15	3.3	20	5.1	20	8.2
Pain/discomfort	No	312	84.8	356		334	62.9	252	47.9	174	38.5	129	32.7	70	28.5
	Some	55	14.9	93		166	32.7	254	48.3	249	55.1	223	56.5	146	59.3
	Extreme	П	0.3	5	1.1	7	1.4	20	3.8	29	6.4	43	10.9	30	12.2
Anxiety/depression	No	285	78.1	312	69.3	325	64.6	284	54.3	207	45.5	181	45.9	106	43.4
	Some	75	20.5	123	27.3	169	33.6	213	40.7	215	47.3	181	45.9	116	47.5
	Extreme	5	1.4	15	3.3	6	1.8	26	5.0	33	7.3	32	8.1	22	9.0

EQ-5D index value (European VAS value set)

EQ-5D inc	lex value	Age							
(European		18–24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.934	0.911	0.873	0.802	0.755	0.716	0.639	0.823
	Standard error	0.005	0.005	0.006	0.007	0.008	0.011	0.014	0.003
	25th percentile	1.00	0.78	0.78	0.69	0.62	0.60	0.48	0.69
	50th percentile	1.00	1.00	1.00	0.78	0.78	0.71	0.69	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.78	1.00
Males	Mean	0.946	0.933	0.886	0.828	0.798	0.762	0.666	0.857
	Standard error	0.006	0.006	0.009	0.010	0.013	0.017	0.024	0.004
	25th percentile	1.00	1.00	0.78	0.69	0.69	0.62	0.48	0.75
	50th percentile	1.00	1.00	1.00	1.00	0.78	0.78	0.69	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.81	1.00
Females	Mean	0.922	0.889	0.861	0.780	0.724	0.687	0.626	0.796
	Standard error	0.007	0.008	0.008	0.010	0.011	0.013	0.017	0.004
	25th percentile	0.78	0.78	0.71	0.69	0.62	0.55	0.48	0.69
	50th percentile	1.00	1.00	1.00	0.78	0.71	0.69	0.66	0.78
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.78	1.00

Italy

Source: ESEMeD; König et al. (2009)

Number of respondents

Age	18-24	25-34	35–44	45–54	55–64	65–74	75+	Total
Total	425	901	955	874	715	520	319	4,709
Males	201	454	472	434	352	273	133	2,319
Females	224	447	483	440	363	247	186	2,390

		Age							
EQ-VAS (self-rated)	18–24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	87.5	83.9	81.4	77.0	74.0	67.8	60.0	77.1
	Standard error	0.6	0.6	0.5	0.6	0.8	1.0	1.4	0.3
	25th percentile	80	80	80	70	60	60	50	70
	50th percentile	90	90	80	80	80	70	60	80
	75th percentile	98	95	90	90	90	80	80	90
Males	Mean	89.1	84.3	82.2	78.1	75.5	70.7	61.0	79.0
	Standard error	0.7	0.9	0.8	0.8	1.1	1.3	2.1	0.4
	25th percentile	80	80	80	70	70	60	50	70
	50th percentile	90	90	85	80	80	70	60	80
	75th percentile	99.5	95	90	90	90	85	80	90
Females	Mean	85.8	83.4	80.6	75.9	72.5	65.3	59.5	75.3
	Standard error	1.0	0.9	0.7	0.8	1.0	1.5	1.8	0.5
	25th percentile	80	80	70	70	60	50	50	70
	50th percentile	90	90	80	80	80	70	60	80
	75th percentile	95	95	90	90	90	80	80	90

Problems reported by dimension (raw numbers, weighted proportions)

		Age													
		18–24		25–34		35-44		45–54		55–64		65–74		75+	
Total		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	420	0.66	883	98.2	934	5.76	818	93.5	618	86.2	387	72.6	156	47.6
	Some problems	4	8.0	16	1.6	21	2.5	54	6.3	95	13.6	132	27.2	157	50.4
	Confined to bed	1	0.2		0.2	0	0.0	2	0.2		0.2	1	0.2	9	2.0
Self-care	No problems	422	99.3	892	99.1	952	9.66	860	98.4	684	95.7	481	91.2	253	77.2
	Some problems	ϵ	0.7	∞	8.0	3	9.0	12	1.3		3.8	36	8.2	57	19.8
	Unable to	0	0.0	1	0.1	0	0.0	2	0.2	4	0.5	ε	9.0	6	3.0
Usual activities	No problems	416	98.2	928	97.3	934	5.76	813	92.7	627	37.6	417	78.2	182	55.1
	US	8	1.6	22	2.4	20	2.4	59	7.0	81	11.5	96	20.3	117	38.1
	Unable to	1	0.2	3	0.4	_	0.1	2	0.3	7	6.0	7	1.5	20	8.9
Pain/discomfort	No	387	91.4	788	87.8	9//	81.6	679	72.3	461	55.0	289	53.7	127	37.1
	Some	37	8.5	108	11.6	176	18.2	236	26.6	242	33.3	210	41.5	175	57.1
	e	1	0.1	5	9.0	\mathcal{E}	0.2	6	1.1	12	1.8	21	4.8	17	5.8
Anxiety/depression		404	94.8	852	94.5	896 93.6	93.6	802 91.6	91.6	631	88.3	448	84.5	268	82.9
	Some	21	5.2	47	5.3	99	6.1	69	8.0	79	11.0	29	14.4	47	15.9
	Extreme	0	0.0	2	0.2	3	0.3	3	0.4	5	0.7	5	1.0	4	1.2

		Age													
		18–24		25–34		35–44		45–54		55–64		65–74		75+	
Males		u	%	и	%	п	%	п	%	u	%	п	%	u	%
Mobility	No problems	198	0.66	446	98.4	459	0.76	414	95.5		88.8	212	7.77	72	54.2
	Some problems	2	0.7	7	1.5	13	3.0	20	4.5	39	10.7	61	22.3	61	45.8
	Confined to bed	1	0.3	-	1 0.2	0.0 0.0	0.0	0	0.0 0.0		0.5	0	0 0.0 0	0	0.0
Self-care	No problems	200	7.66	450	99.3	470	9.66	431	99.4	337	95.7	261	95.0	114	84.9
	Some problems	1	0.3	ε	0.5	2	0.4	ε	9.0	12	3.5	12	5.0	18	14.3
		0	0.0	_	0.2	0	0.0	0	0.0	Э	8.0	0	0.0	-	8.0
Usual activities		197	98.4	441	97.3	464	98.1	415	95.5	317	90.5	230	83.7	68	67.0
	sms	ж	1.3	11	2.2	7	1.7	18	4.1	32	8.7	42	15.9	37	27.9
		1	0.3	2	0.5	-	0.3	-	0.3	В	8.0	П	0.4	7	5.1
Pain/discomfort		187	93.7	400	88.5	403	85.0	339	79.2	250	70.9	175	64.8	65	47.1
	Some	14	6.3	52	11.0	69	15.0	92	20.1	95	26.9	93	33.3	62	47.7
	Extreme	0	0.0	2	0.5	0	0.0	3	0.7	7	2.2	5	1.8	9	5.2
Anxiety/depression	No	195	97.5	439	8.96	450	95.3	412	94.8	320	91.1	248	90.4	121	91.8
	Some	9	2.5	15	3.2	21	4.5	21	5.1	30	8.3	24	9.1	10	6.9
	Extreme	0	0.0	0	0.0	1	0.2	1	0.1	2	9.0	П	0.5	2	1.3
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		Age													
		18–24		25–34		35-44		45–54		55-64		65–74		75+	
Females		u	%	u	%	u	%	п	%	u	%	п	%	п	%
Mobility	No problems	222	0.66	437	0.86	475	222 99.0 437 98.0 475 98.0	404	404 91.5 307 83.8	307	83.8	175	68.5	84	44.1
	blem	2	1.0	6	1.7	∞	2.0	34	8.0	99	16.2	71	31.2	96	52.9
	Confined to bed	0	0.0	-	0.3	0	0.0	2	0.4	0	0.0	-) 1 0.3	9	3.1
Self-care	sms	222	0.66	442	8.86	482	99.5	429	97.4	347	92.6	220	88.1	139	73.1
	blem	2	1.0	5	1.2	-	0.5	6	2.1	15	4.2	24	10.9	39	22.7
		0	0.0	0	0.0	0	0.0	2	0.5	_	0.2	\mathcal{C}	1.0	∞	4.2
Usual activities	sms	219	0.86	435	97.2	470	6.96	398	8.68	310	84.9	187	73.8	93	48.7
	blem	5	2.0	111	2.5	13	3.1	41	6.6	49	14.1	54	23.9	80	43.5
		0	0.0	_	0.3	0	0.0	_	0.3	4	1.0	9	2.3	13	7.8
Pain/discomfort		200	0.68	388	87.0	373	78.1	290	65.4	211	59.5	114	44.6	62	31.8
		23	10.7	99	12.3	107	21.4	144	33.0	147	39.1	1117	48.1	113	62.1
		П	0.3	ε	0.7	ε	0.5	9	1.5	5	1.4	16	7.3	11	6.1
Anxiety/depression		209	91.9	413	92.1	446	92.0	390	88.4	311	85.6	200	7.67	147	78.2
	je je	15	8.1	32	7.4	35	9.7	48	10.9	49	13.4	43	18.8	37	20.6
	Extreme	0	0.0	2	0.5	2	0.4	2	0.7	3	6.0	4	1.5	2	1.2

EQ-5D index value (European VAS value set)

EQ-5D inc	lex value	Age							
(European		18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.969	0.956	0.943	0.910	0.877	0.823	0.724	0.899
	Standard error	0.005	0.004	0.004	0.005	0.007	0.010	0.014	0.003
	25th percentile	1.00	1.00	1.00	0.78	0.78	0.71	0.60	0.78
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.81	0.75	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.978	0.962	0.953	0.935	0.897	0.873	0.777	0.926
	Standard error	0.005	0.005	0.005	0.006	0.009	0.011	0.019	0.003
	25th percentile	1.00	1.00	1.00	0.78	0.78	0.78	0.69	0.78
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.78	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.959	0.950	0.933	0.884	0.858	0.783	0.695	0.874
	Standard error	0.007	0.006	0.006	0.008	0.009	0.015	0.018	0.004
	25th percentile	1.00	1.00	0.78	0.78	0.78	0.69	0.57	0.78
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.78	0.71	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

EQ-5D index value (TTO value set)

EQ-5D inde	ex value	Age							
(TTO value		18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.985	0.978	0.973	0.955	0.937	0.904	0.839	0.947
	Standard error	0.003	0.002	0.002	0.003	0.004	0.007	0.011	0.002
	25th percentile	1.00	1.00	1.00	0.90	0.90	0.86	0.78	0.90
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.91	0.87	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.988	0.981	0.978	0.969	0.944	0.935	0.880	0.962
	Standard error	0.003	0.003	0.002	0.003	0.006	0.006	0.012	0.002
	25th percentile	1.00	1.00	1.00	0.91	0.90	0.90	0.83	0.92
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.981	0.975	0.968	0.941	0.929	0.879	0.817	0.932
	Standard error	0.004	0.004	0.003	0.005	0.005	0.011	0.015	0.003
	25th percentile	1.00	1.00	0.91	0.90	0.90	0.85	0.77	0.90
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.90	0.85	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.92	1.00

Korea

Source: Lee et al. (2009) **Number of respondents**

Age	18-24	25-34	35–44	45–54	55-64	65–74	75+	Total
Total	142	256	353	268	184	99	5	1,307
Males	69	138	174	132	81	44	3	641
Females	73	118	179	136	103	55	2	666

		Age							
EQ-VAS (self-rated)	18–24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	78.9	80.7	80.6	80.4	76.9	76.5	_	79.5
	Standard error	1.1	0.8	0.7	0.8	1.0	1.6	-	0.4
	25th percentile	70	70	70	70	70	70	_	70
	50th percentile	80	80	80	80	80	80	_	80
	75th percentile	90	90	90	90	90	90	_	90
Males	Mean	78.9	81.7	80.5	79.8	80.8	79.1	-	80.4
	Standard error	1.6	1.1	0.9	1.2	1.5	2.2	-	0.5
	25th percentile	70	73.75	70	70	70	70	_	70
	50th percentile	80	80	80	80	80	80	_	80
	75th percentile	90	90	90	90	90	90	-	90
Females	Mean	78.9	79.4	80.7	81.0	73.8	74.4	_	78.7
	Standard error	1.6	1.1	0.9	1.2	1.3	2.2	-	0.5
	25th percentile	70	70	70	75	70	70	_	70
	50th percentile	80	80	80	80	75	80	_	80
	75th percentile	90	90	90	90	80	90	_	90

Problems reported by dimension

		Age													
		18–24		25–34		35-44		45–54		55-64		65–74	4	75+	
Total		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	140	9.86	254	99.2	346	0.86	256	95.5	152	82.6	77	77.8	5	100.0
	Some problems	2	1.4	2	8.0	7	2.0	12	4.5	32	17.4	22	22.2	0	0.0
	Confined to bed	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Self-care	No problems	142	100.0	256	100.0	353	100.0	268	100.0	180	8.76	93	93.9	2	100.0
	Some problems	0	0.0	0	0.0	0	0.0	0	0.0	4	2.2	9	6.1	0	0.0
	Unable to	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Usual activities	No problems	141	99.3	255	9.66	348	9.86	263	98.1	162	88.0	80	80.8	5	100.0
	Some problems	1	0.7	_	0.4	5	1.4	5	1.9	20	10.9	19	19.2	0	0.0
	Unable to	0	0.0	0	0.0	0	0.0	0	0.0	2	1.1	0	0.0	0	0.0
Pain/discomfort	No	128	90.1	236	92.2	312	88.4	207	77.2	105	57.1	40	40.4	_	20.0
	Some	13	9.2	20	7.8	39	11.0	58	21.6	71	38.6	54	54.5	4	80.0
	Extreme	1	0.7	0	0.0	2	9.0	\mathcal{E}	1.1	8	4.3	5	5.1	0	0.0
Anxiety/depression	No	126	88.7	222	86.7	312	88.4	223	83.2	129	70.1	65	65.7	2	40.0
	Some	16	11.3	34	13.3	39	11.0	43	16.0	54	29.3	34	34.3	κ	0.09
	Extreme	0	0.0	0	0.0	2	9.0	2	0.7	1	0.5	0	0.0	0	0.0
														(conti	(continued)

(continued)

		Age													
		18–2	4	25–34		35–44		45–54		55–64	4	65–74		75+	
Males		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	89	9.86	138		170	7.76	128	0.76	74	91.4	41	93.2	3	100.0
	Some problems	_	1.4	0	0.0	4	2.3	4	3.0	7	8.6	ъ	8.9	0	0.0
	Confined to bed	0	0.0			0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Self-care	No problems	69	100.0	138		174	100.0	132	100.0	80	8.86	4	100.0	κ	100.0
	Some problems	0	0.0	0	0.0	0	0.0	0	0.0	1	1.2	0	0.0	0	0.0
	Unable to	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Usual activities	No problems	69	100.0	138	100.0	171	98.3	130	98.5	74	91.4	41	93.2	ϵ	100.0
	Some problems	0	0.0	0	0.0	ε	1.7	2	1.5	9	7.4	ϵ	8.9	0	0.0
	Unable to	0	0.0	0	0.0	0	0.0	0	0.0	_	1.2	0	0.0	0	0.0
Pain/discomfort	No	4	92.8	130	94.2	157	90.2	104	78.8	61	75.3	24	54.5	_	33.3
	Some	5	7.2	∞	5.8	17	8.6	28	21.2	20	24.7	19	43.2	2	2.99
	Extreme	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.3	0	0.0
Anxiety/depression	No	29	97.1	128	92.8	161	92.5	1111	84.1	4	79.0	33	75.0	_	33.3
	Some	2	2.9	10	7.2	12	6.9	20	15.2	17	21.0	11	25.0	7	2.99
	Extreme	0	0.0	0	0.0	1	9.0	1	8.0	0	0.0	0	0.0	0	0.0

		Age													
		18–24	4	25–34		35-44		45-54		55–64		65–74	4	75+	
Females		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	72	9.86	116	98.3	176	98.3	128	94.1	28	75.7	36	65.5	2	100.0
	Some problems	_	1.4	2		ϵ	1.7	∞	5.9	25	24.3	19	34.5	0	0.0
	Confined to bed	0	0.0	0		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Self-care	No problems	73	100.0	118	100.0	179	179 100.0	136	136 100.0	100	97.1	49	89.1	2	100.0
	Some problems	0	0.0	0		0	0.0	0	0.0	33	2.9	9	10.9	0	0.0
	Unable to	0	0.0	0	0.0	0	0.0	0	0.0	0		0	0.0	0	0.0
Usual activities	No problems	72	9.86	117	99.2	177	6.86	133	8.76	88		39	70.9	7	100.0
	Some problems	1	1.4	1	8.0	7	1.1	ε	2.2	14	13.6	16	29.1	0	0.0
	Unable to	0	0.0	0	0.0	0	0.0	0	0.0	1		0	0.0	0	0.0
Pain/discomfort	No	49	87.7	106	8.68	155	9.98	103	75.7	4	42.7	16	29.1	0	0.0
	Some	∞	11.0	12	10.2	22	12.3	30	22.1	51	49.5	35	63.6	7	100.0
	Extreme	1	1.4	0	0.0	7	1.1	ε	2.2	∞	7.8	4	7.3	0	0.0
Anxiety/depression	No	59	80.8	94		151	84.4	112	82.4	65	63.1	32	58.2	1	50.0
	Some	14	19.2	24		27	15.1	23	16.9	37	35.9	23	41.8	-	50.0
	Extreme	0	0.0	0		1	9.0	1	0.7	1	1.0	0	0.0	0	0.0

EQ-5D index value (European VAS value set)

EQ-5D ind	lex value	Age							
(European		18–24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.957	0.958	0.949	0.915	0.828	0.787	_	0.915
	Standard error	0.009	0.006	0.006	0.008	0.014	0.018	_	0.004
	25th percentile	1.00	1.00	1.00	0.78	0.71	0.69	_	0.78
	50th percentile	1.00	1.00	1.00	1.00	0.78	0.78	_	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	_	1.00
Males	Mean	0.977	0.973	0.961	0.924	0.901	0.853	_	0.942
	Standard error	0.008	0.006	0.007	0.011	0.016	0.023	_	0.004
	25th percentile	1.00	1.00	1.00	0.78	0.78	0.78	_	1.00
г	50th percentile	1.00	1.00	1.00	1.00	1.00	0.78	_	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	_	1.00
Females	Mean	0.938	0.941	0.937	0.906	0.771	0.734	_	0.888
	Standard error	0.015	0.010	0.009	0.013	0.019	0.025	_	0.006
	25th percentile	1.00	1.00	1.00	0.78	0.69	0.62	_	0.78
	50th percentile	1.00	1.00	1.00	1.00	0.78	0.71	_	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	0.81	-	1.00

EQ-5D index value (TTO value set)

EO-5D ind	lex value (TTO	Age							
value set)	ion value (115	18–24	25-34	35–44	45–54	55–64	65–74	75+	Total
Total	Mean	0.981	0.982	0.976	0.960	0.909	0.888	_	0.958
	Standard error	0.004	0.003	0.003	0.004	0.008	0.011	_	0.002
	25th percentile	1.00	1.00	1.00	0.91	0.87	0.82	_	0.91
	50th percentile	1.00	1.00	1.00	1.00	0.91	0.91	_	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	_	1.00
Males	Mean	0.990	0.989	0.981	0.966	0.949	0.931	_	0.973
	Standard error	0.004	0.003	0.004	0.005	0.009	0.012	_	0.002
	25th percentile	1.00	1.00	1.00	0.91	0.91	0.91	_	1.00
	50th percentile	1.00	1.00	1.00	1.00	1.00	0.91	_	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	_	1.00
Females	Mean	0.972	0.974	0.971	0.955	0.879	0.853	_	0.944
	Standard error	0.007	0.005	0.004	0.007	0.012	0.016	_	0.004
	25th percentile	1.00	1.00	1.00	0.91	0.82	0.77	_	0.91
	50th percentile	1.00	1.00	1.00	1.00	0.91	0.87	_	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	0.91	_	1.00

Netherlands

Source: ESEMeD; König et al. (2009)

Number of respondents

Age	18–24	25–34	35–44	45–54	55–64	65–74	75+	Total
Total	133	431	495	453	405	286	164	2,367
Males	52	197	199	206	188	133	55	1,030
Females	81	234	296	247	217	153	109	1,337

		Age							
EQ-VAS (self-rated)	18–24	25-34	35–44	45–54	55-64	65–74	75+	Total
Total	Mean	85.7	84.6	83.7	81.0	80.7	78.0	72.9	82.0
	Standard error	1.2	0.8	1.1	1.0	1.0	1.4	1.9	0.4
	25th percentile	80	75	75	75	75	70	60	75
	50th percentile	85	90	90	85	85	80	75	85
	75th percentile	95	95	95	95	95	90	90	95
Males	Mean	89.4	85.2	84.9	82.3	80.3	76.7	78.6	83.3
	Standard error	1.3	1.0	1.2	1.2	1.4	2.6	2.6	0.6
	25th percentile	85	80	80	75	70	70	70	77
	50th percentile	90	90	90	85	85	80	85	85
	75th percentile	95	95	95	95	90	90	90	95
Females	Mean	82.3	84.0	82.6	79.6	81.1	79.1	69.8	80.8
	Standard error	1.7	1.3	1.7	1.6	1.5	1.4	2.3	0.6
	25th percentile	75	75	75	70	75	70	60	75
	50th percentile	85	90	90	85	85	80	75	85
	75th percentile	95	95	95	95	95	90	80	95

Problems reported by dimension (raw numbers, weighted proportions)

		Age													
		18–24		25–34		35–44		45–54		55–64		65–74		75+	
Total		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	129	5.76	405	95.2	469	95.1	402	88.3	343	84.6	241	82.1	105	63.5
	Some problems	4	2.5	25	4.7	24	8.4	50	11.6	61	14.2	43	17.1	58	35.9
	Confined to bed	0	0.0	_	0.1	7	0.2	-	0.1	1	1.2	2	0.7	_	9.0
Self-care	No problems	130	8.96	423	6.86	490	99.2	437	95.7	390	96.3	269	94.4	145	88.3
	Some problems	κ	3.2	8	1.1	ϵ	0.4	6	2.4	11	2.0	15	5.0	17	10.8
	Unable to	0	0.0	0	0.0		0.4	7	1.9	4	1.7	2	0.7	2	0.0
Usual activities	No problems	125	95.9	386	91.6	452	91.7	381	84.4	350	86.9	233	81.1	120	74.0
	Some problems	∞	4.1	38	7.4		7.9	63	12.6	49	10.9	48	17.3	41	23.2
	Unable to	0	0.0	7	1.0		0.3	6	3.0	9	2.1	5	1.6	ε	2.8
Pain/discomfort	No	106	82.3	299	71.4		73.1	288	64.9	245	60.4	177	59.9	98	51.5
	Some	25	16.0	120	26.8		24.3	140	29.2	142	35.6	94	35.0	65	39.7
	Extreme	2	1.7	12	1.8		2.7	25	5.9	18	4.0	15	5.1	13	8.8
Anxiety/depression	No	128	95.5	409	95.4	484	98.3	432	95.7	392	96.1	281	0.66	158	96.4
	Some	2	4.5	19	3.8	10	1.5	19	3.8	10	2.2	2	0.3	4	2.6
	Extreme	0	0.0	3	0.8	1	0.2	2	0.5	3	1.7	3	0.7	2	1.0

		Age													
		18–24	4	25–34		35–44		45–54		55–64		65–74		75+	
Males		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	52	100.0	187	95.8	192	9.96	186	4.	160	84.2	114	85.1	43	83.9
	Some problems	0	0.0	10	4.2	7	3.4	20		28	15.8	17	13.3	12	16.1
	Confined to bed	0	0.0	0	0.0	0	0.0	0		0	0.0	2	1.7	0	0.0
Self-care	No problems	52	100.0	196	99.5	198	99.2	199		184	98.4	125	95.4	51	94.9
	Some problems	0	0.0	1	0.5	0	0.0	4	1.5	4	1.6		3.1	4	5.1
	Unable to	0	0.0	0	0.0	1	8.0	3		0	0.0		1.5	0	0.0
Usual activities	No problems	51	7.66	185	94.8	192	2.96	178		164	88.4		81.1	47	6.68
	Some problems	_	0.3	111	4.7	7	3.3	25		22	11.0		16.4	7	7.9
	Unable to	0	0.0	1	0.5	0	0.0	ϵ		2	0.5		2.4	_	2.2
Pain/discomfort	No	47	88.2	143	72.8	154	77.5	138		117	8.09		64.0	40	75.5
	Some	2	11.8	51	26.2	42	21.3	09		65	36.9	37	27.6	13	20.7
	Extreme	0	0.0	\mathcal{E}	1.0	ϵ	1.2	∞	4.6	9	2.3		8.4	7	3.9
Anxiety/depression	No	51	97.4	193	6.86	199	100.0	197	94.7	184	98.2		7.86	53	96.1
	Some	_	2.6	3	0.7	0	0.0	∞	4.7	4	1.8	2	0.7	_	2.2
	Extreme	0	0.0	1	0.4	0	0.0	-	9.0	0	0.0		9.0	_	1.7

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		Age													
		18–24	4	25–34		35-44		45–54		55–64		65–74		75+	
Females		u	%	п	%	u	%	u	%	u	%	п	%	u	%
Mobility	No problems	77	95.2	218	94.6	277	93.6	216	86.0	183	84.9	127	7.67	62	52.5
	Some problems	4	4.8	15	5.3	17	6.1	30	13.8	33	12.5	26	20.3	46	46.6
	Confined to bed	0	0.0	1	0.1	2	0.3	1	0.2	1	2.5	0	0.0	П	6.0
Self-care	No problems	78	93.9	227	98.2	292	99.2	238	93.8	206	94.2	44	93.5	94	84.7
	Some problems	α	6.1	7	1.8	ъ	0.7	5	3.3	7		6	6.5	13	13.8
	Unable to	0	0.0	0	0.0	1	0.1	4	2.9	4		0	0.0	2	1.5
Usual activities	No problems	74	92.3	201		260	6.98	203	81.3	186		125	81.0	73	65.5
	Some problems	7	7.7	27		33	12.5	38	15.1	27		26	18.0	34	31.5
	Unable to	0	0.0	9	1.6	33	0.7	9	3.6	4		2	6.0	2	3.1
Pain/discomfort	No	59	8.92	156	6.69	202	8.89	150	61.8	128	59.9	92	59.5	46	38.5
	Some	20	20.0	69	27.4	85	27.2	80	30.9	77		57	41.0	52	50.0
	Extreme	7	3.2	6	2.7	6	4.0	17	7.3	12	5.7	4	2.4	11	11.5
Anxiety/depression	No	77	93.7	216	91.7	285	9.96	235	2.96	208	93.9	151	99.3	105	96.5
	Some	4	6.3	16	7.1	10	3.1	11	2.9	9	2.6	0	0.0	ϵ	2.9
	Extreme	0	0.0	2	1.2	1	0.4	1	0.4	3	3.5	2	0.7	1	9.0

EQ-5D index value (European VAS value set)

EQ-5D inc	lex value	Age							
(European		18-24	25-34	35-44	45-54	55-64	65-74	75+	Total
Total	Mean	0.938	0.910	0.922	0.874	0.869	0.863	0.798	0.892
	Standard error	0.013	0.008	0.008	0.013	0.015	0.013	0.021	0.005
	25th percentile	1.00	0.78	0.78	0.78	0.78	0.78	0.71	0.78
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.78	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.968	0.928	0.940	0.887	0.886	0.864	0.894	0.914
	Standard error	0.012	0.010	0.010	0.018	0.013	0.021	0.028	0.006
	25th percentile	1.00	0.78	1.00	0.78	0.78	0.78	0.78	0.78
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.910	0.891	0.903	0.860	0.851	0.862	0.746	0.872
	Standard error	0.021	0.012	0.013	0.019	0.027	0.016	0.025	0.007
	25th percentile	0.78	0.78	0.78	0.78	0.78	0.75	0.69	0.78
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.75	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

EQ-5D index value (TTO value set)

EQ-5D ind	ex value	Age							
(TTO value		18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.950	0.927	0.935	0.890	0.890	0.886	0.830	0.910
	Standard error	0.012	0.007	0.008	0.014	0.017	0.012	0.021	0.005
	25th percentile	1.00	0.84	0.84	0.84	0.84	0.84	0.81	0.84
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.84	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.976	0.945	0.953	0.902	0.913	0.878	0.910	0.930
	Standard error	0.009	0.008	0.009	0.019	0.010	0.022	0.027	0.005
	25th percentile	1.00	0.84	1.00	0.84	0.84	0.84	0.84	0.84
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.925	0.907	0.917	0.877	0.866	0.894	0.787	0.891
	Standard error	0.021	0.011	0.014	0.020	0.033	0.013	0.026	0.008
	25th percentile	0.84	0.84	0.84	0.84	0.84	0.81	0.78	0.84
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.81	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

New Zealand

Source: Devlin et al. (2000) **Number of respondents**

Age	18–24	25-34	35–44	45-54	55–64	65–74	75+	Total
Total	91	177	272	268	220	178	121	1,327
Males	39	73	123	105	97	78	59	574
Females	52	104	149	163	123	100	62	753

		Age							
EQ-VAS (self-rated)	18-24	25-34	35–44	45–54	55-64	65–74	75+	Total
Total	Mean	82.4	82.3	82.5	82.2	81.6	79.6	70.8	80.8
	Standard error	1.3	1.0	0.8	1.0	1.1	1.2	1.8	0.4
	25th percentile	73	75	76.5	77	72	70	55	74
	50th percentile	82	85	85	87.5	85	80	75	85
	75th percentile	94	90.5	90	95	95	90	87.5	90
Males	Mean	81.1	82.5	81.2	82.5	80.6	78.6	73.5	80.4
	Standard error	1.9	1.8	1.2	1.5	1.7	2.0	2.6	0.7
	25th percentile	70	75	75	75	70	70	60	73
	50th percentile	80	85	85	85	80	80	79	85
	75th percentile	94	95	90	94.5	95	90	90	90
Females	Mean	83.3	82.3	83.7	82.0	82.3	80.3	68.1	81.2
	Standard error	1.8	1.2	1.1	1.3	1.5	1.5	2.4	0.6
	25th percentile	75.75	75.25	79	78	75	70	50	75
	50th percentile	85	84.5	87	89	90	81.5	70	85
	75th percentile	94.5	90	94.5	95	95	90	83.75	90

Problems reported by dimension

		Age													
		18–24	4	25–34		35-44		45–54		55–64		65–74		75+	
Total		u	%	u	%	n	%	n	%	u	%	n	%	n	%
Mobility	No problems	84	9.96	163	93.1	238	88.8	233	87.3	159	75.4	117	66.5	48	40.7
	Some problems	\mathcal{C}	3.4	12	6.9	29	10.8	34	12.7	51	24.2	59	33.5	89	57.6
	Confined to bed	0	0.0	0	0.0	1	0.4	0	0.0	1	0.5	0	0.0	7	1.7
Self-care	No problems	87	100.0	174	6.86	263	98.5	257	9.96	198	94.3	160	93.0	26	84.3
	Some problems	0	0.0	2	1.1	ε	1.1	6	3.4	12	5.7	12	7.0	14	12.2
	Unable to	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	4	3.5
Usual activities	No problems	82	94.3	158	8.68	233	6.98	221	82.8	162	76.4	117	6.99	20	42.4
	Some problems	S	5.7	18	10.2	33	12.3	45	16.9	49	23.1	57	32.6	62	52.5
	Unable to	0	0.0	0	0.0	2	0.7	1	0.4	1	0.5	1	9.0	9	5.1
Pain/discomfort	No	69	79.3	130	75.6	193	72.3	161	61.0	104	49.3	71	40.6	39	32.8
	Some	16	18.4	41	23.8	71	26.6	66	37.5	100	47.4	102	58.3	72	60.5
	Extreme	2	2.3	1	9.0	ε	1.1	4	1.5	7	3.3	2	1.1	∞	6.7
Anxiety/depression	No	73	83.9	141	9.08	222	83.5	205	77.9	160	9.9/	137	78.7	9/	67.3
	Some	14	16.1	34	19.4	42	15.8	55	20.9	46	22.0	36	20.7	36	31.9
	Extreme	0	0.0	0	0.0	2	0.8	3	1.1	3	1.4	1	9.0	-	6.0

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		Age													
		18–24		25–34	+	35–44		45–54	4	55–64	+	65–74	_	75+	
Males		u	%	n	%	n	%	n	%	n	%	n	%	n	%
Mobility	No problems	34	91.9	89	95.8	106	6.98	96	92.3	72	78.3	46	59.7	26	44.8
	Some problems	8	8.1	\mathcal{E}	4.2	15	12.3	∞	7.7	20	21.7	31	40.3	31	53.4
	Confined to bed	0	0.0	0	0.0	1	8.0	0	0.0	0	0.0	0	0.0	1	1.7
Self-care	No problems	37	100.0	72	100.0	119	98.3	66	95.2	98	92.5	29	88.2	51	89.5
	Some problems	0	0.0	0	0.0	1	8.0	5	4.8	7	7.5	6	11.8	4	7.0
	Unable to	0	0.0	0	0.0	1	8.0	0	0.0	0	0.0	0	0.0	2	3.5
Usual activities	No problems	35	94.6	99	91.7	106	6.98	92	88.5	72	77.4	45	58.4	28	49.1
	Some problems	2	5.4	9	8.3	14	11.5	12	11.5		21.5	31	40.3	26	45.6
	Unable to	0	0.0	0	0.0	7	1.6	0	0.0	1	1.1	1	1.3	8	5.3
Pain/discomfort	No	30	81.1	58	9.08	98	70.5	29	65.0	47	50.5	28	36.8	20	34.5
	Some	9	16.2	14	19.4	34	27.9	34	33.0	42	45.2	46	60.5	35	60.3
	Extreme	1	2.7	0	0.0	2	1.6	2	1.9	4	4.3	2	2.6	3	5.2
Anxiety/depression	No	31	83.8	63	87.5	106	9.78	82	9.62	74	9.62	59	9.77	40	74.1
	Some	9	16.2	6	12.5	14	11.6	20	19.4	18	19.4	16	21.1	14	25.9
	Extreme	0	0.0	0	0.0	1	0.8	-	1.0	1	1.1	1	1.3	0	0.0

		Age													
		18–24	4	25–34		35-44		45-54		55–64		65–74	4	75+	
Females		п	%	u	%	n	%	п	%	u	%	п	%	п	%
Mobility	No problems	50	100.0	95	91.3	132	90.4	137	84.0	87	73.1	71	71.7	22	36.7
	Some problems	0	0.0	6	8.7	14	9.6	26	16.0	31	26.1	28	28.3	37	61.7
	Confined to bed	0	0.0	0	0.0	0	0.0	0	0.0	1	8.0	0	0.0	1	1.7
Self-care	No problems	20	100.0	102	98.1	44	9.86	158	97.5	112	95.7	93	6.96	46	79.3
	Some problems	0	0.0	2	1.9	2	1.4	4	2.5	5	4.3	3	3.1	10	17.2
	Unable to	0	0.0	0		0	0.0	0	0.0	0	0.0	0	0.0	2	3.4
Usual activities	No problems	47	94.0	92		127	87.0	129	79.1	90	75.6	72	73.5	22	36.1
	Some problems	8	0.9	12		19	13.0	33	20.2	29	24.4	26	26.5	36	59.0
	Unable to	0	0.0	0		0	0.0	1	9.0	0	0.0	0	0.0	3	4.9
Pain/discomfort	No	39	78.0	72	72.0	107	73.8	94	58.4	57	48.3	43	43.4	19	31.1
	Some	10	20.0	27	27.0	37	25.5	65	40.4	28	49.2	99	9.99	37	60.7
	Extreme	1	2.0	1	1.0	1	0.7	2	1.2	33	2.5	0	0.0	S	8.2
Anxiety/depression	No	42	84.0	78	75.7	116	80.0	123	6.97	98	74.1	78	9.62	36	61.0
	Some	∞	16.0	25	24.3	28	19.3	35	21.9	28	24.1	20	20.4	22	37.3
	Extreme	0	0.0	0	0.0	1	0.7	2	1.3	2	1.7	0	0.0	-	1.7

EQ-5D index value (European VAS value set)

EO-5D inc	lex value	Age							
(European		18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.913	0.906	0.893	0.858	0.817	0.800	0.712	0.848
	Standard error	0.014	0.011	0.010	0.010	0.013	0.014	0.022	0.005
	25th percentile	0.78	0.78	0.78	0.78	0.69	0.69	0.60	0.73
	50th percentile	1.00	1.00	1.00	1.00	0.78	0.78	0.70	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.85	1.00
Males	Mean	0.912	0.932	0.891	0.872	0.817	0.770	0.750	0.852
	Standard error	0.023	0.014	0.015	0.017	0.021	0.024	0.030	0.008
	25th percentile	0.78	0.78	0.78	0.78	0.71	0.69	0.69	0.75
	50th percentile	1.00	1.00	1.00	1.00	0.78	0.78	0.72	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.914	0.887	0.897	0.849	0.816	0.825	0.676	0.846
	Standard error	0.018	0.015	0.012	0.013	0.017	0.016	0.032	0.007
	25th percentile	0.78	0.78	0.78	0.75	0.69	0.69	0.60	0.71
	50th percentile	1.00	1.00	1.00	0.78	0.78	0.78	0.69	0.85
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.78	1.00

EQ-5D index value (VAS value set)

EQ-5D ind	ex value	Age							
(VAS value		18-24	25-34	35–44	45-54	55-64	65–74	75+	Total
Total	Mean	0.890	0.883	0.869	0.827	0.782	0.763	0.672	0.818
	Standard error	0.018	0.013	0.011	0.012	0.015	0.015	0.023	0.006
	25th percentile	0.72	0.71	0.70	0.70	0.63	0.63	0.55	0.65
	50th percentile	1.00	1.00	1.00	1.00	0.72	0.72	0.63	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.78	1.00
Males	Mean	0.889	0.915	0.867	0.845	0.784	0.734	0.710	0.823
	Standard error	0.028	0.017	0.017	0.019	0.023	0.025	0.031	0.009
	25th percentile	0.71	0.72	0.72	0.70	0.64	0.63	0.62	0.70
	50th percentile	1.00	1.00	1.00	1.00	0.72	0.72	0.64	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.892	0.860	0.873	0.816	0.780	0.787	0.636	0.815
	Standard error	0.023	0.018	0.015	0.015	0.019	0.018	0.032	0.008
	25th percentile	0.72	0.70	0.70	0.70	0.63	0.63	0.54	0.64
	50th percentile	1.00	1.00	1.00	0.72	0.72	0.72	0.63	0.78
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.71	1.00

Slovenia

Source: Prevolnik et al. (2001)

Number of respondents

Age	18-24	25-34	35–44	45–54	55–64	65–74	75+	Total
Total	116	143	148	118	98	77	42	742
Males	47	62	58	57	51	35	14	324
Females	69	81	90	61	47	42	28	418

		Age							
EQ-VAS (self-rated)	18-24	25-34	35–44	45–54	55-64	65-74	75+	Total
Total	Mean	85.4	82.6	80.8	75.5	67.9	65.3	55.4	76.4
	Standard error	1.3	1.2	1.4	2.0	1.8	2.1	3.0	0.7
	25th percentile	80	74.5	75	70	56.5	51	40	69.25
	50th percentile	90	85	85	80	70	69	51.5	80
	75th percentile	95	95	92	90	80	80	72	90
Males	Mean	84.4	81.6	79.4	74.9	67.1	66.7	56.0	75.6
	Standard error	2.0	1.8	2.0	2.9	2.4	2.8	6.1	1.0
	25th percentile	75	78	75	62.5	59.5	60	37	70
	50th percentile	90	81.5	80	80	70	70	53	80
	75th percentile	95	90	90	90	80	80	74.5	90
Females	Mean	86.1	83.3	81.7	76.0	68.8	64.2	55.1	77.0
	Standard error	1.7	1.7	1.9	2.6	2.7	3.2	3.4	1.0
	25th percentile	80	70	79	70	51	50	40	69
	50th percentile	90	89	89	80	70	64.5	50	80
	75th percentile	95	95	94.5	90	82.5	80	66	90

Problems reported by dimension

		Age													
		18–24		25–34		35-44		45–54		55–64	4	65–74	4	75+	
Total		п	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	112	9.96	129	8.06	119	80.4	74	62.7	49	50.0	56	34.7	6	22.0
	Some problems	4	3.4	13	9.2	28	18.9	44	37.3	48	49.0	48	64.0	32	78.0
	Confined to bed	0	0.0	0	0.0	1	0.7	0	0.0	_	1.0	1	1.3	0	0.0
Self-care	No problems	114	98.3	138	97.2	134	90.5	102	86.4	73	74.5	53	69.7	21	52.5
	Some problems	2	1.7	4	2.8	13	8.8	16	13.6	24	24.5	21	27.6	19	47.5
	Unable to	0	0.0	0	0.0	1	0.7	0	0.0	1	1.0	7	2.6	0	0.0
Usual activities	No problems	100	86.2	115	81.0	113	76.4	75	63.6	54	55.1	27	35.5	12	29.3
	Some problems	16	13.8	25	17.6	34	23.0	42	35.6	39	39.8	47	61.8	28	68.3
	Unable to	0	0.0	2	1.4	1	0.7	_	8.0	5	5.1	2	2.6	_	2.4
Pain/discomfort	No	85	73.3	66	69.7	92	62.2	99	47.5	32	32.7	19	25.3	7	17.1
	Some	30	25.9	40	28.2	54	36.5	99	47.5	63	64.3	99	74.7	32	78.0
	Extreme	1	6.0	33	2.1	7	1.4	9	5.1	33	3.1	0	0.0	7	4.9
Anxiety/depression	No	85	73.3	94	66.2	102	6.89	75	63.6	53	54.1	40	53.3	20	48.8
	Some	29	25.0	48	33.8	4	29.7	40	33.9	45	42.9	34	45.3	21	51.2
	Extreme	2	1.7	0	0.0	7	1.4	3	2.5	33	3.1	_	1.3	0	0.0

		Age													
		18–24	4	25–34	4	35–44	†	45–54	4	55–64	†	65–74	4	75+	
Males		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	44	93.6	25	88.7	43	74.1	36	63.2	22	43.1	14	41.2	4	30.8
	Some problems	ε	6.4	7	11.3	14	24.1	21	36.8	29	56.9	20	58.8	6	69.2
	Confined to bed	0	0.0	0	0.0	1	1.7	0	0.0	0	0.0	0	0.0	0	0.0
Self-care	No problems	46	6.76	09	8.96	53	91.4	49	0.98	36	70.6	56	76.5	7	53.8
	Some problems	-	2.1	2	3.2	4	6.9	∞	14.0	15	29.4	7	20.6	9	46.2
	Unable to	0	0.0	0	0.0	П	1.7	0	0.0	0	0.0	-	2.9	0	0.0
Usual activities	No problems	38	80.9	48	77.4	42	72.4	38	2.99	27	52.9	17	50.0	5	38.5
	Some problems	6	19.1	13	21.0	16	27.6	19	33.3	21	41.2	17	50.0	∞	61.5
	Unable to	0	0.0	_	1.6	0	0.0	0	0.0	ж	5.9	0	0.0	0	0.0
Pain/discomfort	No	31	0.99	42	67.7	38	65.5	31	54.4	17	33.3	10	29.4	3	23.1
	Some	15	31.9	18	29.0	19	32.8	22	38.6	33	64.7	24	9.07	10	76.9
	Extreme	1	2.1	2	3.2	П	1.7	4	7.0	1	2.0	0	0.0	0	0.0
Anxiety/depression	No	34	72.3	38	61.3	46	79.3	37	64.9	56	56.9	20	58.8	7	53.8
	Some	11	23.4	24	38.7	12	20.7	18	31.6	22	43.1	14	41.2	9	46.2
	Extreme	7	4.3	0	0.0	0	0.0	2	3.5	0	0.0	0	0.0	0	0.0
														(cont	(continued)

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		Age													
		18–24	+	25–34	1	35–44		45–54	4	55–64	4	65–74	+	75+	
Females		u	%	п	%	п	%	п	%	u	%	п	%	п	%
Mobility	No problems	89	9.86	74	92.5	92	84.4	38	62.3	27	57.4	12	29.3	5	17.9
	Some problems	П	1.4	9	7.5	14	15.6	23	37.7	19	40.4	28	68.3	23	82.1
	Confined to bed	0	0.0	0	0.0	0	0.0	0	0.0	-	2.1	-	2.4	0	0.0
Self-care	No problems	89	9.86	78	97.5	81	0.06	53	6.98	37	78.7	27	64.3	4	51.9
	Some problems	_	1.4	2	2.5	6	10.0	∞	13.1	6	19.1	41	33.3	13	48.1
	Unable to	0	0.0	0	0.0	0	0.0	0	0.0	-	2.1	1	2.4	0	0.0
Usual activities	No problems	62	6.68	29	83.8	71	78.9	37	2.09	27	57.4	10	23.8	7	25.0
	Some problems	7	10.1	12	15.0	18	20.0	23	37.7	18	38.3	30	71.4	20	71.4
	Unable to	0	0.0	1	1.3	1	1.1	-	1.6	7	4.3	2	4.8	1	3.6
Pain/discomfort	No	54	78.3	57	71.3	54	0.09	25	41.0	15	31.9	6	22.0	4	14.3
	Some	15	21.7	22	27.5	35	38.9	34	55.7	30	63.8	32	78.0	22	78.6
	Extreme	0	0.0	-	1.3	1	1.1	7	3.3	2	4.3	0	0.0	2	7.1
Anxiety/depression	No	51	73.9	99	70.0	99	62.2	38	62.3	24	51.1	20	48.8	13	46.4
	Some	18	26.1	24	30.0	32	35.6	22	36.1	20	42.6	20	48.8	15	53.6
	Extreme	0	0.0	0	0.0	2	2.2	1	1.6	3	6.4	1	2.4	0	0.0

EQ-5D index value (European VAS value set)

EQ-5D inc	lex value	Age							
(European		18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.879	0.859	0.831	0.772	0.697	0.663	0.621	0.788
	Standard error	0.014	0.015	0.015	0.021	0.022	0.022	0.027	0.008
	25th percentile	0.78	0.75	0.69	0.65	0.57	0.57	0.57	0.66
	50th percentile	1.00	1.00	0.78	0.78	0.69	0.67	0.60	0.78
	75th percentile	1.00	1.00	1.00	1.00	0.81	0.78	0.71	1.00
Males	Mean	0.849	0.840	0.845	0.785	0.699	0.701	0.663	0.788
	Standard error	0.026	0.024	0.025	0.031	0.031	0.027	0.047	0.012
	25th percentile	0.75	0.74	0.69	0.61	0.57	0.60	0.57	0.66
	50th percentile	0.85	0.78	1.00	0.78	0.69	0.69	0.60	0.78
	75th percentile	1.00	1.00	1.00	1.00	0.81	0.78	0.74	1.00
Females	Mean	0.899	0.874	0.822	0.760	0.695	0.630	0.600	0.788
	Standard error	0.015	0.019	0.020	0.027	0.032	0.034	0.033	0.010
	25th percentile	0.78	0.76	0.69	0.66	0.60	0.48	0.48	0.68
	50th percentile	1.00	1.00	0.78	0.78	0.69	0.60	0.60	0.78
	75th percentile	1.00	1.00	1.00	1.00	0.78	0.71	0.71	1.00

EQ-5D index value (VAS value set)

EQ-5D inde	ex value	Age							
(VAS value	set)	18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.869	0.841	0.794	0.712	0.619	0.554	0.498	0.738
	Standard error	0.015	0.017	0.019	0.025	0.026	0.027	0.032	0.009
	25th percentile	0.76	0.71	0.67	0.49	0.41	0.41	0.41	0.52
	50th percentile	1.00	1.00	0.78	0.76	0.61	0.50	0.41	0.76
	75th percentile	1.00	1.00	1.00	1.00	0.77	0.68	0.64	1.00
Males	Mean	0.839	0.817	0.797	0.729	0.613	0.601	0.545	0.735
	Standard error	0.027	0.026	0.032	0.037	0.037	0.037	0.067	0.014
	25th percentile	0.71	0.67	0.60	0.44	0.41	0.41	0.41	0.50
	50th percentile	0.82	0.78	1.00	0.76	0.56	0.53	0.41	0.76
	75th percentile	1.00	1.00	1.00	1.00	0.78	0.76	0.72	1.00
Females	Mean	0.890	0.859	0.791	0.696	0.626	0.513	0.475	0.740
	Standard error	0.017	0.022	0.024	0.033	0.038	0.039	0.036	0.013
	25th percentile	0.78	0.73	0.67	0.50	0.41	0.32	0.32	0.56
	50th percentile	1.00	1.00	0.78	0.71	0.61	0.41	0.41	0.76
	75th percentile	1.00	1.00	1.00	1.00	0.76	0.65	0.56	1.00

Spain

Source: ESEMeD; König et al. (2009)

Number of respondents

Age	18-24	25-34	35–44	45–54	55–64	65–74	75+	Total
Total	568	999	1,050	719	686	867	584	5,473
Males	281	452	442	314	303	382	247	2,421
Females	287	547	608	405	383	485	337	3,052

		Age							
EQ-VAS (self-rated)	18-24	25-34	35-44	45-54	55-64	65-74	75+	Total
Total	Mean	82.0	80.0	76.7	73.6	72.0	69.0	62.2	75.0
	Standard error	1.1	0.9	0.9	1.2	1.2	1.2	1.4	0.4
	25th percentile	80	75	70	60	60	55	50	70
	50th percentile	90	90	80	80	80	75	65	80
	75th percentile	95	95	90	90	90	90	80	90
Males	Mean	83.2	82.4	76.9	73.4	73.4	73.1	66.7	77.0
	Standard error	1.3	1.2	1.4	1.8	1.8	1.6	2.1	0.6
	25th percentile	80	80	70	60	65	60	55	70
	50th percentile	90	90	80	80	80	80	70	80
	75th percentile	95	95	90	90	90	90	80	90
Females	Mean	80.8	77.7	76.5	73.8	70.5	65.8	59.4	73.2
	Standard error	1.6	1.3	1.1	1.5	1.6	1.6	1.8	0.6
	25th percentile	80	70	70	60	60	50	50	60
	50th percentile	90	90	80	80	80	70	60	80
	75th percentile	99	93	90	90	90	85	80	90

Problems reported by dimension (raw numbers, weighted proportions)

IB-24 25-34 35-44 45-54 55-64 65-74 problems 561 99.0 975 97.6 995 94.7 659 91.7 571 83.2 67 problems 561 99.0 97.5 97.6 99.5 94.7 659 91.7 571 83.2 67 problems 561 99.8 990 99.2 1,034 98.1 70 646 94.9 80 problems 567 99.8 990 99.2 1,034 98.1 70 98.0 646 94.9 80 problems 567 99.8 990 99.2 1,034 98.1 70 646 94.9 80 problems 567 99.8 990 99.2 1,034 98.1 703 98.0 646 94.9 80 problems 567 97.7 1,034 98.1 703 98.0 646 94.9 57 11<			Age													
No problems 561 99.0 975 97.6 995 94.7 659 91.7 571 83.2 637 Some problems 561 99.0 975 97.6 995 94.7 659 91.7 571 83.2 637 Confined to bed 0 0.0 1 0.0 6 1.0 5 0.9 3 0.4 3 0.4 Some problems 557 99.8 990 99.2 1,034 98.1 703 98.0 646 94.9 808 Some problems 1 0.2 7 0.6 11 1.3 10 1.3 99. 64.9 94.9 808 Some problems 554 97.7 968 97.6 993 94.1 653 89.9 578 85.2 711 Chable to 0 0.0 3 0.2 13 1.8 15 2.7 11 1.5 12 1.0 1.5 0.0 1.0 1.3 10.1 144 13.4 145 20.4 199 25.6 266 Extreme 0 0.0 6.0 6.0 5.1 144 13.4 145 20.4 199 25.6 266 Extreme 0 0.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6			18–24		25–34		35-44		45–54		55–64		65–74		75+	
No problems 561 99.0 97.5 97.6 99.5 94.7 659 91.7 571 83.2 637 Some problems 7 1.0 23 2.3 49 4.3 55 7.4 112 16.4 227 Confined to bed 0 0.0 1 0.0 6 1.0 5 0.9 3 0.4 3 No problems 567 99.8 990 99.2 1,034 98.1 703 98.0 646 94.9 808 Vinies No problems 554 97.7 968 97.6 993 94.1 653 89.9 578 85.2 711 Vinies No problems 14 2.3 28 2.3 44 4.1 51 73 97 13.3 144 Unable to 0.0 0.0 3 0.2 13 1.8 15 27 11 1.5 1.4 1.1 1.5 27<	Total		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Some problems 7 1.0 23 2.3 49 4.3 55 7.4 112 164 227 Confined to bed 0 0.0 1 0.0 6 1.0 5 0.9 3 0.4 3 No problems 567 99.8 990 99.2 1,034 98.1 703 98.0 646 94.9 808 Some problems 1 0.2 7 0.6 11 1.3 10 1.3 39 4.9 57 wities No problems 554 97.7 968 97.6 993 94.1 653 89.9 578 85.2 711 Unable to 0 0.0 3 0.2 13 1.8 15 27 11 1.5 1.4 4.1 51 71 467 71.4 573 witters No 51 80 89.4 89.4 89.4 85.7 77.2 467 <td< td=""><td>Mobility</td><td>No problems</td><td>561</td><td>0.66</td><td>975</td><td>9.76</td><td>995</td><td>94.7</td><td>629</td><td>91.7</td><td>571</td><td>83.2</td><td>637</td><td>75.4</td><td>321</td><td>53.7</td></td<>	Mobility	No problems	561	0.66	975	9.76	995	94.7	629	91.7	571	83.2	637	75.4	321	53.7
Confined to bed 0 1 0.0 6 1.0 5 0.9 3 0.4 3 No problems 567 99.8 990 99.2 1,034 98.1 703 98.0 646 94.9 808 Some problems 1 0.2 7 0.6 1.1 1.3 10 1.3 39 4.9 808 Wities No problems 554 97.7 968 97.6 993 94.1 653 89.9 578 85.2 711 Some problems 14 2.3 28 2.3 44 4.1 51 73 97 13.3 144 Unable to 0 0.0 3 0.2 13 1.8 15 27 11 1.5 11 1.5 1.4 4.1 51 47 47 57 86 86 86 89.4 89.4 89.4 89.4 89.5 85.4 77.2 467 7		Some problems	7	1.0	23	2.3	49	4.3	55	7.4	112	16.4		24.3	255	45.5
No problems 567 99.8 990 99.2 1,034 98.1 703 98.0 646 94.9 808 Some problems 1 0.2 7 0.6 11 1.3 10 1.3 39 4.9 809 97 Vities Unable to 0 0.0 2 0.1 5 0.7 6 0.7 1 0.2 2 Some problems 14 2.3 28 2.3 44 4.1 51 7.3 97 11 0.2 7 1 0.2 7 1 0.2 7 1 0.2 7 1 0.2 7 1 0.2 1 0.2 0.7 1 0.2 7 1 0.2 7 1 0.2 7 1 1.5 1 1 1 0.2 0.1 1 0.2 0.1 1 0.2 0.1 0.2 0.1 0.2 0.2 0.2 <td< td=""><td></td><td></td><td>0</td><td>0.0</td><td>_</td><td>0.0</td><td>9</td><td>1.0</td><td>5</td><td>6.0</td><td>3</td><td>0.4</td><td>\mathcal{E}</td><td>0.3</td><td>8</td><td>0.8</td></td<>			0	0.0	_	0.0	9	1.0	5	6.0	3	0.4	\mathcal{E}	0.3	8	0.8
Some problems 1 0.2 7 0.6 11 1.3 10 1.3 39 4.9 57 Unable to 0 0.0 2 0.1 5 0.7 6 0.7 1 0.2 2 No problems 554 97.7 968 97.6 993 94.1 653 89.9 578 85.2 711 Some problems 14 2.3 28 2.3 44 4.1 51 7.3 97 13.1 144 Unable to 0 0.0 3 0.2 13 1.8 15 2.7 11 1.5 12 Some 52 9.9 113 10.1 144 13.4 145 20.4 199 25.6 26 Extreme 0 0.0 6 0.5 12 1.4 20 2.4 20 3.0 28 No 543 95.8 95.3 96.1 987 <td>Self-care</td> <td></td> <td>267</td> <td>8.66</td> <td>066</td> <td>99.2</td> <td>1,034</td> <td>98.1</td> <td>703</td> <td>0.86</td> <td>646</td> <td>94.9</td> <td>808</td> <td>94.5</td> <td>487</td> <td>81.6</td>	Self-care		267	8.66	066	99.2	1,034	98.1	703	0.86	646	94.9	808	94.5	487	81.6
Unable to 0 0.0 2 0.1 5 0.7 6 0.7 1 0.2 2 No problems 554 97.7 968 97.6 993 94.1 653 89.9 578 85.2 711 Some problems 14 2.3 28 2.3 44 4.1 51 7.3 97 13.3 144 Unable to 0 0.0 3 0.2 13 1.8 15 2.7 11 1.5 12 No 51 90.1 880 89.4 89.4 85.2 55.4 77.2 467 71.4 573 Some 52 9.9 113 10.1 144 13.4 145 20.4 199 25.6 266 Extreme 0 0.0 6 0.5 12 14 20 2.4 20 3.0 28 No 543 95.8 95.3 96.1 987<		Some problems	1	0.2	7	9.0	11	1.3	10	1.3	39	4.9	57	5.4	82	15.6
No problems 554 97.7 968 97.6 993 94.1 653 89.9 578 85.2 711 Some problems 14 2.3 28 2.3 44 4.1 51 7.3 97 13.3 144 Unable to 0 0.0 3 0.2 13 1.8 15 2.7 11 1.5 12 No 516 90.1 880 89.4 89.4 85.2 55.4 77.2 467 71.4 573 Some 52 9.9 113 10.1 144 13.4 145 20.4 199 25.6 266 Extreme 0 0.0 6 0.5 12 1.4 20 2.4 20 3.0 28 No 543 95.8 95.3 96.1 987 93.1 658 91.6 616 90.8 776 Some 2 4.0 4.0 3.5			0		2	0.1	5	0.7	9	0.7	1	0.2	2	0.1	15	2.8
Some problems 14 2.3 28 2.3 44 4.1 51 7.3 97 13.3 144 Unable to 0 0.0 3 0.2 13 1.8 15 2.7 11 1.5 12 No 516 90.1 880 89.4 89.4 85.2 554 77.2 467 71.4 573 Some 52 9.9 113 10.1 144 13.4 145 20.4 199 25.6 266 Extreme 0 0.0 6 0.5 12 1.4 20 2.4 19 25.6 266 No 543 95.8 953 96.1 987 93.1 658 91.6 616 90.8 776 Some 2 4.0 40 3.5 57 6.3 49 6.7 59 82 78 Extreme 2 0.2 6 0.4 6	Usual activities		554		896	9.76	993	94.1	653	6.68	578	85.2	711	83.8	377	62.8
Unable to 0 0.0 3 0.2 13 1.8 15 2.7 11 1.5 12 No 516 90.1 880 89.4 89.4 85.2 554 77.2 467 71.4 573 Some 52 9.9 113 10.1 144 13.4 145 20.4 199 25.6 266 Extreme 0 0.0 6 0.5 12 1.4 20 2.4 20 3.0 28 No 543 95.8 95.3 96.1 987 93.1 658 91.6 616 90.8 776 Some 23 4.0 40 3.5 57 6.3 49 6.7 59 82 78 Extreme 2 0.2 6 0.4 6 0.7 12 1.6 11 10 13		ne problems	14		28	2.3	4	4.1	51	7.3	26	13.3	4	15.0	164	30.0
No 516 90.1 880 89.4 89.4 85.2 55.4 77.2 467 71.4 573 Some 52 9.9 113 10.1 144 13.4 145 20.4 199 25.6 266 Extreme 0 0.0 6 0.5 12 1,4 20 2.4 20 28 26 No 543 95.8 953 96.1 987 93.1 658 91.6 616 90.8 776 Some 23 4.0 40 3.5 57 6.3 49 6.7 59 82 78 Extreme 2 0.2 6 0.4 6 0.7 12 1.6 11 10 13		ible to	0		ε	0.2	13	1.8	15	2.7	11	1.5	12	1.2	43	7.2
Some 52 9.9 113 10.1 144 13.4 145 20.4 199 25.6 266 Extreme 0 0.0 6 0.5 12 1,4 20 2.4 20 3.0 28 No 543 95.8 953 96.1 987 93.1 658 91.6 616 90.8 776 Some 23 4.0 40 3.5 57 6.3 49 6.7 59 8.2 78 Extreme 2 0.2 6 0.4 6 0.7 12 1.6 11 1.0 13	Pain/discomfort		516		880	89.4	894	85.2	554	77.2	467	71.4	573	0.69	335	56.1
Extreme 0 0.0 6 0.5 12 1.4 20 2.4 20 3.0 28 No 543 95.8 953 96.1 987 93.1 658 91.6 616 90.8 776 Some 23 4.0 40 3.5 57 6.3 49 6.7 59 8.2 78 Extreme 2 0.2 6 0.4 6 0.7 12 1.6 11 1.0 13			52		113	10.1	144	13.4	145	20.4	199	25.6	266	28.2	216	39.2
No 543 95.8 953 96.1 987 93.1 658 91.6 616 90.8 776 Some 23 4.0 40 3.5 57 6.3 49 6.7 59 8.2 78 Extreme 2 0.2 6 0.4 6 0.7 12 1.6 11 1.0 13			0		9	0.5	12	1.4	20	2.4	20	3.0	28	2.8	33	4.6
23 40 40 3.5 57 6.3 49 6.7 59 8.2 78 1e 2 0.2 6 0.4 6 0.7 12 1.6 11 1.0 13	Anxiety/depression		543		953	96.1	284	93.1	859	91.6	616	8.06	9//	91.2	512	87.4
reme 2 0.2 6 0.4 6 0.7 12 1.6 11 1.0 13			23		40	3.5	57	6.3	49	6.7	59	8.2	78	7.7	63	11.4
		Extreme	2		9	0.4	9	0.7	12	1.6	111	1.0	13	1.2	6	1.1

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		Age													
		18–24		25–34		35–44		45–54		55–64		65–74		75+	Í
Males		п	%	п	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	278	0.66	441	5.76	425	7.56	293	93.6	256	84.8	306	82.7	163	65.0
	Some problems	3	1.0	11	2.5	16	3.6	19	5.6	44	14.4	75	17.2	80	33.9
	Confined to bed	0	0.0	0	0.0	-	0.7	2	8.0		8.0	1	0.1	4	1.0
Self-care	No problems	280	2.66	449	99.5	439	98.5	306	97.4	292	9.96	367	9.76	225	90.2
	Some problems	-	0.3	\mathcal{E}	0.5	2	8.0	5	1.4		3.0	14	2.2	18	8.6
	Unable to	0	0.0	0	0.0	_		ε	1.2	1	0.4	1	0.1	4	1.2
Usual activities	No problems	274	97.4	441	98.4	426		283	87.9	268	88.6	336	90.2	192	81.5
	Some problems	7	2.6	11	1.6	13		20	7.5	27	9.3	43	9.5	42	13.3
	Unable to	0	0.0	0	0.0	ε		11	4.6	8	2.1	3	0.3	13	5.2
Pain/discomfort	No	260	92.8	401	90.2	386	86.1	259	81.6	223	75.4	290	80.0	180	73.8
	Some	21	7.2	50	9.6	55		48	16.6	74	21.6		18.8	61	24.2
	Extreme	0	0.0	_	0.3	_	0.7	7	1.8		2.9		1.1	9	2.0
Anxiety/depression	No	267	94.3	439	8.76	426	94.9	298	95.7	280	92.9	363	95.8	229	91.8
	Some	13	5.4	12	2.0	13	4.1	14	3.7		6.3		3.7	16	7.7
	Extreme	1	0.3	1	0.2	3	6.0	7	9.0	4	6.0	4	9.0	2	9.0
															Ī

		Age													
		18–24		25–34		35–44		45–54		55–64		65–74		75+	
Females		u	%	u	%	u	%	п	%	п	%	п	%	п	%
Mobility	No problems	283	99.1	534	8.76	270	93.7	366	90.1	315	81.5	331	6.69	158	46.4
	Some problems	4	6.0	12	2.1	33	5.1	36	0.6	89	18.5	152	29.7	175	52.9
	Confined to bed	0	0.0	_	0.1	2	1.2		6.0	0	0.0	2	0.4	4	0.7
Self-care	No problems	287	100.0	541	0.66	595	7.76	397	98.5	354	93.2	44	92.1	262	76.0
	Some problems	0	0.0	4	8.0	6	1.7		1.2	29	8.9	43	7.8	4	20.2
	Unable to	0	0.0	2	0.2	4	9.0		0.3	0	0.0	1	0.1	11	3.8
Usual activities	No problems	280	0.86	527	8.96	267	92.9		91.7	310	81.7	375	79.0	185	50.7
	Some problems	7	2.0	17	2.9	31	5.0		7.2	70	17.5	101	19.2	122	40.7
	Unable to	0	0.0	ε	0.3	10	2.0		1.1	ε	8.0	6	1.9	30	8.6
Pain/discomfort	No	256	87.4	479	88.7	508	84.3		73.4	244	67.1	283	60.7	155	4.7
	Some	31	12.6	63	10.6	68	13.7		23.7	125	29.7	180	35.2	155	48.9
	Extreme	0	0.0	S	0.7	11	2.0		2.9	14	3.2	22	4.2	27	6.3
Anxiety/depression	No	276	97.4	514	94.4	561	91.3	360	88.1	336	88.7	413	87.7	283	84.7
	Some	10	2.5	28	5.0	4	8.3		9.4	40	10.3	63	10.6	47	13.8
	Extreme	1	0.2	5	9.0	3	0.4	10	2.5	7	1.1	6	1.6	7	1.5

EO-5D	index	value	(European	VAS	value set)
LVCD	1114021	, arac	(Dai opean	1 1 10	i dide set)

EQ-5D inc	lex value	Age							
(European		18–24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.968	0.963	0.939	0.911	0.884	0.870	0.773	0.915
	Standard error	0.004	0.004	0.007	0.008	0.009	0.007	0.012	0.003
	25th percentile	1.00	1.00	1.00	0.78	0.78	0.78	0.69	0.81
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.78	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.971	0.968	0.945	0.924	0.894	0.918	0.846	0.934
	Standard error	0.006	0.005	0.010	0.012	0.013	0.008	0.016	0.004
	25th percentile	1.00	1.00	1.00	1.00	0.78	0.81	0.78	1.00
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.965	0.957	0.932	0.900	0.874	0.834	0.725	0.897
	Standard error	0.006	0.005	0.009	0.012	0.011	0.011	0.015	0.004
	25th percentile	1.00	1.00	1.00	0.78	0.78	0.71	0.57	0.78
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.75	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

EO-5D inde	ex value	Age							
(TTO value	e set)	18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.982	0.975	0.949	0.923	0.901	0.891	0.781	0.929
	Standard error	0.003	0.003	0.009	0.010	0.009	0.007	0.014	0.003
	25th percentile	1.00	1.00	1.00	0.91	0.89	0.87	0.71	0.91
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.87	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.983	0.980	0.958	0.928	0.909	0.936	0.862	0.947
	Standard error	0.004	0.003	0.013	0.014	0.014	0.007	0.017	0.004
	25th percentile	1.00	1.00	1.00	1.00	0.89	0.89	0.84	1.00
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.981	0.970	0.942	0.919	0.894	0.857	0.729	0.912
	Standard error	0.004	0.005	0.011	0.013	0.011	0.011	0.019	0.004
	25th percentile	1.00	1.00	1.00	0.89	0.83	0.78	0.58	0.89
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.80	1.00
-	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

EQ-5D index value (VAS value set)

EQ-5D inc	lex value	Age							
(VAS valu		18–24	25-34	35–44	45–54	55-64	65–74	75+	Total
Total	Mean	0.969	0.963	0.940	0.912	0.883	0.866	0.761	0.914
	Standard error	0.004	0.003	0.007	0.008	0.009	0.007	0.012	0.003
	25th percentile	1.00	1.00	1.00	0.80	0.79	0.76	0.65	0.80
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.76	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.972	0.968	0.945	0.923	0.893	0.913	0.836	0.933
	Standard error	0.006	0.005	0.010	0.012	0.013	0.009	0.016	0.004
	25th percentile	1.00	1.00	1.00	1.00	0.79	0.79	0.75	1.00
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.966	0.959	0.934	0.903	0.873	0.830	0.712	0.897
	Standard error	0.006	0.005	0.009	0.011	0.012	0.011	0.016	0.004
	25th percentile	1.00	1.00	1.00	0.79	0.74	0.70	0.54	0.79
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.71	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Sweden

Source: Björk et al. (1999) **Number of respondents**

Age	18-24	25-34	35–44	45–54	55-64	65–74	75+	Total
Total	66	100	93	106	70	80	19	534
Males	29	55	40	55	36	43	6	264
Females	37	45	53	51	34	37	13	270

		Age							
EQ-VAS (self-rated)	18-24	25-34	35–44	45-54	55–64	65–74	75+	Total
Total	Mean	84.3	86.2	86.2	83.7	79.0	81.5	71.8	83.3
	Standard error	2.1	1.4	1.5	1.7	2.4	1.8	5.4	0.7
	25th percentile	80	80	80	75	70	72.5	55	75
	50th percentile	90	90	90	90	85	85	70	90
	75th percentile	95	98	95	96	90.75	94.5	99	95
Males	Mean	85.7	85.7	87.7	83.2	79.9	83.9	84.2	84.4
	Standard error	2.8	1.6	1.9	2.2	3.1	2.3	6.4	0.9
	25th percentile	80	80	80	72.5	73.75	77	70	79.25
	50th percentile	90	90	90	90	80	90	83	90
	75th percentile	99	95	95.25	95	91.25	95	99.25	95
Females	Mean	83.2	86.7	85.0	84.1	78.1	78.4	66.2	82.2
	Standard error	3.0	2.3	2.1	2.6	3.9	2.9	7.0	1.1
	25th percentile	77.5	77.5	80	80	66.25	62.5	50	75
	50th percentile	90	94	90	90	87.5	80	61	90
	75th percentile	95	99.5	95	100	92.25	90	89.5	95

Problems reported by dimension

		Age													
		18–24	4	25–34	4	35–44	1	45–54		55–64	4	65–74	4	75+	
Total		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	49	98.5	95	6.76	88	95.7	92	88.5	62	92.5	29	85.9	6	47.4
	Some problems	_	1.5	7	2.1	4	4.3	12	11.5	S	7.5	11	14.1	10	52.6
	Confined to bed	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Self-care	No problems	65	100.0	96	0.66	92	100.0	102	98.1	99	98.5	77	7.86	16	84.2
	Some problems	0	0.0	_	1.0	0		2		-	1.5	1	1.3	κ	15.8
	Unable to	0	0.0	0	0.0	0		0		0	0.0	0	0.0	0	0.0
Usual activities	No problems	63		92	94.8	88		92		59	88.1	73	94.8	13	68.4
	Some problems	_		ϵ	3.1	4		8		S	7.5	4	5.2	4	21.1
	Unable to	-		7	2.1	0		4		ϵ	4.5	0	0.0	2	10.5
Pain/discomfort	No	50	76.9	89	70.1	57		59		33	49.3	36	45.6	9	33.3
	Some	15	23.1	53	29.9	34		40		31	46.3	43	54.4	10	55.6
	Extreme	0	0.0	0	0.0	_		5		ε	4.5	0	0.0	2	11.1
Anxiety/depression	No	4	67.7	11	79.4	69		74		46	68.7	61	79.2	13	72.2
	Some	19	29.2	18	18.6	22		27		20	29.9	15	19.5	4	22.2
	Extreme	2	3.1	7	2.1	-	1.1	2	1.9	_	1.5	1	1.3	-	5.6
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		Age													
		18–24	4	25–34	4	35–44	4	45–54	4	55–64	4	65–74	1	75+	
Males		u	%	u	%	u	%	u	%	u	%	п	%	u	%
Mobility	No problems	27	96.4	55	100.0	38	97.4	47	87.0	32	91.4	39	7.06	3	50.0
	Some problems	1	3.6	0	0.0	_	2.6	7	13.0	ε	8.6	4	9.3	ϵ	50.0
	Confined to bed	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Self-care	No problems	78	100.0	55	100.0	39	100.0	53	98.1	34	97.1	42	100.0	9	100.0
	Some problems	0	0.0	0	0.0	0	0.0	-	1.9	-	2.9	0	0.0	0	0.0
	Unable to	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Usual activities	No problems	27	96.4	52	94.5	38	38 97.4	47	47 87.0	30	30 85.7	39	95.1	5	83.3
	Some problems	1	3.6	2	3.6	_	2.6	4	7.4	ε	8.6	2	4.9	_	16.7
	Unable to		0.0	_	1.8	0	0.0	8	5.6	7	5.7	0	0.0	0	0.0
Pain/discomfort	No	21	75.0	39	70.9	22	56.4	31	57.4	19	54.3	23	53.5	-	20.0
	Some		25.0	16	29.1	17	43.6	21	38.9	4	40.0	20	46.5	4	80.0
	Extreme		0.0	0	0.0	0	0.0	7	3.7	7	5.7	0	0.0	0	0.0
Anxiety/depression	No		78.6	45	81.8	30	6.97	40	75.5	25	71.4	36	87.8	5	100.0
	Some		17.9	6	16.4	6	23.1	12	22.6	6	25.7	5	12.2	0	0.0
	Extreme	_	3.6	_	1.8	0	0.0	-	1.9	-	2.9	0	0.0	0	0.0

		Age													
		18–24	4	25–34	4	35-44	4	45–54	4	55–64	1	65–74	4	75+	
Females		u	%	п	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	37	100.0	40	95.2	90	94.3	45	0.06	30	93.8	28	80.0	9	46.2
	Some problems	0	0.0	7	4.8	α	5.7	S	10.0	2	6.3	7	20.0	7	53.8
	Confined to bed	0	_	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Self-care	No problems	37		41	9.76	53	100.0	49	0.86	32	100.0	35	97.2	10	6.97
	Some problems	0		-	2.4	0	0.0	_	2.0	0	0.0	_	2.8	33	23.1
	Unable to	0		0	0.0	0		0		0	0.0	0	0.0	0	0.0
Usual activities	No problems	36		40		50		45		29	9.06	34	94.4	∞	61.5
	Some problems	0		1		ϵ		4		2	6.3	7	5.6	κ	23.1
	Unable to	_		_		0		_		Т	3.1	0	0.0	7	15.4
Pain/discomfort	No	29		56		35		28		14	43.8	13	36.1	5	38.5
	Some	∞		13		17		19		17	53.1	23	63.9	9	46.2
	Extreme	0		0	0.0	1		ϵ		-	3.1	0	0.0	2	15.4
Anxiety/depression	No	22	59.5	32	32 76.2	39	73.6	34	0.89	21	9.59	25	69.4	∞	61.5
	Some	14		6	21.4	13		15		11	34.4	10	27.8	4	30.8
	Extreme	1		1	2.4	1	1.9	1	2.0	0	0.0	1	2.8	1	7.7

EQ-5D index value (European VAS value set)

EQ-5D ind	lex value	Age							
(European		18–24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.888	0.893	0.868	0.835	0.813	0.836	0.701	0.851
	Standard error	0.020	0.016	0.015	0.020	0.023	0.016	0.068	0.008
	25th percentile	0.78	0.78	0.78	0.69	0.69	0.78	0.60	0.78
	50th percentile	1.00	1.00	0.89	1.00	0.78	0.78	0.75	0.81
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.899	0.901	0.864	0.841	0.814	0.872	0.778	0.864
	Standard error	0.030	0.020	0.020	0.029	0.034	0.019	0.057	0.010
	25th percentile	0.78	0.78	0.78	0.73	0.69	0.78	0.70	0.78
	50th percentile	1.00	1.00	0.78	1.00	0.78	0.78	0.71	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.89	1.00
Females	Mean	0.879	0.883	0.871	0.828	0.812	0.794	0.671	0.838
	Standard error	0.026	0.025	0.022	0.028	0.031	0.025	0.091	0.011
	25th percentile	0.78	0.78	0.78	0.69	0.69	0.69	0.39	0.71
	50th percentile	1.00	1.00	1.00	0.79	0.78	0.78	0.78	0.78
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Thailand

Source: Tongsiri et al. (2011) **Number of respondents**

Age	18–24	25–34	35–44	45–54	55–64	65–74	75+	Total
Total	76	228	420	379	196	88	22	1,409
Males	32	108	168	187	91	45	13	644
Females	44	120	252	192	105	43	9	765

		Age							
EQ-VAS (self-rated)	18-24	25-34	35–44	45–54	55-64	65–74	75+	Total
Total	Mean	82.9	80.9	80.1	78.3	79.3	76.1	72.3	79.4
	Standard error	1.3	1.0	0.7	0.8	1.2	2.1	4.7	0.4
	25th percentile	76.25	70	70	70	70	60	50	70
	50th percentile	82.5	80	80	80	80	80	75	80
	75th percentile	90	90	90	90	90	90	92.5	90
Males	Mean	84.7	79.7	80.9	77.8	77.1	75.1	64.6	78.7
	Standard error	1.9	1.3	1.1	1.1	1.9	2.7	5.7	0.6
	25th percentile	72.5	70	70	70	70	60	50	70
	50th percentile	90	80	80	80	80	70	60	80
	75th percentile	90	90	90	90	90	90	85	90
Females	Mean	81.6	82.0	79.6	78.9	81.1	77.2	83.3	80.0
	Standard error	1.8	1.4	1.0	1.2	1.6	3.2	6.5	0.6
	25th percentile	76.25	70	70	70	70	60	65	70
	50th percentile	80	82.5	80	80	80	80	90	80
	75th percentile	90	90	90	90	97	90	100	90

Problems reported by dimension

		Age													
		18–24	4	25–34		35-44		45–54		55–64		65–74	4	75+	
Total		u	%	n	%	n	%	n	%	n	%	n	%	n	%
Mobility	No problems	89	89.5	194	85.1	341	81.2	257	8.79	126	64.3	43	48.9	6	40.9
	Some problems	∞	10.5	32	14.0	77	18.3	122	32.2	89	34.7	45	51.1	12	54.5
	Confined to bed	0	0.0	2	6.0	2	0.5	0	0.0	2	1.0	0	0.0	-	4.5
Self-care	No problems	72	94.7	221	6.96	397	94.5	330	87.1	173	88.3	75	85.2	19	86.4
	Some problems	3	3.9	7	3.1	21	5.0	40	10.6	20	10.2	11	12.5	7	9.1
	Unable to	-	1.3	0	0.0	2	0.5	6	2.4	ε	1.5	2	2.3	_	4.5
Usual activities	No problems	28	76.3	190	83.3	342	81.4	283	74.7	148	75.5	57	64.8	11	50.0
	Some problems	18	23.7	35	15.4	69	16.4	82	21.6	43	21.9	25	28.4	6	40.9
	Unable to	0	0.0	33	1.3	6	2.1	14	3.7	S	2.6	9	8.9	7	9.1
Pain/discomfort	No	41	53.9	86	43.0	164	39.0	113	29.8	51	26.0	20	22.7	9	27.3
	Some	35	46.1	126	55.3	249	59.3	260	9.89	133	6.79	29	76.1	15	68.2
	Extreme	0	0.0	4	1.8	7	1.7	9	1.6	12	6.1	1	1.1	_	4.5
Anxiety/depression	No	47	61.8	128	56.1	238	26.7	183	48.3	06	45.9	43	48.9	12	54.5
	Some	28	36.8	26	42.5	177	42.1	188	49.6	95	48.5	40	45.5	∞	36.4
	Extreme	1	1.3	3	1.3	5	1.2	8	2.1	11	5.6	5	5.7	2	9.1

		Age													
		18–24	4	25–34		35-44		45–54		55–64	4	65–74	4	75+	
Males		u	%	u	%	u	%	u	%	u	%	u	%	п	%
Mobility	No problems	56	9.06	91	84.3	142	84.5	127	6.79	20	6.97	22	48.9	9	46.2
	Some problems	ε	9.4	16	14.8	26	15.5	09	32.1	20	22.0	23	51.1	9	46.2
	Confined to bed	0	0.0	1	6.0	0	0.0	0	0.0	_	1.1	0	0.0	_	7.7
Self-care	No problems	31	6.96	103	95.4	157	93.5	162	9.98	81	89.0	40	88.9	11	84.6
	Some problems	1	3.1	5	4.6	10	0.9	19	10.2	7	7.7	4	8.9	_	7.7
	Unable to	0	0.0	0	0.0	_		9	3.2	κ		1	2.2	_	7.7
Usual activities	No problems	56	81.3	68	82.4	139	82.7	132	9.02	73		29	64.4	9	46.2
	Some problems	9	18.8	17	15.7	27	16.1	50	26.7	16		14	31.1	5	38.5
	Unable to	0	0.0	7	1.9	2	1.2	5	2.7	2		2	4.4	7	15.4
Pain/discomfort	No	20	62.5	55	50.9	92	45.2	26	29.9	30		7	15.6	ϵ	23.1
	Some	12	37.5	50	46.3	06	53.6	127	6.79	59		38	84.4	6	69.2
	Extreme	0	0.0	ε	2.8	2	1.2	4	2.1	2		0	0.0	_	7.7
Anxiety/depression	No	25	78.1	59	54.6	116		92	49.2	51		20	4.4	9	46.2
	Some	7	21.9	48	4.4	20	29.8		49.7	37	40.7	24	53.3	5	38.5
	Extreme	0	0.0	-	6.0	2		2	1.1	ε	3.3	-	2.2	7	15.4
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		Age													
		18–24	1	25–34		35–44		45–54		55–64		65–74	†	75+	
Females		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility No	problems	39	9.88	103	85.8	199	79.0	130	67.7	99	53.3	21	48.8	3	33.3
Son	me problems	5	11.4	16	13.3	51	20.2	62	32.3	48	45.7	22	51.2	9	2.99
Cor	onfined to bed	0	0.0	1	8.0	2	8.0	0	0.0	_	1.0	0	0.0	0	0.0
Self-care No	problems	41	93.2	118	98.3	240	95.2	168	87.5	92	87.6	35	81.4	∞	88.9
Son	me problems	2	4.5	2	1.7	11	4.4	21	10.9	13	12.4	7	16.3	_	11.1
Une	able to	_	2.3	0	0.0	_		ж	1.6	0	0.0	1	2.3	0	0.0
Usual activities No	problems	32	72.7	101	84.2	203		151	78.6	75	71.4	28	65.1	5	55.6
Son	me problems	12	27.3	18	15.0	42		32	16.7	27	25.7	11	25.6	4	4.4
Una	able to	0	0.0	1	8.0	7		6	4.7	Э	2.9	4	9.3	0	0.0
Pain/discomfort No		21	47.7	43	35.8	88		57	29.7	21	20.0	13	30.2	κ	33.3
Son	me	23	52.3	92	63.3	159		133	69.3	74	70.5	29	67.4	9	2.99
Ext	Extreme	0	0.0	1	8.0	5		7	1.0	10	9.5	1	2.3	0	0.0
Anxiety/depression No		22	50.0	69	57.5	122		91	47.4	39	37.1	23	53.5	9	2.99
Some	me	21	47.7	46	40.8	127		95	49.5	28	55.2	16	37.2	\mathcal{C}	33.3
Ext	Extreme	1	2.3	2	1.7	3		9	3.1	8	7.6	4	9.3	0	0.0

EQ-5D index value (European VAS value set)

EQ-5D inc	lex value	Age							
(European		18–24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.814	0.785	0.771	0.717	0.694	0.670	0.657	0.742
	Standard error	0.019	0.011	0.008	0.009	0.014	0.021	0.046	0.005
	25th percentile	0.69	0.69	0.69	0.62	0.60	0.60	0.60	0.66
	50th percentile	0.78	0.78	0.78	0.69	0.69	0.69	0.69	0.71
	75th percentile	1.00	1.00	1.00	0.78	0.78	0.78	0.78	0.81
Males	Mean	0.855	0.786	0.803	0.717	0.733	0.669	0.609	0.754
	Standard error	0.023	0.017	0.013	0.013	0.020	0.022	0.069	0.007
	25th percentile	0.76	0.69	0.69	0.62	0.69	0.61	0.49	0.69
	50th percentile	0.78	0.78	0.78	0.69	0.75	0.69	0.69	0.76
	75th percentile	1.00	1.00	1.00	0.78	0.78	0.77	0.75	0.85
Females	Mean	0.785	0.784	0.750	0.717	0.660	0.670	0.726	0.732
	Standard error	0.028	0.015	0.011	0.014	0.020	0.037	0.049	0.007
	25th percentile	0.69	0.69	0.69	0.62	0.60	0.60	0.64	0.66
	50th percentile	0.78	0.78	0.71	0.69	0.66	0.71	0.71	0.71
	75th percentile	1.00	1.00	0.81	0.78	0.78	0.78	0.81	0.78

EQ-5D inc	lex value	Age							
(TTO valu		18-24	25-34	35–44	45–54	55–64	65–74	75+	Total
Total	Mean	0.785	0.756	0.740	0.678	0.653	0.617	0.575	0.706
	Standard error	0.021	0.013	0.009	0.010	0.016	0.022	0.055	0.005
	25th percentile	0.69	0.69	0.64	0.57	0.55	0.51	0.51	0.61
	50th percentile	0.73	0.73	0.70	0.69	0.69	0.62	0.60	0.69
	75th percentile	1.00	1.00	1.00	0.73	0.73	0.73	0.70	0.77
Males	Mean	0.820	0.757	0.769	0.674	0.695	0.613	0.528	0.716
	Standard error	0.028	0.019	0.014	0.014	0.022	0.024	0.083	0.008
	25th percentile	0.68	0.68	0.67	0.57	0.57	0.55	0.48	0.61
	50th percentile	0.77	0.73	0.73	0.69	0.69	0.61	0.55	0.69
	75th percentile	1.00	1.00	1.00	0.73	0.77	0.69	0.69	0.77
Females	Mean	0.760	0.755	0.720	0.682	0.616	0.621	0.641	0.698
	Standard error	0.030	0.017	0.012	0.014	0.023	0.038	0.057	0.007
	25th percentile	0.69	0.69	0.64	0.57	0.51	0.50	0.55	0.61
	50th percentile	0.73	0.73	0.69	0.69	0.61	0.64	0.61	0.69
	75th percentile	1.00	1.00	0.77	0.73	0.73	0.73	0.73	0.77

United Kingdom

Source: Kind et al. (1998) **Number of respondents**

Age	18–24	25–34	35–44	45–54	55–64	65–74	75+	Total
Total	304	753	561	488	484	488	317	3,395
Males	128	330	256	221	196	228	110	1,469
Females	176	423	305	267	288	260	207	1,926

		Age							
EQ-VAS (self-rated)	18–24	25-34	35-44	45-54	55-64	65-74	75+	Total
Total	Mean	86.5	86.8	86.6	82.0	81.6	77.3	73.8	82.8
	Standard error	0.8	0.5	0.6	0.8	2.1	0.8	1.1	0.4
	25th percentile	80	80	80	75	70	70	60	75
	50th percentile	90	90	90	90	85	80	75	90
	75th percentile	95	97	95	95	95	90	90	95
Males	Mean	87.1	86.9	86.8	81.6	83.7	78.2	72.9	83.3
	Standard error	1.2	0.8	0.8	1.3	4.9	1.2	1.8	0.8
	25th percentile	80	80	82	75	70	70	60	75
	50th percentile	90	90	90	90	85	80	75	90
	75th percentile	98	96	95	95	93	90	85	95
Females	Mean	86.0	86.8	86.4	82.4	80.3	76.6	74.2	82.4
	Standard error	1.0	0.7	0.9	1.1	1.0	1.2	1.3	0.4
	25th percentile	80	80	80	80	70	65	60	75
	50th percentile	90	90	90	90	85	80	75.5	90
	75th percentile	95	97	95	95	95	90	90	95

Problems reported by dimension

		Age													
		18–24		25–34		35–44		45–54		55–64		65–74	İ	75+	
Total		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	292	96.4	705	93.8	517	92.3	413	84.6	360	74.7	318	65.2	160	50.8
	Some problems	11	3.6	46	6.1	43	7.7	73	15.0	122	25.3	170	34.8	155	49.2
	Confined to bed	0	0.0	1	0.1	0	0.0	2	0.4	0	0.0	0	0.0	0	0.0
Self-care	No problems	300	99.3	744	6.86	551	98.4	458	94.0	454	94.2	455	93.2	280	88.9
	Some problems	2	0.7	7	6.0	6	1.6	28	5.7	28	5.8	31	6.4	34	10.8
	Unable to	0	0.0	_	0.1	0	0.0	-	0.2	0	0.0	2	0.4	_	0.3
Usual activities	No problems	287	94.7	689	91.6	519	92.7	410	84.2	364	75.5	360	73.8	207	65.7
	Some problems	15	5.0	59	7.8	36	6.4	63	12.9	103	21.4	113	23.2	92	29.2
	Unable to	_	0.3	4	0.5	5	6.0	4	2.9	15	3.1	15	3.1	16	5.1
Pain/discomfort	No	251	82.8	634	84.3	433	77.5	322	66.1	255	52.8	243	49.8	132	41.9
	Some	51	16.8	109	14.5	119	21.3	145	29.8	196	40.6	213	43.6	155	49.2
	Extreme	_	0.3	6	1.2	7	1.3	20	4.1	32	9.9	32	9.9	28	8.9
Anxiety/depression	No	267	88.1	632	84.0	462	82.5	381	78.1	344	71.2	362	74.2	231	73.3
	Some	33	10.9	113	15.0	93	16.6	93	19.1	127	26.3	1111	22.7	78	24.8
	Extreme	3	1.0	7	6.0	S	6.0	14	2.9	12	2.5	15	3.1	9	1.9
														(conti	(continued)

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		Age													
		18–24		25–34		35-44		45–54		55–64		65–74		75+	
Males		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	120	93.8	311	94.2		91.4	186	84.2	133	68.2	154	67.5	63	57.8
	Some problems	∞	6.3	18	5.5	22	8.6	33	14.9	62	31.8	74	32.5	46	42.2
	Confined to bed	0	0.0	Т	0.3	0	0.0	2	6.0	0	0.0	0	0.0	0	0.0
Self-care	No problems	126	98.4	327	99.1	250	0.86	206	93.2	181	92.8	211		100	91.7
	Some problems	7	1.6	2	9.0	5	2.0	15		14	7.2	15		6	8.3
	Unable to	0	0.0	П	0.3	0	0.0	0		0	0.0	2		0	0.0
Usual activities	No problems	119	93.0	304	92.1	236	92.5	185		135	69.2	171		73	67.0
	Some problems	6	7.0	23	7.0	16	6.3	24		48	24.6	50		28	25.7
	Unable to	0	0.0	3	6.0	3	1.2	11		12	6.2	7		8	7.3
Pain/discomfort	No	103	80.5	282	85.5	198	78.0	151		66	50.8	117		52	47.7
	Some	25	19.5	4	13.3	52	20.5	09		83	42.6	94		20	45.9
	Extreme	0	0.0	4	1.2		1.6	10		13	6.7	17		7	6.4
Anxiety/depression	No	116	9.06	286	86.7	218	85.5	181	81.9	136	2.69	182		88	80.7
	Some	11	9.8	40	12.1		13.7	32		54	27.7	37		17	15.6
	Extreme	1	0.8	4	1.2	2	8.0	8	3.6	5	2.6	6	3.9	4	3.7

		Age													
		18–24		25–34		35–44		45–54		55–64		65–74		75+	
Females		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	172	98.3	394	93.4	284	93.1	227	85.0	227	79.1	164	63.1	26	47.1
	Some problems	3	1.7	28	9.9	21	6.9	40	15.0	09	20.9	96	36.9	109	52.9
	Confined to bed	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Self-care	No problems		100.0	417	8.86	301	7.86	252	94.7	273	95.1	244	93.8	180	87.4
	Some problems	0	0.0	S	5 1.2 4 1.3	4	1.3	13	13 4.9	14	4.9	16	14 4.9 16 6.2 25	25	12.1
	Unable to	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	1	0.5
Usual activities	No problems	168	0.96	385	91.2	283	92.8	225	84.3	229	8.62	189	72.7	134	65.0
	Some problems	9	3.4	36	8.5	20	9.9	39	14.6	55	19.2	63	24.2	64	31.1
	Unable to	П	9.0	1	0.2	7	0.7	ε	1.1	3	1.0	∞	3.1	∞	3.9
Pain/discomfort	No	148	84.6	352	83.4	235	77.0	171	64.3	156	54.2	126	48.5	80	38.8
	Some	26	14.9	65	15.4	29	22.0	85	32.0	113	39.2	119	45.8	105	51.0
	Extreme	_	9.0	S	1.2	ε	1.0	10	3.8	19	9.9	15	5.8	21	10.2
Anxiety/depression	No	151	86.3	346	82.0	244	80.0	200	74.9	208	72.2	180	69.2	143	69.4
	Some	22	12.6	73	17.3	28	19.0	61	22.8	73	25.3	74	28.5	61	29.6
	Extreme	2	1.1	3	0.7	3	1.0	9	2.2	7	2.4	9	2.3	2	1.0

EQ-5D index value (European VAS value set)

EO-5D inc	lex value	Age							
(European		18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.934	0.922	0.905	0.849	0.804	0.785	0.734	0.856
	Standard error	0.007	0.005	0.006	0.010	0.010	0.010	0.013	0.003
	25th percentile	0.96	0.78	0.78	0.78	0.69	0.69	0.62	0.76
	50th percentile	1.00	1.00	1.00	1.00	0.78	0.78	0.75	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.929	0.927	0.909	0.851	0.783	0.791	0.761	0.860
	Standard error	0.011	0.008	0.010	0.016	0.017	0.015	0.022	0.005
	25th percentile	0.79	1.00	0.78	0.78	0.69	0.69	0.68	0.78
	50th percentile	1.00	1.00	1.00	1.00	0.78	0.78	0.78	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.937	0.918	0.901	0.847	0.818	0.779	0.720	0.852
	Standard error	0.009	0.007	0.009	0.012	0.012	0.013	0.015	0.004
	25th percentile	1.00	0.78	0.78	0.78	0.69	0.69	0.60	0.75
	50th percentile	1.00	1.00	1.00	1.00	0.78	0.78	0.71	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.85	1.00

EQ-5D ind	ex value	Age							
(TTO value		18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.940	0.927	0.911	0.847	0.799	0.779	0.726	0.856
	Standard error	0.007	0.006	0.007	0.011	0.012	0.012	0.015	0.004
	25th percentile	0.97	0.85	0.85	0.80	0.73	0.69	0.66	0.80
	50th percentile	1.00	1.00	1.00	1.00	0.85	0.80	0.76	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.935	0.930	0.914	0.845	0.777	0.781	0.753	0.858
	Standard error	0.011	0.009	0.011	0.018	0.020	0.018	0.026	0.006
	25th percentile	0.85	1.00	0.85	0.80	0.69	0.69	0.69	0.80
	50th percentile	1.00	1.00	1.00	1.00	0.81	0.80	0.80	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.943	0.925	0.909	0.849	0.815	0.777	0.712	0.854
	Standard error	0.009	0.007	0.009	0.014	0.015	0.016	0.019	0.005
	25th percentile	1.00	0.85	0.85	0.80	0.73	0.69	0.63	0.76
	50th percentile	1.00	1.00	1.00	1.00	0.85	0.80	0.73	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.89	1.00

EQ-5D index value (VAS value set)

EQ-5D ind	lex value	Age							
(VAS valu		18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.931	0.920	0.902	0.846	0.799	0.778	0.726	0.852
	Standard error	0.007	0.005	0.007	0.010	0.010	0.010	0.012	0.003
	25th percentile	0.95	0.78	0.78	0.76	0.69	0.66	0.63	0.74
	50th percentile	1.00	1.00	1.00	1.00	0.78	0.76	0.73	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.925	0.925	0.907	0.848	0.779	0.784	0.752	0.856
	Standard error	0.011	0.008	0.010	0.015	0.017	0.015	0.022	0.005
	25th percentile	0.78	1.00	0.78	0.76	0.66	0.67	0.66	0.76
	50th percentile	1.00	1.00	1.00	1.00	0.76	0.76	0.76	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.936	0.915	0.898	0.844	0.813	0.773	0.712	0.848
	Standard error	0.009	0.007	0.009	0.012	0.012	0.013	0.015	0.004
	25th percentile	1.00	0.78	0.78	0.76	0.70	0.66	0.60	0.73
	50th percentile	1.00	1.00	1.00	1.00	0.78	0.76	0.70	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.84	1.00

United States

Source: Medical Expenditure Panel Survey; AHRQ (2000–2002)

Number of respondents

Age	18–24	25–34	35–44	45–54	55–64	65–74	75+	Total
Total	4,584	7,168	8,288	7,350	4,894	3,441	2,953	38,678
Males	2,125	3,359	3,799	3,427	2,303	1,508	1,177	17,698
Females	2,459	3,809	4,489	3,923	2,591	1,933	1,776	20,980

		Age							
EQ-VAS (self-rated)	18–24	25-34	35–44	45–54	55-64	65–74	75+	Total
Total	Mean	86.2	83.5	81.8	79.2	76.9	75.1	68.5	80.0
	Standard error	0.3	0.2	0.2	0.2	0.3	0.4	0.5	0.1
	25th percentile	80	80	75	72	70	65	53	73
	50th percentile	90	88	85	84	80	80	72	85
	75th percentile	95	94	92	90	90	90	84	91
Males	Mean	88.0	84.5	82.9	79.6	77.8	75.3	69.2	81.0
	Standard error	0.3	0.3	0.3	0.4	0.5	0.6	0.8	0.2
	25th percentile	82	80	78	75	70	65	59	75
	50th percentile	90	90	85	85	83	80	75	85
	75th percentile	97	95	93	90	90	90	85	92
Females	Mean	84.5	82.6	80.8	78.9	76.1	74.9	68.1	79.0
	Standard error	0.4	0.3	0.3	0.3	0.5	0.5	0.6	0.2
	25th percentile	80	80	75	71	70	65	51	70
	50th percentile	90	85	85	82	80	80	70	84
	75th percentile	95	92	91	90	90	90	82	90

Problems reported by dimension (raw numbers, weighted proportions)

		Age													
		18–24		25–34		35–44		45–54		55-64		65–74		75+	
Total		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	4,357	95.4	6,673	93.6	7,384	8.68	5,862	80.7	3,468	73.6	2,116	62.6	1,235	42.1
	Some problems	207	4.4	466	0.9	877	10.0	1,455	19.0	1,400	26.0	1,302	36.8	1,668	56.6
	Confined to bed	20	0.3	29	0.3	27	0.2	33	0.3	56	0.4	23	9.0	50	1.3
Self-care	No problems	4,535	99.1	7,061	7.86	8,075	8.76	866,9	96.2	4,544	94.1	3,171	93.7	2,386	82.4
	Some problems	39	8.0	93	1.1	185	1.9	317	3.4	299	5.1	246	5.7	469	14.7
	Unable to	10	0.2	14	0.2	28	0.3	35	0.3	51	8.0	24	0.5	86	2.9
Usual activities	No problems	4,247	93.3	6,501	91.1	7,185	87.5	5,842	81.1	3,448	73.0	2,222	0.99	1,404	49.0
	Some problems	315	6.4	629	8.2	1,022	11.6	1,367	17.4	1,290	24.4	1,111	31.3	1,277	42.9
	Unable to	22	0.4	38	9.0	81	0.9	141	1.5	156	2.6	108	2.8	272	8.1
Pain/discomfort	No	3,485	76.5	5,067	71.5	5,093	61.6	3,564	49.3	1,913	41.2	1,170	34.3	807	27.9
	Some	1,049	22.6	1,971	26.7	2,921	35.5	3,395	46.0	2,621	52.5	2,068	60.3	1,899	64.9
	Extreme	50	6.0	130	1.8	274	2.9	391	4.7	360	6.3	203	5.5	247	7.3
Anxiety/depression	No	3,599	78.7	5,520	77.2	960,9	73.9	5,148	71.5	3,274	68.7	2,361	70.4	1,821	62.8
	Some	887	19.3	1,495	20.9	1,973	23.9	1,967	25.8	1,454	28.3	993	27.3	1,037	34.2
	Extreme	86	2.0	153	1.9	219	2.2	235	2.8	166	3.0	87	2.3	95	3.0
														(continued)	(panu

(continued)

		Age													
		18–24		25–34		35-44		45-54		55-64		65–74		75+	
Males		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	2,031	95.7	3,156	94.1			2,823	83.0	1,696		696	65.4	544	44.2
	Some problems	85	4.0	190	5.5	335	8.2	584	16.6	597	24.3	531	33.8	615	54.6
	Confined to bed	6	0.3	13	0.4			20	0.4	10		14	6.0	18	1.2
Self-care	No problems	2,100	0.66	3,313	8.86			3,259	0.96	2,142		1,388	93.9	973	83.5
	Some problems	19	8.0	41	1.1			147	3.5	136		105	5.4	165	13.2
	Unable to	9	0.2	S	0.2			21	0.4	25		15	0.7	39	3.2
Usual activities	No problems	2,002	94.5	3,143	93.5			2,830	83.9	1,699		1,008	68.9	628	53.0
	Some problems	114	5.1	198	5.8			531	14.5	539		450	28.1	458	39.9
	Unable to	6	0.4	18	0.7			99	1.6	65		50	3.0	91	7.2
Pain/discomfort	No	1,692	78.9	2,488	74.0			1,791	52.3	1,004		557	37.5	379	31.8
	Some	409	20.3	815	24.2			1,483	43.7	1,147		873	57.9	730	62.6
	Extreme	24	8.0	99	1.8			153	4.1	152		78	4.6	89	5.6
Anxiety/depress ion	No	1,769	83.4	2,758	80.8			2,560	74.8	1,646		1,087	74.0	777	67.2
	Some	318	15.1	553	17.7			9//	22.6	290		393	24.4	375	30.7
	Extreme	38	1.5	48	1.5	72		91	2.6	29		28	1.7	25	2.1

		Age													
		18–24		25–34		35-44		45-54		55-64		65–74		75+	
Females		n	%	n	%	n	%	n	%	n	%	n	%	n	%
Mobility	No problems	2,326	95.1		93.2	3,931	88.1		9.87	1,772	71.8	1,153	60.2	691	40.8
	Some problems	122	4.6		9.9	542	11.7		21.2	803	27.6	771	39.4	1,053	57.9
	Confined to bed	11	0.3		0.3	16	0.3		0.2	16	9.0	6	0.4	32	1.4
Self-care	No problems	2,435	99.1	3,748	7.86	4,369	8.76	3,739	96.4	2,402	94.0	1,783	93.6	1,413	81.7
	Some problems	20	0.7		1.1	108	2.1		3.4	163	5.1	141	0.9	304	15.7
	Unable to	4	0.2		0.2	12	0.2		0.2	26	6.0	6	0.4	59	2.7
Usual activities	No problems	2,245	92.1		88.9	3,782	84.8		78.5	1,749	70.3	1,214	63.5	922	46.3
	Some problems	201	9.7		10.6	657	14.3		20.0	751	26.7	661	33.8	819	44.9
	Unable to	13	0.4		9.0	50	1.0		1.4	91	3.0	58	2.6	181	8.8
Pain/discomfort	No	1,793	74.1		69.2	2,643	58.8		46.5	606	37.0	613	31.6	428	25.2
	Some	640	24.8		29.0	1,677	37.9		48.3	1,474	56.1	1,195	62.3	1,169	66.4
	Extreme	26	1.1		1.8	169	3.4		5.2	208	7.0	125	6.2	179	8.4
Anxiety/depression	No	1,830	74.2		73.8	3,087	69.4		68.4	1,628	64.5	1,274	67.4	1,044	59.8
	Some	695	23.4		24.0	1,255	28.0		28.8	864	31.9	009	29.7	662	36.6
	Extreme	09	2.4	105	2.2	147	2.6	144	2.9	66	3.6	59	2.9	70	3.6

EQ-5D index value (European VAS value set)

EO-5D inc	lex value	Age							
(European		18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.899	0.883	0.851	0.809	0.773	0.752	0.676	0.823
	Standard error	0.003	0.002	0.002	0.003	0.004	0.004	0.005	0.001
	25th percentile	0.78	0.78	0.78	0.69	0.69	0.69	0.60	0.69
	50th percentile	1.00	1.00	1.00	0.78	0.78	0.78	0.69	0.78
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.78	1.00
Males	Mean	0.914	0.896	0.868	0.822	0.793	0.768	0.699	0.841
	Standard error	0.004	0.004	0.003	0.004	0.005	0.006	0.008	0.002
	25th percentile	0.78	0.78	0.78	0.71	0.69	0.69	0.60	0.75
	50th percentile	1.00	1.00	1.00	0.78	0.78	0.78	0.71	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.78	1.00
Females	Mean	0.885	0.872	0.836	0.797	0.754	0.739	0.660	0.806
	Standard error	0.004	0.003	0.003	0.004	0.005	0.005	0.006	0.002
	25th percentile	0.78	0.78	0.71	0.69	0.69	0.66	0.60	0.69
	50th percentile	1.00	1.00	0.78	0.78	0.78	0.75	0.69	0.78
	75th percentile	1.00	1.00	1.00	1.00	1.00	0.85	0.78	1.00

EQ-5D inde	ex value	Age							
(TTO value	set)	18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.925	0.912	0.888	0.855	0.827	0.813	0.754	0.866
	Standard error	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.001
	25th percentile	0.83	0.83	0.83	0.80	0.78	0.78	0.71	0.80
	50th percentile	1.00	1.00	1.00	0.83	0.83	0.83	0.80	0.84
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.83	1.00
Males	Mean	0.935	0.921	0.900	0.864	0.842	0.825	0.773	0.880
	Standard error	0.003	0.003	0.003	0.003	0.004	0.005	0.007	0.001
	25th percentile	0.84	0.83	0.83	0.81	0.80	0.78	0.71	0.82
	50th percentile	1.00	1.00	1.00	0.84	0.83	0.83	0.81	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.84	1.00
Females	Mean	0.914	0.904	0.877	0.846	0.812	0.803	0.741	0.854
	Standard error	0.003	0.003	0.003	0.003	0.004	0.005	0.005	0.001
	25th percentile	0.83	0.83	0.81	0.80	0.78	0.77	0.71	0.80
	50th percentile	1.00	1.00	0.84	0.83	0.83	0.82	0.78	0.84
-	75th percentile	1.00	1.00	1.00	1.00	1.00	0.86	0.83	1.00

Annex 2: EQ-5D Population Norms – Regional Surveys

Armenia (five regions)

Source: Gharagebakyan et al. (2003)

Number of respondents

Age	18-24	25-34	35-44	45-54	55-64	65-74	75+	Total
Total	297	339	473	414	227	287	180	2,217
Males	77	114	127	115	78	93	57	661
Females	220	225	346	299	149	194	123	1,556

		Age							
EQ-VAS (self-rated)	18–24	25-34	35–44	45–54	55–64	65–74	75+	Total
Total	Mean	87.8	78.4	68.0	62.3	55.3	50.1	43.8	65.7
	Standard error	0.8	1.0	0.9	0.9	1.3	1.1	1.6	0.5
	25th percentile	80	70	50	50	40	40	30	50
	50th percentile	90	80	70	60	53	50	45	70
	75th percentile	100	90	80	80	70	60	58	84
Males	Mean	88.7	78.8	71.2	63.1	55.8	55.5	49.0	67.3
	Standard error	1.6	2.1	1.8	2.0	2.3	2.1	2.7	0.9
	25th percentile	80	65	60	50	40	40	40	50
	50th percentile	95	85	78	65	60	60	50	70
	75th percentile	100	100	90	80	70	70	60	90
Females	Mean	87.5	78.1	66.9	62.1	55.0	47.5	41.5	65.0
	Standard error	1.0	1.1	1.1	1.1	1.6	1.2	1.9	0.6
	25th percentile	80	70	50	50	40	40	30	50
	50th percentile	90	80	70	60	51	50	40	70
	75th percentile	100	90	80	75	70	60	50	80

Problems reported by dimension

		Age													
		18–24		25–34		35-44		45–54		55-64		65–74		75+	
Total		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	283	95.3	296	87.3	397	83.9	321	77.5	128	56.4	127	44.3	58	32.2
	Some problems	13	4.4	42	12.4	74	15.6	92	22.2	95	41.9	149	51.9	1111	61.7
	Confined to bed	-	0.3	_	0.3	2	0.4	1	0.2	4	1.8	11	3.8	11	6.1
Self-care	No problems	291	98.3	320	94.4	449	94.9	382	92.3	180	79.3	195	6.79	83	46.1
	Some problems	3	1.0	18	5.3	22	4.7	28	8.9	42	18.5	75	26.1	79	43.9
	Unable to	2	0.7	-	0.3	2	0.4	4	1.0	5	2.2	17	5.9	18	10.0
Usual activities	No problems	278	93.6	282	83.2	364	77.0	308	74.6	124	54.9	132	46.0	59	32.8
	Some problems	18	6.1	52	15.3	66	20.9	96	23.2	92	40.7	131	45.6	91	50.6
	Unable to	П	0.3	5	1.5	10	2.1	6	2.2	10	4.4	24	8.4	30	16.7
Pain/discomfort	No	219	73.7	184	54.3	176	37.2	116	28.0	35	15.4	27	9.4	17	9.4
	Some	71	23.9	138	40.7	259	54.8	246	59.4	143	63.0	181	63.1	109	9.09
	Extreme	7	2.4	17	5.0	38	8.0	52	12.6	49	21.6	79	27.5	54	30.0
Anxiety/depression	No	209	70.8	196	58.3	224	47.8	168	40.7	85	37.8	78	27.5	4	35.6
	Some	81	27.5	123	36.6	205	43.7	202	48.9	100	4.4	143	50.4	72	40.0
	Extreme	S	1.7	17	5.1	40	8.5	43	10.4	40	17.8	63	22.2	4	24.4

		Age													
		18–24	4	25–34		35–44		45–54		55–64	4	65–74	4	75+	
Males		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	71	92.2	86	0.98	108	85.0	68	77.4	44	56.4	47	50.5	24	42.1
	Some problems	S	6.5	15	13.2	17	13.4	25	21.7	32	41.0	4	47.3	30	52.6
	Confined to bed	_	1.3	1	6.0	2	1.6	1	6.0	2	2.6	7	2.2	ϵ	5.3
Self-care	No problems	73	94.8	104	91.2	120	94.5	101	87.8	28	74.4	63	2.79	31	54.4
	Some problems	2	2.6	6	7.9	7	5.5	12	10.4	18	23.1	56	28.0	21	36.8
	Unable to	2	2.6	1	6.0	0	0.0	2	1.7	2	2.6	4	4.3	5	8.8
Usual activities	No problems	29	87.0	91	8.62	103	81.1	81	70.4	42	53.8	43	46.2	25	43.9
	Some problems	6	11.7	21	18.4	19	15.0	28	24.3	32	41.0	39	41.9	27	47.4
	Unable to	_	1.3	2	1.8	5	3.9	9	5.2	4	5.1	11	11.8	5	8.8
Pain/discomfort	No	4	83.1	72	63.2	59	46.5	41	35.7	18	23.1	15	16.1	8	14.0
	Some	11	14.3	33	28.9	99	4.1	55	47.8	4	56.4	54	58.1	35	61.4
	Extreme	2	2.6	6	7.9	12	9.4	19	16.5	16	20.5	24	25.8	14	24.6
Anxiety/depression	No	55	72.4	73	64.0	29	53.2	54	47.0	36	46.2	30	33.0	56	45.6
	Some	21	27.6	31	27.2	48	38.1	49	42.6	31	39.7	4	48.4	21	36.8
	Extreme	0	0.0	10	8.8	11	8.7	12	10.4	Ξ	14.1	17	18.7	10	17.5
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		18–24		25–34		35–44		45–54		55-64		65–74		75+	
Females		u	%	и	%	u	%	u	%	п	%	u	%	u	%
Mobility No p	problems	212	96.4	198	88.0			232	9.77		56.4	80	41.2	34	27.6
	ne problems	8	3.6	27	12.0	57	16.5	67 22.4	22.4	63	42.3	105	54.1	81	65.9
Cont	fined to bed	0	0.0			0	0.0	0	0.0	2	1.3		4.6	8	6.5
Self-care No p	problems	218	99.5	216		329	95.1	281	94.0	122	81.9	132	0.89	52	42.3
Som	e problems	-	0.5			15	4.3	16	5.4	24	16.1		25.3	58	47.2
Unal	Unable to	0	0.0			2	9.0	2	0.7	ε	2.0		6.7	13	10.6
Usual activities No p	problems	211	95.9			261	75.4	227	76.2	82	55.4		45.9	34	27.6
	ne problems	6	4.1			80	23.1	89	22.8	09	40.5		47.4	49	52.0
	ible to	0	0.0			5	1.4	ε	1.0	9	4.1		6.7	25	20.3
Pain/discomfort No		155	70.5			117	33.8	75	25.1	17	11.4		6.2	6	7.3
Som	e.	09	27.3			203	58.7	191	63.9	66	66.4		65.5	74	60.2
Extren	treme	S	2.3			26	7.5	33	11.0	33	22.1		28.4	40	32.5
Anxiety/depression No		154	70.3			157	45.8	114	38.3	49	33.3		24.9	38	30.9
Som	e.	09	27.4			157	45.8	153	51.3	69	46.9		51.3	51	41.5
Extr	treme	5	2.3			29	8.5	31	10.4	29	19.7		23.8	34	27.6

EQ-5D index value (European VAS value set)

EQ-5D ind	lex value	Age							
(European		18–24	25-34	35–44	45–54	55–64	65–74	75+	Total
Total	Mean	0.881	0.798	0.736	0.690	0.600	0.521	0.473	0.693
	Standard error	0.010	0.012	0.010	0.011	0.017	0.016	0.021	0.006
	25th percentile	0.78	0.69	0.66	0.61	0.48	0.28	0.18	0.60
	50th percentile	1.00	0.78	0.75	0.69	0.68	0.60	0.49	0.69
	75th percentile	1.00	1.00	1.00	0.78	0.78	0.69	0.69	1.00
Males	Mean	0.887	0.804	0.752	0.699	0.620	0.546	0.537	0.704
	Standard error	0.022	0.024	0.021	0.025	0.031	0.029	0.037	0.011
	25th percentile	0.78	0.69	0.62	0.60	0.48	0.30	0.29	0.58
	50th percentile	1.00	1.00	0.78	0.69	0.69	0.62	0.60	0.75
	75th percentile	1.00	1.00	1.00	1.00	0.78	0.75	0.71	1.00
Females	Mean	0.879	0.794	0.730	0.686	0.589	0.509	0.443	0.688
	Standard error	0.011	0.013	0.011	0.012	0.020	0.019	0.026	0.006
	25th percentile	0.78	0.69	0.66	0.62	0.45	0.26	0.15	0.60
	50th percentile	1.00	0.78	0.69	0.69	0.66	0.60	0.48	0.69
	75th percentile	1.00	1.00	0.85	0.78	0.75	0.69	0.66	0.78

Canada (Alberta)

Source: Johnson et al. (2000) **Number of respondents**

Age	18-24	25-34	35–44	45–54	55–64	65–74	75+	Total
Total	459	861	1,073	991	850	478	298	5,010
Males	220	379	509	493	437	227	127	2,392
Females	239	482	564	498	413	251	171	2,618

		Age							
EQ-VAS (self-rated)	18–24	25-34	35–44	45–54	55-64	65-74	75+	Total
Total	Mean	81.6	80.5	78.7	75.7	77.1	77.1	75.3	78.3
	Standard error	0.9	0.6	0.5	0.7	0.6	0.9	1.2	0.3
	25th percentile	78	75	73	70	70	70	70	75
	50th percentile	85	85	80	80	80	80	75	80
	75th percentile	90	90	90	88	89	90	85	90
Males	Mean	80.6	80.7	78.3	76.0	76.5	76.6	77.6	78.1
	Standard error	1.4	0.8	0.7	0.9	0.8	1.4	1.5	0.4
	25th percentile	75	75	70	70	70	70	70	73
	50th percentile	85	85	80	80	80	80	80	80
	75th percentile	90	90	90	85	85	90	85	90
Females	Mean	82.6	80.3	79.2	75.4	77.7	77.6	73.6	78.5
	Standard error	0.9	0.8	0.7	1.0	0.9	1.3	1.7	0.4
	25th percentile	80	75	75	70	70	70	65	75
	50th percentile	85	85	80	80	80	80	75	80
	75th percentile	90	90	90	90	90	90	85	90

Problems reported by dimension

		Age													
		18–24		25–34		35-44		45–54		55-64		65–74		75+	
Total		п	%	п	%	u	%	u	%	u	%	п	%	п	%
Mobility	No problems	424	91.7	785	91.4	940	0.68	781	79.2	099	79.5	325	69.3	156	51.9
	Some problems	33	7.7	73	8.2	125	10.5	207	20.7	182	20.0	147	30.4	141	48.1
	Confined to bed	2	0.5	2	0.4	5	0.5	2	0.1	4	0.5	\mathcal{S}	0.2	0	0.0
Self-care	No problems	456	99.1	842	0.86	1,042	97.4	947	0.96	816	95.9	445	93.8	273	91.8
	Some problems	\mathcal{S}	6.0	14	1.7	79	2.4	42	3.7	34	4.1	30	5.8	25	8.2
	Unable to	0	0.0	3	0.3	2	0.2	2	0.2	0	0.0	2	0.4	0	0.0
Usual activities	No problems	413	9.68	992	89.2	933	88.5	167	75.9	999	79.0	364	75.9	201	2.99
	Some problems	4	6.7	83	9.1	120	10.0	203	21.5	176	19.6	109	23.3	94	32.9
	Unable to	2	0.7	12	1.6	14	1.5	20	2.6	6	1.4	4	8.0	3	0.4
Pain/discomfort	No	317	67.3	570	9.99	574	56.0	440	43.6	379	45.5	207	43.6	76	31.5
	Some	138	31.7	267	30.9	465	41.8	498	51.2	435	50.3	248	51.5	185	63.3
	Extreme	4	1.1	22	2.6	28	2.2	52	5.2	36	4.2	22	4.9	16	5.2
Anxiety/depression	No	352	77.3	661	77.3	815	6.77	742	74.9	639	76.8	368	9.77	239	82.0
	Some	26	20.7	178	20.9	227	20.0	218	22.8	186	21.7	100	20.6	53	17.4
	Extreme	6	2.0	18	1.8	23	2.1	22	2.3	17	1.5	9	1.8	-	9.0
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		Age													
		18–24		25–34		35-44		45–54		55–64		65–74		75+	
Males		n	%	п	%	п	%	п	%	u	%	n	%	u	%
Mobility	No problems	204	91.8	338	2.68	450	91.3	393	82.6	340	79.3	160	72.8	74	55.4
	Some problems	16	8.2	39	6.6	99	9.8	66	17.4	94	20.7	99	27.2	53	44.6
	Confined to bed	0	0.0	_	0.5	_	0.1	0	0.0	0	0.0	0	0.0	0	0.0
Self-care	No problems	219	2.66	368	8.76	494	6.76	468	95.9	418	94.9	218	2.96	122	95.8
	Some problems	1	0.3	8	2.0	12	2.0	24	4.0	19	5.1	∞	5.6	5	4.2
	Unable to	0	0.0	_	0.1	_	0.1	1	0.1	0	0.0	1	0.7	0	0.0
Usual activities	No problems	194	86.1	337	88.5	451	90.5	390	79.3	342	80.1	182	81.5	100	80.2
	Some problems	25	13.3	35	9.2	50	8.2	94	18.4	68	18.3	42	17.0	24	18.8
	Unable to	1	9.0	7	2.3	S	1.2	6	2.4	9	1.6	2	1.5	ж	1.0
Pain/discomfort	No	152	67.2	251	69.3	272	58.8	226	46.0	203	47.4	115	52.7	47	37.2
	Some	65	31.4	119	29.1	224	40.1	249	50.8	213	47.5	104	43.8	75	9.09
	Extreme	ε	1.3	8	1.6	10	1.1	17	3.2	21	5.0	∞	3.5	5	2.2
Anxiety/depression	No	171	76.1	297	79.5	415	83.8	389	78.4	342	8.62	185	82.3	103	82.3
	Some	4	22.4	29	17.8	83	14.6	93	20.0	83	18.8	38	16.2	23	17.7
	Extreme	5	1.5	13	2.7	7	1.6	7	1.6	7	1.4	3	1.6	0	0.0

		Age													
		18–24		25–34		35-44	İ	45–54		55–64		65–74		75+	
Females		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	220	91.7	447	93.0	490	86.5	388	76.0	320	8.62	165	66.2	82	49.4
	Some problems	17	7.3	34	9.9	69	12.5	108	23.9	88	19.1	81	33.4		50.6
	Confined to bed	2	1.1	1	0.4	4	1.0	2	0.1	4	1.0	ε	0.5		0.0
Self-care	No problems	237	9.86	474	98.2	548	6.96	479	96.2	398	97.0	227	91.2		88.8
	Some problems	2	1.4		1.4	14 2.8	2.8	18	18 3.4	15	3.0	22	15 3.0 22 8.7	20	11.2
	Unable to	0	0.0	2	0.4	1	0.3	1	0.4	0	0.0	-	0.1	0	0.0
Usual activities	No problems	219	219 93.0	429	6.68	482	86.3	377	72.7	323	77.8	182	70.8	101	56.8
	Some problems	19	6.1	48	9.0	70	11.9	109	24.5	87	21.0	<i>L</i> 9	28.9	70	43.2
	Unable to	П	8.0	5	1.0	6	1.8	11	2.8	ε	1.1	2	0.2	0	0.0
Pain/discomfort	No	165	67.3	319	63.9	302	53.0	214	41.3	176	43.4	92	35.3	50	27.4
	Some	73	31.9	148	32.6	241	43.6	249	51.6	222	53.3	144	58.6	110	65.3
	Extreme	П	8.0	14	3.5	18	3.4	35	7.1	15	3.3	14	6.1	11	7.3
Anxiety/depression	No	181	78.5	364	75.2	400	71.6	353	71.4	297	73.5	183	73.4	136	81.8
	Some	53	19.0	1111	23.9	4	25.8	125	25.6	103	24.8	62	24.6	30	17.1
	Extreme	4	2.5	5	6.0	16	2.6	15	2.9	10	1.6	3	2.0	1	1.0

EQ-5D index value (European VAS value set)

EQ-5D ind	lex value	Age							
(European		18-24	25-34	35–44	45–54	55–64	65–74	75+	Total
Total	Mean	0.873	0.864	0.843	0.798	0.805	0.793	0.756	0.828
	Standard error	0.009	0.007	0.007	0.008	0.008	0.010	0.012	0.003
	25th percentile	0.779	0.779	0.779	0.690	0.690	0.690	0.687	0.713
	50th percentile	1.000	1.000	0.783	0.779	0.779	0.779	0.753	0.783
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.81	1.00
Males	Mean	0.871	0.871	0.866	0.814	0.811	0.826	0.784	0.842
	Standard error	0.012	0.011	0.009	0.010	0.012	0.015	0.016	0.004
	25th percentile	0.78	0.78	0.78	0.71	0.71	0.71	0.69	0.75
	50th percentile	1.00	1.00	1.00	0.78	0.78	0.78	0.78	0.78
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.876	0.856	0.820	0.782	0.799	0.762	0.736	0.813
	Standard error	0.013	0.010	0.010	0.012	0.011	0.014	0.017	0.005
	25th percentile	0.78	0.78	0.71	0.69	0.69	0.69	0.69	0.71
	50th percentile	1.00	0.81	0.78	0.78	0.78	0.78	0.71	0.78
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.78	1.00

Japan (three prefectures) Source: Tsuchiya et al. (2002) Number of respondents

_	10.01	25.24	25 44	15.51	55.64	CE 51		700 . 1
Age	18–24	25–34	35–44	45–54	55–64	65–74	75+	Total
Total	41	99	109	136	128	80	27	620
Males	21	44	44	49	63	33	11	265
Females	20	55	65	87	65	47	16	355

		Age							
EQ-VAS (self-rated)	18-24	25-34	35–44	45-54	55–64	65-74	75+	Total
Total	Mean	78.9	77.9	79.3	79.8	76.8	76.6	67.7	77.8
	Standard error	2.6	1.6	1.4	1.3	1.5	1.6	3.1	0.6
	25th percentile	70	70	70	70	70	70	50	70
	50th percentile	80	80	80	80	80	80	70	80
	75th percentile	90	90	90	90	90	90	80	90
Males	Mean	76.9	80.8	79.1	82.3	76.8	77.9	63.4	78.5
	Standard error	3.9	2.1	1.8	2.2	2.4	2.2	4.8	1.0
	25th percentile	65	75	70	72.5	70	70	50	70
	50th percentile	80	80	80	90	80	80	60	80
	75th percentile	87.5	90	90	90	90	81	80	90
Females	Mean	81.0	75.7	79.4	78.4	76.7	75.7	70.8	77.3
	Standard error	3.4	2.4	2.0	1.7	1.9	2.3	4.1	0.9
	25th percentile	71.25	70	70	70	70	65	50	70
	50th percentile	82.5	80	85	80	80	80	75	80
	75th percentile	90	90	90	90	90	90	80	90

Problems reported by dimension

		Age													
		18–24	4	25–34	†	35–44		45–54		55–64		65–74	4	75+	
Total		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	40	9.76	26	0.86	109	100.0	134	98.5	115	8.68	62	77.5	18	2.99
	Some problems	_	2.4	7	2.0	0	0.0	2 1.5	1.5	13	10.2	18	22.5	6	33.3
	Confined to bed	0	0.0	0	0.0	0	0.0	0	0.0		0.0	0	0.0	0	0.0
Self-care	No problems	40	9.7.6	66	100.0	109	100.0	135	99.3	126	98.4	77	96.3	23	85.2
	Some problems	_	2.4	0	0.0	0	0.0	1	0.7	2	1.6	ϵ	3.8	4	14.8
	Unable to	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Usual activities	No problems	39	95.1	66	100.0	109	100.0	133	8.76	121	94.5	69	86.3	18	2.99
	Some problems	7	4.9	0	0.0	0	0.0	2	1.5	7	5.5	Ξ	13.8	7	25.9
	Unable to	0	0.0	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	7	7.4
Pain/discomfort	No	38	92.7	68	6.68	86	6.68	1111	81.6	95	74.2	53	66.3	12	44.4
	Some	7	4.9	∞	8.1	11	10.1	23	16.9	29	22.7	27	33.8	14	51.9
	Extreme	_	2.4	7	2.0	0	0.0	2	1.5		3.1	0	0.0	_	3.7
Anxiety/depression	No	38	92.7	94	94.9	101	92.7	125	91.9	117	91.4	72	0.06	20	74.1
	Some	\mathcal{C}	7.3	S	5.1	∞	7.3	∞	5.9		7.0	8	10.0	7	25.9
	Extreme	0	0.0	0	0.0	0	0.0	3	2.2	2	1.6	0	0.0	0	0.0

		Age													
		18–24	4	25–34	4	35-4	4	45–54	4	55–64	4	65–74	4	75+	
Males		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	20	95.2	43	7.76	44	100.0	49	100.0	57	90.5	25	75.8	8	72.7
	Some problems	1	4.8	_	2.3	0	0.0	0	0.0		9.5	∞	24.2	ϵ	27.3
	Confined to bed	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Self-care	No problems	20	95.2	4	100.0	44	100.0	49	100.0		98.4	33	100.0	10	6.06
	Some problems	-	4.8	0	0.0	0	0.0	0	0.0	-	1.6	0	0.0	_	9.1
	Unable to	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Usual activities	No problems	20	95.2	4	100.0	44	100.0	48	0.86	61	8.96	28	84.8	∞	72.7
	Some problems	1	4.8	0	0.0	0	0.0	_	2.0	7	3.2	5	15.2	ε	27.3
	Unable to	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Pain/discomfort	No	20	95.2	39	9.88	43	7.76	45	91.8	51	81.0	26	78.8	9	54.5
	Some	0	0.0	S	11.4	1	2.3	ϵ	6.1	11	17.5	7	21.2	5	45.5
	Extreme	1	4.8	0	0.0	0	0.0	_	2.0	-	1.6	0	0.0	0	0.0
Anxiety/depression	No	21	100.0	42	95.5	42	95.5	4	8.68	59	93.7	31	93.9	∞	72.7
	Some	0	0.0	7	4.5	7	4.5	ε	6.1	33	8.4	2	6.1	ε	27.3
	Extreme	0	0.0	0	0.0	0	0.0	7	4.1	-	1.6	0	0.0	0	0.0
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		Age													
		18–24	+	25–34	4	35-4	4	45–54	4	55–64	+	65–74	4	75+	
Females		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	20	100.0	54	98.2	65	100.0	85	7.76	28	89.2	37	78.7	10	62.5
	Some problems	0	0.0	_	1.8	0	0.0	2	2.3	7	10.8	10	21.3	9	37.5
	Confined to bed	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Self-care	No problems	20	100.0	55	100.0	65	100.0	98	6.86	64	98.5	44	93.6	13	81.3
	Some problems	0	0.0	0	0.0	0	0.0	1	1.1	1	1.5	ϵ	6.4	ϵ	18.8
	Unable to	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Usual activities	No problems	19	95.0	55	100.0	65	100.0	85	7.76	09	92.3	41	87.2	10	62.5
	Some problems	1	5.0	0	0.0	0	0.0	П	1.1	5	7.7	9	12.8	4	25.0
	Unable to	0	0.0	0	0.0	0	0.0	1	1.1	0	0.0	0	0.0	7	12.5
Pain/discomfort	No	18	0.06	50	6.06	55	84.6	99	75.9	44	67.7	27	57.4	9	37.5
	Some	2	10.0	ε	5.5	10	15.4	20	23.0	18	27.7	20	42.6	6	56.3
	Extreme	0	0.0	2	3.6	0	0.0	П	1.1	ϵ	4.6	0	0.0	_	6.3
Anxiety/depression	No	17	85.0	52	94.5	59	8.06	81	93.1	58	89.2	41	87.2	12	75.0
	Some	ϵ	15.0	3	5.5	9	9.2	S	5.7	9	9.2	9	12.8	4	25.0
	Extreme	0	0.0	0	0.0	0	0.0	-	1.1	1	1.5	0	0.0	0	0.0

EQ-5D index value (European VAS value set)

EQ-5D ind	lex value	Age							
(European		18-24	25-34	35–44	45–54	55–64	65–74	75+	Total
Total	Mean	0.961	0.961	0.965	0.938	0.908	0.886	0.758	0.927
	Standard error	0.021	0.011	0.008	0.012	0.014	0.017	0.041	0.006
	25th percentile	1.00	1.00	1.00	1.00	0.78	0.78	0.71	0.88
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.78	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.965	0.964	0.985	0.955	0.930	0.912	0.805	0.945
	Standard error	0.035	0.013	0.008	0.019	0.017	0.023	0.047	0.008
	25th percentile	1.00	1.00	1.00	1.00	0.81	0.78	0.78	1.00
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.78	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.957	0.958	0.952	0.928	0.886	0.867	0.727	0.914
	Standard error	0.024	0.016	0.012	0.015	0.022	0.023	0.062	0.008
	25th percentile	1.00	1.00	1.00	0.78	0.78	0.71	0.54	0.78
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.78	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.96	1.00

EQ-5D index value (TTO value set)

EO-5D ind	lex value	Age							
(TTO valu		18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.967	0.963	0.965	0.941	0.912	0.881	0.768	0.929
	Standard error	0.017	0.009	0.008	0.010	0.012	0.017	0.034	0.005
	25th percentile	1.00	1.00	1.00	1.00	0.77	0.74	0.69	0.85
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.77	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.975	0.962	0.985	0.963	0.930	0.904	0.799	0.946
	Standard error	0.025	0.013	0.008	0.015	0.016	0.025	0.045	0.007
	25th percentile	1.00	1.00	1.00	1.00	0.79	0.77	0.73	1.00
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.77	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.958	0.964	0.951	0.928	0.895	0.865	0.747	0.917
	Standard error	0.024	0.013	0.012	0.014	0.019	0.023	0.049	0.007
	25th percentile	1.00	1.00	1.00	0.77	0.77	0.71	0.59	0.77
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.77	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00

Spain (Canary Islands)

Source: Canary Islands Health Survey (2009)

Number of respondents

Age	18-24	25–34	35–44	45–54	55–64	65–74	75+	Total
Total	290	705	1,021	798	624	568	462	4,468
Males	129	327	431	339	237	240	150	1,853
Females	161	378	590	459	387	328	312	2,615

		Age							
EQ-VAS (self-rated)	18–24	25-34	35–44	45–54	55–64	65–74	75+	Total
Total	Mean	83.3	79.7	77.4	71.6	66.1	64.4	56.4	71.7
	Standard error	1.0	0.6	0.6	0.7	0.9	0.9	1.0	0.3
	25th percentile	77.5	70	70	60	50	50	40	60
	50th percentile	90	80	80	75	70	65	50	75
	75th percentile	99.5	90	90	90	80	80	70	90
Males	Mean	85.3	81.9	80.0	73.9	69.4	68.7	58.2	75.0
	Standard error	1.3	0.9	0.8	1.0	1.4	1.3	1.8	0.5
	25th percentile	80	70	70	60	50	50	50	60
	50th percentile	90	80	80	80	70	70	60	80
	75th percentile	100	95	90	90	80	80	70	90
Females	Mean	81.7	77.8	75.4	69.8	64.0	61.2	55.5	69.3
	Standard error	1.4	0.9	0.8	1.0	1.1	1.2	1.2	0.4
	25th percentile	72.5	70	60	50	50	50	40	50
	50th percentile	80	80	80	70	60	60	50	70
	75th percentile	95	90	90	85	80	80	70	90

Problems reported by dimension

		Age													
		18–24		25–34		35-44		45–54		55-64		65–74		75+	
Total		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	285	98.3	683	97.0	696	95.3	90/	88.5	492	78.8	368	64.8	197	42.6
	Some problems	5	1.7	19	2.7	46	4.5	85	10.7	129	20.7	193	34.0	239	51.7
	Confined to bed	0	0.0	2	0.3	2	0.2	7	6.0	33	0.5	7	1.2	26	5.6
Self-care	No problems	287	0.66	069	0.86	1,007	9.86	770	96.5	581	93.1	519	91.4	331	71.6
	Some problems	2	0.7	11	1.6	12	1.2	23	2.9	39	6.3	37	6.5	92	19.9
	Unable to	П	0.3	ϵ	0.4	2	0.2	5	9.0	4	9.0	12	2.1	39	8.4
Usual activities	No problems	283	9.76	682	2.96	996	94.6	718	0.06	515	82.5	417	73.4	229	49.6
	Some problems	4	1.4	17	2.4	52	5.1	69	8.6	94	15.1	129	22.7	172	37.2
	Unable to	\mathcal{E}	1.0	9	6.0	3	0.3	11	1.4	15	2.4	22	3.9	61	13.2
Pain/discomfort	No	244	84.4	999	79.4	720	70.5	496	62.2	298	47.8	240	42.3	145	31.4
	Some	42	14.5	131	18.6	254	24.9	244	30.6	238	38.1	250	0.44	232	50.2
	Extreme	3	1.0	14	2.0	47	4.6	58	7.3	88	14.1	78	13.7	85	18.4
Anxiety/depression	No	251	9.98	297	84.9	815	80.1	695	71.3	395	63.3	403	71.0	284	61.7
	Some	34	11.7	68	12.7	175	17.2	177	22.2	172	27.6	130	22.9	141	30.7
	Extreme	S	1.7	17	2.4	27	2.7	52	6.5	57	9.1	35	6.2	35	7.6
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		Age													
		18–24		25–34		35–44		45–54		55–64		65–74		75+	
Males		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	127	98.4	316	6.96	415	2.96	309	91.2	196	82.7	180	75.0	81	54.0
	Some problems	2	1.6	∞	2.5	14	3.3	26	7.7	40	16.9	57	23.8	62	41.3
	Confined to bed	0	0.0		9.0	0		4		_	0.4	ε	1.3	7	4.7
Self-care	No problems	128	99.2	319	6.76	428		330		224	94.5	225	93.8	120	80.0
	Some problems	1	8.0	5	1.5	ε	0.7	S		12	5.1	10	4.2	20	13.3
	Unable to	0	0.0	2	9.0	0	0.0	4		_	0.4	5	2.1	10	6.7
Usual activities	No problems	127	98.4	316	9.96	415	96.3	313		207	87.3	197	82.1	68	59.3
	Some problems	1	8.0	9	1.8	15	3.5	18		25	10.5	34	14.2	50	33.3
	Unable to	_	8.0	5	1.5	_	0.2	%		5	2.1	6	3.8	11	7.3
Pain/discomfort	No	1117	200.7	277	84.7	322	74.7	239		135	57.0	132	55.0	62	41.3
	Some	12	9.3	4	13.5	94	21.8	88		80	33.8	92	38.3	70	46.7
	Extreme	0	0.0		1.8	15		12		22	9.3	16	6.7	18	12.0
Anxiety/depression	No	116	6.68	280	86.2	362	84.4	270	270 79.6	180	180 75.9	202	84.2	116	6.77
	Some	12	9.3	40	12.3	62		99		47	19.8	31	12.9	30	20.1
	Extreme		8.0	2	1.5	5	1.2	13		10	4.2	7	2.9	3	2.0

		Age													
		18–24		25–34		35–44		45–54		55-64		65–74		75+	
Females		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	158	98.1	367	97.1 554 94.2	554	94.2		86.5	596	76.5	188	57.3	116	37.2
	Some problems	ε	1.9	11	2.9	32	5.4		12.9	68	23.0	136	41.5	177	56.7
	Confined to bed	0	0.0	0	0.0	2	0.3		0.7	2	0.5	4	1.2	19	6.1
Self-care	No problems	159	8.86	371	98.1	579	98.1		95.9	357	92.2	294	9.68	211	9.79
	Some problems	1	9.0		1.6	6	1.5		18 3.9	27 7.0	7.0	27	8.2	72	23.1
	able to	-	9.0	1	0.3	2	0.3		0.2	33	8.0	7	2.1	59	9.3
Usual activities	problems	156	6.96	366	8.96	551	93.4		88.2	308	9.62	220	67.1	140	44.9
	Some problems	\mathcal{E}	1.9	11	2.9	37	6.3		11.1	69	17.8	95	29.0	122	39.1
	Unable to	2	1.2	1	0.3	2	0.3		0.7	10	2.6	13	4.0	50	16.0
Pain/discomfort		127	79.4	283	74.9	398	67.5		56.0	163	42.1	108	32.9	83	26.6
		30	18.8	87	23.0	160	27.1		34.0	158	40.8	158	48.2	162	51.9
	ie	8	1.9	8	2.1	32	5.4		10.0	99	17.1	62	18.9	29	21.5
Anxiety/depression		135	83.9	317	83.9	453	77.0		65.1	215	55.6	201	61.3	168	54.0
		22	13.7	49	13.0	113	19.2		26.4	125	32.3	66	30.2	1111	35.7
	Extreme	4	2.5	12	3.2	22	3.7		8.5	47	12.1	28	8.5	32	10.3

EQ-5D index value (European VAS value set)

EQ-5D ind	lex value	Age							
(European		18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.930	0.910	0.878	0.825	0.753	0.736	0.619	0.815
	Standard error	0.008	0.006	0.006	0.008	0.010	0.011	0.013	0.003
	25th percentile	1.00	0.78	0.78	0.69	0.63	0.66	0.42	0.69
	50th percentile	1.00	1.00	1.00	1.00	0.78	0.78	0.69	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.78	1.00
Males	Mean	0.953	0.921	0.901	0.866	0.813	0.814	0.710	0.863
	Standard error	0.010	0.009	0.008	0.010	0.014	0.014	0.021	0.005
	25th percentile	1.00	0.78	0.78	0.78	0.71	0.71	0.60	0.78
	50th percentile	1.00	1.00	1.00	1.00	0.78	0.78	0.75	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.911	0.902	0.862	0.794	0.716	0.679	0.575	0.780
	Standard error	0.012	0.008	0.008	0.011	0.013	0.014	0.016	0.005
	25th percentile	0.78	0.78	0.78	0.69	0.57	0.48	0.33	0.69
	50th percentile	1.00	1.00	1.00	0.78	0.78	0.71	0.62	0.78
	75th percentile	1.00	1.00	1.00	1.00	1.00	0.78	0.78	1.00

Spain (Catalonia)

Source: Catalunya Health Survey (2010–2011)

Number of respondents

Age	18-24	25–34	35–44	45–54	55–64	65–74	75+	Total
Total	454	1,015	970	842	968	563	791	5,603
Males	228	525	506	426	483	274	368	2,810
Females	226	490	464	416	485	289	423	2,793

		Age							
EQ-VAS (self-rated)	18–24	25-34	35–44	45–54	55–64	65–74	75+	Total
Total	Mean	82.4	79.3	77.5	72.7	67.6	63.6	54.4	72.3
	Standard error	0.8	0.6	0.6	0.7	0.7	1.0	0.9	0.3
	25th percentile	80	70	70	65	60	50	40	60
	50th percentile	85	80	80	80	70	70	60	80
	75th percentile	90	90	90	85	80	80	70	90
Males	Mean	83.1	79.7	78.9	74.4	69.6	66.8	58.5	74.6
	Standard error	1.1	0.8	0.8	0.9	0.9	1.3	1.2	0.4
	25th percentile	80	75	70	70	60	50	50	70
	50th percentile	85	80	80	80	70	70	60	80
	75th percentile	90	90	90	85	80	80	70	90
Females	Mean	81.7	79.0	76.0	70.9	65.6	60.8	51.9	70.0
	Standard error	1.0	0.8	0.8	1.0	1.0	1.4	1.2	0.4
	25th percentile	75	70	70	60	50	50	40	60
	50th percentile	80	80	80	75	70	60	50	75
	75th percentile	90	90	90	80	80	80	70	85

Problems reported by dimension (raw numbers, weighted proportions)

		Age													
		18–24		25–34		35–44		45–54		55–64		65–74		75+	
Total		u	%	u	%	u	%	п	%	u	%	п	%	u	%
Mobility	No problems	443	1.76	986	96.5	927	95.7	771	91.4	804	82.5	410	72.1	315	43.1
	Some problems	10	2.2	28	3.4	41	4.0	69		159	17.0	148	27.1	439	53.0
	Confined to bed	_	0.1	-	0.1	2	0.3	2		5	0.5	5	8.0	37	3.9
Self-care	No problems	450	99.1	1,003	7.86	856	0.66	821		932	96.3	519	91.8	527	70.7
	Some problems	ε	8.0	9 1.0	1.0	10 0.7	0.7	17 2.2		32 3.4	3.4	37 7.2	7.2	153	17.9
	Unable to	1	0.1	3	0.4	2	0.2	4		4	0.4	7	1.0	1111	11.3
Usual activities	No problems	450	6.86	984	96.5	938	8.96	787		860	87.5	472	83.1	420	56.5
	Some problems	4	1.1	23	2.5	29	2.9	4		95	10.9	70	13.3	206	24.9
	Unable to	0	0.0	∞	1.0	ε	0.3	11		13	1.6	21	3.7	165	18.6
Pain/discomfort		403	9.88	698	85.2	774	78.4	593		545	54.4	283	49.1	295	37.1
		51	11.4	130	12.9	177	19.8	214		348	37.2	211	37.6	366	45.3
	Extreme	0	0.0	16	1.9	19	1.8	35		75	8.4	69	13.3	130	17.6
Anxiety/depression		426	93.2	868	87.7	842	85.3	673		734	75.0	399	70.9	537	0.99
	Some	26	6.3	86	10.2	115	13.6	142		191	20.1	131	22.5	209	27.3
	Extreme	2	9.0	19	2.2	13	1.1	27		43	4.9	33	9.9	45	6.7

		Age													
		18–24		25–34		35–44		45–54		55–64		65–74		75+	
Males		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	222	6.76	208	6.96	490	97.1	394	92.7		85.4	221	81.0	157	49.2
	Some problems	5	1.9	16	3.5	15	2.7	31	6.9	69	14.0	51	18.2	199	48.3
	Confined to bed	_	0.2	-	0.3	_	0.3	-	0.3		9.0	7	8.0	12	2.6
Self-care	No problems	225	6.86	516	0.86	501	99.1	419	98.5		97.0	257	93.2	264	79.2
	Some problems	2	6.0	9	1.2	4	0.7	5	1.1	13	2.7	14	6.1	58	13.7
	Unable to	_	0.2	\mathcal{C}	0.7	_	0.3	2	0.4	_	0.3	3	0.7	46	7.1
Usual activities	No problems	225	98.5	506	95.7	493	97.4	398	93.4	446	91.4	244	88.8	224	68.9
	Some problems	3	1.5	13	2.8	11	2.3	22	5.3	30	6.9	22	8.3	81	19.4
	Unable to	0	0.0	9	1.5		0.4	9	1.3	7	1.7	∞	2.9	63	11.7
Pain/discomfort	No	206	6.68	466	89.1	427	84.4	335	79.2	327	67.2	171	61.7	170	49.8
	Some	22	10.1	52	9.3		14.9	84	19.5	138	29.0	85	31.8	165	42.4
	Extreme	0	0.0	7	1.5		0.7	7	1.3	18	3.8	18	6.5	33	7.8
Anxiety/depression	No	216	95.1	484	92.3	452	9.78	363	85.1	392	81.1	210	8.92	279	9.92
	Some	11	4.4	33	0.9		11.3	54	12.6	80	16.4	99	20.1	77	20.6
	Extreme	1	9.0	∞	1.7	9	1.1	6	2.3	11	2.5	∞	3.0	12	2.7
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		Age													
		18–24		25–34		35–44		45–54		55–64		65–74		75+	
Females		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	221	97.4	478	8.96	437	94.1	377	0.06	393	8.62	189	64.3	158	39.4
	Some problems	5	2.6	12	3.2	26	5.5	38	9.6	90	19.9	76	34.9	240	55.9
	Confined to bed	0	0.0	0	0.0	1	0.3	1	0.3	2	0.3	3	8.0	25	4.7
Self-care	No problems	225	99.4	487	99.3	457	0.66	402	0.96	463	92.6	262	9.06	263	65.5
	Some problems	П	9.0	ϵ	0.7	9	8.0	12	3.3	19	4.0	23	8.1	95	20.6
	Unable to	0	0.0	0	0.0	1		2		3	0.4	4	1.2	65	13.9
Usual activities	No problems	225	99.4	478	97.3	445		389		414	83.9	228	78.0	196	48.7
	Some problems	_	9.0	10	2.1	18		22		65	14.7	48	17.6	125	28.4
	Unable to	0	0.0	2	0.5	1		5		9	1.4	13	4.3	102	22.9
Pain/discomfort	No	197	87.3	403	81.0	347		258		218	42.3		37.9	125	29.2
	Some	29	12.7	78	16.7	103		130		210	45.0	126	42.7	201	47.1
	Extreme	0	0.0	6	2.3	14		28		57	12.7		19.4	26	23.7
Anxiety/depression	No	210	91.2	414	82.7	390		310		342	69.2	189	65.7	258	59.4
	Some	15	8.3	65	14.6	29		88		1111	23.5	75	24.6	132	31.4
	Extreme	1	9.0	11	2.7	7	1.1	18	4.8	32	7.3		6.7	33	9.2

EQ-5D index value (European VAS value set)

EQ-5D inc	lex value	Age							
(European		18–24	25-34	35–44	45-54	55–64	65–74	75+	Total
Total	Mean	0.958	0.929	0.914	0.871	0.807	0.762	0.623	0.853
	Standard error	0.005	0.005	0.005	0.007	0.008	0.012	0.012	0.003
	25th percentile	1.00	1.00	0.78	0.78	0.71	0.69	0.39	0.78
	50th percentile	1.00	1.00	1.00	1.00	0.78	0.78	0.69	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.81	1.00
Males	Mean	0.962	0.944	0.932	0.908	0.859	0.829	0.715	0.895
	Standard error	0.007	0.007	0.007	0.008	0.009	0.014	0.016	0.004
	25th percentile	1.00	1.00	0.85	0.78	0.78	0.71	0.60	0.78
	50th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.78	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.954	0.913	0.895	0.835	0.758	0.703	0.566	0.812
	Standard error	0.008	0.008	0.008	0.012	0.012	0.017	0.017	0.005
	25th percentile	1.00	0.78	0.78	0.75	0.69	0.48	0.30	0.69
	50th percentile	1.00	1.00	1.00	1.00	0.78	0.78	0.62	1.00
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.78	1.00

Sweden (Stockholm County) Source: Sun et al. (2012) Number of respondents

Age	18-24	25-34	35–44	45–54	55–64	65–74	75+	Total
Total	2,686	5,299	6,523	5,625	6,203	3,925	2,336	32,597
Males	1,155	2,169	2,901	2,565	2,973	1,855	1,018	14,636
Females	1,531	3,130	3,622	3,060	3,230	2,070	1,318	17,961

		Age							
EQ-VAS (self-rated)	18–24	25-34	35–44	45–54	55–64	65–74	75+	Total
Total	Mean	81.7	81.5	80.7	79.2	78.1	75.9	68.5	78.7
	Standard error	0.3	0.2	0.2	0.2	0.3	0.3	0.5	0.1
	25th percentile	85	85	85	82	80	80	75	73
	50th percentile	75	75	75	70	70	70	50	84
	75th percentile	90	90	90	90	90	90	85	90
Males	Mean	84.1	82.3	81.7	79.4	79.1	76.8	70.1	79.6
	Standard error	0.4	0.3	0.3	0.3	0.3	0.4	0.7	0.1
	25th percentile	88	85	85	80	85	80	75	75
	50th percentile	80	75	75	70	70	70	50	84
	75th percentile	95	90	90	90	90	90	85	90
Females	Mean	79.9	81.0	80.0	79.0	77.2	75.0	67.2	78.0
	Standard error	0.4	0.3	0.3	0.3	0.4	0.5	0.6	0.1
	25th percentile	84	85	85	84	80	80	70	73
	50th percentile	70	75	75	70	70	65	50	82
	75th percentile	90	90	90	90	90	90	85	89

Problems reported by dimension

		Age													
		18–24		25–34		35–44		45–54		55–64		65–74		75+	
Total		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	2,611	97.2	5,145	97.1	6,178	94.7	5,055	6.68	5,220	84.2		79.5	1,488	63.7
	Some problems	73	2.7	148	2.8	341	5.2	562	10.0	972	15.7		20.3	830	35.5
	Confined to bed	2	0.1	9	0.1	4	0.1	8	0.1	11	0.2	6	0.2	18	8.0
Self-care	No problems	2,664	99.2	5,276	9.66	6,446	8.86	5,494	7.76	6,037	97.3		97.4	2,161	92.5
	Some problems	16	9.0	16	0.3	64	1.0	110	2.0	131	2.1		2.2	123	5.3
	Unable to	9	0.2	7	0.1	13	0.2	21	0.4	35	9.0		0.4	52	2.2
Usual activities	No problems	2,517	93.7	5,004	94.4	6,033	92.5	4,967	88.3	5,312	85.6		9.68	1,852	79.3
	Some problems	156	5.8	260	4.9	426	6.5	579	10.3	788	12.7		8.9	366	15.7
	Unable to	13	0.5	35	0.7	64	1.0	79	1.4	103	1.7		1.5	118	5.1
Pain/discomfort	No	2,012	74.9	3,665	69.2	4,017	61.6	2,904	51.6	2,785	44.9		41.8	826	35.4
	Some	652	24.3	1,558	29.4	2,326	35.7	2,477	44.0	3,081	49.7		53.8	1,347	57.7
	Extreme	22	8.0	9/	1.4	180	2.8	244	4.3	337	5.4		4.4	163	7.0
Anxiety/depression	No	1,603	59.7	3,309	62.4	4,395	67.4	3,755	8.99	4,338	6.69		74.6	1,598	68.4
	Some	993	37.0	1,863	35.2	1,971	30.2	1,667	29.6	1,700	27.4		23.8	889	29.5
	Extreme	06	3.4	127	2.4	157	2.4	203	3.6	165	2.7		1.6	20	2.1
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		Age													
		18–24		25–34		35-44		45–54		55–64		65–74		75+	
Males		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	1,130	8.76		97.3		95.4		8.06		86.2		81.9	169	6.79
	Some problems	23	2.0	53	2.4	131	4.5	233	9.1	404	13.6	331	17.8	320	31.4
	Confined to bed	2			0.2		0.1		0.2		0.2		0.3	7	0.7
Self-care	No problems	1,141			7.66		28.7		7.76		9.76		8.76	950	93.3
	Some problems	12			0.1		1.0		2.0		1.8		2.1	49	4.8
	Unable to	2			0.2		0.3		0.4		0.5		0.2	19	1.9
Usual activities	No problems	1,082			95.3		94.7		90.3		88.5		91.1	842	82.7
	Some problems	70			4.2		4.5		8.5		10.0		7.8	137	13.5
	Unable to	33			0.4		8.0		1.3		1.6		1.2	39	3.8
Pain/discomfort	No	916			73.3		65.4		55.2		50.3		48.3	425	41.8
	Some	233			25.6		32.5		41.8		45.2		48.5	539	53.0
	Extreme	9			1.1		2.2		3.0		4.6		3.3	54	5.3
Anxiety/depression	No	818			68.3		72.5		70.9		75.5		7.67	770	75.6
	Some	309			29.5		25.5		26.2		21.9		19.1	235	23.1
	Extreme	28		47	2.2		2.0		2.8		2.6		1.2	13	1.3

		Age													
		18–24		25–34		35-44		45–54		55-64		65–74		75+	
Females		u	%	_	%	u	%	u	%	u	%	u	%		%
Mobility	No problems	1,481	1 96.7 3	,034	6'96	3,411		2,727	89.1	2,658	82.3	1,602	77.4	<i>1</i> 6 <i>L</i>	60.5
		50	3.3	95	3.0	210		329	10.8	568	17.6	464	22.4	510	38.7
		0	0.0	1	0.0	1		4	0.1	4	0.1	4	0.2	11	8.0
Self-care	No problems	1,523	99.5	,113	99.5	3,582	6.86	2,989	7.76	3,134	97.0	2,008	97.0	1,211	91.9
		4	0.3	14	0.4	35		09	2.0	77	2.4	49	2.4	74	5.6
		4	0.3	ω	0.1	5		11	0.4	19	9.0	13	9.0	33	2.5
Usual activities		1,435	93.7	,936	93.8	3,285		2,652	86.7	2,682	83.0	1,829	88.4	1,010	9.92
		98	5.6	168	5.4	295		362	11.8	491	15.2	204	6.6	229	17.4
		10	0.7	26	8.0	42		46	1.5	57	1.8	37	1.8	79	0.9
Pain/discomfort		1,096	71.6	,075	66.3	2,121		1,488	48.6	1,291	40.0	746	36.0	401	30.4
	Some	419	27.4	,002	32.0	1,384		1,405	45.9	1,738	53.8	1,213	58.6	808	61.3
		16	1.0	53	1.7	117		167	5.5	201	6.2	1111	5.4	109	8.3
Anxiety/depression		785	51.3	,827	58.4	2,292		1,936	63.3	2,093	64.8	1,450	70.1	828	62.8
		684	44.7	,223	39.1	1,232		994	32.5	1,049	32.5	580	28.0	453	34.4
	,	62	4.1	80	2.6	86		130	4.3	88	2.7	40	1.9	37	2.8

EQ-5D index value (European VAS value set)

EQ-5D inc	lex value	Age							
(European		18-24	25-34	35–44	45-54	55-64	65-74	75+	Total
Total	Mean	0.860	0.860	0.850	0.820	0.800	0.800	0.740	0.824
	Standard error	0.003	0.002	0.002	0.003	0.003	0.003	0.005	0.001
	25th percentile	0.85	0.78	0.78	0.78	0.78	0.78	0.78	0.79
	50th percentile	0.78	0.78	0.78	0.69	0.69	0.71	0.69	0.73
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Males	Mean	0.890	0.880	0.870	0.830	0.820	0.830	0.780	0.845
	Standard error	0.004	0.003	0.003	0.004	0.003	0.004	0.007	0.001
	25th percentile	1.00	1.00	1.00	0.78	0.78	0.78	0.78	0.87
	50th percentile	0.78	0.78	0.78	0.75	0.71	0.71	0.69	0.75
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Females	Mean	0.840	0.840	0.830	0.800	0.780	0.780	0.720	0.805
	Standard error	0.004	0.003	0.003	0.004	0.004	0.004	0.007	0.001
	25th percentile	0.78	0.78	0.78	0.78	0.78	0.78	0.76	0.78
	50th percentile	0.78	0.78	0.71	0.69	0.69	0.69	0.62	0.71
	75th percentile	1.00	1.00	1.00	1.00	1.00	1.00	0.78	0.98

Zimbabwe (Harare) Source: Jelsma (2003) Number of respondents

Age	18-24	25-34	35–44	45-54	55–64	65-74	75+	Total
Total	1,087	772	264	162	49	16	0	2,350
Males	408	308	95	62	20	8	0	901
Females	679	464	169	100	29	8	0	1,449

		Age							
EQ-VAS (self-rated)	18-24	25-34	35-44	45-54	55-64	65-74	75+	Total
Total	Mean	81.8	79.8	76.6	75.1	70.5	61.5	_	79.8
	Standard error	0.5	0.6	1.2	1.6	2.6	4.5	-	0.4
	25th percentile	70	70	61	60	50	50	_	70
	50th percentile	90	80	80	80	78	65	_	84
	75th percentile	96	91.25	90	90	82	72	_	94
Males	Mean	83.0	81.7	77.9	79.0	79.9	65.2	-	81.5
	Standard error	0.8	0.9	2.1	2.3	2.9	7.2	-	0.6
	25th percentile	71.5	70	70	67	79.5	50	_	70
	50th percentile	90	84	84	84	80	60	_	87
	75th percentile	96	92	92	91	86	80.75	-	94
Females	Mean	81.2	78.6	75.8	72.8	64.1	58.3	-	78.7
	Standard error	0.7	0.8	1.5	2.1	3.4	5.9	-	0.5
	25th percentile	70	70	60	50	50	40	_	66
	50th percentile	88	80	80	76	58	66	-	80
	75th percentile	96	90	90	90	80	72	-	92

Problems reported by dimension

		Age													1
		18–24		25–34		35–44		45–54		55–64	4	65–74	74	75+	
Total		u	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	943	93.6	959	656 92.8	205	85.8	105	73.4	27	61.4	5	38.5	ı	ı
	Some problems	64	6.4	49	6.9	34	14.2	38	26.6	17	38.6	7	53.8	I	I
	Confined to bed	0	0.0	2	0.3	0	0.0	0	0.0	0	0.0	1	7.7	I	I
Self-care	No problems	975	97.0	069	0.86	225	225 95.3	134	134 93.7	38	86.4	6	75.0	I	I
	Some problems	29	2.9	13	1.8	11	4.7	6	6.3	9	13.6	7	16.7	I	I
	Unable to	1	0.1	1	0.1	0	0.0	0	0.0	0	0.0	1	8.3	I	I
Usual activities	No problems	930		634	8.68	199	83.6	112	78.9	28	63.6	∞	61.5	I	I
	Some problems	71		89	9.6	38	16.0	27	19.0	16	36.4	4	30.8	I	I
	Unable to	2		4	9.0	1	0.4	ε	2.1	0	0.0	1	7.7	I	I
Pain/discomfort		754		503	71.3	149	62.3	69	48.3	19	43.2	ϵ	23.1	I	I
	Some	224		176	25.0	69	28.9	29	46.9	22	50.0	∞	61.5	I	I
		32		26	3.7	21	8.8	7	4.9	33	8.9	7	15.4	ı	ı
Anxiety/depression		756		500	70.7	136	57.1	78	54.9	17	38.6	9	46.2	ı	I
		202		171	24.2	49	26.9	47	33.1	23	52.3	5	38.5	I	I
	Extreme	52		36	5.1	38	16.0	17	12.0	4	9.1	7	15.4	ı	I

		Age													
		18–24		25–34		35–44	4	45–54	4	55–64	4	65–74	74	75+	
Males		п	%	u	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	358	0.96	261	94.2	9/	89.4	47	85.5	16	6.88	3	50.0	ı	ı
	Some problems	15	4.0	15	5.4	6	10.6	∞	14.5	7	11.1	ε	50.0	ı	I
	Confined to bed	0	0.0	П	0.4	0	0.0	0	0.0	0	0.0	0	0.0	ı	ı
Self-care	No problems	357	96.2	569	98.2	9/	90.5	51	92.7	17	94.4	5	100.0	I	I
	Some problems	14	3.8	4	1.5	8	9.5	4	7.3	_	5.6	0	0.0	I	I
	Unable to	0	0.0	_	0.4	0		0	0.0	0	0.0	0	0.0	I	I
Usual activities	No problems	348	93.5	250	9.06	69		48		17	94.4	5	83.3	ı	ı
	Some problems	24	6.5	24	8.7	15		9		_	5.6	1	16.7	ı	ı
	Unable to	0	0.0	2	0.7	_		П	1.8	0	0.0	0	0.0	I	I
Pain/discomfort	No	298	79.9	205	74.3	54	63.5	34	61.8	11	61.1	2	33.3	I	I
	Some	49	17.2	99	23.9	25	29.4	21	38.2	7	38.9	ϵ	50.0	ı	I
	Extreme	11	2.9	5	1.8	9	7.1	0	0.0	0	0.0	-	16.7	I	I
Anxiety/depression	No	288	77.2	200	72.5	54	63.5	33	0.09	∞	4.4	-	16.7	ı	I
	Some	73	19.6	64	23.2	22	25.9	18	32.7	∞	4.4	4	2.99	ı	I
	Extreme	12	3.2	12	4.3	6	10.6	4	7.3	2	11.1	-	16.7	ı	ı
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		Age													
		18–24		25–34	1	35–44		45–54	4	55–64	1	65–74	4	75+	
Females		u	%	п	%	u	%	u	%	u	%	u	%	u	%
Mobility	No problems	585	92.3	395	91.9	129	83.8	28	62.9	11	42.3	2	28.6	ı	ı
	Some problems	49	7.7	34	7.9	25	16.2	30	34.1	15	57.7	4	57.1	ı	ı
	Confined to bed	0	0.0	_	0.2	0	0.0	0	0.0	0	0.0	1	14.3	I	ı
Self-care	No problems	618	97.5	421	6.76	149	0.86	83	94.3	21	80.8	4	57.1	I	I
	Some problems	15	2.4	6	2.1	\mathcal{E}	2.0	5	5.7	5	19.2	7	28.6	I	I
	Unable to	_	0.2	0	0.0	0	0.0	0	0.0	0	0.0	_	14.3	I	I
Usual activities	No problems	582	92.2	384	89.3	130	85.0	64	73.6	111	42.3	ϵ	42.9	ı	ı
	Some problems	47	7.4	44	10.2	23	15.0	21	24.1	15	57.7	ϵ	42.9	I	ı
	Unable to	2	0.3	2	0.5	0	0.0	2	2.3	0	0.0	_	14.3	I	ı
Pain/discomfort	No	456	71.6	298	69.5	95	61.7	35	39.8	8	30.8	-	14.3	I	I
	Some	160	25.1	110	25.6	44	28.6	46	52.3	15	57.7	5	71.4	I	ı
	Extreme	21	3.3	21	4.9	15	6.7	7	8.0	ε	11.5	-	14.3	ı	ı
Anxiety/depression	No	468	73.5	300	9.69	82	53.6	45	51.7	6	34.6	5	71.4	ı	ı
	Some	129	20.3	107	24.8	42	27.5	29	33.3	15	57.7	_	14.3	I	ı
	Extreme	40	6.3	24	5.6	29	19.0	13	14.9	2	7.7	1	14.3	1	1

EQ-5D index value (European VAS value set)

EQ-5D inc	lex value	Age							
(European		18–24	25-34	35–44	45–54	55–64	65–74	75+	Total
Total	Mean	0.867	0.859	0.774	0.750	0.697	0.607	_	0.842
	Standard error	0.006	0.007	0.015	0.019	0.030	0.086	-	0.004
	25th percentile	0.78	0.78	0.63	0.62	0.60	0.46	_	0.72
	50th percentile	1.00	1.00	0.78	0.75	0.69	0.61	_	1.00
	75th percentile	1.00	1.00	1.00	1.00	0.78	0.78	_	1.00
Males	Mean	0.889	0.880	0.803	0.815	0.770	0.625	_	0.868
	Standard error	0.009	0.011	0.025	0.026	0.036	0.125	-	0.006
	25th percentile	0.78	0.78	0.65	0.69	0.68	0.36	_	0.78
	50th percentile	1.00	1.00	0.89	0.78	0.78	0.62	_	1.00
	75th percentile	1.00	1.00	1.00	1.00	0.85	0.89	_	1.00
Females	Mean	0.854	0.846	0.757	0.709	0.647	0.594	_	0.826
	Standard error	0.007	0.009	0.019	0.026	0.042	0.125	-	0.006
	25th percentile	0.78	0.76	0.62	0.58	0.59	0.57	_	0.69
	50th percentile	1.00	1.00	0.78	0.71	0.62	0.60	_	0.81
	75th percentile	1.00	1.00	1.00	1.00	0.78	0.78	-	1.00

EQ-5D index value (TTO value set)

EQ-5D ind	lex value	Age							
(TTO value		18–24	25-34	35–44	45–54	55-64	65–74	75+	Total
Total	Mean	0.906	0.898	0.834	0.820	0.775	0.678	_	0.886
	Standard error	0.004	0.005	0.012	0.014	0.024	0.087	-	0.003
	25th percentile	0.83	0.83	0.73	0.73	0.69	0.64	_	0.79
	50th percentile	1.00	1.00	0.85	0.80	0.79	0.71	_	1.00
	75th percentile	1.00	1.00	1.00	1.00	0.85	0.85	_	1.00
Males	Mean	0.920	0.914	0.854	0.868	0.843	0.740	_	0.905
	Standard error	0.006	0.008	0.020	0.018	0.023	0.092	-	0.005
	25th percentile	0.83	0.83	0.73	0.79	0.78	0.56	_	0.83
	50th percentile	1.00	1.00	0.93	0.85	0.83	0.73	_	1.00
	75th percentile	1.00	1.00	1.00	1.00	0.89	0.93	_	1.00
Females	Mean	0.897	0.887	0.824	0.789	0.727	0.634	_	0.874
	Standard error	0.005	0.007	0.015	0.019	0.034	0.138	-	0.004
	25th percentile	0.83	0.81	0.73	0.69	0.68	0.64	_	0.79
	50th percentile	1.00	1.00	0.84	0.79	0.73	0.69	_	0.85
	75th percentile	1.00	1.00	1.00	1.00	0.84	0.83	-	1.00

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