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UK Population Norms for EQ-5D

Paul Kind
Geoffrey Hardman
Susan Macran

DISCUSSION PAPER 172

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THE AUTHORS

Paul Kind (Senior Research Fellow) and Susan Macran (Research Fellow) are members of the York Health Outcomes Research Group at the Centre for Health Economics. Geoff Hardman (Research Fellow) is a member of the Statistical Support Group, also at the Centre for Health Economics.

ACKNOWLEDGEMENTS

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ABSTRACT

This discussion paper presents data from the Department of Health funded Measurement and Valuation of Health survey conducted at the Centre for Health Economics in 1993. This was a nationally representative interview survey of 3395 men and women aged 18 or over living in the UK. Amongst other things, the survey collected information on health status using the EuroQoL (EQ-5D) descriptive system. The data is presented as a series of tables of age/sex population norms for the EQ-5D, for both self rated health status and weighted health state index. The tables are likely to be useful for researchers, clinicians, health care providers and policy makers, who are using EQ-5D to evaluate health care and who require baseline values for comparative purposes or for monitoring population variations in health.

INTRODUCTION

The Measurement and Valuation of Health (MVH) project was funded at the Centre for Health Economics between 1987-1995, by the Department of Health with the remit of developing practical ways for measuring health-related quality of life. Part of that task involved undertaking a national survey to elicit health state valuations from a representative sample of the UK population. The findings from the project have already been extensively reported (Dolan et al, 1995; Williams et al, 1995; Kind et al, 1998).

The survey's principal objective was to collect data on health state valuations using a Time Trade Off (TTO) procedure. However, the survey also gathered data on self-reported health status using the EuroQoL EQ-5D descriptive classification system. EQ-5D is a generic measure of health status which defines health in terms of five dimensions: mobility, self-care, usual activities, pain or discomfort and anxiety or depression. Each dimension is subdivided into three levels which correspond to whether a respondent has no problems, moderate problems or extreme problems. EQ-5D also requires respondents to indicate how good or bad their current health state is on a visual analogue scale (VAS), where 0 represents their worst imagined health state and 100 represents their best imagined health state.

Respondents "health status" can be expressed as their score on the visual analogue scale ($EQ\text{-}5D_{vas}$), as a health profile of their scores on the five dimensions or as a unique health state, by combining the different levels from each dimension; EQ-5D defines a total of 243 theoretically possible health states. Each unique health state can be transformed into a weighted health state index score ($EQ\text{-}5D_{index}$) using one of the tariffs which were derived from the health valuation part of the survey (Dolan, et al 1995).

This discussion paper presents a series of tables of age/sex population norms for EQ-5D, for both self rated health status ($EQ\text{-}5D_{vas}$) using the visual analogue scale and weighted health state index score ($EQ\text{-}5D_{index}$)[1]. The tables are likely to be useful for researchers, clinicians health care providers and policy makers who maybe using EQ-5D to evaluate health care and who require baseline values for comparative purposes.

METHOD

Sampling

A total of 6080 addresses in the UK were selected using a strategy designed to generate a sample which was representative of the general population with respect to age, gender and social class (see Erens, 1994). Twelve percent of the selected addresses were non-productive in that they were non-residential, empty or untraceable. Individuals in institutions, hostels, homes for the elderly, or bed and breakfast accommodation, were excluded from the sample. Twenty-four percent of individuals who were contacted refused to take part. The final sample consisted of 3395 individuals aged 18 or over. The characteristics of the achieved sample were very similar to those of the general population, as can be seen in Table 1.

[1] The data was weighted using the tariff derived from mean values based on individual TTO scores. This is the basic tariff recommended by the MVH group when a weighting system is required for use in economic evaluation.

Table 1 : Characteristics of MVH survey population compared to general population

	Health Related Quality of Life survey[1]	General population
Men	46%	48% (1991 census)
aged under 60	34%	37%
Women	54%	52%
aged under 60	41%	37%
Social class		
I/II	30%	30% (1991 census)
IIIN/IIIM	46%	43%
IV/V	25%	24%
Marital status		
single	17%	21% (1992 GHS)
married/cohabiting	60%	64%
separated/divorced/ widowed	15%	23%
Housing tenure		
owner occupier	70%	70% (1991 Census)
Economic activity		
In employment/seeking employment	59%	61% (1991 Census)
retired	19%	20%
permanently sick/disabled	4%	4%
other	19%	17%

[1] For comparison with the Census, the MVH survey data has been weighted to account for the effect of household size on selection probabilities. For comparison with the GHS, data is unweighted.contained fewer individuals who were married or cohabiting and more divorced and widowed respondents than in the general population.

The proportion of men included in the survey is slightly lower than that found in the general population, and this under-sampling extends to the older aged male respondents. Correspondingly there is a higher proportions of women respondents. The sample also contained fewer individuals who were married or cohabiting and more divorced and widowed responders than in the general population.

Data Collection

Face-to-face interviews were conducted in the respondent's home. As part of the initial phase of the interview respondents were asked to complete a 2-page questionnaire based on the standard format adopted by the EuroQoL Group (see Appendix A). The first of these pages is designed to record information on self-reported problems with each of the 5 dimensions. The second page of the questionnaire records the respondent's self-perceived health status on a standardised 20 centimetre visual analogue scale. Details about the personal background of each respondent were recorded separately by the interviewer. This included information on age, sex, marital status, educational attainment, employment status, housing tenure and smoking behaviour. Interviews took place during the last quarter of 1993. Fieldwork was conducted in association with Social and Community Planning and Research based in London.

Table 2 shows the item response rates for each EQ-5D dimension and for the visual analogue scale.

Calculating the weighted health state index score ($\textbf{EQ-5D}_{\textbf{index}}$)

The 243 health states defined by the EuroQoL classification can be converted into a weighted health state index score using the table of values in Appendix B. These values were calculated using a regression model developed using the TTO data collected by the MVH survey (Dolan et al, 1995). The following worked example demonstrates how the coefficients obtained from the regression model (shown in table 3) were used to compute the weighted value for each health state.

Table 2: Item response rates

Item	Number of cases responding to this item	Number of cases missing on this item
Mobility	3388	7
Self Care	3386	9
Usual Activities	3387	8
Pain/Discomfort	3387	8
Anxiety/Depression	3389	6
Visual Analogue Scale	3381	14

Table 3: Coefficients for EQ-5D health states

EuroQoL dimension	Coefficient Level 2	Coefficient Level 3
Mobility	0.069	0.314
Self-care	0.104	0.214
Usual activity	0.036	0.094
Pain / discomfort	0.123	0.386
Anxiety / depression	0.071	0.236
	Constant = 0.081	N3 = 0.269

Calculating a weighted health state index ($EQ\text{-}5D_{index}$) score for health state 11223.

Full health (11111) = 1.0
Subtract 0.081 (constant) for any state other than 11111.
Subtract zero for level 1 on any dimension (in this example mobility and self care).
Subtract the appropriate value for each dimension at level 2 or level 3 (in this case 0.036 for usual activity, 0.123 for pain/discomfort and 0.236 for anxiety and depression.
Subtract 0.269 if any dimension has a level 3 problem (in this example, anxiety/depression).
Hence the weighted health state index score for health state 11223 is given by

1.0 - 0.081 - 0.036 - 0.123 - 0.236 - 0.269 = **0.255**

THE TABLES

The tables are divided into two sections:

- Section 1, presents data on health state expressed as a weighted health state index ($EQ\text{-}5D_{index}$);
- Section 2, presents data on self-rated health status as measured by the visual analogue scale ($EQ\text{-}5D_{vas}$).

Each section provides data for the whole sample, and then for males and female separately. There are separate tables for educational level, marital status, housing tenure, standard economic region, social class and smoking status and for each table the data is presented in 10 year age bands.

Educational level is divided into 5 categories: higher education; further education/ 'A' level or equivalent; 'O' level/CSE or equivalent; no qualifications; other qualifications not specified elsewhere.

Marital status is divided into 5 categories: married; cohabiting; separated or divorced; widowed and single.

Smoking status is divided into three categories: non-smoker; smoker less than 20 cigarettes per day; smoker more than 20 cigarettes per day. Unfortunately the data does not allow us to distinguish which of the non-smokers are ex-smokers. As many individuals cease smoking because of relatively poor health, it is possible that our figures give a slightly pessimistic view of the health of non-smokers who have never smoked.

Housing tenure is divided into 4 categories: owner occupied which includes those individuals who own their property outright or who are buying their property with a mortgage or loan; private rented; public rented which includes individuals who are renting from a local authority, New Town or Housing Association; other household tenure not specified elsewhere.

Social class is presented as two categories: non-manual workers and manual workers and is derived from respondents' current or last main job.

Standard Region divides Great Britain into 10 geographical areas: North, Yorkshire and Humberside, East Midlands, East Anglia, South East, South West, West Midlands, North West, Wales, Scotland.

How to use the tables

The tables are designed to be used as population norms for comparative purposes. The following points are intended to act as guidelines for users who may be less confident about using the tables and interpreting the data they present.

- Each cell presents the mean, number of cases (n) and standard deviation for the particular population sub-group that it represents.

- Some of the cells, particularly in the tables for males and females contain relatively few cases. As it is sensitive to extreme scores, the mean can be a less useful summary measure of the scores of a population when there are relatively few cases. As a guide, it is suggested that the mean scores presented for cells containing around 30 cases or less be interpreted with caution.

- F ratios (ANOVA) were calculated for each row and column to test for differences between cell means. Significance levels for the F ratios are presented as a p-value at the end of each row and column. Conventionally only p-values of 0.05 or less are considered to be statistically significant. As ANOVA is a comparison of cell means, it is suggested that the significance levels presented for cells which contain around 30 cases or less be interpreted with caution.

- P-values could not be calculated for some rows or columns because they contained empty cells.

- When comparing the data in the tables with any other data, the effect of sample bias should be accounted for where possible. For example, consider the case where a GP with a practice in an area where 65% of the population are in manual occupations wishes to compare the EQ-5D scores obtained from a sample of her patients with the national data presented here. The GP may have established that the age/sex distribution of her sample is not significantly different from the age/sex distribution of the national population, but still needs to account for differences in social class, given that there is a significant difference in the EQ-5D scores for people in non-manual and manual occupations. Instead of using tables A and B to make her comparison, the GP should more appropriately use Tables 1.1.5 and 2.1.5. However if the GP was unsure whether the age/sex distribution of her sample was the same as that of the national sample, it would be more appropriate for her to use tables 1.2.5, 1.3.5, 2.2.5 and 2.3.5 to make comparisons. In principle, any factor that is known to significantly affect an individuals health score (such as social class or education) should be controlled for in the comparison. Of course this is not always possible, which is partly why any comparisons made using these tables should be done with caution.

- Individual scores can be compared with the group means presented in the tables by transforming the individual score into a *z* score (or standard score) which indicates where that score stands in relation to all the other scores. A *z* score is a measure of how many standard deviations an individual score is from the mean of the distribution. The formula for calculating a *z* score is as follows:

$$z\ score = \frac{X - \mu}{\sigma}$$

X = the individual score to be transformed

μ = population mean

σ = population standard deviation

A *z* score of ± 2 or is generally considered to be an extreme high or low score.

Example

If a 21 year old woman has a weighted health state index ($EQ\text{-}5D_{index}$) score of 0.88, is her score high or low compared to women of a similar age? To calculate her *z* score we use the mean (0.94) and standard deviation (0.12) for women aged less than 25 from Table A thus:

$$z\ score = \frac{0.88 - 0.94}{0.12} = -0.5$$

Her score is 0.5 standard deviations below the mean score for women aged 18-25 years. Approximately 68% of scores for a group will fall between plus and minus one standard deviation from the mean (i.e. between 0.94-0.12 and 0.94+0.12), assuming the scores are normally distributed. Therefore, our 21 year old woman's score is not particularly low as compared to the scores of women of a similar age group.

- Group mean scores can be compared with the population means presented in the tables to test whether or not the two groups are significantly different or not, using a two-tailed t-test for independent samples. The formula for the t-test statistic is given below:

$$t = \frac{\bar{X}_1 - \bar{X}_2}{s\bar{x}_1 - \bar{x}_2}$$

where

$$s\bar{x}_1 - s\bar{x}_2 = \sqrt{\frac{\sigma_1^2(n_1 - 1) + \sigma_2^2(n_2 - 1)}{n_1 + n_2 - 2}\left(\frac{1}{n_1} + \frac{1}{n_2}\right)}$$

$\bar{X}_1$ = study group mean

$\bar{X}_2$ =population mean

$s\bar{x}_1 - \bar{x}_2$ =estimated standard error

σ_1 = study group standard deviation

σ_2 = population standard deviation

n_1 = study group number of cases

n_2 = population number of cases

Example

A GP wishes to compare the self-rated health status ($EQ\text{-}5D_{vas}$) scores of elderly men registered with his practice, with the national data for men of a similar age. The GP has data from 132 men aged 75 years or more and their mean self-rated health score is 78.26 with a standard deviation of 20. Table B shows that the mean self- rated health score for men aged 75 years or more is 72.90 with a standard deviation of 18.99, based on 107 cases. The score from our GP's sample is higher by 5 points (78.26-72.90=5.36); but is that difference meaningful? Applying a t-test to the comparison will give an indication of the statistical significance of that difference. Thus:

$$t = \frac{78.26 - 72.90}{\sqrt{\frac{(20)^2(132-1)+(18.99)^2(107-1)}{132+107-2)}\left(\frac{1}{132}+\frac{1}{107}\right)}} = 2.17$$

The value of the t-test statistic is 2.17 with 237 degrees of freedom (n_1+n_2 -2) Using tables of the t distribution it can be seen that the probability that the mean scores of the two groups are <u>not</u> different from each other is less than 0.05. Therefore it can be suggested that the two groups are statistically significant from each other.

Users are cautioned against performing a large number of multiple t-tests to compare the means of different groups, as this increases the probability that the results of the t-tests will be significant simply by chance.

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TABLES

Figure A

Weighted Health State Index by Age and Sex

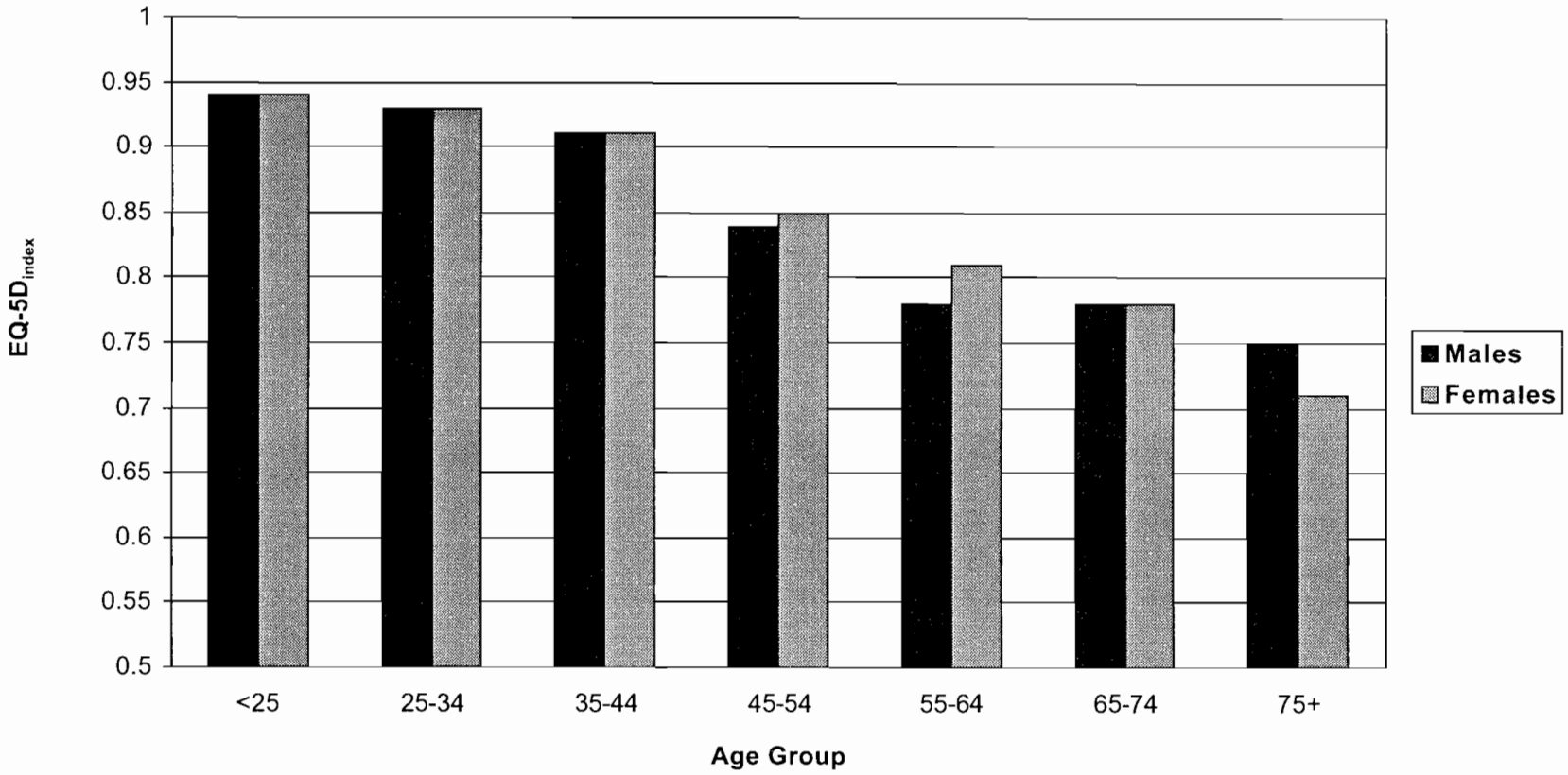

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Table A

Weighted Health State Index by Age and Sex

				Sex		Sig. Level
			All	Males	Females	of F Test
All		Mean	0.86	0.86	0.85	
		Count	3392	1467	1925	0.504
		Std Deviation	0.23	0.24	0.22	
Age	Under 25	Mean	0.94	0.94	0.94	
		Count	304	128	176	0.654
		Std Deviation	0.12	0.12	0.12	
	25-34	Mean	0.93	0.93	0.93	
		Count	753	330	423	0.631
		Std Deviation	0.15	0.16	0.15	
	35-44	Mean	0.91	0.91	0.91	
		Count	561	256	305	0.691
		Std Deviation	0.16	0.17	0.15	
	45-54	Mean	0.85	0.84	0.85	
		Count	488	221	267	0.915
		Std Deviation	0.25	0.27	0.23	
	55-64	Mean	0.80	0.78	0.81	
		Count	484	196	288	0.203
		Std Deviation	0.26	0.28	0.26	
	65-74	Mean	0.78	0.78	0.78	
		Count	488	228	260	0.892
		Std Deviation	0.26	0.28	0.25	
	75+	Mean	0.73	0.75	0.71	
		Count	314	108	206	0.197
		Std Deviation	0.27	0.28	0.27	
Significance Level of F Test			0.000	0.000	0.000	

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Figure B

Self Rated Health Status by Age and Sex

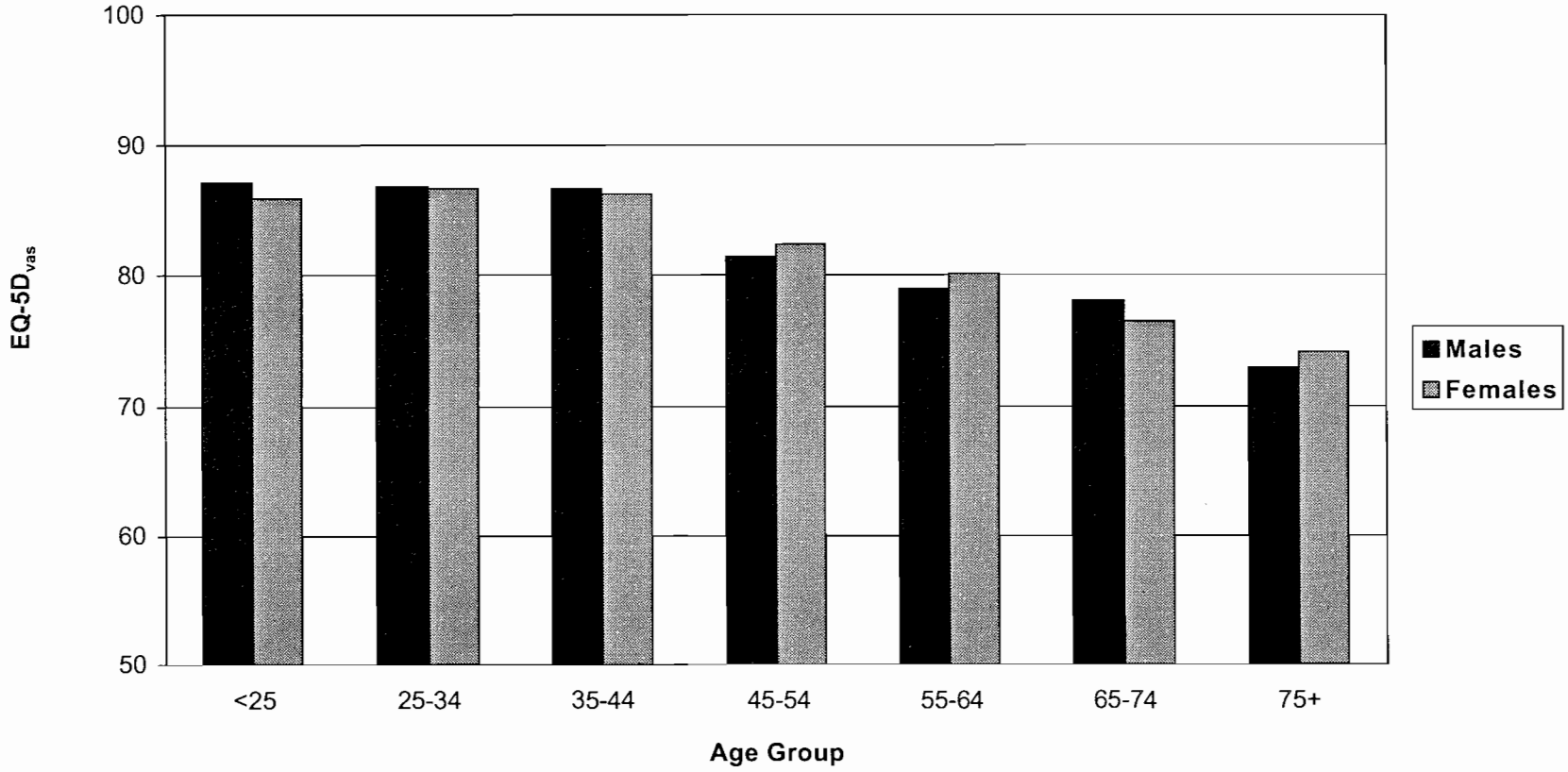

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Table B

Self Rated Health Status by Age and Sex

				Sex		Sig. Level
			All	Males	Females	of F Test
All		Mean	82.48	82.66	82.34	
		Count	3378	1463	1915	0.612
		Std Deviation	16.96	16.96	16.97	
Age	Under 25	Mean	86.49	87.15	86.00	
		Count	303	128	175	0.469
		Std Deviation	13.60	13.86	13.43	
	25-34	Mean	86.84	86.87	86.82	
		Count	753	330	423	0.961
		Std Deviation	14.41	14.41	14.42	
	35-44	Mean	86.56	86.81	86.35	
		Count	559	255	304	0.698
		Std Deviation	13.79	12.39	14.88	
	45-54	Mean	82.03	81.56	82.42	
		Count	487	221	266	0.603
		Std Deviation	18.15	19.23	17.23	
	55-64	Mean	79.74	78.99	80.26	
		Count	480	194	286	0.456
		Std Deviation	18.23	19.04	17.67	
	65-74	Mean	77.32	78.19	76.55	
		Count	486	228	258	0.317
		Std Deviation	18.05	27.40	18.61	
	75+	Mean	73.66	72.90	74.07	
		Count	310	107	203	0.599
		Std Deviation	18.63	18.99	18.47	
Significance Level of F Test			0.000	0.000	0.000	

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SECTION 1

Weighted Health State Index
$EQ\text{-}5D_{index}$

Whole Population
Males
Females

Figure 1.1.1

Weighted Health State Index by Age and Educational Qualifications

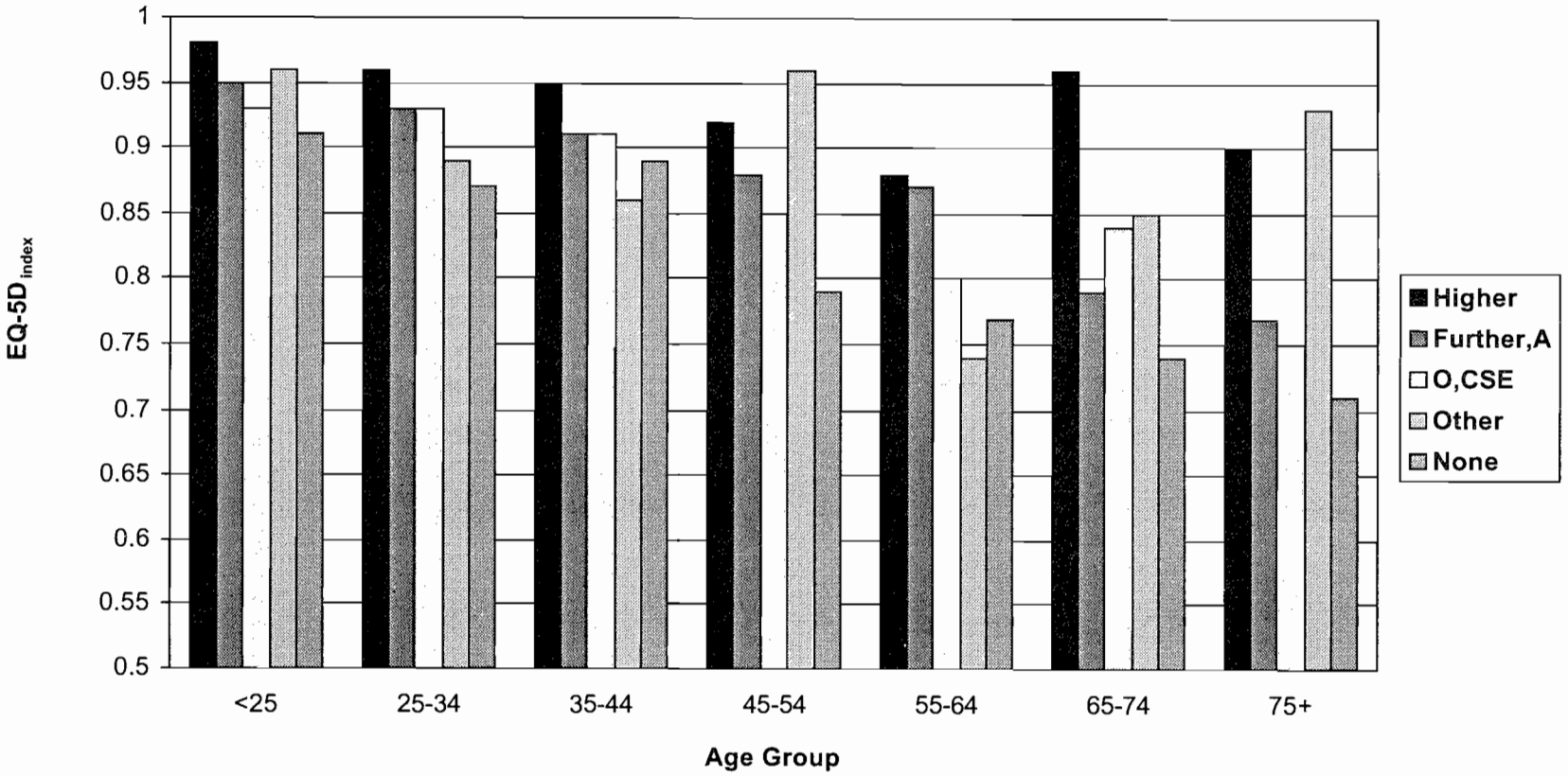

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Table 1.1.1

Weighted Health State Index by Age and Educational Qualifications

		Level of Education					Sig. Level
		Higher	**Further,A**	**O,CSE**	**Other**	**None**	of F Test
All	Mean	0.94	0.90	0.89	0.87	0.78	
	Count	313	685	1049	92	1251	0.000
	Std Deviation	0.13	0.19	0.19	0.21	0.27	
Age Under 25	Mean	0.98	0.95	0.93	0.96	0.91	
	Count	18	102	142	3	39	0.322
	Std Deviation	0.07	0.12	0.12	0.07	0.15	
Age 25-34	Mean	0.96	0.93	0.93	0.89	0.87	
	Count	101	224	307	11	110	0.000
	Std Deviation	0.09	0.15	0.14	0.18	0.22	
Age 35-44	Mean	0.95	0.91	0.91	0.86	0.89	
	Count	80	137	183	10	151	0.112
	Std Deviation	0.12	0.19	0.12	0.15	0.19	
Age 45-54	Mean	0.92	0.88	0.85	0.96	0.79	
	Count	57	79	141	23	187	0.000
	Std Deviation	0.16	0.21	0.25	0.09	0.28	
Age 55-64	Mean	0.88	0.87	0.80	0.74	0.77	
	Count	31	72	117	22	241	0.024
	Std Deviation	0.19	0.22	0.25	0.31	0.28	
Age 65-74	Mean	0.96	0.79	0.84	0.85	0.74	
	Count	18	47	108	17	298	0.000
	Std Deviation	0.09	0.28	0.21	0.17	0.28	
Age 75+	Mean	0.90	0.77	0.75	0.93	0.71	
	Count	8	24	51	6	225	0.066
	Std Deviation	0.14	0.23	0.27	0.13	0.28	
Significance Level of F Test		0.019	0.000	0.000	0.023	0.000	

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Figure 1.1.2

Weighted Health State Index by Age and Marital Status

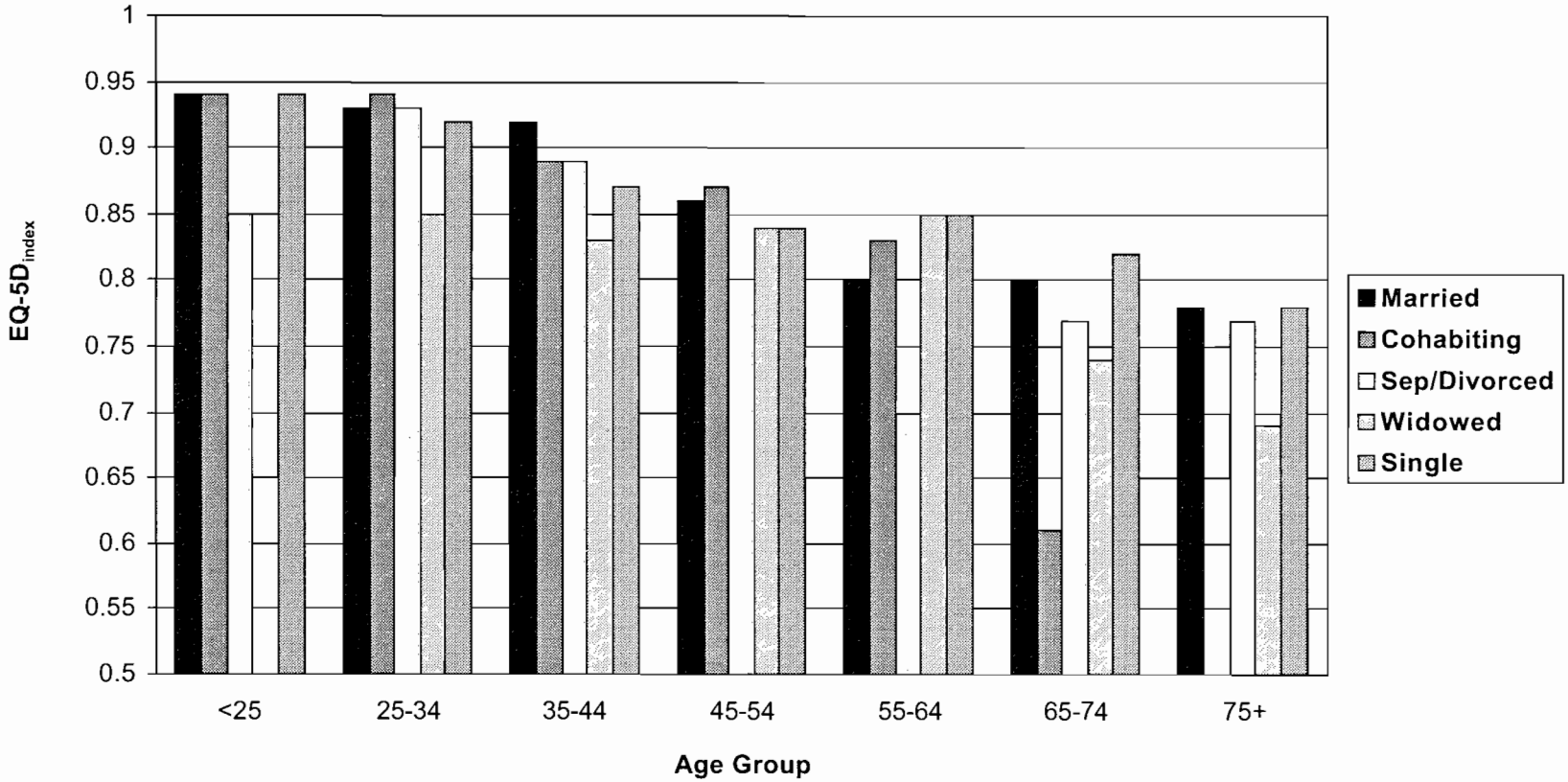

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Figure 1.2.2

Weighted Health State Index by Age and Marital Status for Males

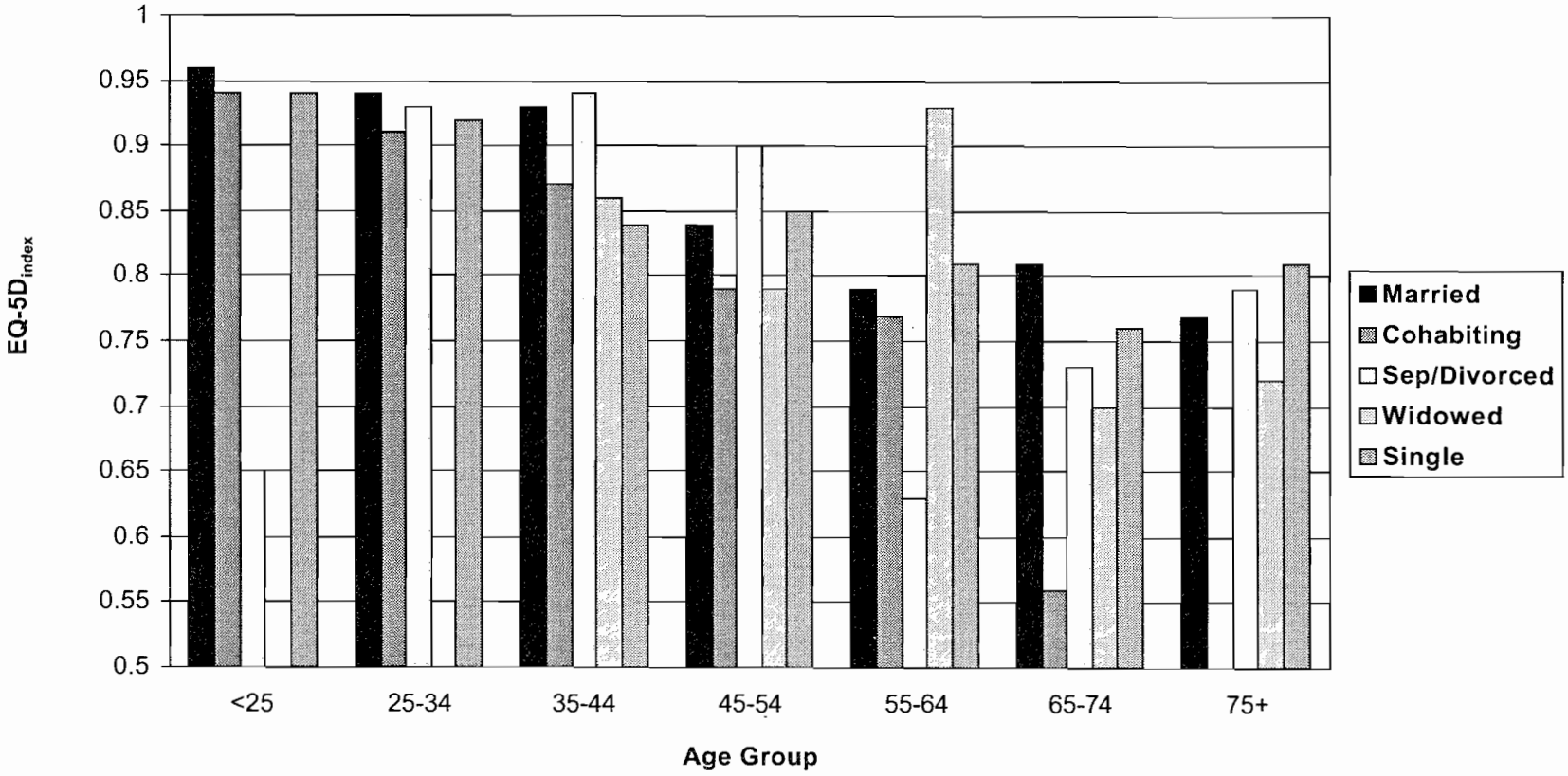

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Table 1.2.1

Weighted Health State Index by Age and Educational Qualifications for Males

		Level of Education					Sig. Level
		Higher	**Further,A**	**O,CSE**	**Other**	**None**	of F Test
All	Mean	0.94	0.91	0.87	0.84	0.78	
	Count	182	343	453	51	436	0.000
	Std Deviation	0.12	0.19	0.21	0.25	0.30	
Age Under 25	Mean	0.99	0.94	0.93	0.94	0.91	
	Count	11	55	51	2	9	0.659
	Std Deviation	0.05	0.14	0.11	0.08	0.11	
Age 25-34	Mean	0.96	0.95	0.92	0.96	0.86	
	Count	56	109	122	4	39	0.021
	Std Deviation	0.08	0.14	0.15	0.08	0.28	
Age 35-44	Mean	0.97	0.91	0.92	0.87	0.88	
	Count	44	74	68	4	66	0.118
	Std Deviation	0.08	0.19	0.12	0.15	0.22	
Age 45-54	Mean	0.92	0.87	0.85	0.98	0.78	
	Count	29	44	63	11	73	0.044
	Std Deviation	0.14	0.24	0.27	0.06	0.34	
Age 55-64	Mean	0.85	0.85	0.81	0.62	0.72	
	Count	22	32	59	12	70	0.040
	Std Deviation	0.22	0.21	0.25	0.38	0.32	
Age 65-74	Mean	0.95	0.79	0.83	0.86	0.72	
	Count	15	24	62	14	113	0.010
	Std Deviation	0.09	0.30	0.22	0.18	0.31	
Age 75+	Mean	0.90	0.89	0.71	0.89	0.74	
	Count	5	5	28	4	66	0.337
	Std Deviation	0.14	0.17	0.32	0.15	0.27	
Significance Level of F Test		0.003	0.002	0.000	0.017	0.003	

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Figure 1.2.1

Weighted Health State Index by Age and Educational Qualifications for Males

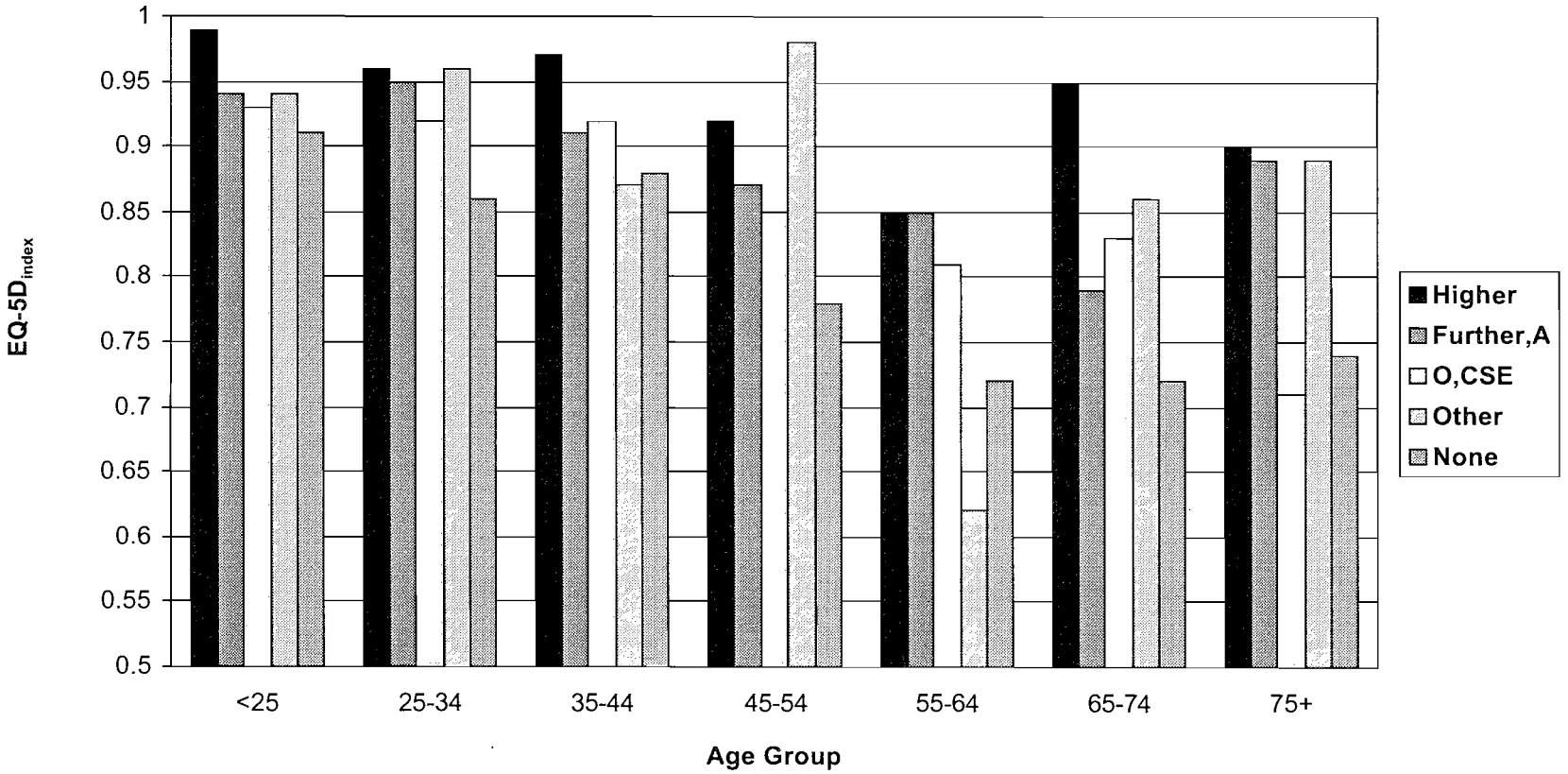

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Table 1.1.6

Weighted Health State Index by Age and Standard Region

		Region										Sig. Level
		North	Y&H	E Mids	E Anglia	SE	SW	W Mids	NW	Wales	Scotland	of F Test
All	Mean	0.81	0.81	0.89	0.88	0.85	0.89	0.85	0.86	0.86	0.86	
	Count	209	266	359	135	840	368	313	424	121	360	0.000
	Std Deviation	0.26	0.27	0.19	0.18	0.23	0.18	0.23	0.24	0.23	0.23	
Age Under 25	Mean	0.92	0.94	0.93	0.95	0.95	0.93	0.91	0.93	0.94	0.95	
	Count	15	29	32	17	82	24	30	26	12	37	0.896
	Std Deviation	0.19	0.10	0.13	0.10	0.09	0.15	0.15	0.16	0.11	0.09	
Age 25-34	Mean	0.90	0.94	0.93	0.96	0.92	0.93	0.92	0.96	0.87	0.91	
	Count	42	52	105	22	176	73	66	104	29	84	0.158
	Std Deviation	0.16	0.16	0.15	0.10	0.15	0.13	0.17	0.09	0.25	0.19	
Age 35-44	Mean	0.87	0.81	0.93	0.88	0.92	0.93	0.91	0.94	0.93	0.92	
	Count	34	44	65	30	141	62	52	59	22	52	0.002
	Std Deviation	0.20	0.27	0.12	0.21	0.12	0.15	0.17	0.10	0.15	0.14	
Age 45-54	Mean	0.88	0.78	0.90	0.79	0.82	0.90	0.86	0.81	0.85	0.88	
	Count	29	32	52	15	127	54	49	81	12	37	0.178
	Std Deviation	0.22	0.33	0.17	0.31	0.27	0.15	0.23	0.28	0.29	0.21	
Age 55-64	Mean	0.66	0.78	0.85	0.93	0.80	0.80	0.79	0.74	0.95	0.82	
	Count	32	48	35	20	125	56	36	61	12	59	0.023
	Std Deviation	0.36	0.29	0.19	0.12	0.26	0.27	0.23	0.30	0.12	0.21	
Age 65-74	Mean	0.71	0.69	0.79	0.82	0.77	0.90	0.80	0.80	0.71	0.73	
	Count	34	34	41	18	119	62	48	60	20	52	0.007
	Std Deviation	0.30	0.32	0.27	0.17	0.26	0.17	0.25	0.25	0.24	0.31	
Age 75+	Mean	0.76	0.65	0.75	0.81	0.67	0.82	0.70	0.71	0.80	0.74	
	Count	23	27	29	13	70	36	32	33	12	39	0.204
	Std Deviation	0.22	0.24	0.29	0.17	0.31	0.17	0.29	0.27	0.24	0.28	
Significance Level of F Test		0.000	0.000	0.000	0.015	0.000	0.000	0.000	0.000	0.014	0.000	

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Figure 1.1.6

Weighted Health State Index by Age and Standard Region

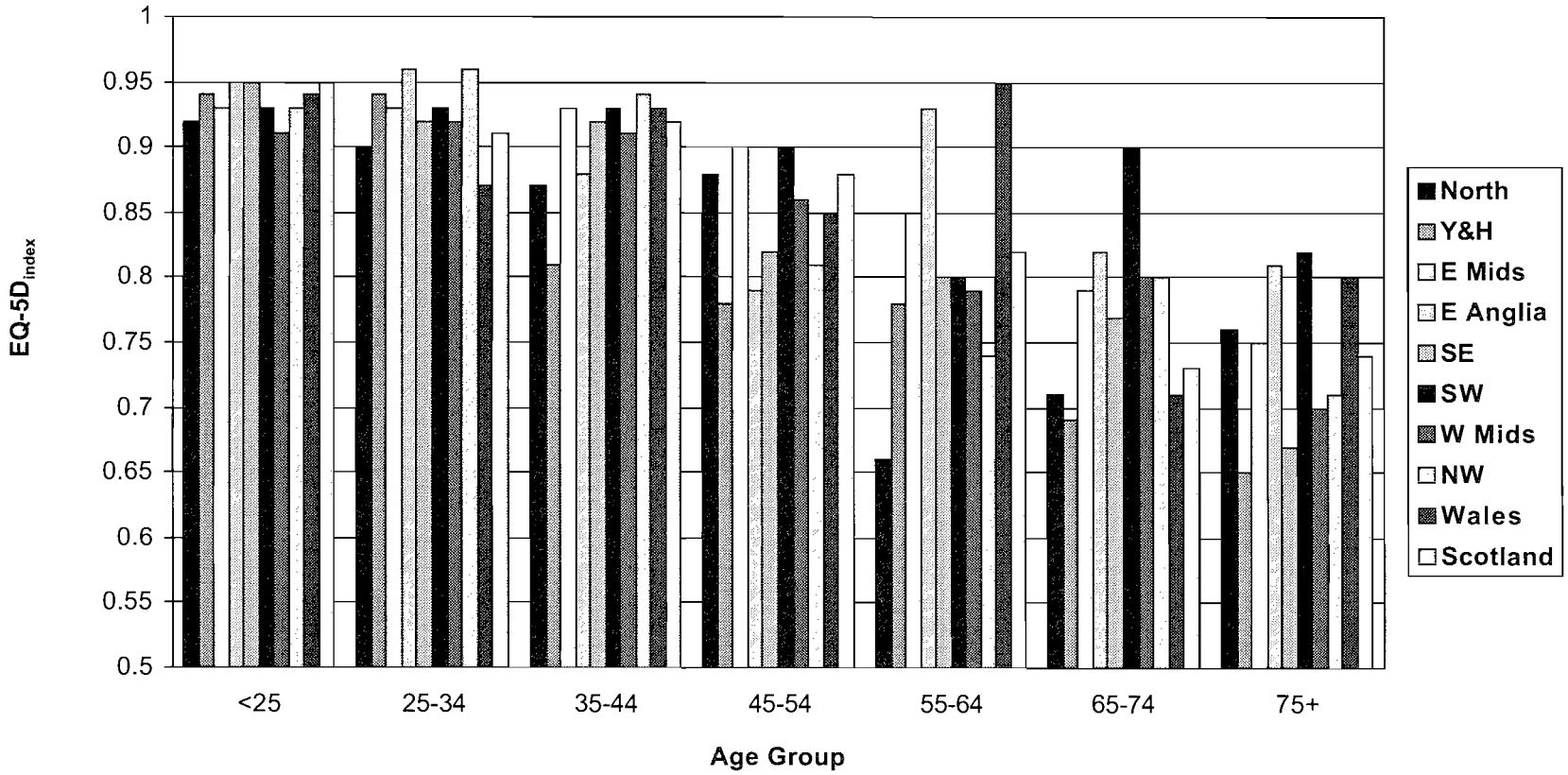

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Table 1.1.5

Weighted Health State Index by Age and Social Class

		Social Class		Sig. Level
		Non-manual	**Manual**	of F Test
All	Mean	0.88	0.82	
	Count	1780	1505	0.000
	Std Deviation	0.20	0.26	
Age Under 25	Mean	0.93	0.94	
	Count	131	140	0.592
	Std Deviation	0.14	0.11	
Age 25-34	Mean	0.94	0.91	
	Count	460	272	0.004
	Std Deviation	0.13	0.17	
Age 35-44	Mean	0.93	0.89	
	Count	318	230	0.041
	Std Deviation	0.13	0.19	
Age 45-54	Mean	0.87	0.82	
	Count	274	211	0.046
	Std Deviation	0.24	0.26	
Age 55-64	Mean	0.84	0.75	
	Count	245	230	0.001
	Std Deviation	0.22	0.30	
Age 65-74	Mean	0.82	0.74	
	Count	224	249	0.001
	Std Deviation	0.23	0.29	
Age 75+	Mean	0.76	0.69	
	Count	128	173	0.048
	Std Deviation	0.26	0.28	
Significance Level of F Test		0.000	0.000	

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Figure 1.1.5

Weighted Health State Index by Age and Social Class

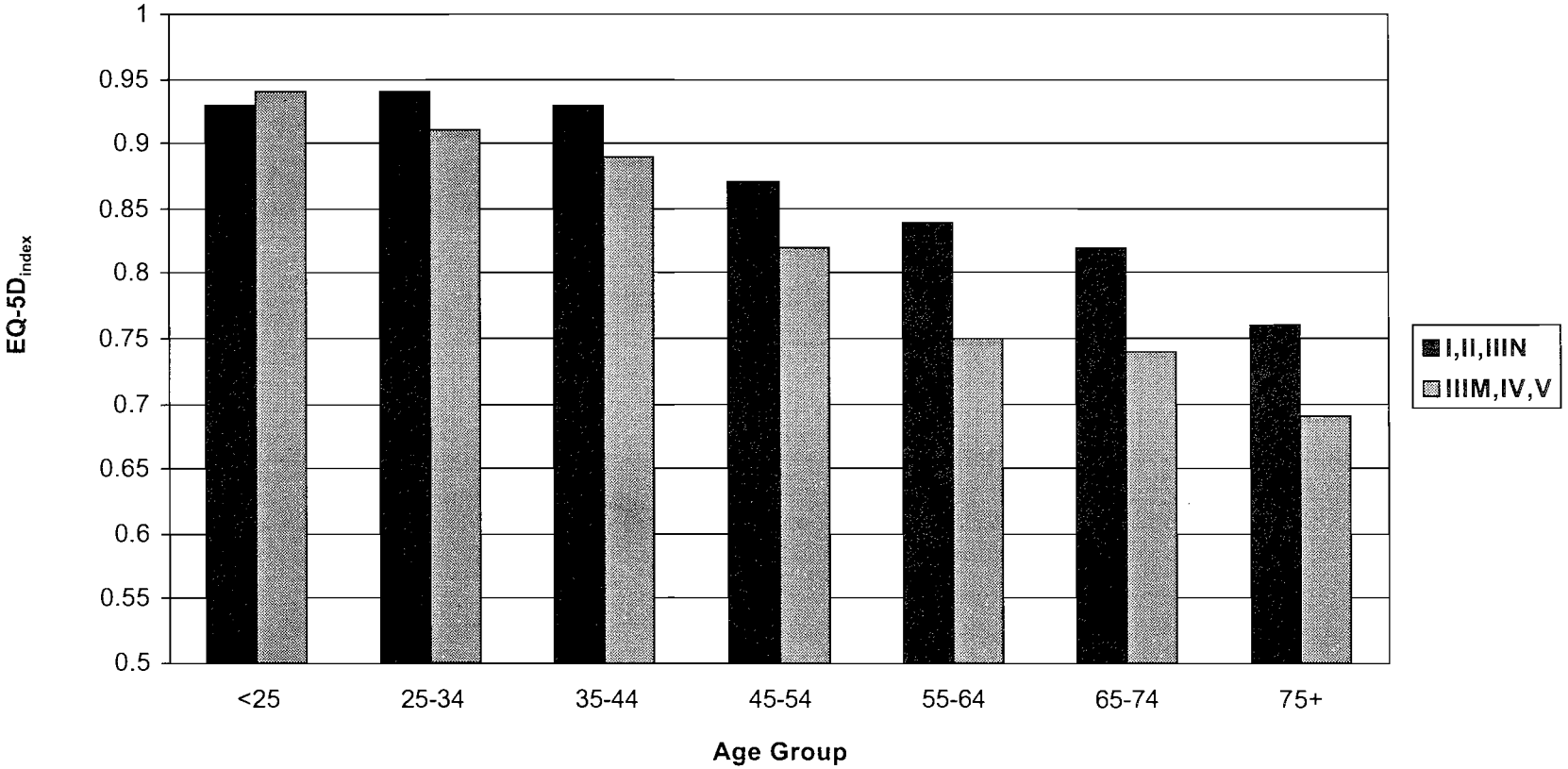

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Table 1.1.4

Weighted Health State Index by Age and Housing Tenure

		Tenure				Sig. Level
		Owner/Mortgage	Private rented	Public rented	Other	of F Test
All	Mean	0.89	0.88	0.76	0.88	
	Count	2229	262	830	63	0.000
	Std Deviation	0.19	0.21	0.29	0.18	
Age Under 25	Mean	0.95	0.95	0.91	0.97	
	Count	151	59	82	10	0.181
	Std Deviation	0.11	0.12	0.14	0.06	
Age 25-34	Mean	0.94	0.92	0.88	0.87	
	Count	511	78	150	14	0.000
	Std Deviation	0.13	0.16	0.22	0.17	
Age 35-44	Mean	0.93	0.90	0.84	0.99	
	Count	417	36	96	12	0.000
	Std Deviation	0.14	0.19	0.23	0.04	
Age 45-54	Mean	0.88	0.88	0.73	0.81	
	Count	358	23	98	8	0.000
	Std Deviation	0.22	0.22	0.32	0.28	
Age 55-64	Mean	0.84	0.78	0.67	0.83	
	Count	332	27	116	7	0.000
	Std Deviation	0.23	0.29	0.31	0.27	
Age 65-74	Mean	0.83	0.89	0.67	0.83	
	Count	312	15	154	6	0.000
	Std Deviation	0.22	0.12	0.31	0.15	
Age 75+	Mean	0.77	0.68	0.68	0.75	
	Count	148	24	134	6	0.043
	Std Deviation	0.23	0.33	0.29	0.19	
Significance Level of F Test		0.000	0.000	0.000	0.064	

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Figure 1.1.4

Weighted Health State Index by Age and Housing Tenure

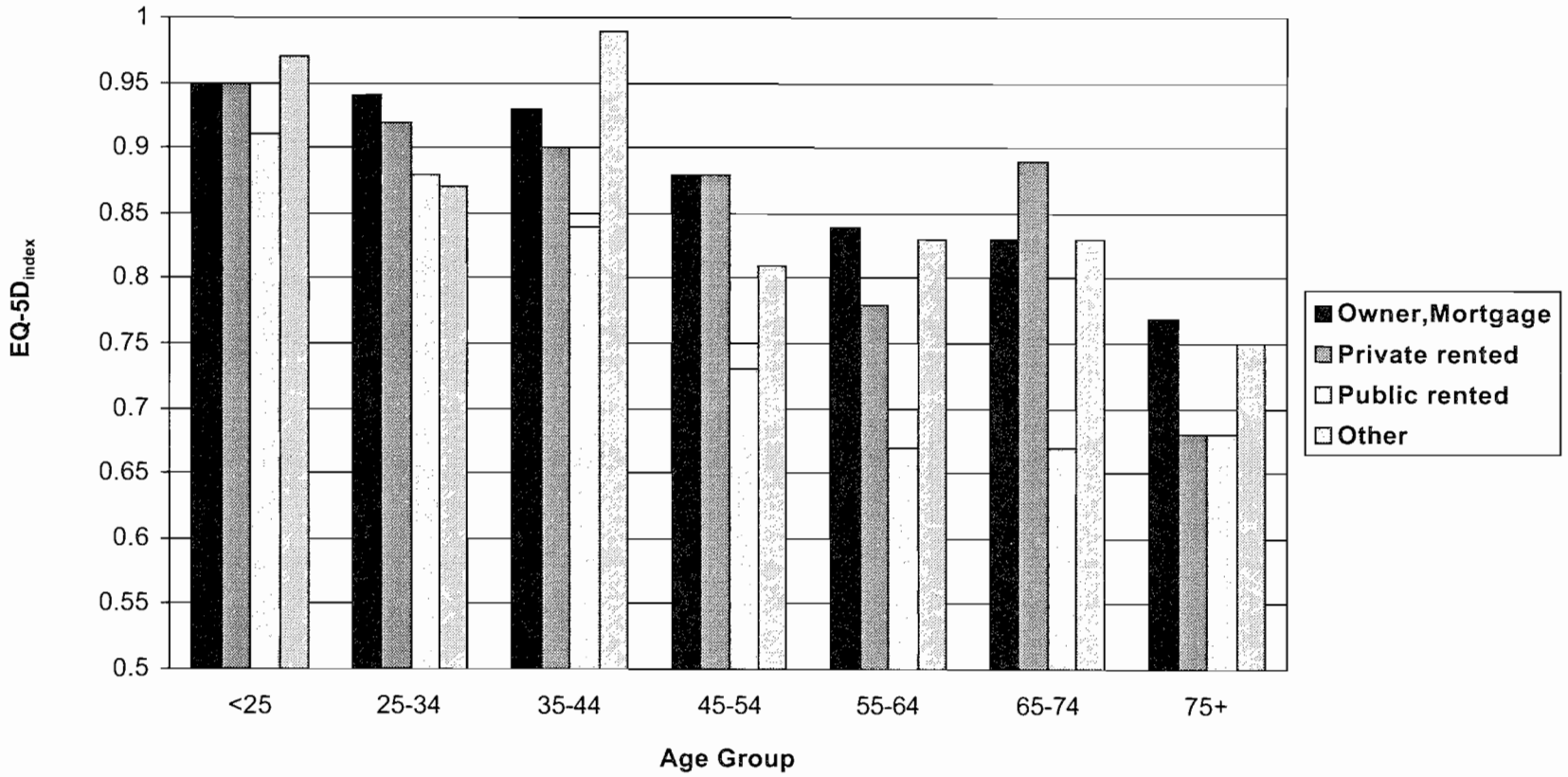

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Table 1.1.3

Weighted Health State Index by Age and Smoking Status

		Smoker			Sig. Level
		Non smoker	**<20 pd**	**20+ pd**	of F Test
All	Mean	0.86	0.85	0.84	
	Count	2344	694	342	0.174
	Std Deviation	0.22	0.24	0.24	
Age Under 25	Mean	0.97	0.91	0.89	
	Count	166	105	33	0.000
	Std Deviation	0.08	0.15	0.16	
Age 25-34	Mean	0.94	0.90	0.93	
	Count	472	196	84	0.018
	Std Deviation	0.15	0.17	0.15	
Age 35-44	Mean	0.93	0.89	0.87	
	Count	367	116	76	0.012
	Std Deviation	0.14	0.18	0.21	
Age 45-54	Mean	0.87	0.80	0.79	
	Count	312	98	75	0.010
	Std Deviation	0.22	0.30	0.28	
Age 55-64	Mean	0.81	0.76	0.72	
	Count	364	73	43	0.041
	Std Deviation	0.24	0.30	0.29	
Age 65-74	Mean	0.79	0.73	0.80	
	Count	392	67	27	0.249
	Std Deviation	0.26	0.30	0.26	
Age 75+	Mean	0.73	0.72	0.54	
	Count	271	39	4	0.376
	Std Deviation	0.27	0.26	0.39	
Significance Level of F Test		0.000	0.000	0.000	

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Figure 1.1.3

Weighted Health State Index by Age and Smoking Status

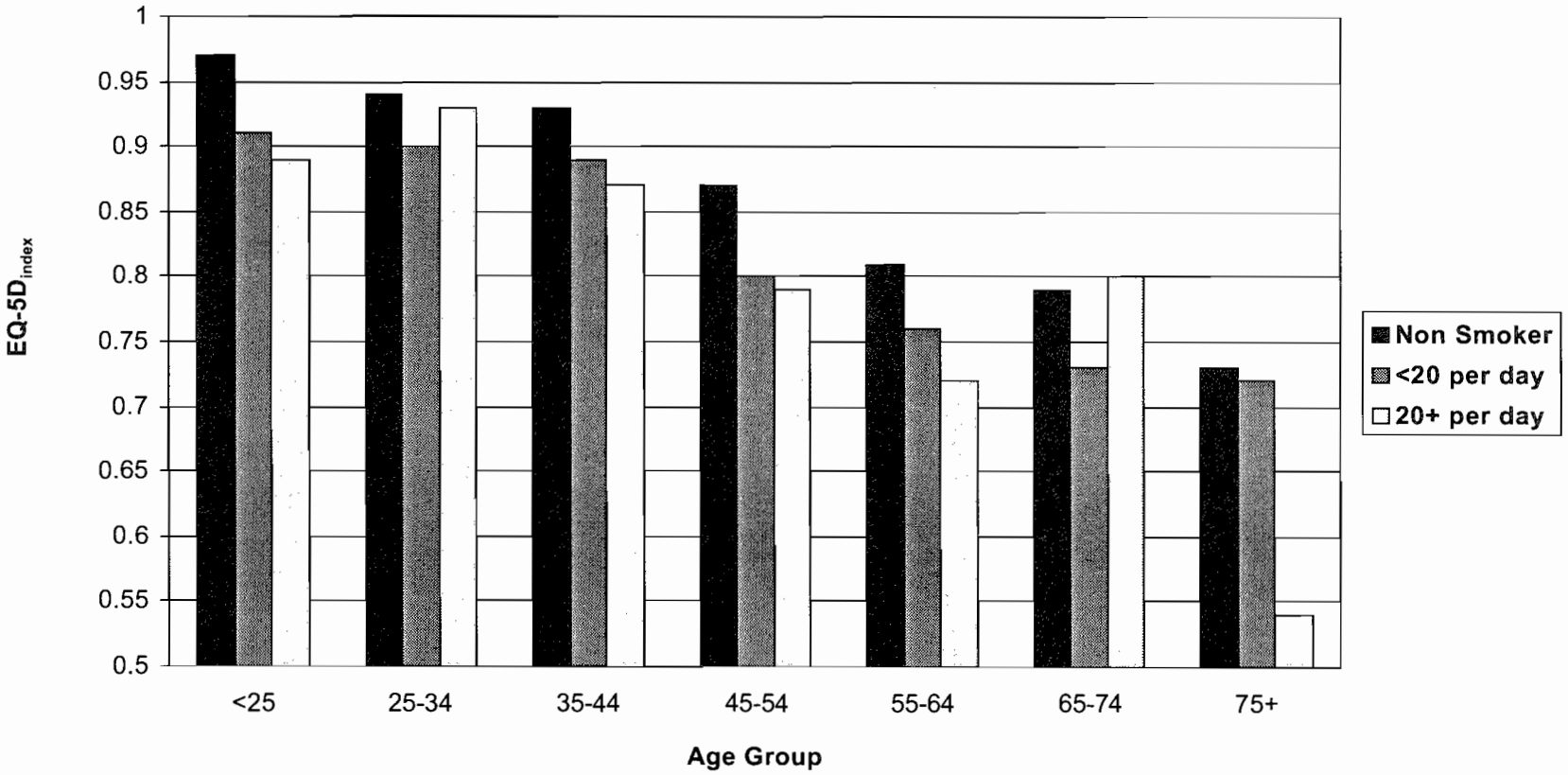

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Table 1.1.2

Weighted Health State Index by Age and Marital Status

		Marital Status					Sig. Level
		Married	**Cohabiting**	**Separated/Divorced**	**Widowed**	**Single**	of F Test
All	Mean	0.87	0.91	0.83	0.74	0.90	
	Count	1843	187	356	430	573	0.000
	Std Deviation	0.22	0.16	0.24	0.26	0.18	
Age Under 25	Mean	0.94	0.94	0.85	.	0.94	
	Count	47	44	12	0	201	0.084
	Std Deviation	0.10	0.12	0.28	.	0.11	
Age 25-34	Mean	0.93	0.94	0.93	0.85	0.92	
	Count	398	82	86	1	185	0.913
	Std Deviation	0.16	0.13	0.12	.	0.16	
Age 35-44	Mean	0.92	0.89	0.89	0.83	0.87	
	Count	398	32	73	4	54	0.071
	Std Deviation	0.14	0.15	0.18	0.12	0.25	
Age 45-54	Mean	0.86	0.87	0.80	0.84	0.84	
	Count	345	13	72	20	37	0.579
	Std Deviation	0.25	0.19	0.28	0.15	0.26	
Age 55-64	Mean	0.80	0.83	0.70	0.85	0.85	
	Count	308	10	66	71	29	0.009
	Std Deviation	0.27	0.29	0.31	0.19	0.18	
Age 65-74	Mean	0.80	0.61	0.77	0.74	0.82	
	Count	262	6	32	144	43	0.102
	Std Deviation	0.27	0.26	0.23	0.26	0.25	
Age 75+	Mean	0.78	.	0.77	0.69	0.78	
	Count	85	0	15	190	24	0.044
	Std Deviation	0.23	.	0.22	0.29	0.24	
Significance Level of F Test		0.000	0.000	0.000		0.000	

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Table 1.2.2

Weighted Health State Index by Age and Marital Status for Males

		Marital Status					Sig. Level
		Married	**Cohabiting**	**Separated/Divorced**	**Widowed**	**Single**	of F Test
All	Mean	0.86	0.87	0.84	0.74	0.89	
	Count	890	77	111	100	289	0.000
	Std Deviation	0.24	0.21	0.26	0.29	0.19	
Age Under 25	Mean	0.96	0.94	0.65	.	0.94	
	Count	18	12	2	0	96	0.006
	Std Deviation	0.09	0.14	0.50	.	0.11	
Age 25-34	Mean	0.94	0.91	0.93	.	0.92	
	Count	166	40	26	0	98	0.530
	Std Deviation	0.15	0.17	0.10	.	0.17	
Age 35-44	Mean	0.93	0.87	0.94	0.86	0.84	
	Count	188	12	17	2	37	0.042
	Std Deviation	0.14	0.13	0.09	0.19	0.28	
Age 45-54	Mean	0.84	0.79	0.90	0.79	0.85	
	Count	160	5	29	5	22	0.830
	Std Deviation	0.29	0.27	0.20	0.19	0.27	
Age 55-64	Mean	0.79	0.77	0.63	0.93	0.81	
	Count	147	4	22	9	14	0.035
	Std Deviation	0.27	0.46	0.35	0.16	0.20	
Age 65-74	Mean	0.81	0.56	0.73	0.70	0.76	
	Count	158	4	9	41	16	0.071
	Std Deviation	0.26	0.31	0.33	0.30	0.27	
Age 75+	Mean	0.77	.	0.79	0.72	0.81	
	Count	53	0	6	43	6	0.749
	Std Deviation	0.25	.	0.36	0.30	0.16	
Significance Level of F Test		0.000	0.010	0.000		0.002	

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Figure 1.2.3

Weighted Health State Index by Age and Smoking Status for Males

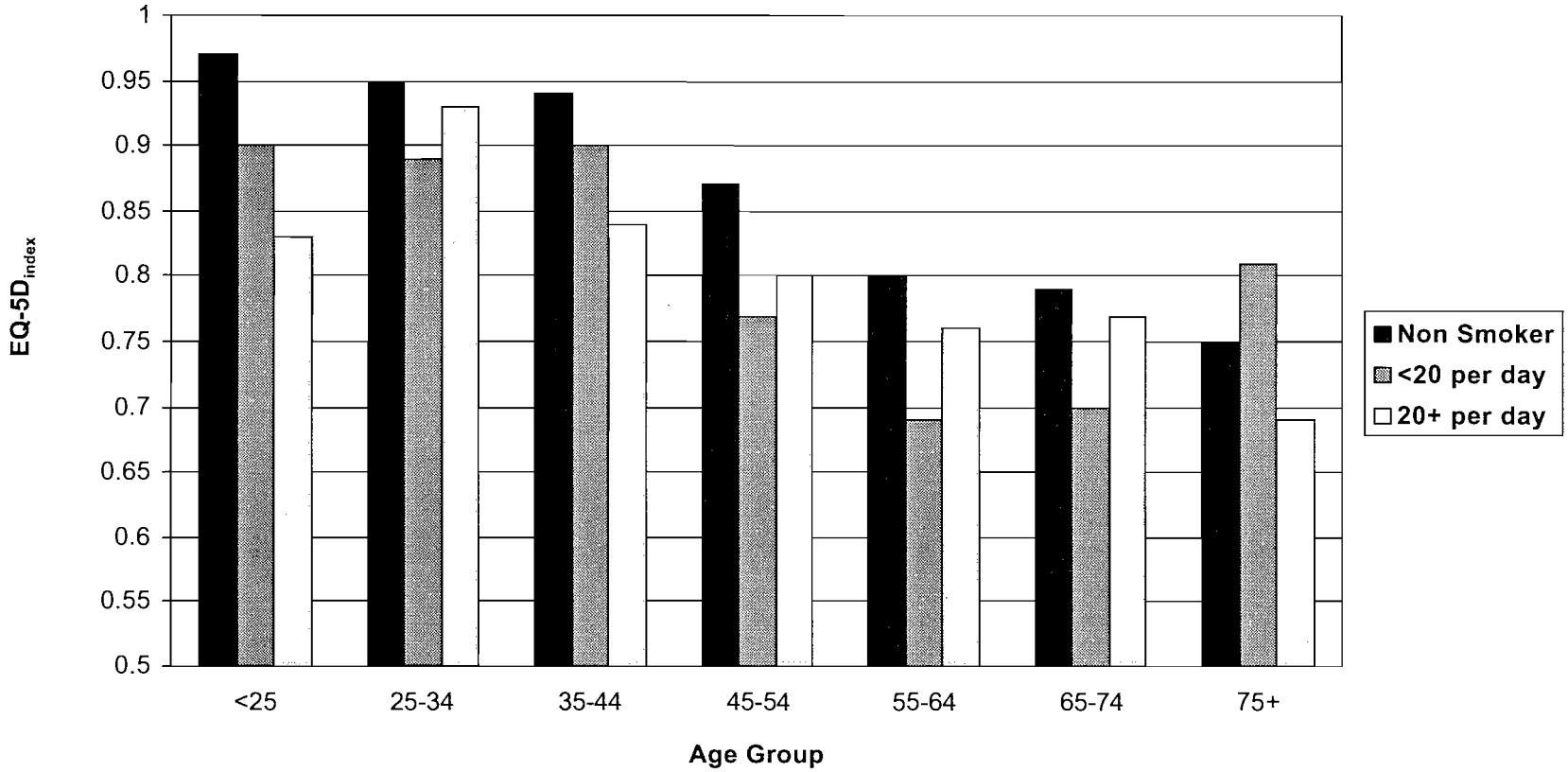

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Table 1.2.3

Weighted Health State Index by Age and Smoking Status for Males

		Smoker			Sig. Level
		Non smoker	<20 pd	20+ pd	of F Test
All	Mean	0.87	0.84	0.83	
	Count	1001	282	175	0.049
	Std Deviation	0.23	0.25	0.25	
Age Under 25	Mean	0.97	0.90	0.83	
	Count	73	44	11	0.000
	Std Deviation	0.08	0.13	0.21	
Age 25-34	Mean	0.95	0.89	0.93	
	Count	205	84	41	0.010
	Std Deviation	0.13	0.21	0.15	
Age 35-44	Mean	0.94	0.90	0.84	
	Count	164	51	39	0.008
	Std Deviation	0.14	0.18	0.25	
Age 45-54	Mean	0.87	0.77	0.80	
	Count	142	36	41	0.078
	Std Deviation	0.23	0.37	0.31	
Age 55-64	Mean	0.80	0.69	0.76	
	Count	145	26	21	0.165
	Std Deviation	0.26	0.34	0.25	
Age 65-74	Mean	0.79	0.70	0.77	
	Count	181	27	19	0.299
	Std Deviation	0.27	0.31	0.29	
Age 75+	Mean	0.75	0.81	0.69	
	Count	91	14	3	0.657
	Std Deviation	0.29	0.14	0.32	
Significance Level of F Test		0.000	0.000	0.081	

Figure 1.2.4

Weighted Health State Index by Age and Housing Tenure for Males

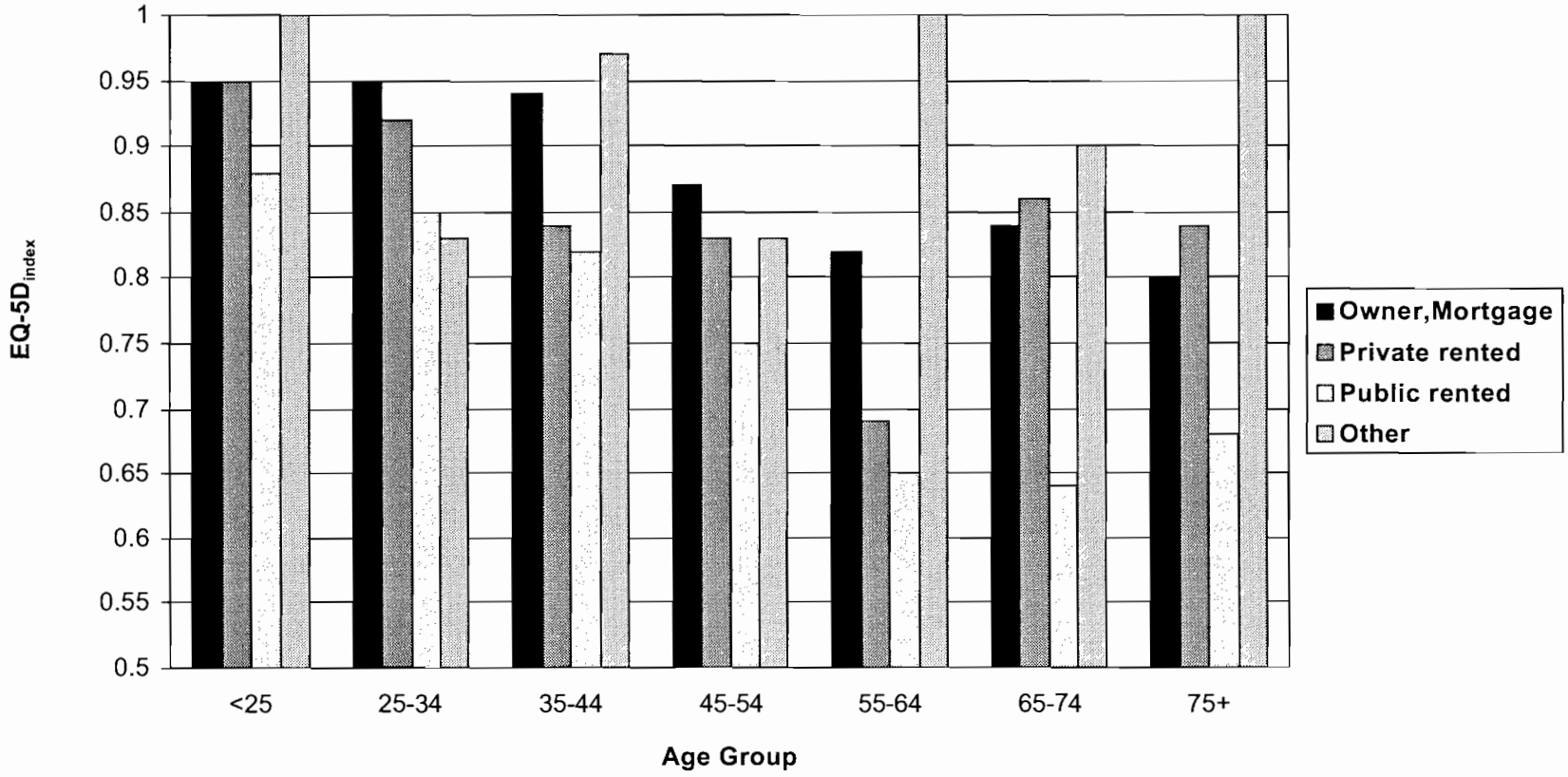

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Table 1.2.4

Weighted Health State Index by Age and Housing Tenure for Males

		Tenure				Sig. Level of F Test
		Owner/Mortgage	**Private rented**	**Public rented**	**Other**	
All	Mean	0.89	0.88	0.74	0.89	
	Count	1007	124	305	28	0.000
	Std Deviation	0.20	0.21	0.31	0.20	
Age Under 25	Mean	0.95	0.95	0.88	1.00	
	Count	78	25	24	1	0.105
	Std Deviation	0.11	0.10	0.16	.	
Age 25-34	Mean	0.95	0.92	0.85	0.83	
	Count	224	45	52	9	0.000
	Std Deviation	0.13	0.14	0.24	0.20	
Age 35-44	Mean	0.94	0.84	0.82	0.97	
	Count	195	18	37	6	0.000
	Std Deviation	0.12	0.25	0.28	0.06	
Age 45-54	Mean	0.87	0.83	0.75	0.83	
	Count	161	9	44	6	0.101
	Std Deviation	0.24	0.33	0.34	0.33	
Age 55-64	Mean	0.82	0.69	0.65	1.00	
	Count	143	12	38	2	0.002
	Std Deviation	0.25	0.31	0.33	0.00	
Age 65-74	Mean	0.84	0.86	0.64	0.90	
	Count	155	5	64	3	0.000
	Std Deviation	0.23	0.16	0.34	0.18	
Age 75+	Mean	0.80	0.84	0.68	1.00	
	Count	51	10	46	1	0.051
	Std Deviation	0.19	0.30	0.33	.	
Significance Level of F Test		0.000	0.000	0.017	0.759	

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Figure 1.2.5

Weighted Health State Index by Age and Social Class for Males

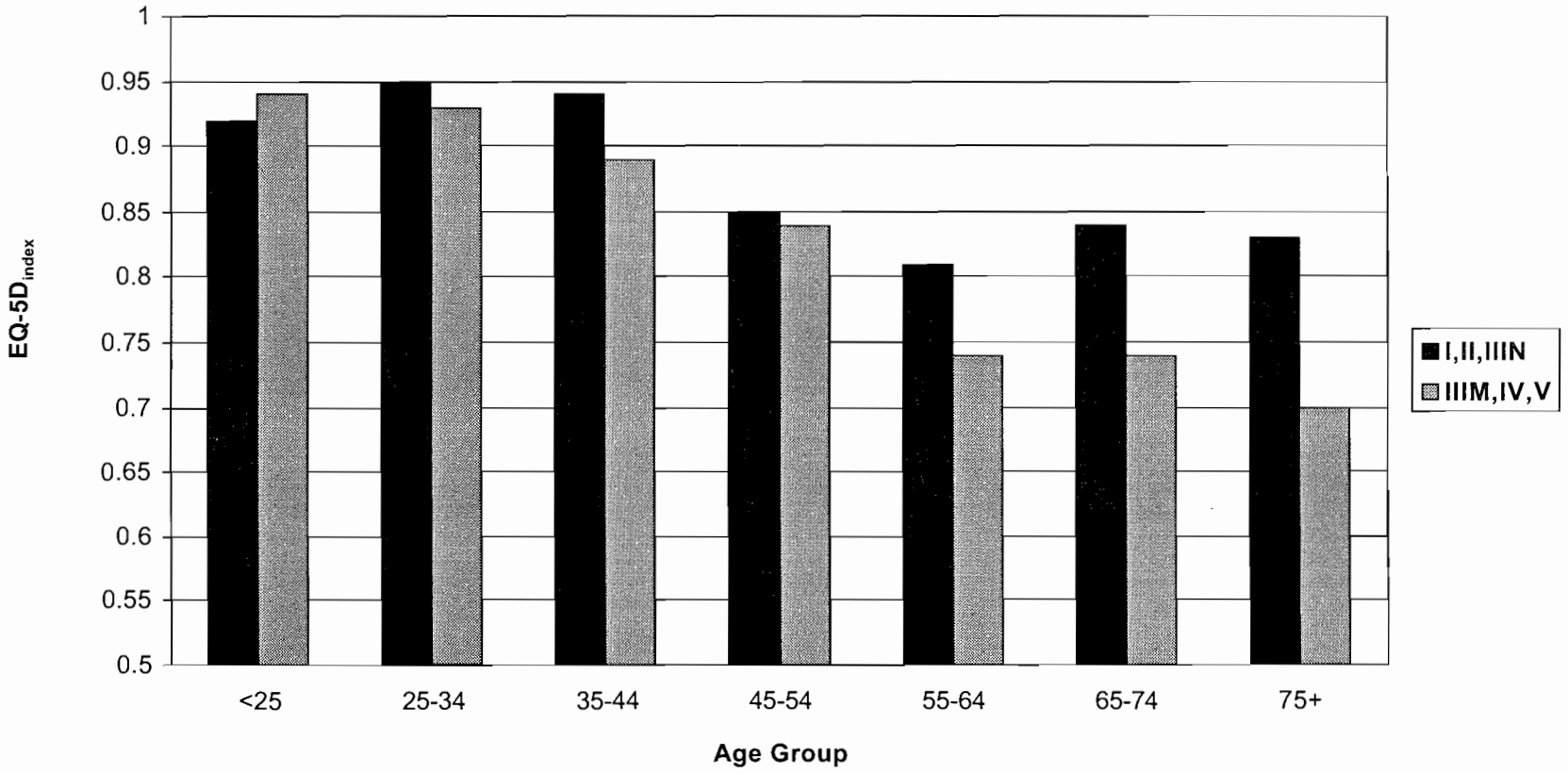

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Table 1.2.5

Weighted Health State Index by Age and Social Class for Males

		Social Class		Sig. Level
		Non-manual	**Manual**	of F Test
All	Mean	0.89	0.83	
	Count	667	762	0.000
	Std Deviation	0.20	0.26	
Age Under 25	Mean	0.92	0.94	
	Count	51	64	0.448
	Std Deviation	0.15	0.10	
Age 25-34	Mean	0.95	0.93	
	Count	173	147	0.196
	Std Deviation	0.12	0.18	
Age 35-44	Mean	0.94	0.89	
	Count	130	122	0.013
	Std Deviation	0.10	0.22	
Age 45-54	Mean	0.85	0.84	
	Count	98	121	0.699
	Std Deviation	0.29	0.27	
Age 55-64	Mean	0.81	0.74	
	Count	92	101	0.112
	Std Deviation	0.24	0.31	
Age 65-74	Mean	0.84	0.74	
	Count	85	140	0.007
	Std Deviation	0.22	0.30	
Age 75+	Mean	0.83	0.70	
	Count	38	67	0.023
	Std Deviation	0.22	0.29	
Significance Level of F Test		0.000	0.000	

Figure 1.2.6

Weighted Health State Index by Age and Standard Region for Males

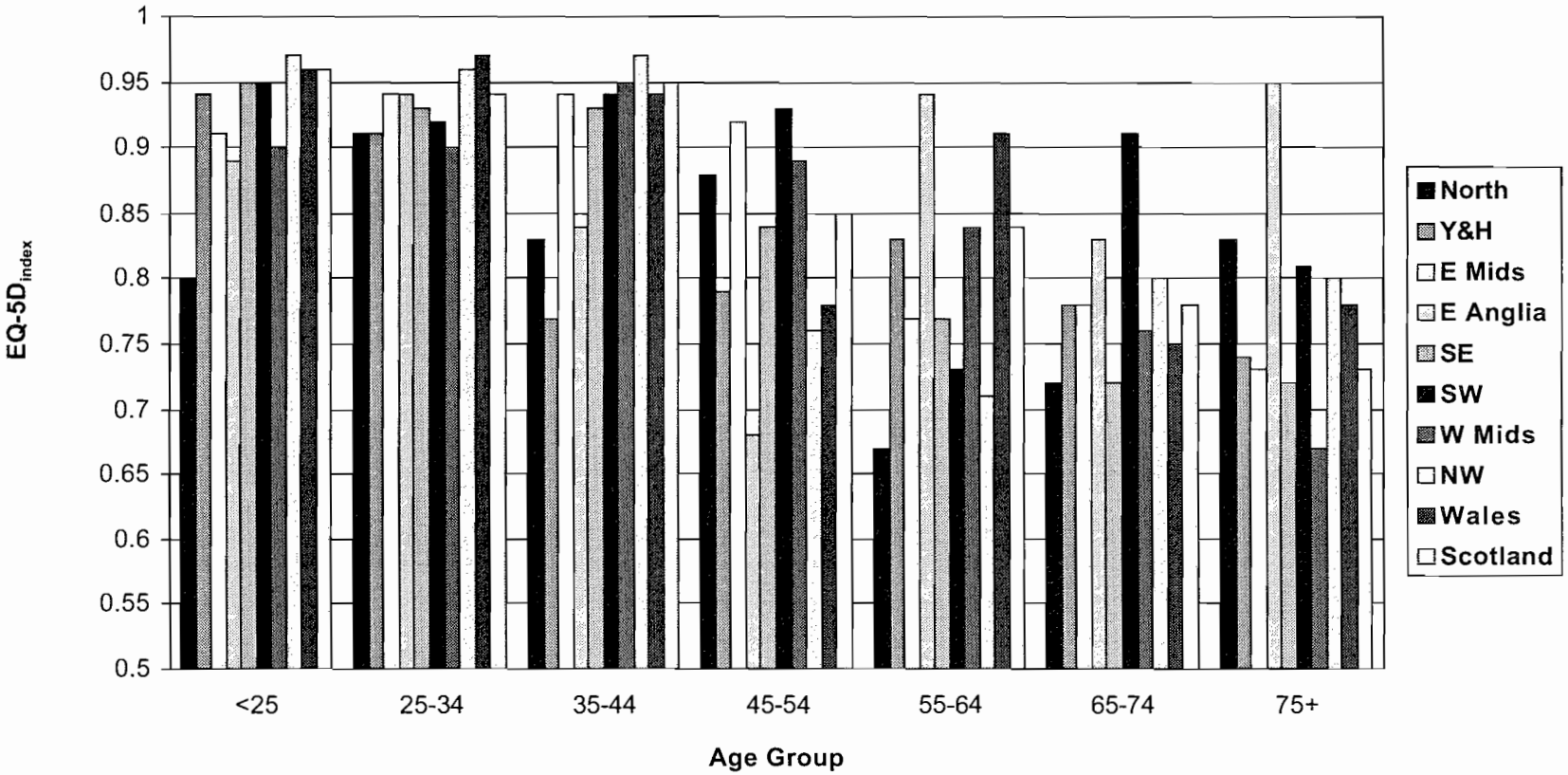

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Table 1.2.6

Weighted Health State Index by Age and Standard Region for Males

		Region										Sig. Level
		North	Y&H	E Mids	E Anglia	SE	SW	W Mids	NW	Wales	Scotland	of F Test
All	Mean	0.81	0.82	0.89	0.86	0.84	0.89	0.86	0.86	0.86	0.87	
	Count	87	111	168	50	348	174	146	181	44	160	0.197
	Std Deviation	0.30	0.28	0.21	0.22	0.24	0.20	0.23	0.24	0.22	0.21	
Age Under 25	Mean	0.80	0.94	0.91	0.89	0.95	0.95	0.90	0.97	0.96	0.96	
	Count	5	7	14	6	30	13	12	16	5	20	0.309
	Std Deviation	0.31	0.10	0.16	0.12	0.09	0.08	0.15	0.08	0.09	0.08	
Age 25-34	Mean	0.91	0.91	0.94	0.94	0.93	0.92	0.90	0.96	0.97	0.94	
	Count	19	24	50	8	76	31	32	46	5	39	0.880
	Std Deviation	0.21	0.21	0.12	0.08	0.16	0.16	0.22	0.10	0.07	0.15	
Age 35-44	Mean	0.83	0.77	0.94	0.84	0.93	0.94	0.95	0.97	0.94	0.95	
	Count	19	21	35	16	56	30	24	29	8	18	0.000
	Std Deviation	0.25	0.33	0.12	0.26	0.10	0.11	0.09	0.07	0.12	0.08	
Age 45-54	Mean	0.88	0.79	0.92	0.68	0.84	0.93	0.89	0.76	0.78	0.85	
	Count	11	19	23	5	55	26	24	32	8	18	0.224
	Std Deviation	0.33	0.35	0.19	0.40	0.27	0.14	0.16	0.35	0.34	0.28	
Age 55-64	Mean	0.67	0.83	0.77	0.94	0.77	0.73	0.84	0.71	0.91	0.84	
	Count	14	18	10	5	51	27	17	23	4	27	0.559
	Std Deviation	0.36	0.23	0.28	0.14	0.29	0.36	0.19	0.30	0.17	0.18	
Age 65-74	Mean	0.72	0.78	0.78	0.83	0.72	0.91	0.76	0.80	0.75	0.78	
	Count	16	12	22	6	53	33	28	25	8	25	0.308
	Std Deviation	0.34	0.28	0.28	0.14	0.31	0.14	0.30	0.28	0.28	0.27	
Age 75+	Mean	0.83	0.74	0.73	0.95	0.72	0.81	0.67	0.80	0.78	0.73	
	Count	3	10	14	4	27	14	9	10	4	13	0.786
	Std Deviation	0.30	0.26	0.37	0.10	0.28	0.19	0.39	0.20	0.20	0.26	
Significance Level of F Test		0.463	0.415	0.001	0.384	0.000	0.001	0.003	0.000	0.341	0.001	

Figure 1.3.1

Weighted Health State Index by Age and Educational Qualifications for Females

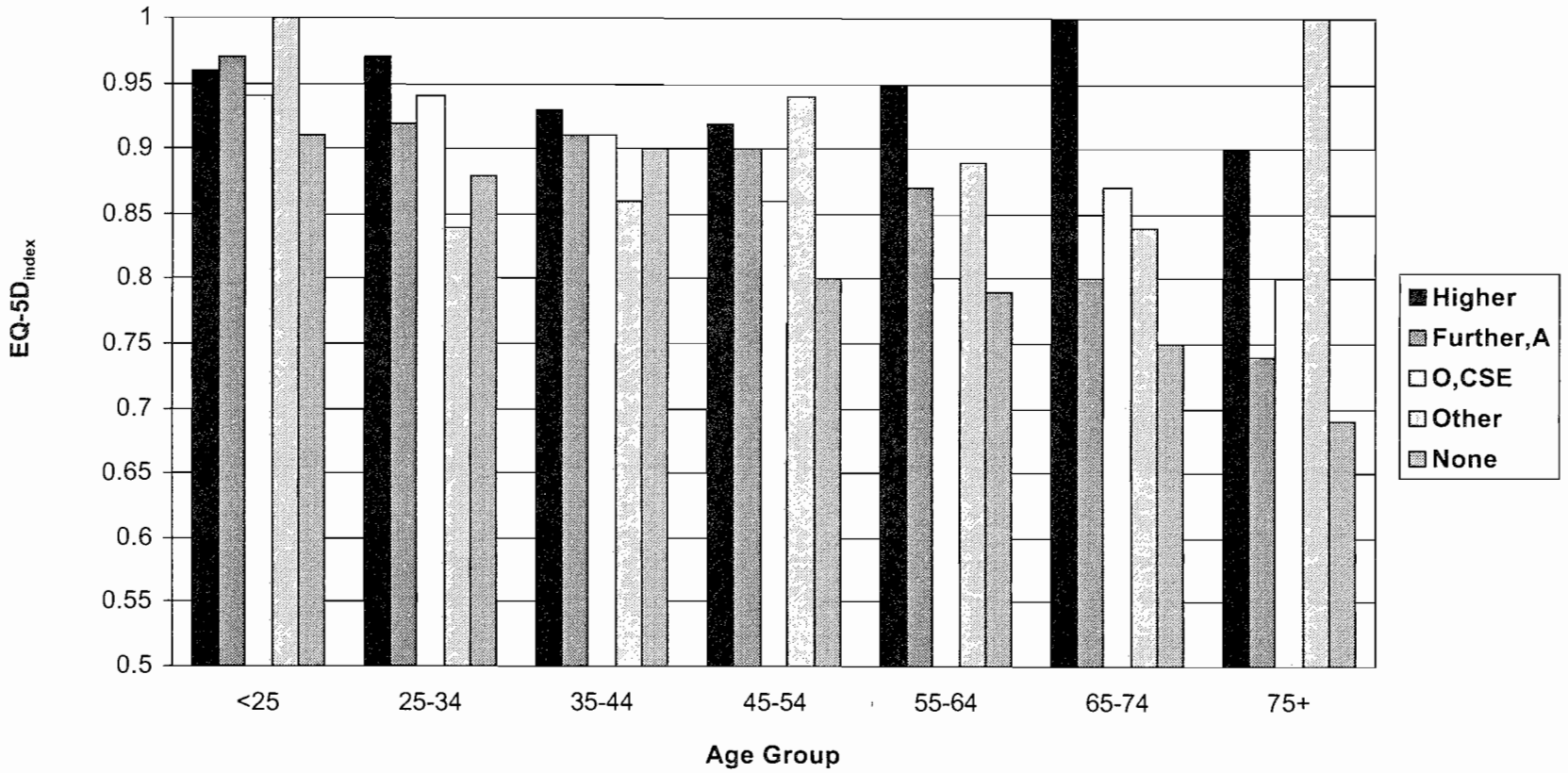

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Table 1.3.1

Weighted Health State Index by Age and Educational Qualifications for Females

		Level of Education					Sig. Level
		Higher	**Further,A**	**O,CSE**	**Other**	**None**	of F Test
All	Mean	0.94	0.90	0.90	0.90	0.78	
	Count	131	342	596	41	815	0.000
	Std Deviation	0.14	0.19	0.18	0.14	0.26	
Age Under 25	Mean	0.96	0.97	0.94	1.00	0.91	
	Count	7	47	91	1	30	0.372
	Std Deviation	0.10	0.08	0.13	.	0.16	
Age 25-34	Mean	0.97	0.92	0.94	0.84	0.88	
	Count	45	115	185	7	71	0.008
	Std Deviation	0.09	0.16	0.13	0.21	0.19	
Age 35-44	Mean	0.93	0.91	0.91	0.86	0.90	
	Count	36	63	115	6	85	0.834
	Std Deviation	0.16	0.19	0.13	0.16	0.16	
Age 45-54	Mean	0.92	0.90	0.86	0.94	0.80	
	Count	28	35	78	12	114	0.012
	Std Deviation	0.19	0.15	0.24	0.10	0.25	
Age 55-64	Mean	0.95	0.87	0.80	0.89	0.79	
	Count	9	40	58	10	171	0.087
	Std Deviation	0.09	0.22	0.25	0.10	0.27	
Age 65-74	Mean	1.00	0.80	0.87	0.84	0.75	
	Count	3	23	46	3	185	0.021
	Std Deviation	0.00	0.27	0.19	0.14	0.26	
Age 75+	Mean	0.90	0.74	0.80	1.00	0.69	
	Count	3	19	23	2	159	0.144
	Std Deviation	0.18	0.24	0.19	0.00	0.28	
Significance Level of F Test		0.669	0.000	0.000	0.525	0.000	

Figure 1.3.2

Weighted Health State Index by Age and Marital Status for Females

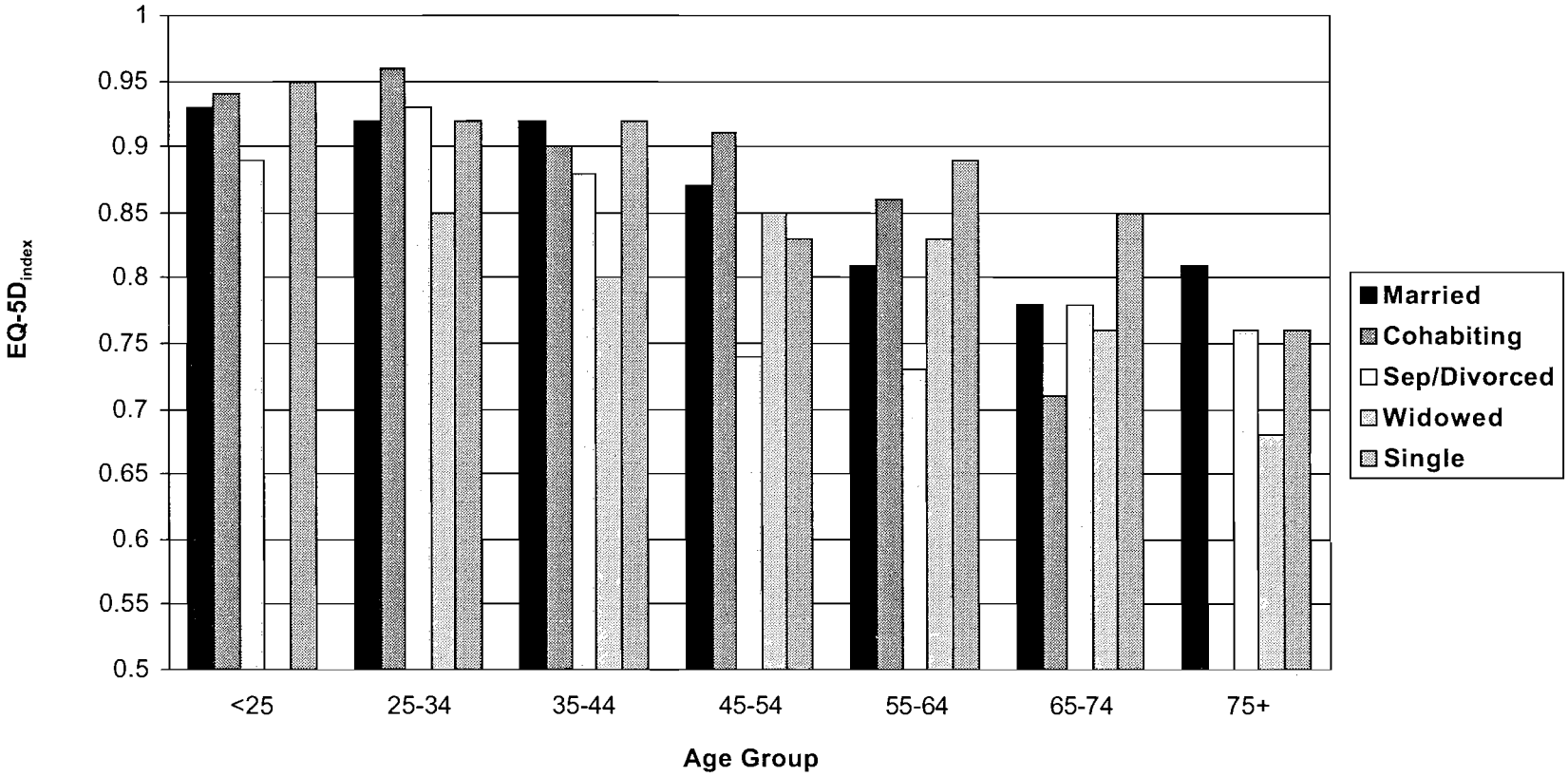

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Table 1.3.2

Weighted Health State Index by Age and Marital Status for Females

		Marital Status					Sig. Level
		Married	**Cohabiting**	**Separated/Divorced**	**Widowed**	**Single**	of F Test
All	Mean	0.87	0.93	0.83	0.74	0.91	
	Count	953	110	245	330	284	0.000
	Std Deviation	0.21	0.12	0.24	0.26	0.17	
Age Under 25	Mean	0.93	0.94	0.89	.	0.95	
	Count	29	32	10	0	105	0.539
	Std Deviation	0.11	0.11	0.23	.	0.12	
Age 25-34	Mean	0.92	0.96	0.93	0.85	0.92	
	Count	232	42	60	1	87	0.472
	Std Deviation	0.17	0.08	0.13	.	0.13	
Age 35-44	Mean	0.92	0.90	0.88	0.80	0.92	
	Count	210	20	56	2	17	0.565
	Std Deviation	0.14	0.16	0.19	0.00	0.18	
Age 45-54	Mean	0.87	0.91	0.74	0.85	0.83	
	Count	185	8	43	15	15	0.013
	Std Deviation	0.20	0.12	0.32	0.13	0.25	
Age 55-64	Mean	0.81	0.86	0.73	0.83	0.89	
	Count	161	6	44	62	15	0.165
	Std Deviation	0.27	0.16	0.29	0.20	0.15	
Age 65-74	Mean	0.78	0.71	0.78	0.76	0.85	
	Count	104	2	23	103	27	0.569
	Std Deviation	0.28	0.12	0.19	0.24	0.24	
Age 75+	Mean	0.81	.	0.76	0.68	0.76	
	Count	32	0	9	147	18	0.100
	Std Deviation	0.20	.	0.06	0.28	0.26	
Significance Level of F Test		0.000	0.013	0.000		0.000	

Figure 1.3.3

Weighted Health State Index by Age and Smoking Status for Females

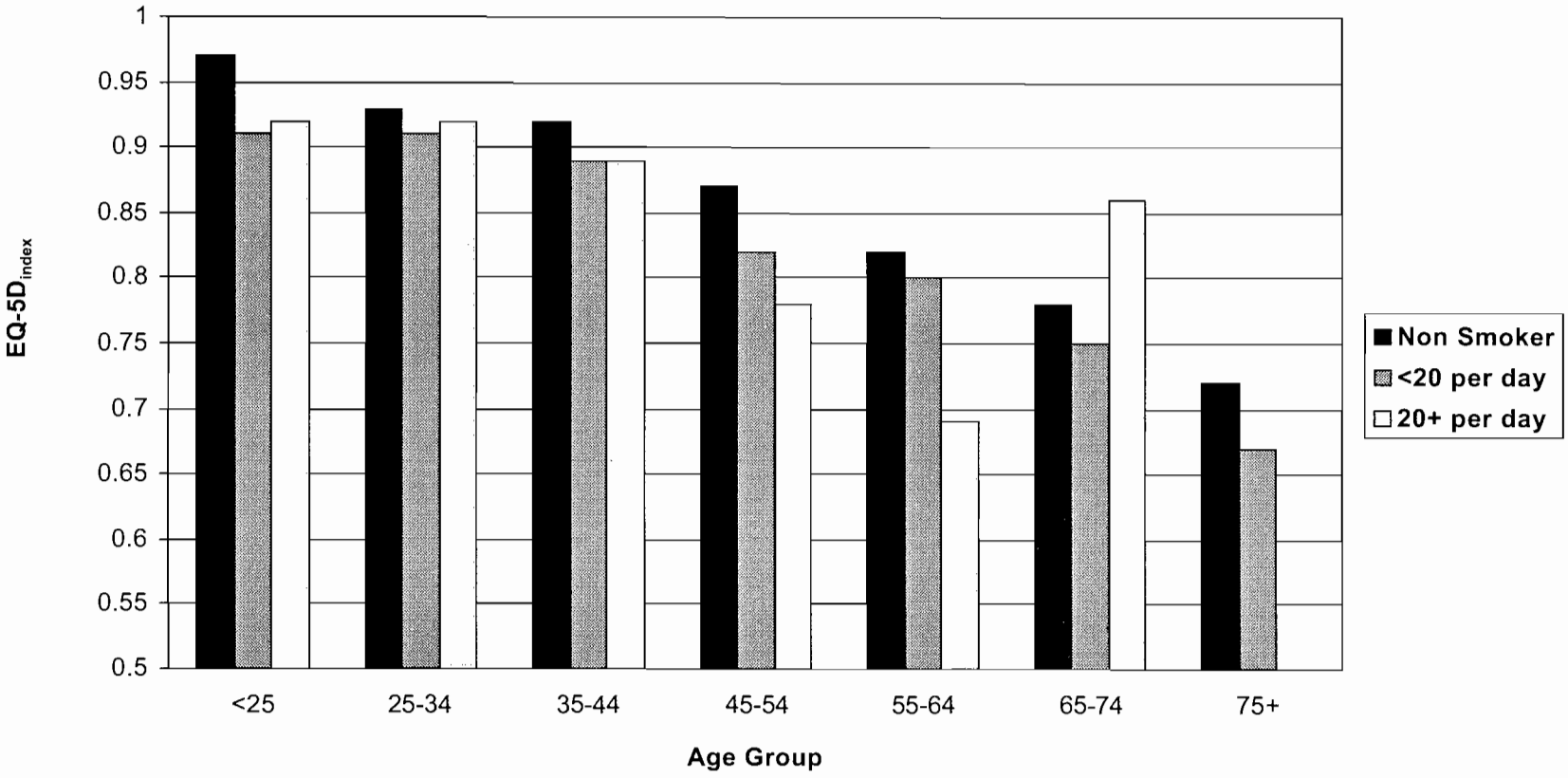

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Table 1.3.3

Weighted Health State Index by Age and Smoking Status for Females

		Smoker			Sig. Level
		Non smoker	**<20 pd**	**20+ pd**	of F Test
All	Mean	0.85	0.85	0.85	
	Count	1343	412	167	0.966
	Std Deviation	0.22	0.23	0.22	
Age Under 25	Mean	0.97	0.91	0.92	
	Count	93	61	22	0.028
	Std Deviation	0.08	0.16	0.12	
Age 25-34	Mean	0.93	0.91	0.92	
	Count	267	112	43	0.563
	Std Deviation	0.16	0.14	0.14	
Age 35-44	Mean	0.92	0.89	0.89	
	Count	203	65	37	0.300
	Std Deviation	0.14	0.18	0.16	
Age 45-54	Mean	0.87	0.82	0.78	
	Count	170	62	34	0.080
	Std Deviation	0.21	0.25	0.25	
Age 55-64	Mean	0.82	0.80	0.69	
	Count	219	47	22	0.051
	Std Deviation	0.24	0.28	0.33	
Age 65-74	Mean	0.78	0.75	0.86	
	Count	211	40	8	0.478
	Std Deviation	0.25	0.30	0.16	
Age 75+	Mean	0.72	0.67	0.09	
	Count	180	25	1	0.047
	Std Deviation	0.26	0.30	.	
Significance Level of F Test		0.000	0.000	0.000	

Figure 1.3.4

Weighted Health State Index by Age and Housing Tenure for Females

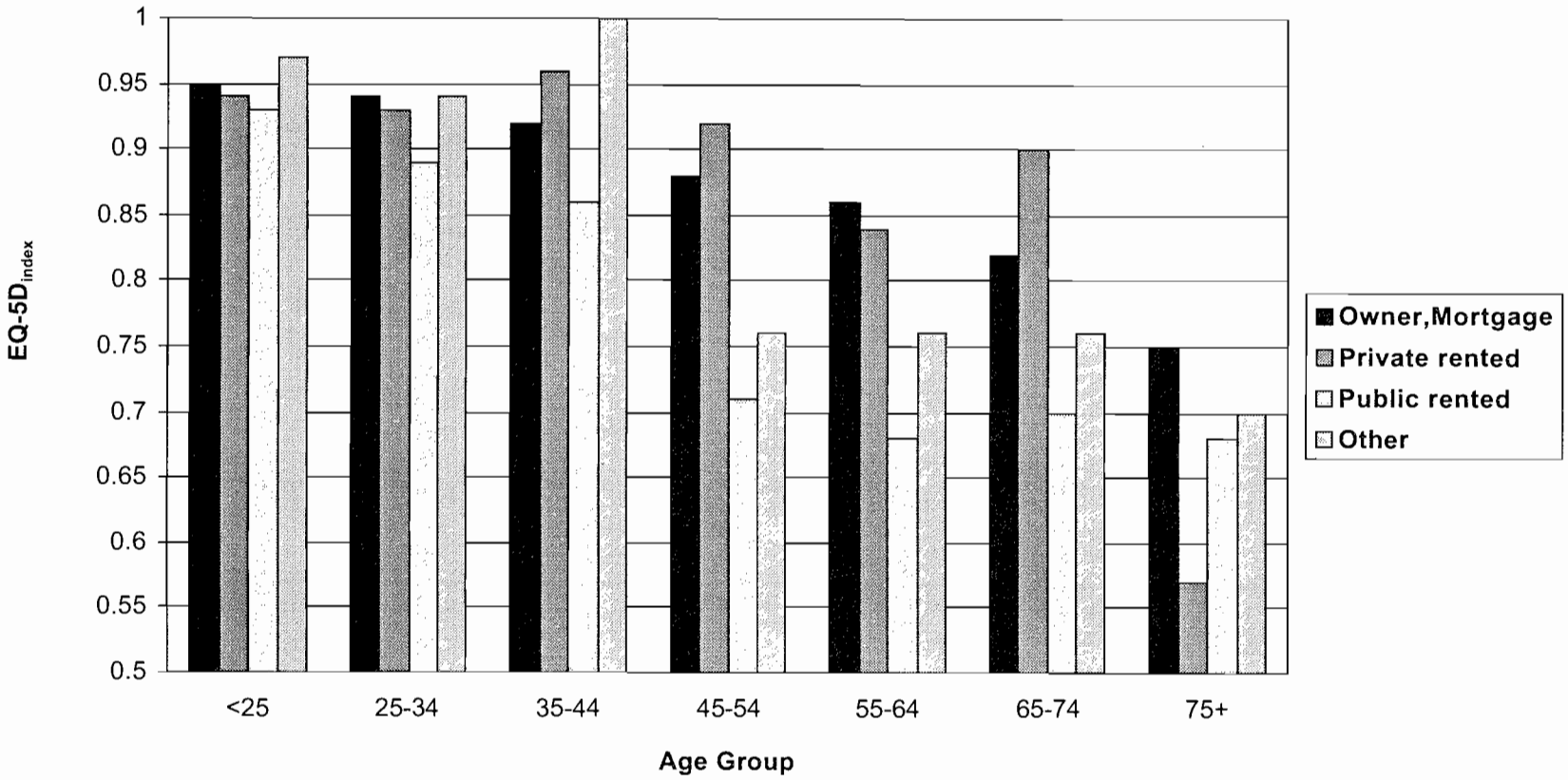

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Table 1.3.4

Weighted Health State Index by Age and Housing Tenure for Females

		Tenure				Sig. Level
		Owner/Mortgage	**Private rented**	**Public rented**	**Other**	of F Test
All	Mean	0.88	0.89	0.77	0.87	
	Count	1222	138	525	35	0.000
	Std Deviation	0.19	0.21	0.27	0.17	
Age Under 25	Mean	0.95	0.94	0.93	0.97	
	Count	73	34	58	9	0.746
	Std Deviation	0.11	0.14	0.14	0.07	
Age 25-34	Mean	0.94	0.93	0.89	0.94	
	Count	287	33	98	5	0.073
	Std Deviation	0.12	0.18	0.20	0.08	
Age 35-44	Mean	0.92	0.96	0.86	1.00	
	Count	222	18	59	6	0.056
	Std Deviation	0.15	0.09	0.20	0.00	
Age 45-54	Mean	0.88	0.92	0.71	0.76	
	Count	197	14	54	2	0.000
	Std Deviation	0.19	0.12	0.30	0.05	
Age 55-64	Mean	0.86	0.84	0.68	0.76	
	Count	189	15	78	5	0.000
	Std Deviation	0.21	0.26	0.30	0.29	
Age 65-74	Mean	0.82	0.90	0.70	0.76	
	Count	157	10	90	3	0.001
	Std Deviation	0.22	0.11	0.29	0.08	
Age 75+	Mean	0.75	0.57	0.68	0.70	
	Count	97	14	88	5	0.084
	Std Deviation	0.25	0.32	0.27	0.17	
Significance Level of F Test		0.000	0.000	0.000	0.004	

Figure 1.3.5

Weighted Health State Index by Age and Social Class for Females

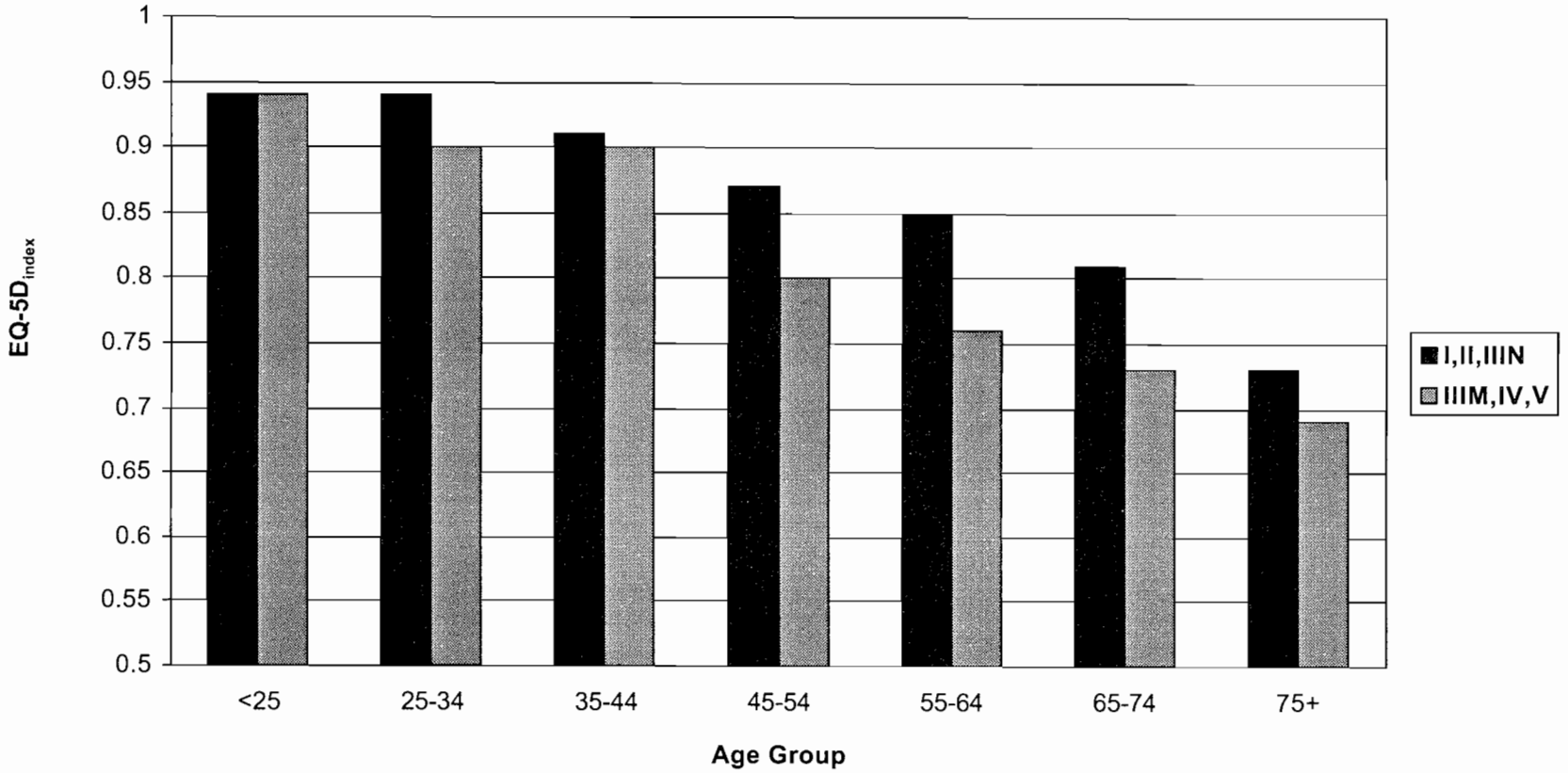

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Table 1.3.5

Weighted Health State Index by Age and Social Class for Females

		Social Class		Sig. Level
		Non-manual	**Manual**	of F Test
All	Mean	0.88	0.81	
	Count	1113	743	0.000
	Std Deviation	0.20	0.25	
Age Under 25	Mean	0.94	0.94	
	Count	80	76	0.919
	Std Deviation	0.13	0.12	
Age 25-34	Mean	0.94	0.90	
	Count	287	125	0.003
	Std Deviation	0.13	0.17	
Age 35-44	Mean	0.91	0.90	
	Count	188	108	0.730
	Std Deviation	0.15	0.17	
Age 45-54	Mean	0.87	0.80	
	Count	176	90	0.009
	Std Deviation	0.21	0.26	
Age 55-64	Mean	0.85	0.76	
	Count	153	129	0.002
	Std Deviation	0.20	0.29	
Age 65-74	Mean	0.81	0.73	
	Count	139	109	0.021
	Std Deviation	0.24	0.27	
Age 75+	Mean	0.73	0.69	
	Count	90	106	0.327
	Std Deviation	0.27	0.27	
Significance Level of F Test		0.000	0.000	

Figure 1.3.6

Weighted Health State Index by Age and Standard Region for Females

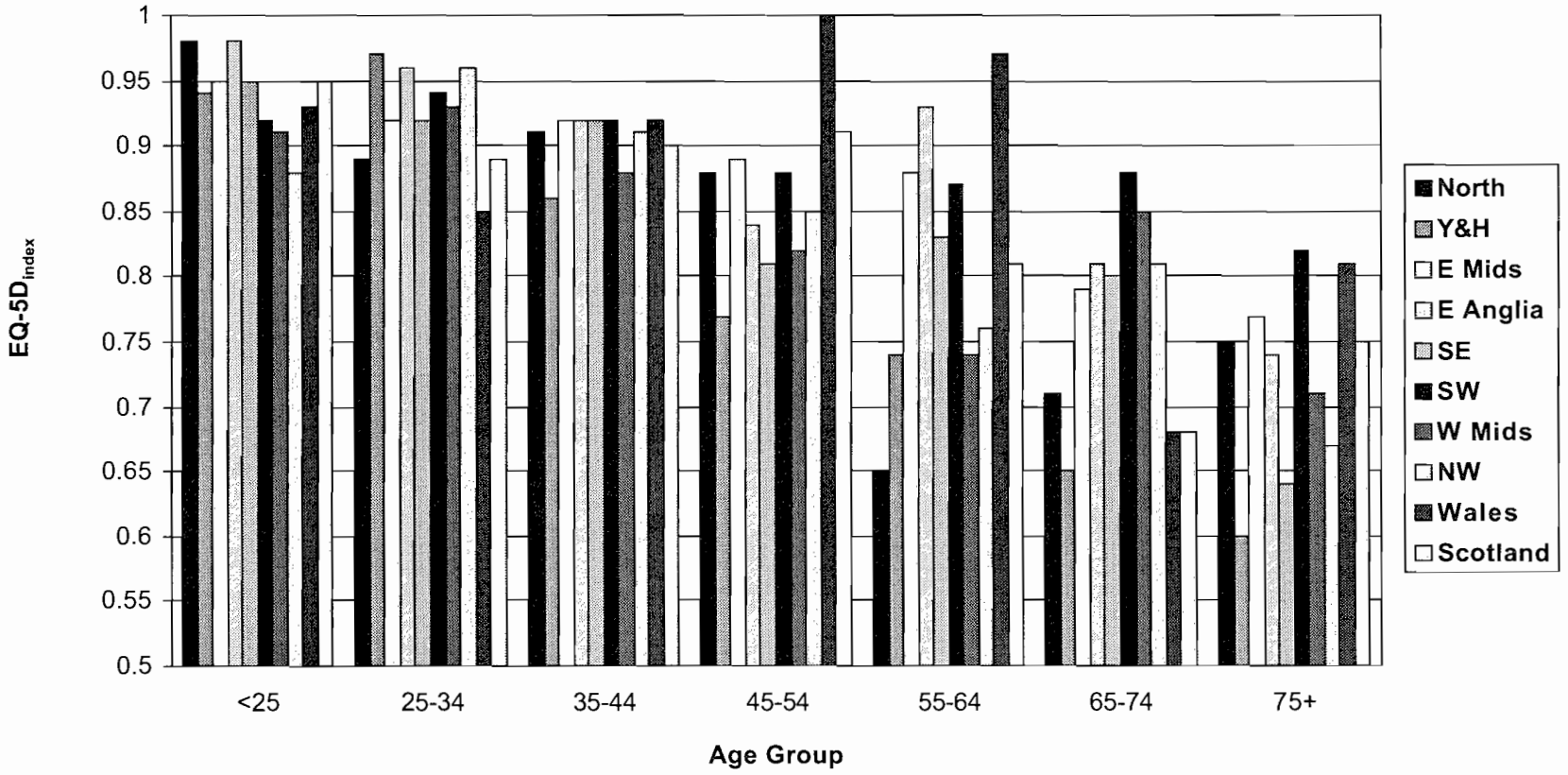

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Table 1.3.6

Weighted Health State Index by Age and Standard Region for Females

		Region										Sig. Level
		North	Y&H	E Mids	E Anglia	SE	SW	W Mids	NW	Wales	Scotland	of F Test
All	Mean	0.81	0.80	0.89	0.89	0.85	0.89	0.84	0.85	0.86	0.84	
	Count	122	155	191	85	492	193	167	243	77	200	0.001
	Std Deviation	0.24	0.27	0.18	0.16	0.22	0.16	0.22	0.23	0.23	0.24	
Age Under 25	Mean	0.98	0.94	0.95	0.98	0.95	0.92	0.91	0.88	0.93	0.95	
	Count	10	22	18	11	52	11	18	10	7	17	0.679
	Std Deviation	0.06	0.10	0.10	0.08	0.09	0.21	0.16	0.24	0.13	0.10	
Age 25-34	Mean	0.89	0.97	0.92	0.96	0.92	0.94	0.93	0.96	0.85	0.89	
	Count	23	28	55	14	100	42	34	58	24	45	0.043
	Std Deviation	0.12	0.08	0.17	0.11	0.15	0.10	0.11	0.07	0.28	0.21	
Age 35-44	Mean	0.91	0.86	0.92	0.92	0.92	0.92	0.88	0.91	0.92	0.90	
	Count	15	23	30	14	85	32	28	30	14	34	0.789
	Std Deviation	0.10	0.20	0.12	0.11	0.14	0.18	0.22	0.12	0.18	0.17	
Age 45-54	Mean	0.88	0.77	0.89	0.84	0.81	0.88	0.82	0.85	1.00	0.91	
	Count	18	13	29	10	72	28	25	49	4	19	0.439
	Std Deviation	0.14	0.32	0.16	0.26	0.27	0.17	0.28	0.22	0.00	0.11	
Age 55-64	Mean	0.65	0.74	0.88	0.93	0.83	0.87	0.74	0.76	0.97	0.81	
	Count	18	30	25	15	74	29	19	38	8	32	0.009
	Std Deviation	0.38	0.31	0.15	0.11	0.23	0.14	0.26	0.30	0.08	0.23	
Age 65-74	Mean	0.71	0.65	0.79	0.81	0.80	0.88	0.85	0.81	0.68	0.68	
	Count	18	22	19	12	66	29	20	35	12	27	0.013
	Std Deviation	0.28	0.34	0.27	0.19	0.21	0.20	0.17	0.23	0.23	0.33	
Age 75+	Mean	0.75	0.60	0.77	0.74	0.64	0.82	0.71	0.67	0.81	0.75	
	Count	20	17	15	9	43	22	23	23	8	26	0.186
	Std Deviation	0.22	0.23	0.21	0.15	0.34	0.15	0.26	0.29	0.27	0.30	
Significance Level of F Test		0.000	0.000	0.005	0.003	0.000	0.056	0.002	0.000	0.042	0.000	

SECTION 2

Self Rated Health Status
$EQ\text{-}5D_{vas}$

Whole Population
Males
Females

Figure 2.1.1

Self Rated Health Status by Age and Educational Qualifications

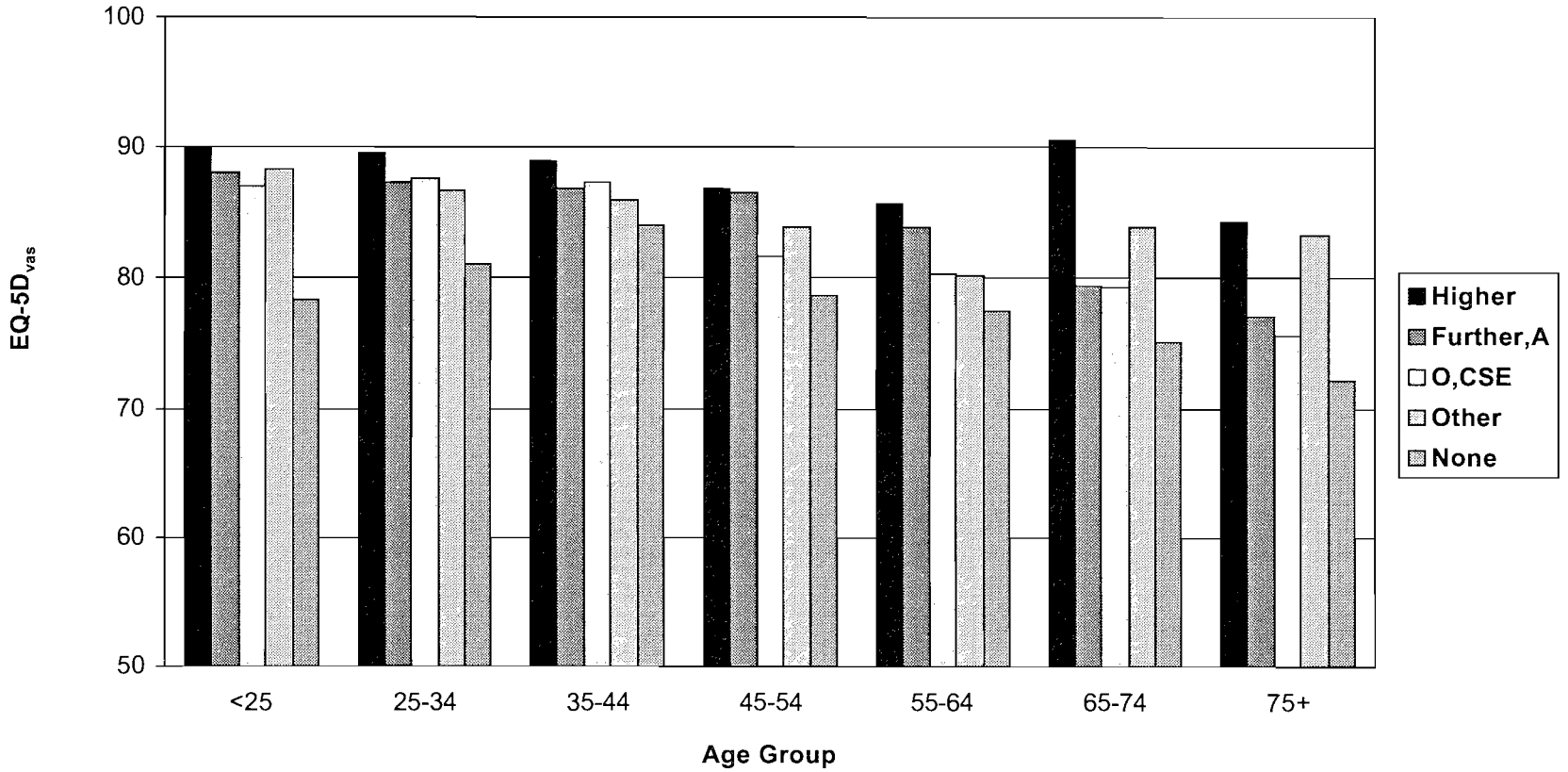

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Table 2.1.1

Self Rated Health Status by Age and Educational Qualifications

		Level of Education					Sig. Level
		Higher	**Further,A**	**O,CSE**	**Other**	**None**	of F Test
All	Mean	88.50	86.06	84.46	83.70	77.30	
	Count	311	682	1044	92	1248	0.000
	Std Deviation	12.55	14.28	15.70	14.66	18.99	
Age Under 25	Mean	90.00	88.06	87.09	88.33	78.44	
	Count	18	102	141	3	39	0.002
	Std Deviation	13.41	11.48	13.64	2.89	16.53	
Age 25-34	Mean	89.54	87.40	87.62	86.73	81.05	
	Count	101	224	307	11	110	0.000
	Std Deviation	11.44	14.02	13.99	8.40	17.64	
Age 35-44	Mean	89.01	86.90	87.37	86.00	84.01	
	Count	80	136	182	10	151	0.076
	Std Deviation	13.05	12.73	12.43	21.08	15.75	
Age 45-54	Mean	86.86	86.63	81.65	83.91	78.65	
	Count	56	79	141	23	187	0.003
	Std Deviation	13.88	13.43	19.57	13.96	19.71	
Age 55-64	Mean	85.67	83.96	80.31	80.18	77.48	
	Count	30	72	116	22	239	0.028
	Std Deviation	12.72	15.93	17.84	18.76	19.29	
Age 65-74	Mean	90.56	79.43	79.26	83.94	75.12	
	Count	18	46	107	17	298	0.001
	Std Deviation	11.70	17.61	14.93	11.68	19.25	
Age 75+	Mean	84.38	77.13	75.62	83.33	72.22	
	Count	8	23	50	6	223	0.138
	Std Deviation	10.84	19.89	16.77	9.83	19.10	
Significance Level of F Test		0.556	0.000	0.000	0.898	0.000	

Figure 2.1.2

Self Rated Health Status by Age and Marital Status

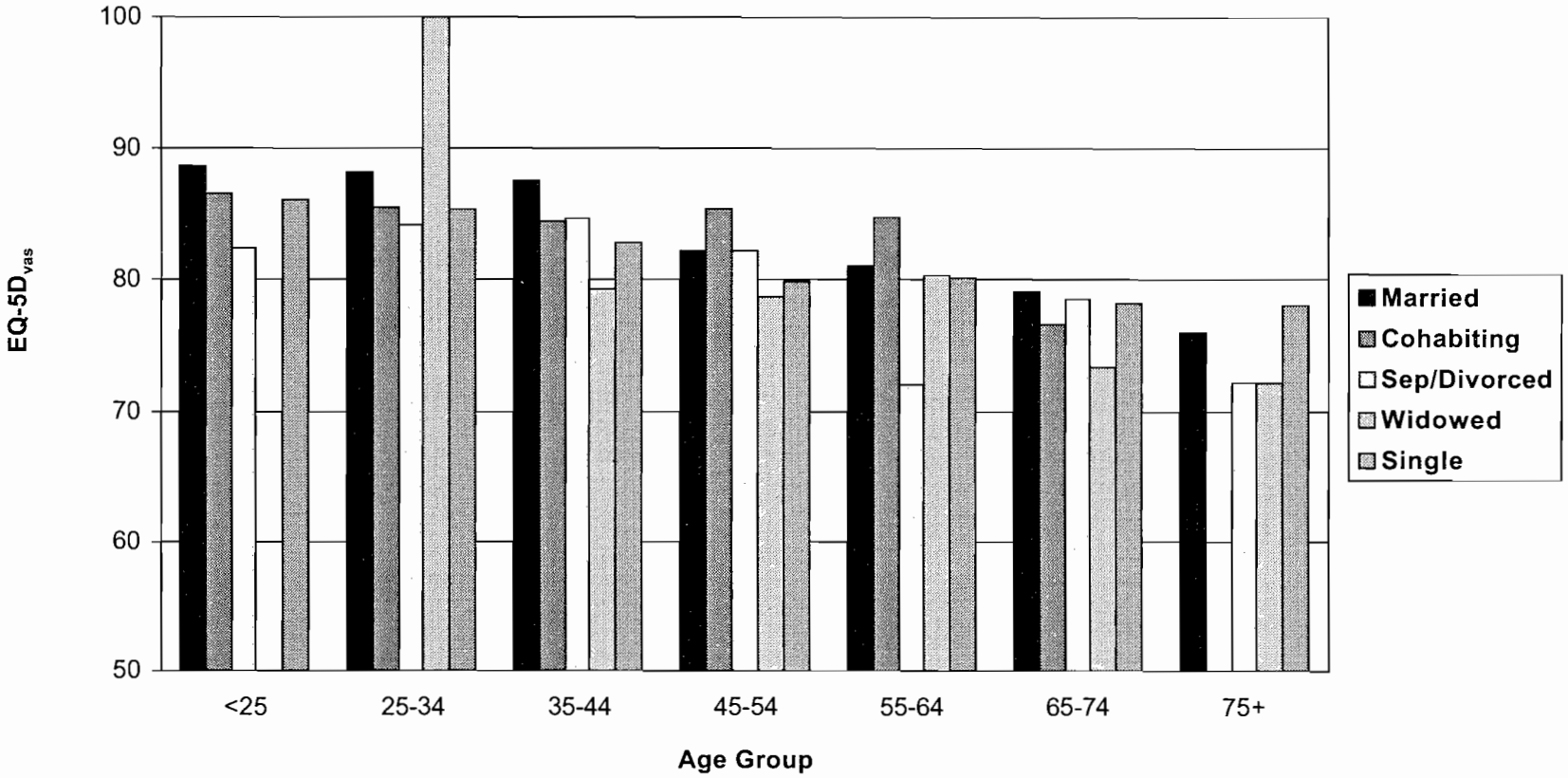

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Table 2.1.2

Self Rated Health Status by Age and Marital Status

		Marital Status					Sig. Level
		Married	**Cohabiting**	**Separated/Divorced**	**Widowed**	**Single**	of F Test
All	Mean	83.96	85.29	80.63	74.36	83.97	
	Count	1837	185	354	427	572	0.000
	Std Deviation	16.11	15.22	17.83	19.07	16.15	
Age Under 25	Mean	88.68	86.63	82.42	.	86.18	
	Count	47	43	12	0	201	0.495
	Std Deviation	11.97	14.94	12.84	.	13.72	
Age 25-34	Mean	88.26	85.57	84.30	100.00	85.39	
	Count	398	82	86	1	185	0.042
	Std Deviation	13.41	15.46	15.62	.	15.18	
Age 35-44	Mean	87.64	84.47	84.68	79.25	82.83	
	Count	398	32	72	4	53	0.049
	Std Deviation	12.10	16.21	15.23	21.88	19.67	
Age 45-54	Mean	82.25	85.46	82.29	78.65	79.84	
	Count	344	13	72	20	37	0.781
	Std Deviation	18.59	13.92	16.42	15.71	20.28	
Age 55-64	Mean	81.04	84.78	72.06	80.42	80.17	
	Count	305	9	66	71	29	0.008
	Std Deviation	17.42	15.06	22.06	17.68	15.82	
Age 65-74	Mean	79.18	76.67	78.58	73.29	78.30	
	Count	262	6	31	143	43	0.037
	Std Deviation	16.45	14.38	18.29	20.19	18.63	
Age 75+	Mean	75.99	.	72.13	72.19	78.17	
	Count	83	0	15	188	24	0.264
	Std Deviation	19.27	.	16.61	18.46	18.45	
Significance Level of F Test		0.000	0.797	0.000		0.006	

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Figure 2.1.3

Self Rated Health Status by Age and Smoking Status

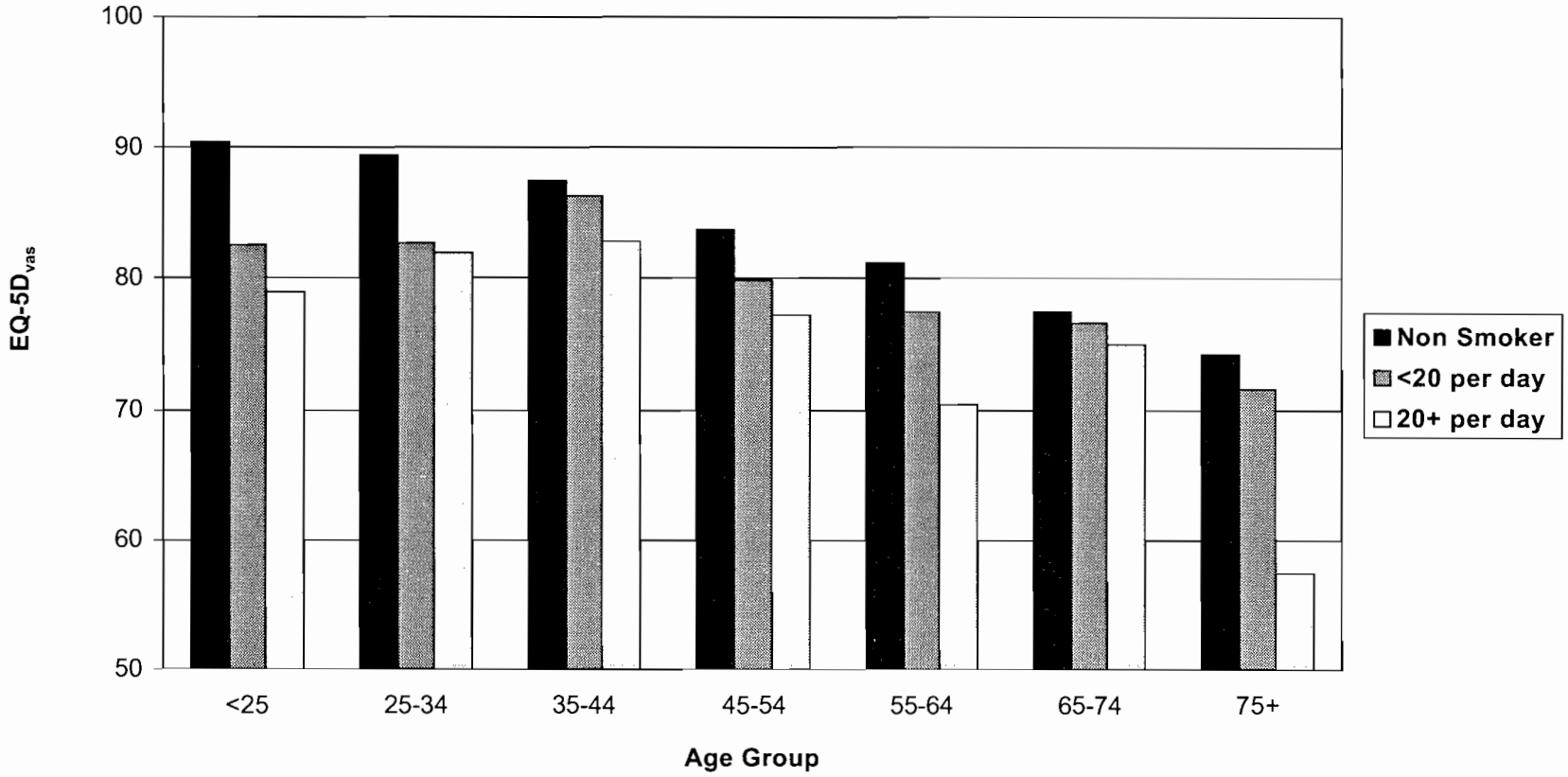

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Table 2.1.3

Self Rated Health Status by Age and Smoking Status

		Smoker			Sig. Level
		Non smoker	**<20 pd**	**20+ pd**	of F Test
All	Mean	83.43	81.14	78.58	
	Count	2332	694	341	0.000
	Std Deviation	16.57	16.61	19.59	
Age Under 25	Mean	90.43	82.62	79.06	
	Count	165	105	33	0.000
	Std Deviation	11.12	15.02	13.88	
Age 25-34	Mean	89.39	82.74	82.05	
	Count	472	196	84	0.000
	Std Deviation	12.42	16.22	16.97	
Age 35-44	Mean	87.44	86.32	82.89	
	Count	366	116	75	0.033
	Std Deviation	13.02	14.62	15.57	
Age 45-54	Mean	83.76	79.86	77.28	
	Count	311	98	75	0.009
	Std Deviation	16.82	18.38	22.08	
Age 55-64	Mean	81.25	77.47	70.40	
	Count	361	73	43	0.001
	Std Deviation	16.94	17.36	25.86	
Age 65-74	Mean	77.53	76.66	75.04	
	Count	390	67	27	0.753
	Std Deviation	18.38	16.54	17.72	
Age 75+	Mean	74.22	71.51	57.50	
	Count	267	39	4	0.152
	Std Deviation	18.79	15.68	29.86	
Significance Level of F Test		0.000	0.000	0.003	

Figure 2.1.4

Self Rated Health Status by Age and Housing Tenure

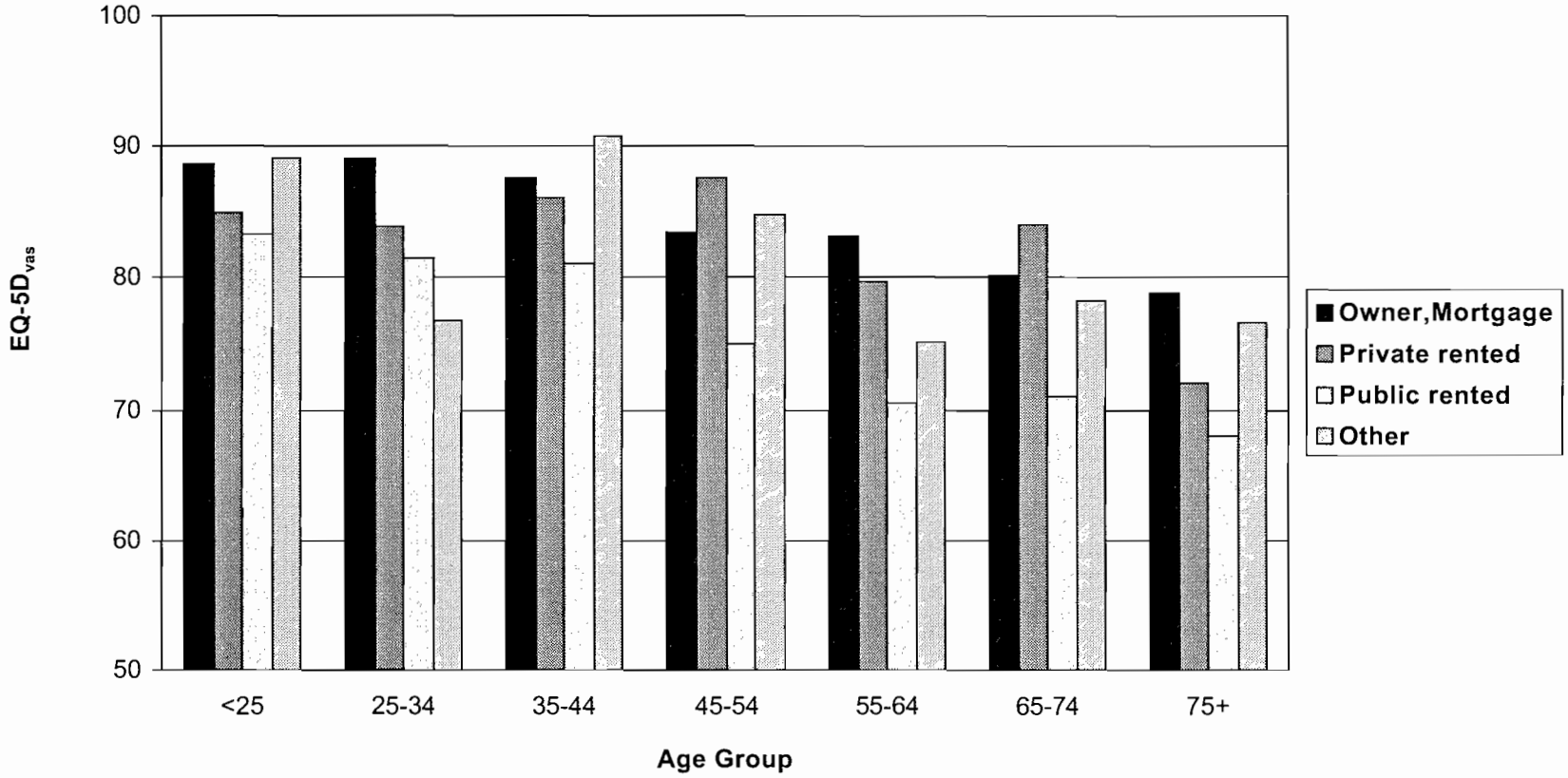

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Table 2.1.4

Self Rated Health Status by Age and Housing Tenure

		Tenure				Sig. Level
		Owner/Mortgage	Private rented	Public rented	Other	of F Test
All	Mean	85.09	83.29	75.23	82.40	
	Count	2218	262	827	63	0.000
	Std Deviation	14.71	15.26	20.53	19.17	
Age Under 25	Mean	88.62	84.92	83.30	89.10	
	Count	150	59	82	10	0.025
	Std Deviation	12.36	13.98	15.02	13.96	
Age 25-34	Mean	89.09	83.96	81.60	76.86	
	Count	511	78	150	14	0.000
	Std Deviation	11.54	15.65	18.54	26.78	
Age 35-44	Mean	87.71	86.19	81.14	90.75	
	Count	416	36	95	12	0.000
	Std Deviation	12.53	12.84	18.23	6.00	
Age 45-54	Mean	83.46	87.70	75.07	84.88	
	Count	357	23	98	8	0.000
	Std Deviation	16.70	10.57	22.15	24.56	
Age 55-64	Mean	83.14	79.74	70.51	75.14	
	Count	329	27	115	7	0.000
	Std Deviation	15.39	15.52	22.65	20.82	
Age 65-74	Mean	80.16	84.13	70.98	78.33	
	Count	310	15	154	6	0.000
	Std Deviation	16.15	18.94	20.10	15.06	
Age 75+	Mean	78.81	72.00	67.97	76.67	
	Count	145	24	133	6	0.000
	Std Deviation	16.30	17.05	19.91	13.66	
Significance Level of F Test		0.000	0.000	0.004	0.366	

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Figure 2.1.5

Self Rated Health Status by Age and Social Class

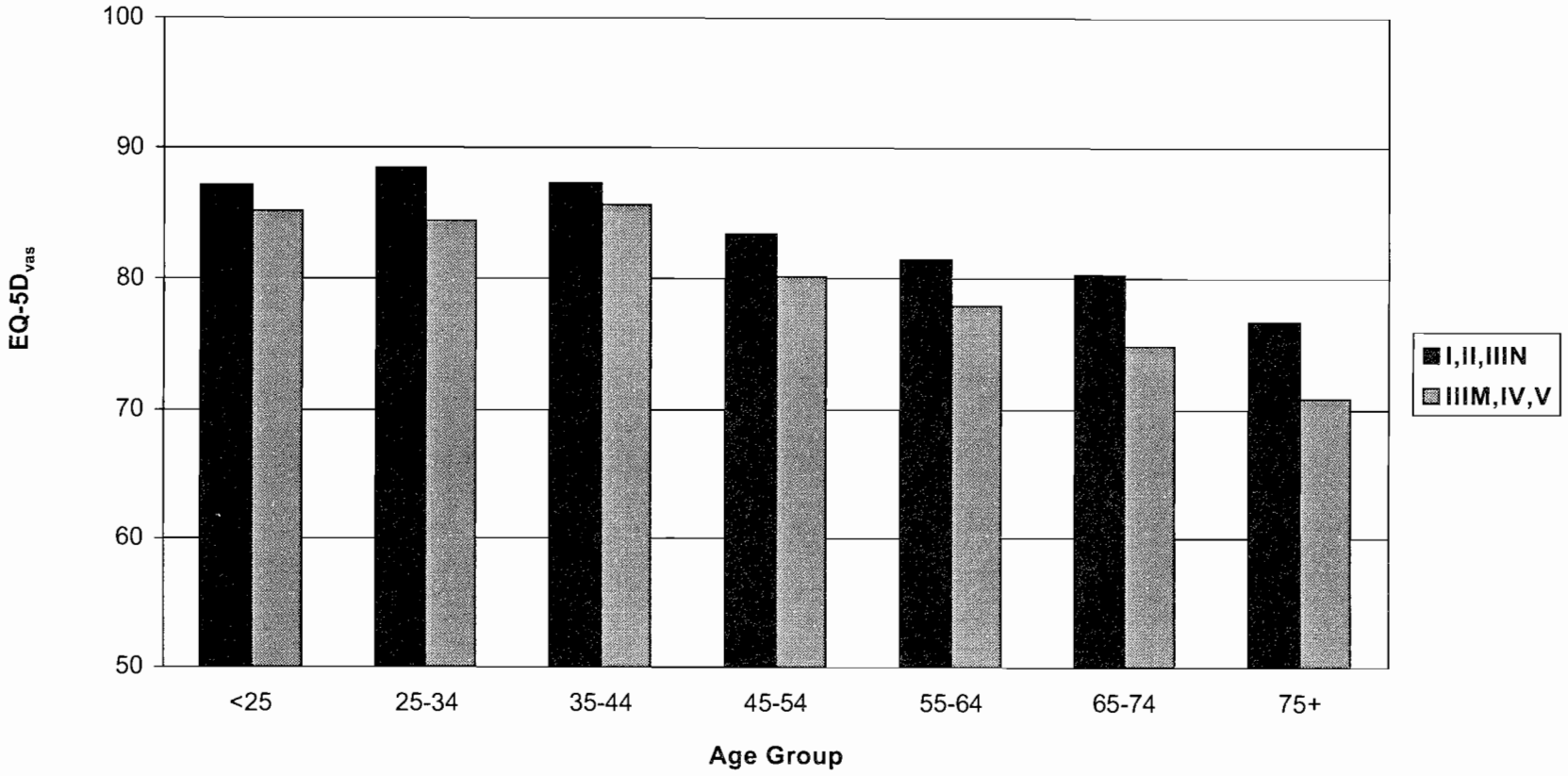

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Table 2.1.5

Self Rated Health Status by Age and Social Class

		Social Class		Sig. Level
		Non-manual	**Manual**	of F Test
All	Mean	84.63	79.99	
	Count	1772	1500	0.000
	Std Deviation	15.60	18.19	
Age Under 25	Mean	87.24	85.32	
	Count	131	139	0.262
	Std Deviation	13.52	14.57	
Age 25-34	Mean	88.53	84.47	
	Count	460	272	0.000
	Std Deviation	12.41	16.18	
Age 35-44	Mean	87.39	85.73	
	Count	317	229	0.168
	Std Deviation	13.57	14.12	
Age 45-54	Mean	83.44	80.26	
	Count	273	211	0.056
	Std Deviation	17.06	19.46	
Age 55-64	Mean	81.57	77.95	
	Count	243	228	0.031
	Std Deviation	17.01	19.37	
Age 65-74	Mean	80.31	74.84	
	Count	222	249	0.001
	Std Deviation	17.22	18.41	
Age 75+	Mean	76.80	70.78	
	Count	126	172	0.006
	Std Deviation	17.63	19.08	
Significance Level of F Test		0.000	0.000	

Figure 2.1.6

Self Rated Health Status by Age and Standard Region

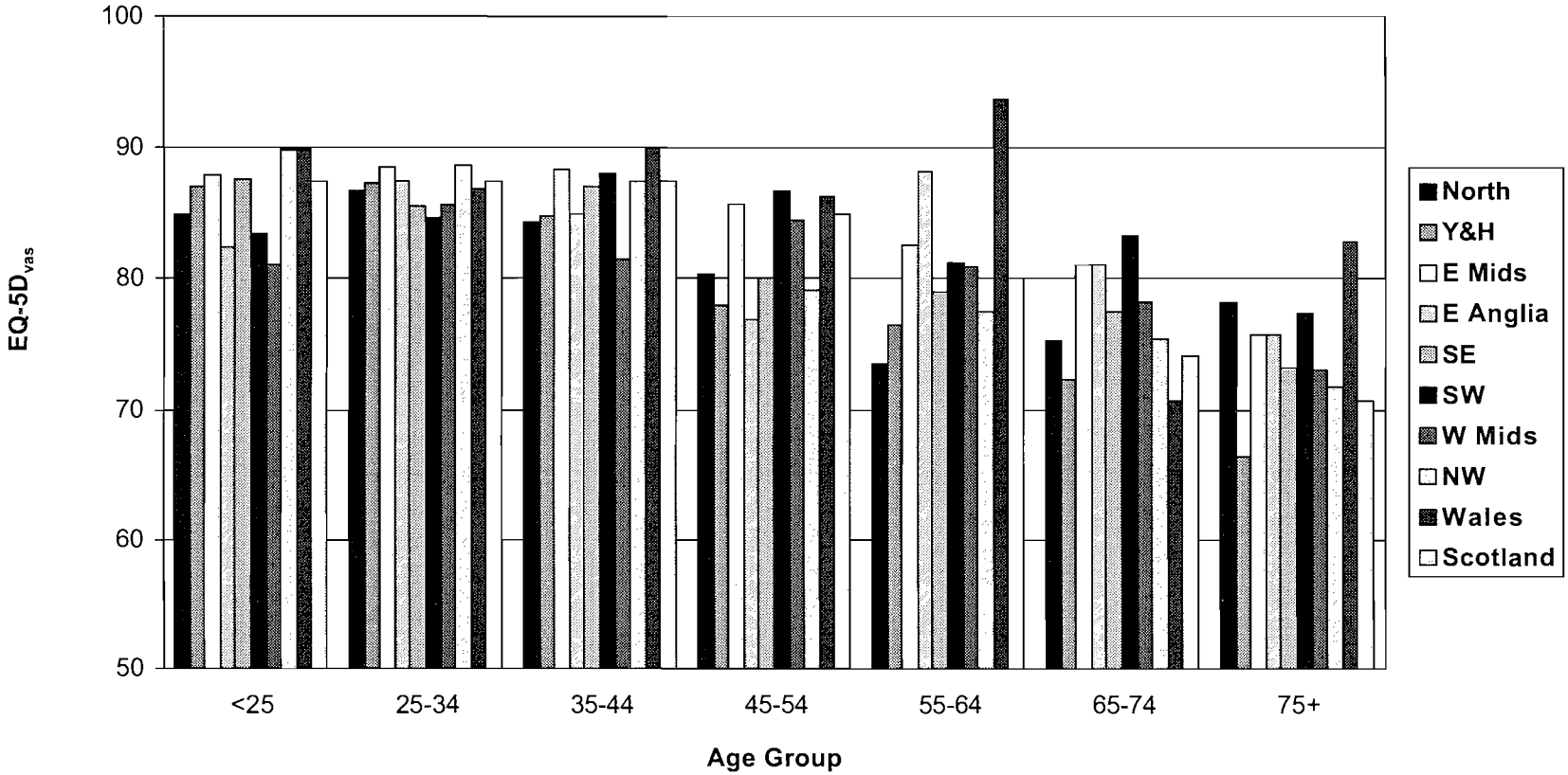

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Table 2.1.6

Self Rated Health Status by Age and Standard Region

		Region										Sig. Level
		North	**Y&H**	**E Mids**	**E Anglia**	**SE**	**SW**	**W Mids**	**NW**	**Wales**	**Scotland**	of F Test
All	Mean	80.58	79.76	85.57	83.26	82.07	84.01	81.43	82.00	85.21	82.24	
	Count	208	266	358	135	838	363	311	423	117	359	0.001
	Std Deviation	17.82	18.16	14.50	12.42	17.50	15.30	16.71	18.08	17.50	17.79	
Age Under 25	Mean	85.00	87.03	88.00	82.47	87.65	83.46	81.07	89.88	89.83	87.54	
	Count	15	29	31	17	82	24	30	26	12	37	0.261
	Std Deviation	12.68	13.75	11.97	11.65	12.39	14.81	18.06	12.48	12.63	14.15	
Age 25-34	Mean	86.79	87.29	88.52	87.45	85.57	84.63	85.71	88.67	86.86	87.51	
	Count	42	52	105	22	176	73	66	104	29	84	0.652
	Std Deviation	14.02	15.54	13.55	9.68	15.12	14.71	15.03	12.87	18.12	14.18	
Age 35-44	Mean	84.44	84.84	88.34	85.00	87.02	88.08	81.51	87.51	90.00	87.45	
	Count	34	44	65	30	141	62	51	59	22	51	0.183
	Std Deviation	16.02	15.08	9.99	9.52	14.14	14.85	16.38	11.22	14.55	14.05	
Age 45-54	Mean	80.34	78.00	85.77	77.00	80.13	86.70	84.49	79.20	86.33	84.97	
	Count	29	32	52	15	127	53	49	81	12	37	0.101
	Std Deviation	20.71	20.78	14.95	20.92	19.12	10.35	16.51	20.55	18.72	16.64	
Age 55-64	Mean	73.45	76.48	82.63	88.20	79.05	81.25	80.97	77.58	93.73	80.00	
	Count	32	48	35	20	124	56	36	60	11	59	0.029
	Std Deviation	21.57	18.15	15.68	8.85	19.21	18.37	16.32	19.08	7.54	17.82	
Age 65-74	Mean	75.35	72.35	81.05	81.11	77.48	83.30	78.31	75.43	70.65	74.17	
	Count	34	34	41	18	119	60	48	60	20	52	0.044
	Std Deviation	16.77	19.54	14.75	13.44	18.67	15.17	13.74	20.42	20.80	20.97	
Age 75+	Mean	78.26	66.44	75.69	75.77	73.26	77.40	73.10	71.70	82.91	70.62	
	Count	23	27	29	13	69	35	31	33	11	39	0.239
	Std Deviation	17.36	14.72	20.04	8.38	19.43	16.77	21.16	20.80	12.33	19.74	
Significance Level of F Test		0.013	0.000	0.000	0.014	0.000	0.022	0.016	0.000	0.002	0.000	

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Figure 2.2.1

Self Rated Health Status by Age and Educational Qualifications for Males

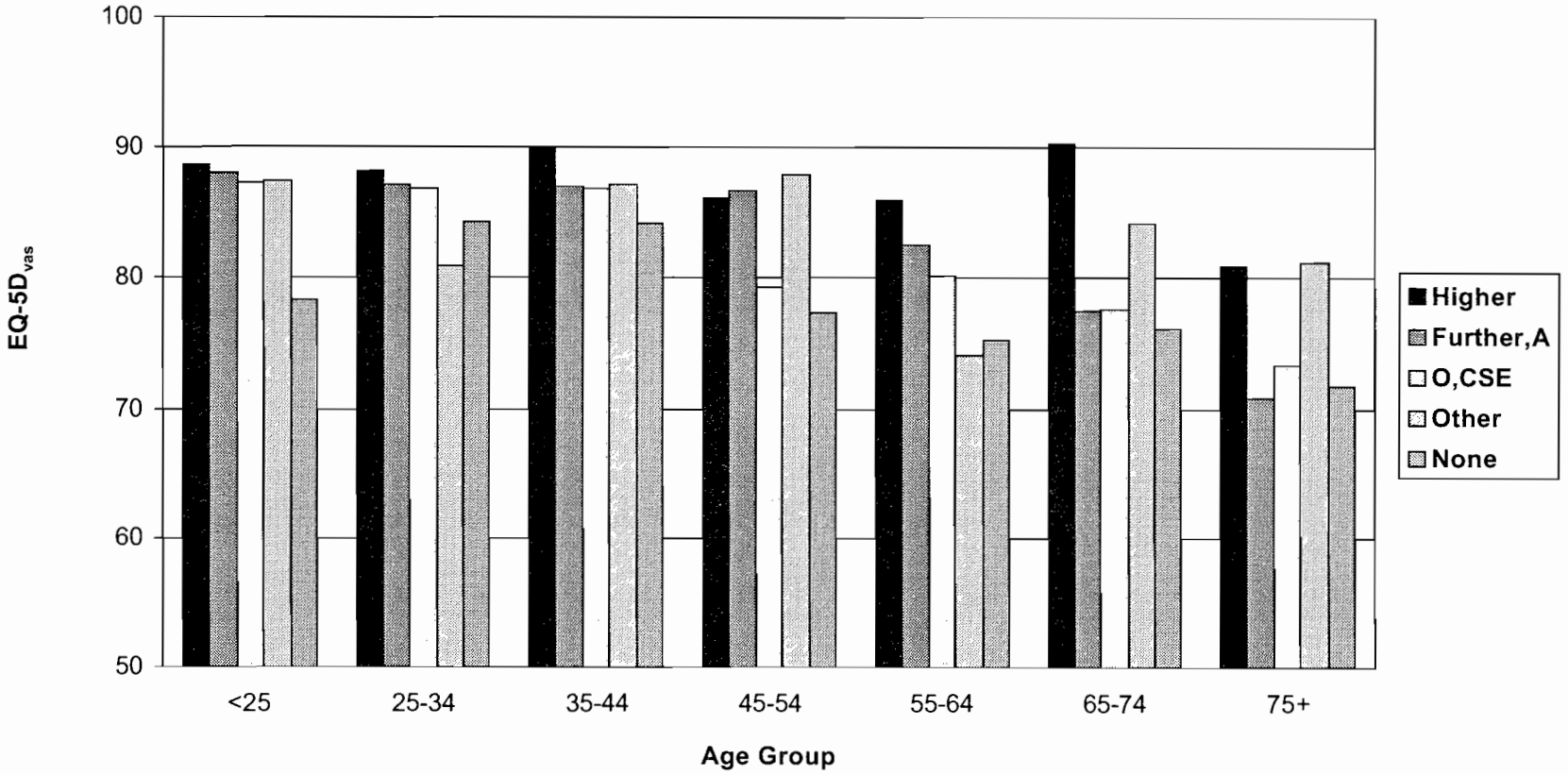

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Table 2.2.1

Self Rated Health Status by Age and Educational Qualifications for Males

		Level of Education					Sig. Level
		Higher	**Further,A**	**O,CSE**	**Other**	**None**	of F Test
All	Mean	88.11	85.89	82.94	82.53	77.59	
	Count	181	342	453	51	434	0.000
	Std Deviation	10.95	14.73	16.71	14.93	19.64	
Age Under 25	Mean	88.64	88.07	87.35	87.50	78.44	
	Count	11	55	51	2	9	0.420
	Std Deviation	15.04	11.91	15.67	3.54	13.39	
Age 25-34	Mean	88.27	87.18	86.93	81.00	84.38	
	Count	56	109	122	4	39	0.664
	Std Deviation	10.79	14.27	16.10	7.35	14.41	
Age 35-44	Mean	90.07	87.00	86.97	87.25	84.23	
	Count	44	73	68	4	66	0.203
	Std Deviation	7.93	10.92	11.70	9.22	16.35	
Age 45-54	Mean	86.21	86.80	79.30	87.91	77.42	
	Count	29	44	63	11	23	0.033
	Std Deviation	11.96	13.80	20.35	10.00	73.00	
Age 55-64	Mean	86.00	82.56	80.15	74.08	75.26	
	Count	21	32	59	12	69	0.105
	Std Deviation	12.09	18.40	16.91	23.25	21.37	
Age 65-74	Mean	90.33	77.58	77.71	84.29	76.22	
	Count	15	24	62	14	113	0.031
	Std Deviation	12.27	19.93	15.28	12.65	18.41	
Age 75+	Mean	81.00	70.80	73.43	81.25	71.69	
	Count	5	5	28	4	65	0.738
	Std Deviation	10.84	32.26	16.50	10.31	19.85	
Significance Level of F Test		0.447	0.008	0.000	0.419	0.003	

Figure 2.2.2

Self Rated Health Status by Age and Marital Status for Males

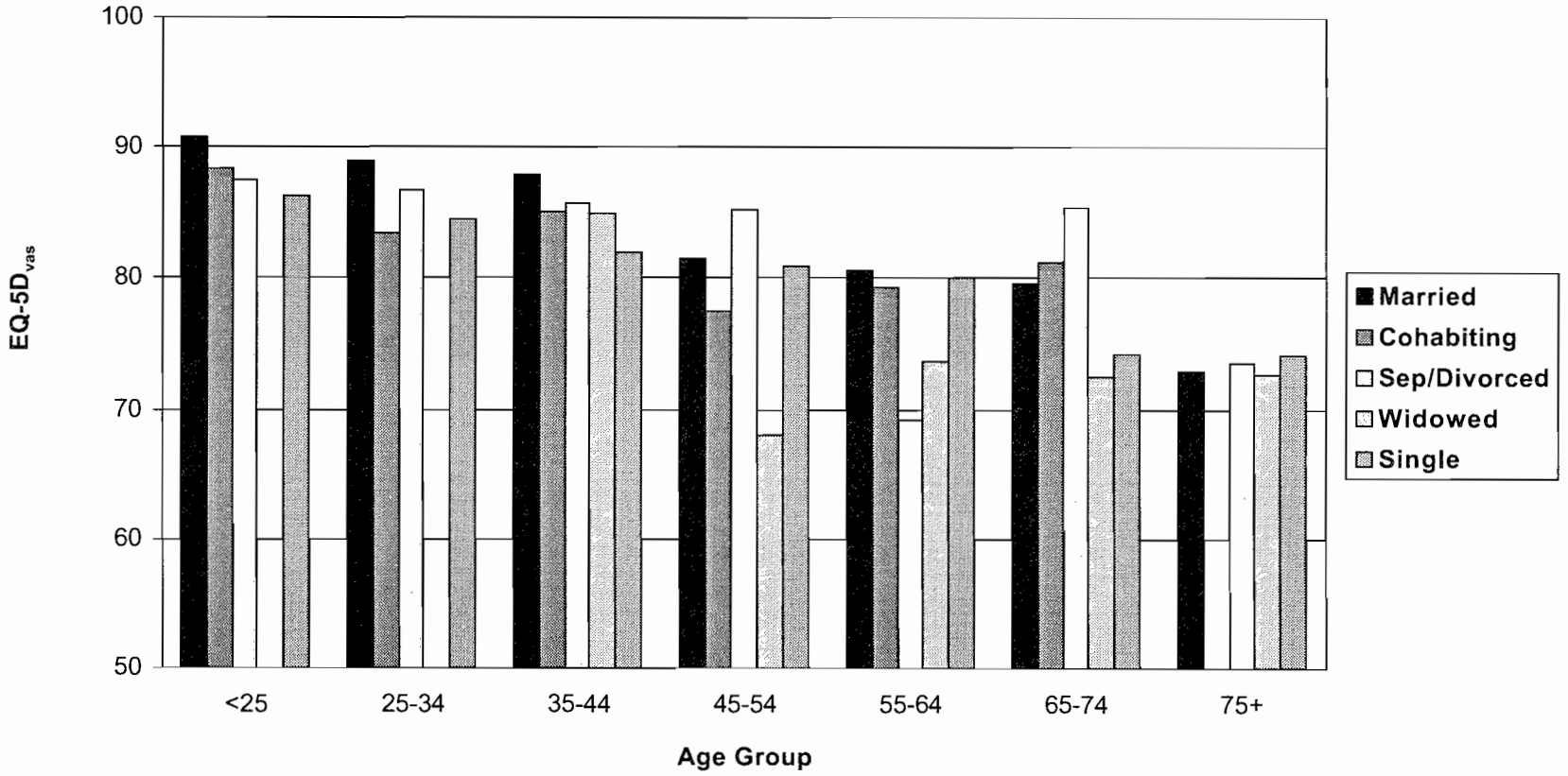

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Table 2.2.2

Self Rated Health Status by Age and Marital Status for Males

		Marital Status					Sig. Level
		Married	**Cohabiting**	**Separated/Divorced**	**Widowed**	**Single**	of F Test
All	Mean	83.48	83.84	81.93	72.68	83.55	
	Count	889	76	111	99	288	0.000
	Std Deviation	16.23	15.14	18.73	19.71	16.88	
Age Under 25	Mean	90.83	88.33	87.50	.	86.30	
	Count	18	12	2	0	96	0.638
	Std Deviation	12.47	11.55	10.61	.	14.45	
Age 25-34	Mean	89.05	83.48	86.77	.	84.59	
	Count	166	40	26	0	98	0.037
	Std Deviation	12.00	16.31	14.83	.	16.66	
Age 35-44	Mean	87.96	85.17	85.76	85.00	81.92	
	Count	188	12	17	2	36	0.106
	Std Deviation	10.44	12.10	9.86	14.14	20.06	
Age 45-54	Mean	81.51	77.60	85.28	68.00	81.00	
	Count	160	5	29	5	22	0.436
	Std Deviation	19.96	18.94	14.51	17.89	19.53	
Age 55-64	Mean	80.68	79.33	69.18	73.67	80.07	
	Count	146	3	22	9	14	0.100
	Std Deviation	16.90	25.42	28.28	22.38	16.70	
Age 65-74	Mean	79.56	81.25	85.44	72.54	74.31	
	Count	158	4	9	41	16	0.098
	Std Deviation	15.90	12.50	10.98	22.05	19.64	
Age 75+	Mean	72.94	.	73.50	72.57	74.17	
	Count	53	0	6	42	6	0.998
	Std Deviation	20.92	.	21.90	17.60	8.61	
Significance Level of F Test		0.000	0.802	0.015		0.086	

Figure 2.2.3

Self Rated Health Status by Age and Smoking Status for Males

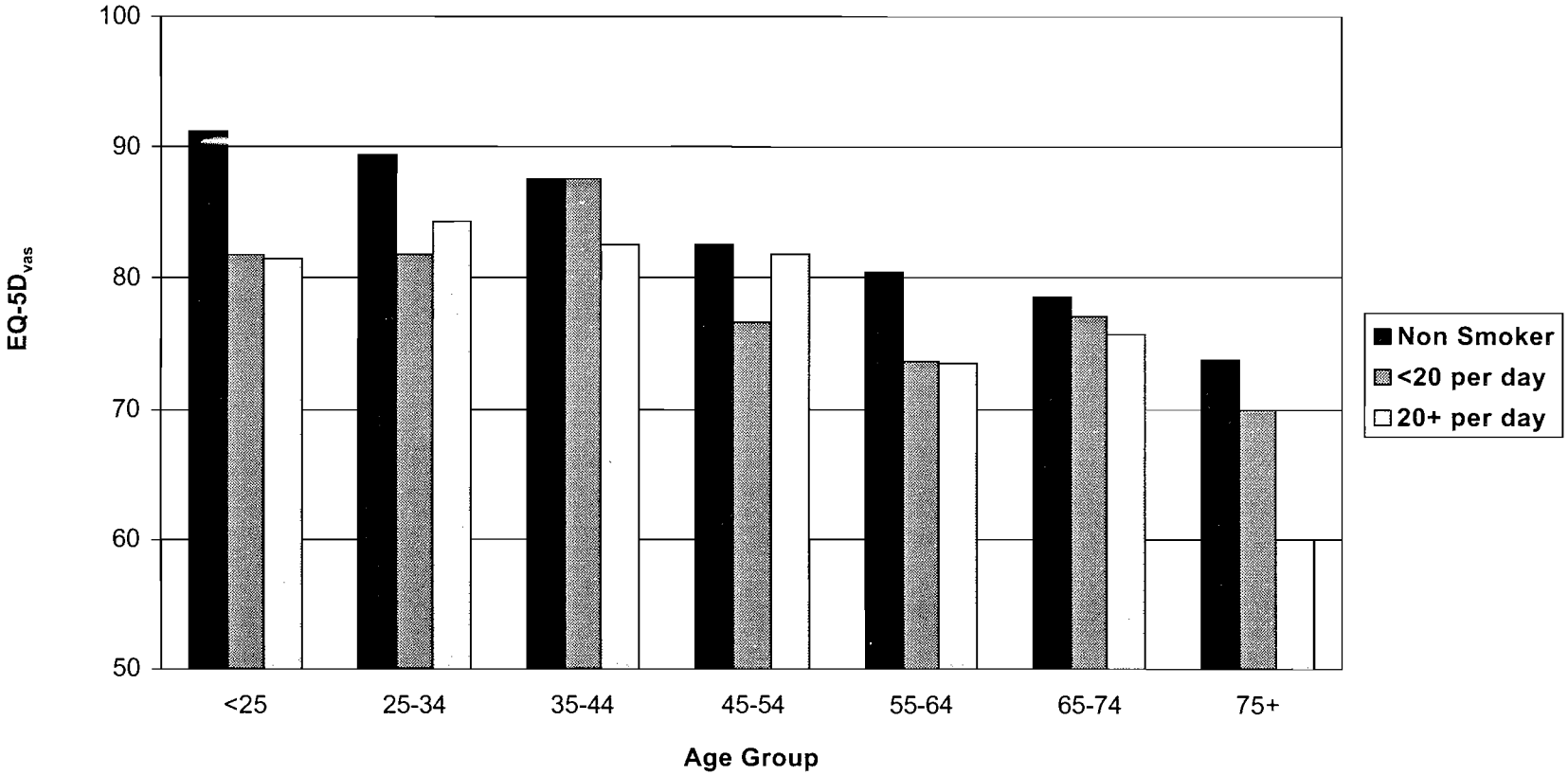

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Table 2.2.3

Self Rated Health Status by Age and Smoking Status for Males

		Smoker			Sig. Level
		Non smoker	**<20 pd**	**20+ pd**	of F Test
All	Mean	83.64	80.42	80.56	
	Count	998	282	175	0.004
	Std Deviation	16.46	17.62	18.31	
Age Under 25	Mean	91.21	81.82	81.55	
	Count	73	44	11	0.000
	Std Deviation	11.70	14.68	15.71	
Age 25-34	Mean	89.41	81.87	84.39	
	Count	205	84	41	0.000
	Std Deviation	12.22	17.98	13.55	
Age 35-44	Mean	87.68	87.61	82.59	
	Count	163	51	39	0.062
	Std Deviation	11.74	11.77	14.87	
Age 45-54	Mean	82.65	76.58	81.85	
	Count	142	36	41	0.241
	Std Deviation	18.37	22.56	19.19	
Age 55-64	Mean	80.54	73.69	73.57	
	Count	144	26	21	0.097
	Std Deviation	17.71	19.89	24.94	
Age 65-74	Mean	78.55	77.07	75.74	
	Count	181	27	19	0.756
	Std Deviation	17.28	17.47	19.36	
Age 75+	Mean	73.78	70.00	60.00	
	Count	90	14	3	0.390
	Std Deviation	19.18	13.01	36.06	
Significance Level of F Test		0.000	0.002	0.096	

Figure 2.2.4

Self Rated Health Status by Age and Housing Tenure for Males

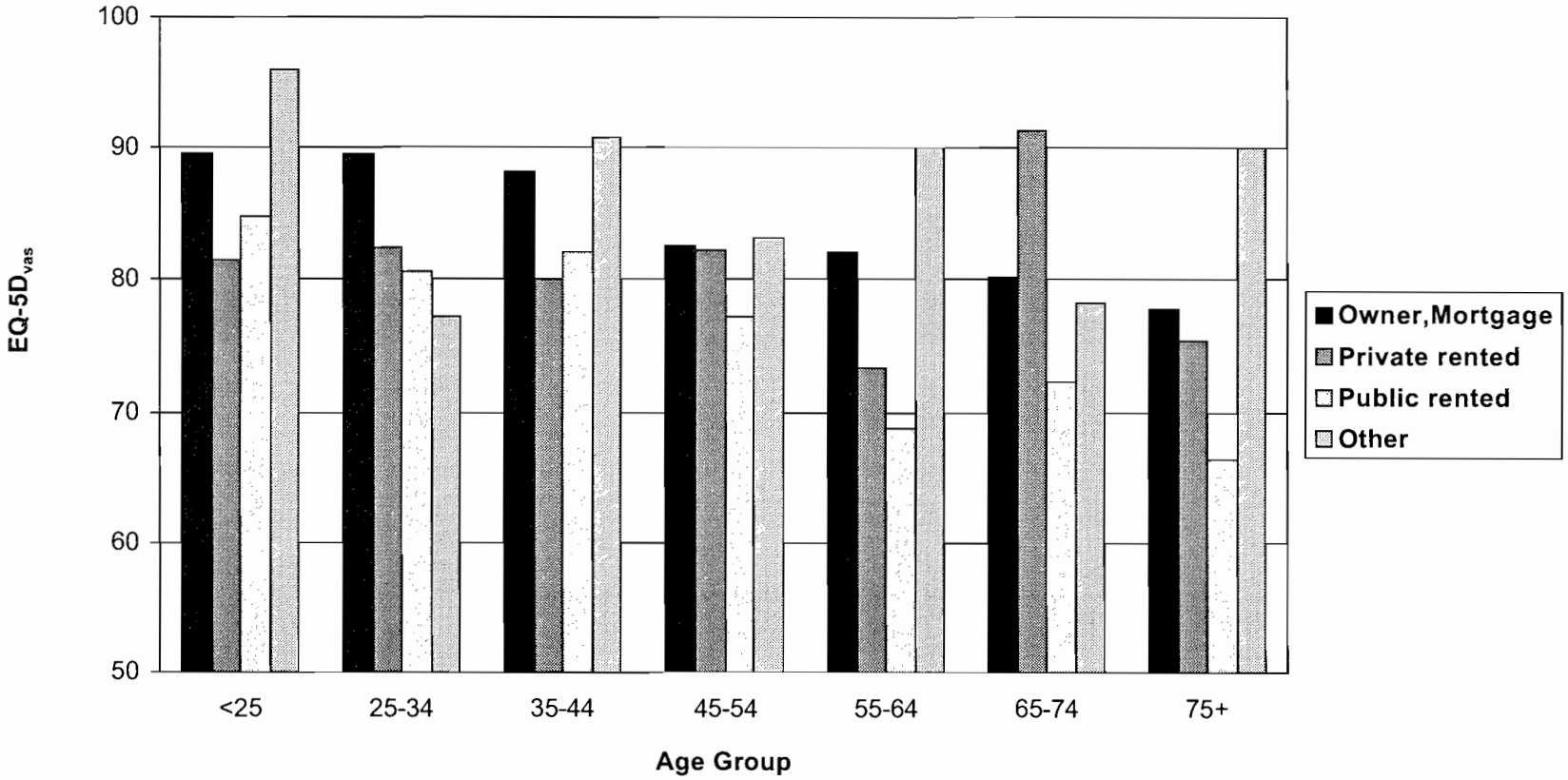

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Table 2.2.4

Self Rated Health Status by Age and Housing Tenure for Males

		Tenure				Sig. Level
		Owner/Mortgage	**Private rented**	**Public rented**	**Other**	of F Test
All	Mean	85.11	80.82	75.31	83.57	
	Count	1004	124	304	28	0.000
	Std Deviation	16.69	15.09	21.51	21.02	
Age Under 25	Mean	89.55	81.48	84.88	96.00	
	Count	78	25	24	1	0.054
	Std Deviation	13.41	13.03	14.77	.	
Age 25-34	Mean	89.58	82.44	80.67	77.22	
	Count	224	45	52	9	0.000
	Std Deviation	11.07	15.86	19.13	27.17	
Age 35-44	Mean	88.21	80.11	82.08	90.83	
	Count	194	18	37	6	0.003
	Std Deviation	10.49	11.57	19.12	6.65	
Age 45-54	Mean	82.52	82.33	77.23	83.17	
	Count	161	9	44	6	0.445
	Std Deviation	17.96	12.58	23.14	28.81	
Age 55-64	Mean	82.17	73.33	68.76	90.00	
	Count	141	12	38	2	0.001
	Std Deviation	15.65	17.69	26.51	0.00	
Age 65-74	Mean	80.28	91.40	72.31	78.33	
	Count	155	5	64	3	0.006
	Std Deviation	15.61	10.06	20.41	17.56	
Age 75+	Mean	77.82	75.50	66.36	90.00	
	Count	51	10	45	1	0.019
	Std Deviation	16.82	20.53	19.53	.	
Significance Level of F Test		0.000	0.000	0.291	0.911	

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Figure 2.2.5

Self Rated Health Status by Age and Social Class for Males

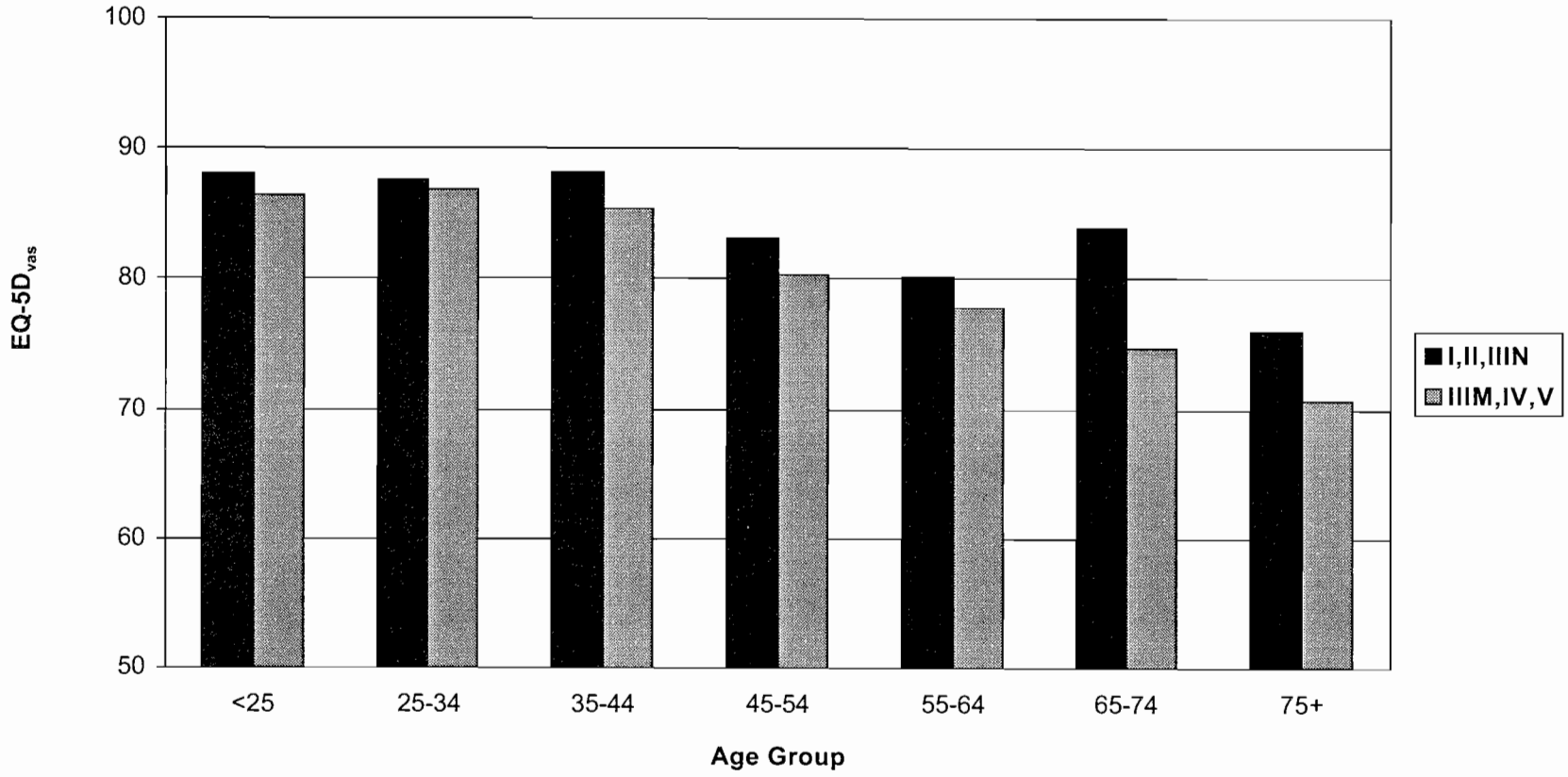

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Table 2.2.5

Self Rated Health Status by Age and Social Class for Males

		Social Class		Sig. Level
		Non-manual	**Manual**	of F Test
All	Mean	84.95	80.72	
	Count	665	761	0.000
	Std Deviation	15.18	18.12	
Age Under 25	Mean	88.12	86.53	
	Count	51	64	0.558
	Std Deviation	14.31	14.46	
Age 25-34	Mean	87.61	86.84	
	Count	173	147	0.615
	Std Deviation	12.74	14.59	
Age 35-44	Mean	88.19	85.43	
	Count	129	122	0.079
	Std Deviation	11.37	13.40	
Age 45-54	Mean	83.15	80.29	
	Count	98	121	0.276
	Std Deviation	17.62	20.54	
Age 55-64	Mean	80.20	77.81	
	Count	91	100	0.390
	Std Deviation	17.93	20.18	
Age 65-74	Mean	83.87	74.77	
	Count	85	140	0.000
	Std Deviation	15.28	17.72	
Age 75+	Mean	76.11	70.72	
	Count	38	67	0.165
	Std Deviation	17.27	19.85	
Significance Level of F Test		0.000	0.000	

Figure 2.2.6

Self Rated Health Status by Age and Standard Region for Males

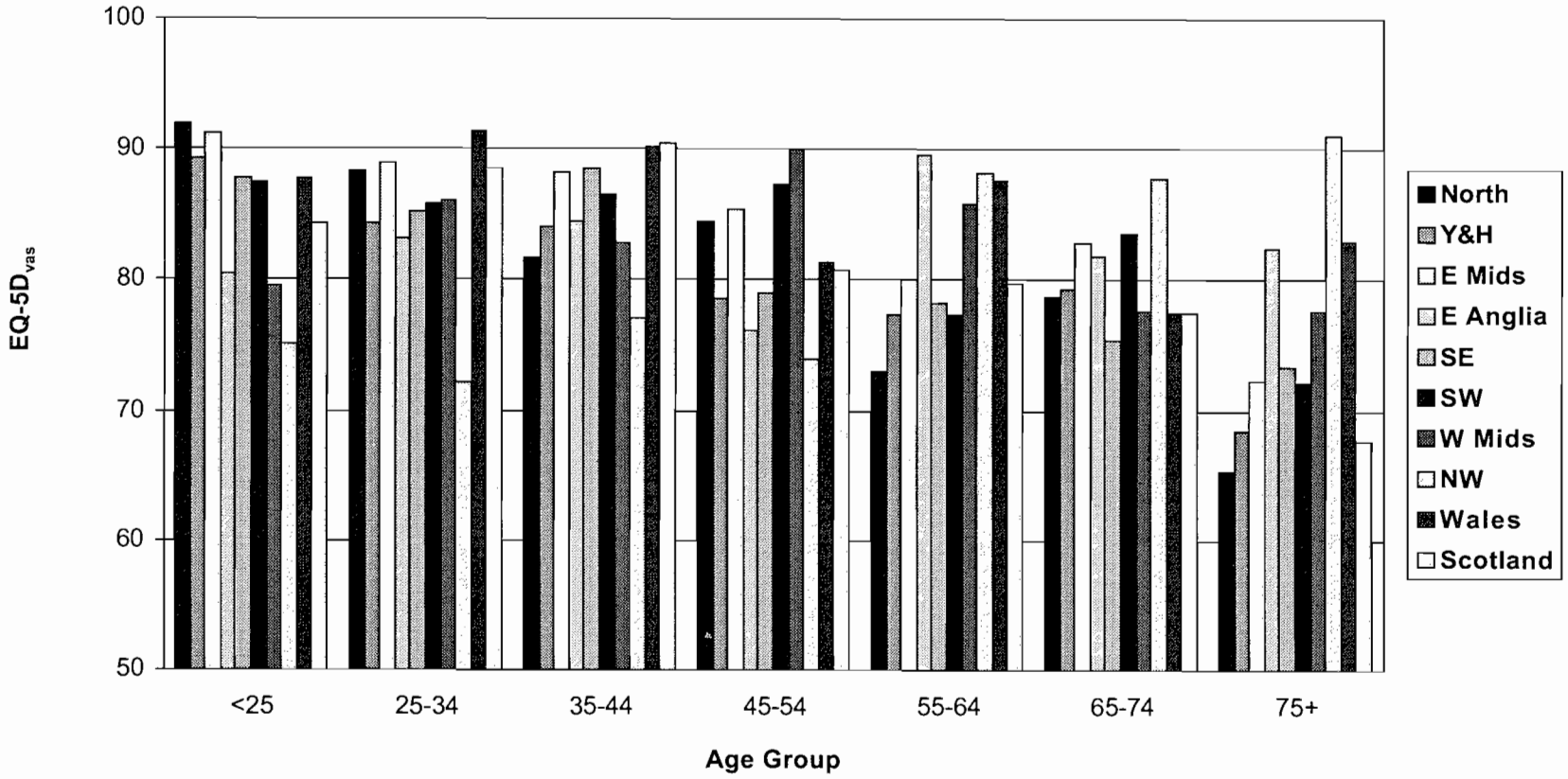

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Table 2.2.6

Self Rated Health Status by Age and Standard Region for Males

		Region										Sig. Level
		North	Y&H	E Mids	E Anglia	SE	SW	W Mids	NW	Wales	Scotland	of F Test
All	Mean	81.70	80.54	85.82	83.02	81.59	83.52	83.60	81.54	84.95	82.48	
	Count	86	111	168	50	348	174	144	181	41	160	0.246
	Std Deviation	17.38	18.27	15.25	10.96	17.79	15.45	15.00	19.27	14.42	17.99	
Age Under 25	Mean	92.00	89.29	91.29	80.50	87.77	87.46	79.58	91.06	87.80	84.40	
	Count	5	7	14	6	30	13	12	16	5	20	0.432
	Std Deviation	8.37	15.76	11.26	12.65	10.20	11.64	21.72	12.46	10.62	17.50	
Age 25-34	Mean	88.32	84.42	88.98	83.25	85.26	85.87	86.16	87.85	91.40	88.49	
	Count	19	24	50	8	76	31	32	46	5	39	0.852
	Std Deviation	15.85	20.31	12.24	11.44	15.67	13.51	15.03	12.98	9.56	12.78	
Age 35-44	Mean	81.74	84.10	88.23	84.50	88.55	86.67	82.91	88.31	90.13	90.50	
	Count	19	21	35	16	56	30	23	29	8	18	0.263
	Std Deviation	16.05	14.86	12.04	8.80	13.08	11.58	14.03	8.36	7.57	11.23	
Age 45-54	Mean	84.55	78.53	85.43	76.20	79.04	87.38	90.08	74.03	81.38	80.83	
	Count	11	19	23	5	55	26	24	32	8	18	0.086
	Std Deviation	23.18	20.75	17.00	18.86	20.02	9.99	6.04	24.90	21.54	20.95	
Age 55-64	Mean	73.08	77.44	80.00	89.60	78.24	77.44	85.88	77.13	87.67	79.78	
	Count	13	18	10	5	51	27	17	23	3	27	0.715
	Std Deviation	17.72	20.25	20.29	11.33	19.75	22.24	12.89	20.82	11.68	17.42	
Age 65-74	Mean	78.69	79.33	82.91	81.83	75.49	83.64	77.71	72.24	77.50	77.56	
	Count	16	12	22	6	53	33	28	25	8	25	0.400
	Std Deviation	14.80	13.45	14.86	7.88	19.40	12.70	15.79	23.22	17.11	19.55	
Age 75+	Mean	65.33	68.50	72.36	82.50	73.41	72.14	77.63	75.10	83.00	67.69	
	Count	3	10	14	4	27	14	8	10	4	13	0.861
	Std Deviation	15.01	13.95	21.50	8.66	18.28	21.36	19.52	20.71	12.62	23.15	
Significance Level of F Test		0.077	0.194	0.005	0.641	0.000	0.011	0.052	0.000	0.565	0.002	

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Figure 2.3.1

Self Rated Health Status by Age and Educational Qualifications for Females

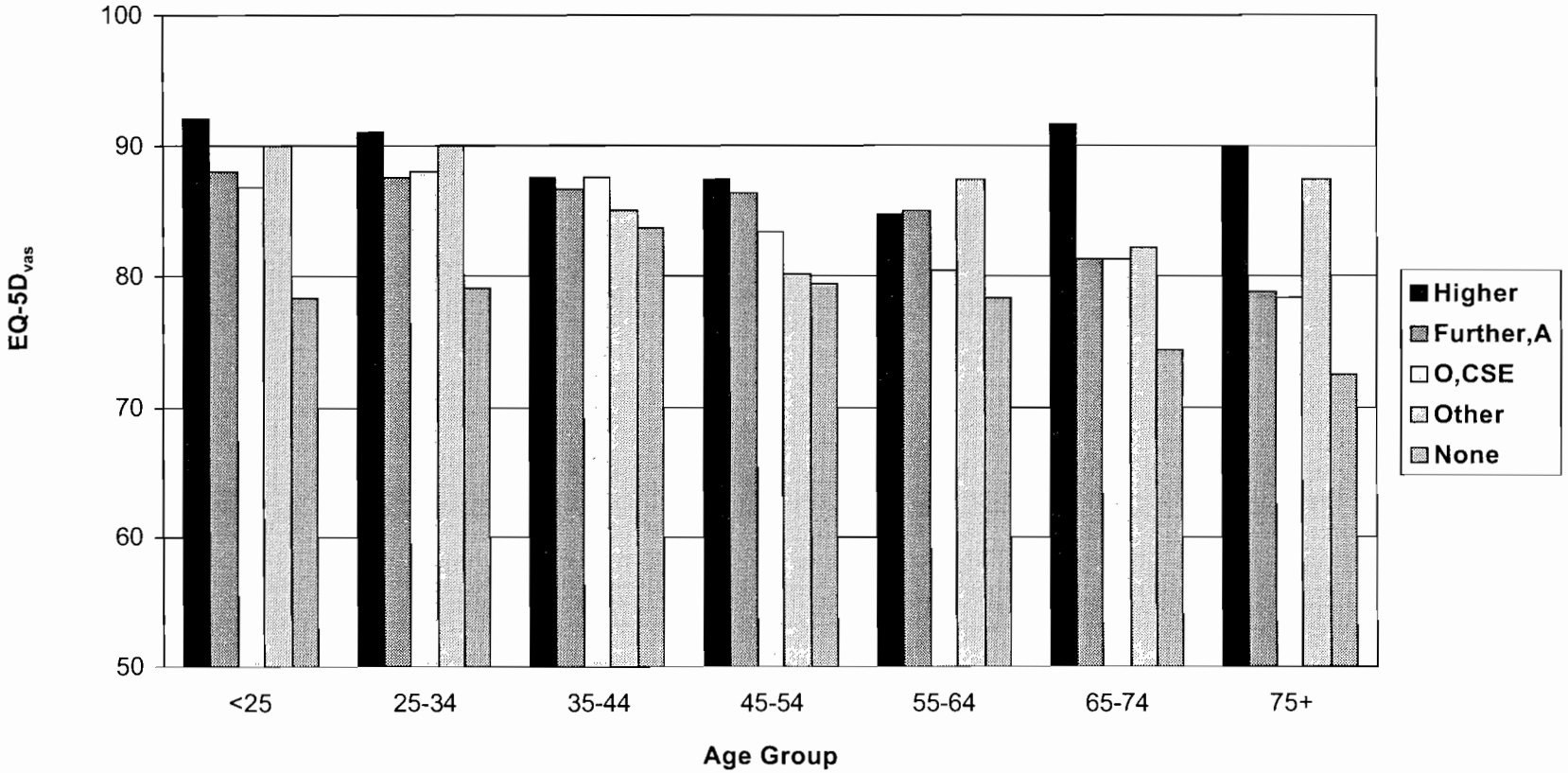

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Table 2.3.1

Self Rated Health Status by Age and Educational Qualifications for Females

		Level of Education					Sig. Level
		Higher	**Further,A**	**O,CSE**	**Other**	**None**	of F Test
All	Mean	89.05	86.24	85.61	85.15	77.12	
	Count	130	340	591	41	813	0.000
	Std Deviation	14.51	13.84	14.79	14.37	18.64	
Age Under 25	Mean	92.14	88.04	86.93	90.00	78.43	
	Count	7	47	90	1	30	0.012
	Std Deviation	11.13	11.08	12.44	.	17.57	
Age 25-34	Mean	91.13	87.61	88.08	90.00	79.21	
	Count	45	115	185	7	71	0.000
	Std Deviation	12.13	13.83	12.43	7.51	19.03	
Age 35-44	Mean	87.72	86.79	87.61	85.17	83.84	
	Count	36	63	114	6	85	0.458
	Std Deviation	17.44	14.65	12.90	27.33	15.37	
Age 45-54	Mean	87.56	86.43	83.54	80.25	79.43	
	Count	27	35	78	12	114	0.082
	Std Deviation	15.89	13.14	18.83	16.37	17.22	
Age 55-64	Mean	84.89	85.08	80.47	87.50	78.38	
	Count	9	40	57	10	170	0.125
	Std Deviation	14.84	13.79	18.91	7.17	18.38	
Age 65-74	Mean	91.67	81.45	81.40	82.33	74.45	
	Count	3	22	45	3	185	0.055
	Std Deviation	10.41	14.87	14.33	6.81	19.76	
Age 75+	Mean	90.00	78.89	78.41	87.50	72.44	
	Count	3	18	22	2	158	0.137
	Std Deviation	10.00	15.88	17.07	10.61	18.85	
Significance Level of F Test		0.854	0.122	0.000	0.862	0.000	

Figure 2.3.2

Self Rated Health Status by Age and Marital Status for Females

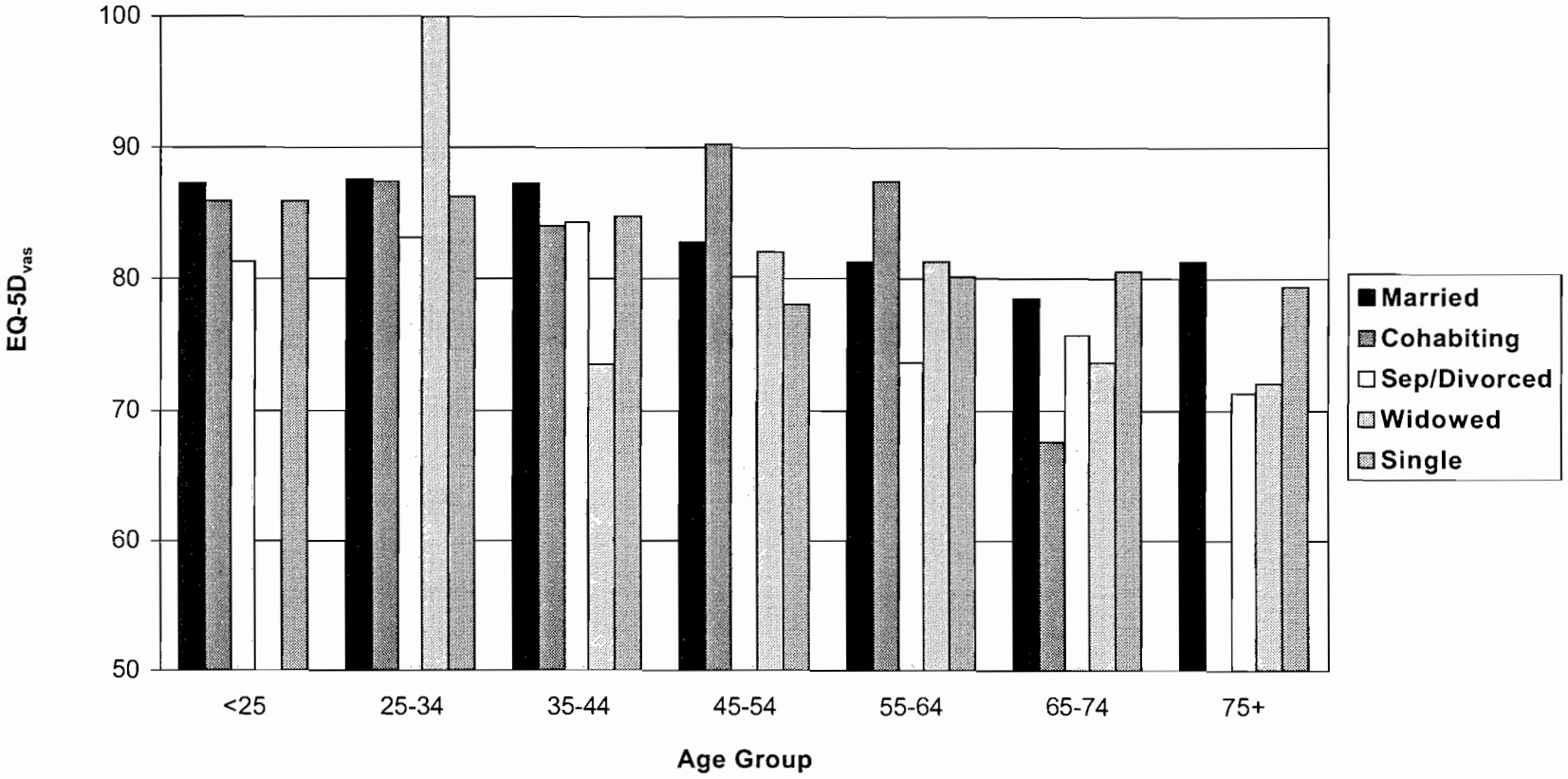

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Table 2.3.2

Self Rated Health Status by Age and Marital Status for Females

		Marital Status					Sig. Level
		Married	**Cohabiting**	**Separated/Divorced**	**Widowed**	**Single**	of F Test
All	Mean	84.42	86.30	80.03	74.87	84.40	
	Count	948	109	243	328	284	0.000
	Std Deviation	15.99	15.25	17.41	18.87	15.40	
Age Under 25	Mean	87.34	85.97	81.40	.	86.08	
	Count	29	31	10	0	105	0.693
	Std Deviation	11.67	16.19	13.50	.	13.08	
Age 25-34	Mean	87.70	87.57	83.23	100.00	86.29	
	Count	232	42	60	1	87	0.228
	Std Deviation	14.34	14.51	15.95	.	13.35	
Age 35-44	Mean	87.35	84.05	84.35	73.50	84.76	
	Count	210	20	55	2	17	0.394
	Std Deviation	13.44	18.54	16.61	33.23	19.26	
Age 45-54	Mean	82.90	90.38	80.28	82.20	78.13	
	Count	184	8	43	15	15	0.491
	Std Deviation	17.34	7.44	17.46	13.76	21.91	
Age 55-64	Mean	81.36	87.50	73.66	81.40	80.27	
	Count	159	6	44	62	15	0.090
	Std Deviation	17.93	8.80	18.38	16.90	15.54	
Age 65-74	Mean	78.60	67.50	75.77	73.59	80.67	
	Count	104	2	22	102	27	0.227
	Std Deviation	17.31	17.68	20.08	19.62	17.96	
Age 75+	Mean	81.37	.	71.22	72.08	79.50	
	Count	30	0	9	146	18	0.042
	Std Deviation	14.77	.	13.45	18.76	20.76	
Significance Level of F Test		0.000	0.503	0.019		0.145	

Figure 2.3.3

Self Rated Health Status by Age and Smoking Status for Females

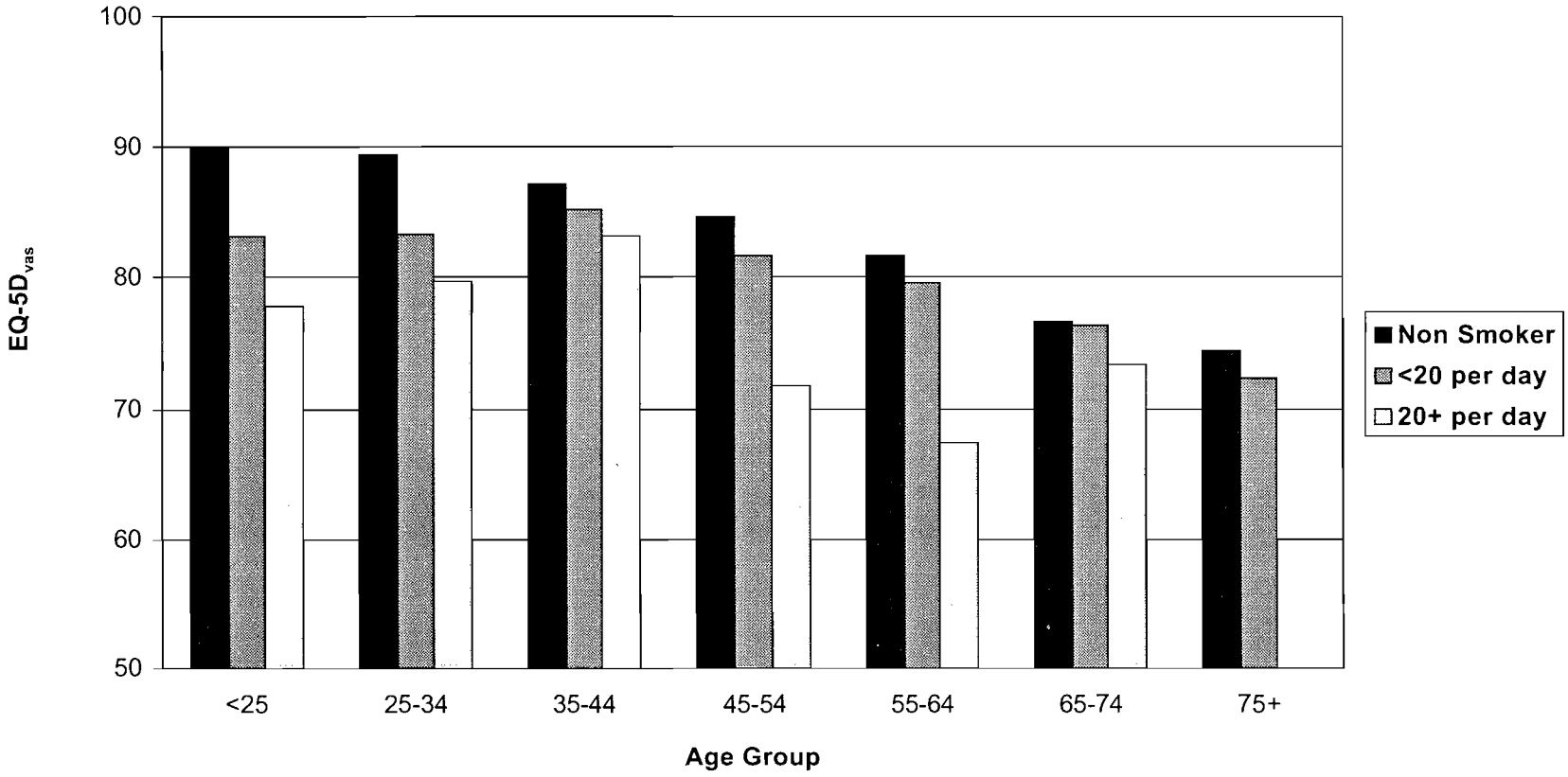

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Table 2.3.3

Self Rated Health Status by Age and Smoking Status for Females

		Smoker			Sig. Level
		Non smoker	<20 pd	20+ pd	of F Test
All	Mean	83.27	81.63	76.50	
	Count	1334	412	166	0.000
	Std Deviation	16.65	15.88	20.72	
Age Under 25	Mean	89.82	83.20	77.82	
	Count	92	61	22	0.000
	Std Deviation	10.67	15.36	13.08	
Age 25-34	Mean	89.37	83.39	79.81	
	Count	267	112	43	0.000
	Std Deviation	12.59	14.81	19.58	
Age 35-44	Mean	87.24	85.31	83.22	
	Count	203	65	36	0.268
	Std Deviation	13.99	16.54	16.49	
Age 45-54	Mean	84.70	81.76	71.76	
	Count	169	62	34	0.000
	Std Deviation	15.38	15.34	24.28	
Age 55-64	Mean	81.71	79.55	67.36	
	Count	217	47	22	0.001
	Std Deviation	16.44	15.62	26.95	
Age 65-74	Mean	76.64	76.38	73.38	
	Count	209	40	8	0.888
	Std Deviation	19.28	16.10	14.06	
Age 75+	Mean	74.45	72.36	50.00	
	Count	177	25	1	0.372
	Std Deviation	18.63	17.19	.	
Significance Level of F Test		0.000	0.003	0.042	

Figure 2.3.4

Self Rated Health Status by Age and Housing Tenure for Females

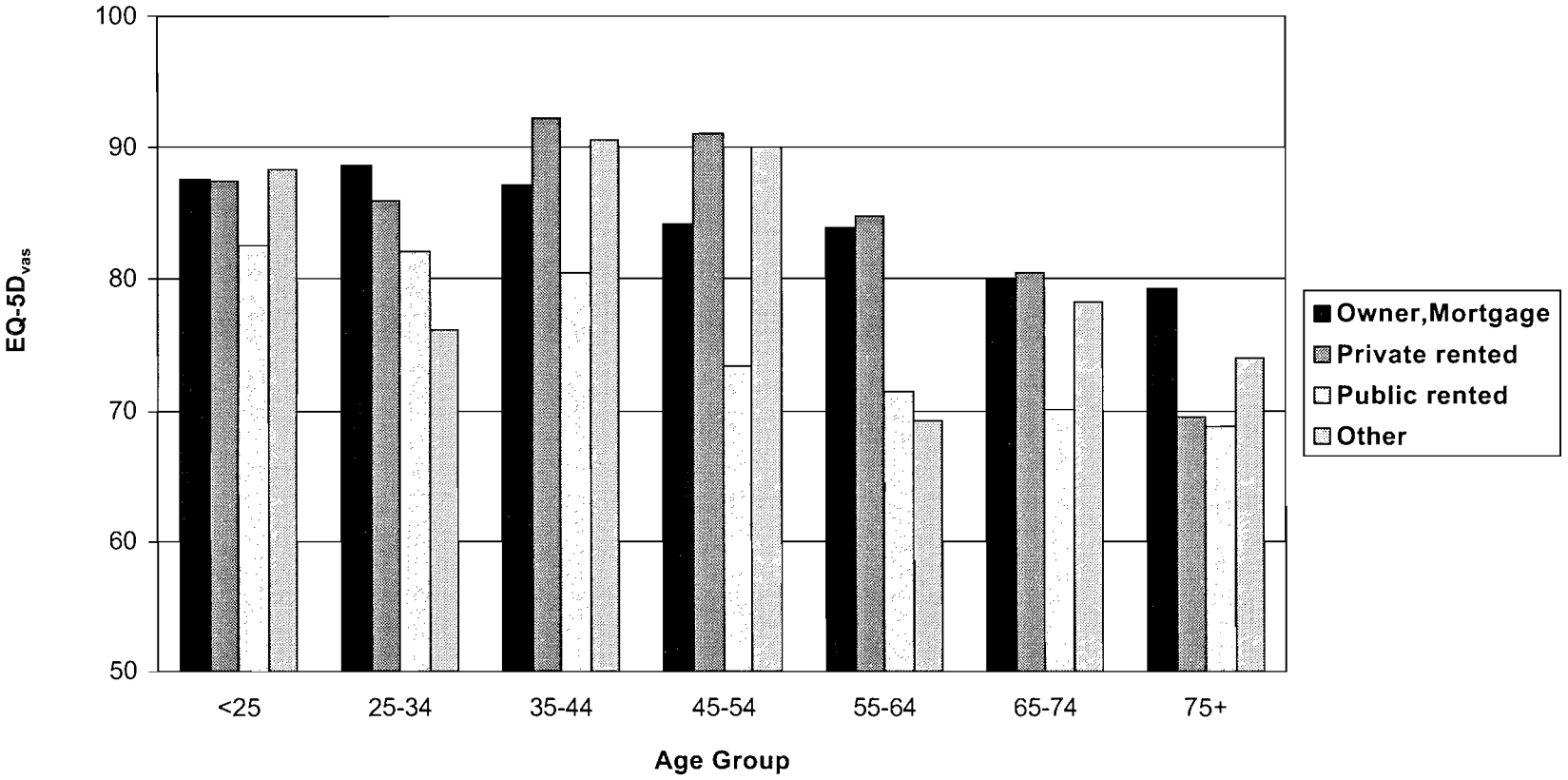

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Table 2.3.4

Self Rated Health Status by Age and Housing Tenure for Females

		Tenure				Sig. Level
		Owner/Mortgage	**Private rented**	**Public rented**	**Other**	of F Test
All	Mean	85.08	85.51	75.19	81.46	
	Count	1214	138	523	35	0.000
	Std Deviation	14.74	15.12	19.95	17.81	
Age Under 25	Mean	87.61	87.44	82.66	88.33	
	Count	72	34	58	9	0.155
	Std Deviation	11.12	14.29	15.21	14.58	
Age 25-34	Mean	88.71	86.03	82.09	76.20	
	Count	287	33	98	5	0.000
	Std Deviation	11.90	15.37	18.29	29.22	
Age 35-44	Mean	87.27	92.28	80.53	90.67	
	Count	222	18	58	6	0.004
	Std Deviation	14.09	11.28	17.78	5.92	
Age 45-54	Mean	84.22	91.14	73.31	90.00	
	Count	196	14	54	2	0.000
	Std Deviation	15.59	7.67	21.37	0.00	
Age 55-64	Mean	83.87	84.87	71.38	69.20	
	Count	188	15	77	5	0.000
	Std Deviation	15.19	11.75	20.63	22.26	
Age 65-74	Mean	80.05	80.50	70.03	78.33	
	Count	155	10	90	3	0.001
	Std Deviation	16.72	21.66	19.94	16.07	
Age 75+	Mean	79.35	69.50	68.80	74.00	
	Count	94	14	88	5	0.001
	Std Deviation	16.08	14.37	20.16	13.42	
Significance Level of F Test		0.000	0.000	0.000	0.312	

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Figure 2.3.5

Self Rated Health Status by Age and Social Class for Females

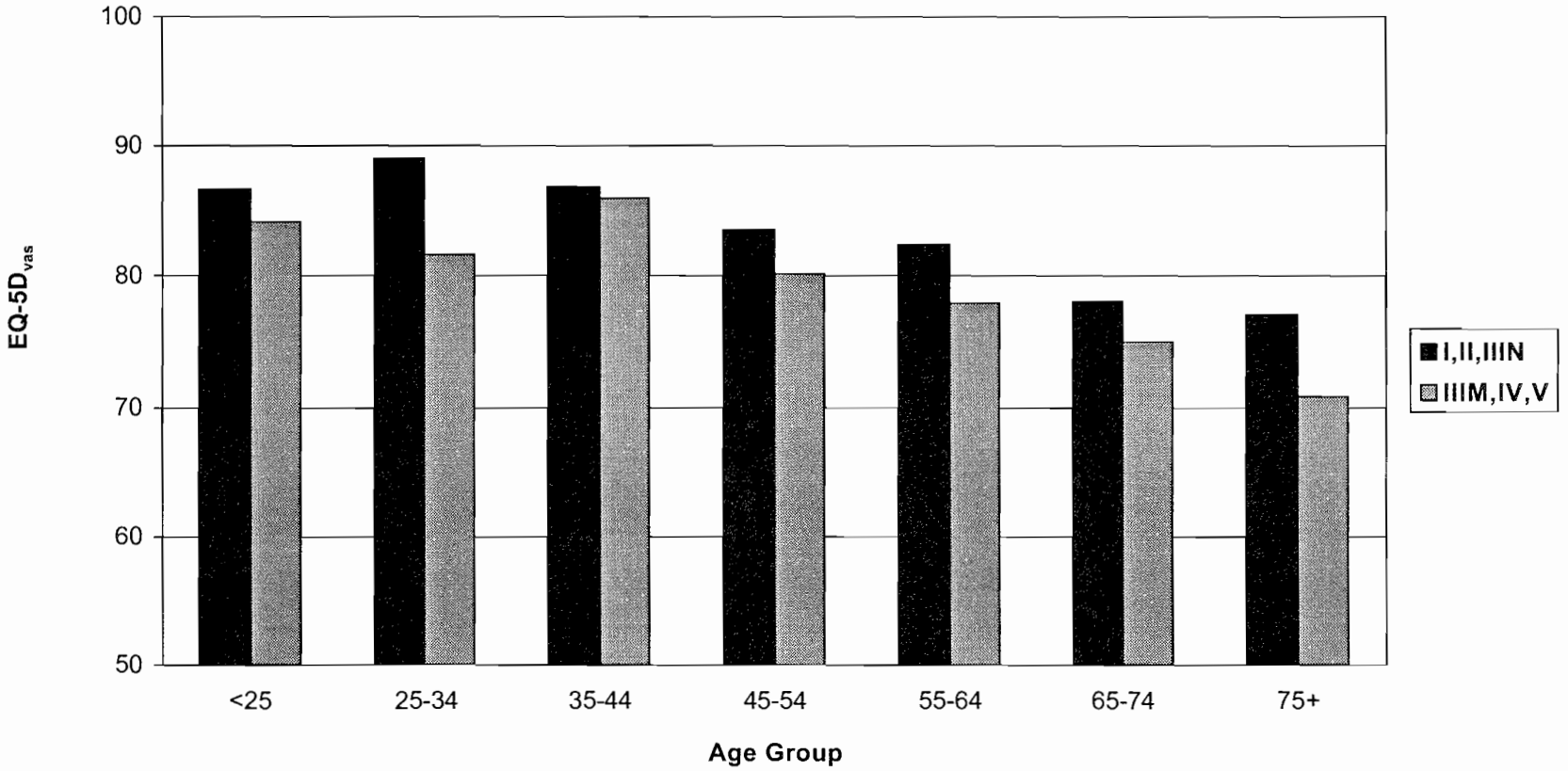

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Table 2.3.5

Self Rated Health Status by Age and Social Class for Females

		Social Class		Sig. Level
		Non-manual	**Manual**	of F Test
All	Mean	84.43	79.24	
	Count	1107	739	0.000
	Std Deviation	15.85	18.24	
Age Under 25	Mean	86.69	84.28	
	Count	80	75	0.282
	Std Deviation	13.05	14.68	
Age 25-34	Mean	89.08	81.68	
	Count	287	125	0.000
	Std Deviation	12.19	17.53	
Age 35-44	Mean	86.84	86.08	
	Count	188	107	0.676
	Std Deviation	14.91	14.96	
Age 45-54	Mean	83.59	80.21	
	Count	175	90	0.131
	Std Deviation	16.78	18.02	
Age 55-64	Mean	82.39	78.05	
	Count	152	128	0.040
	Std Deviation	16.44	18.78	
Age 65-74	Mean	78.10	74.94	
	Count	137	109	0.186
	Std Deviation	18.02	19.35	
Age 75+	Mean	77.10	70.82	
	Count	88	105	0.019
	Std Deviation	17.88	18.67	
Significance Level of F Test		0.000	0.000	

Figure 2.3.6

Self Rated Health Status by Age and Standard Region for Females

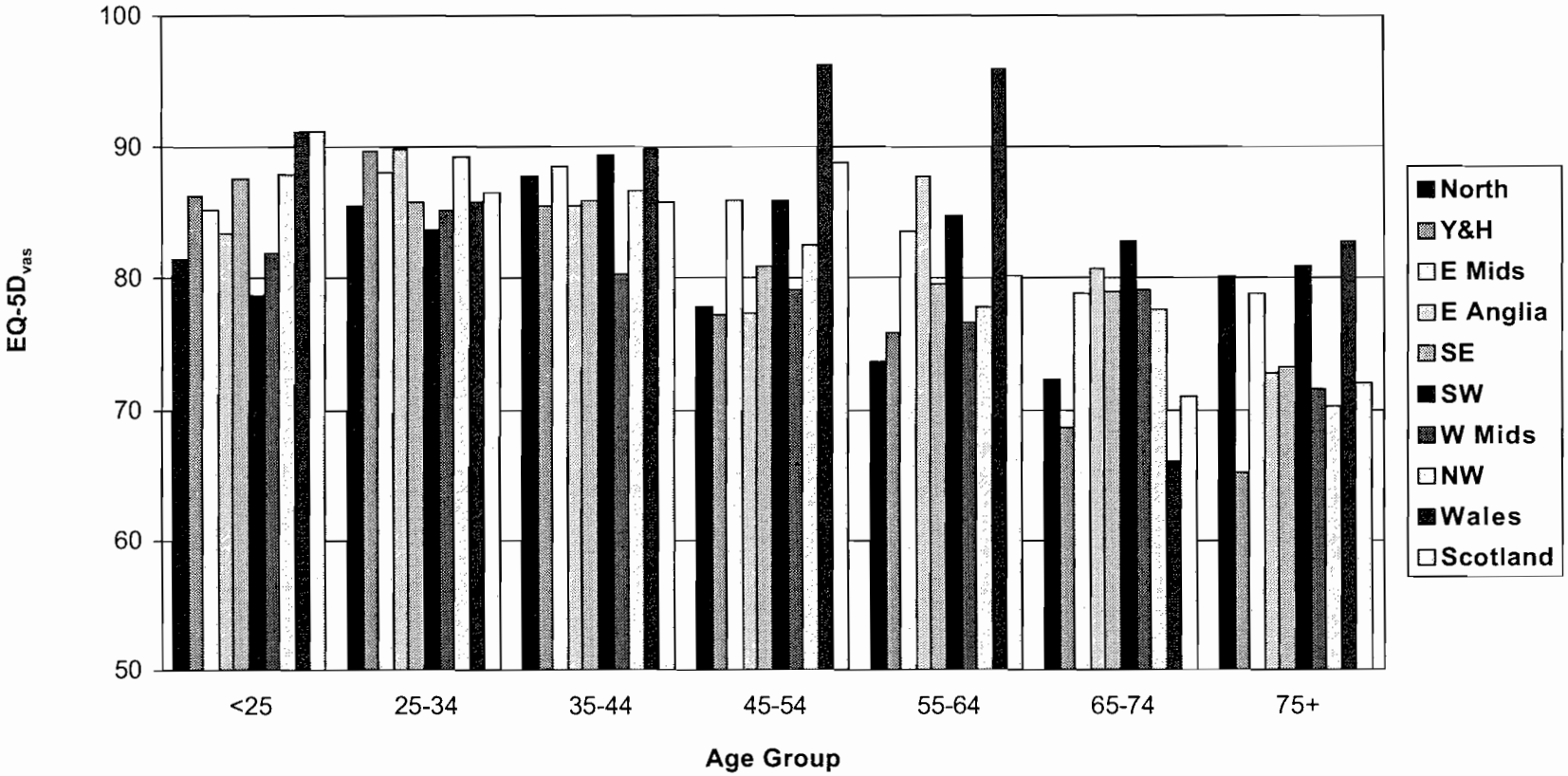

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Table 2.3.6

Self Rated Health Status by Age and Standard Region for Females

		Region										Sig. Level
		North	Y&H	E Mids	E Anglia	SE	SW	W Mids	NW	Wales	Scotland	of F Test
All	Mean	79.79	79.21	85.36	83.40	82.41	84.46	79.57	82.33	85.34	82.06	
	Count	122	155	190	85	490	189	167	242	76	199	0.004
	Std Deviation	18.15	18.11	13.84	13.27	17.30	15.19	17.89	17.16	19.04	17.68	
Age Under 25	Mean	81.50	86.32	85.29	83.55	87.58	78.73	82.06	88.00	91.29	91.24	
	Count	10	22	17	11	52	11	18	10	7	17	0.280
	Std Deviation	13.34	13.37	12.18	11.55	13.59	17.23	15.75	12.95	14.55	7.74	
Age 25-34	Mean	85.52	89.75	88.11	89.86	85.81	83.71	85.29	89.33	85.92	86.67	
	Count	23	28	55	14	100	42	34	58	24	45	0.633
	Std Deviation	12.53	9.54	14.73	7.99	14.77	15.63	15.25	12.85	19.46	15.38	
Age 35-44	Mean	87.87	85.52	88.47	85.57	86.01	89.41	80.36	86.73	89.93	85.79	
	Count	15	23	30	14	85	32	28	30	14	33	0.571
	Std Deviation	15.84	15.58	7.08	10.60	14.79	17.46	18.26	13.53	17.64	15.28	
Age 45-54	Mean	77.78	77.23	86.03	77.40	80.96	86.04	79.12	82.57	96.25	88.89	
	Count	18	13	29	10	72	27	25	49	4	19	0.184
	Std Deviation	19.30	21.64	13.42	22.85	18.51	10.83	21.19	16.55	2.50	10.30	
Age 55-64	Mean	73.72	75.90	83.68	87.73	79.62	84.79	76.58	77.86	96.00	80.19	
	Count	18	30	25	15	73	29	19	37	8	32	0.035
	Std Deviation	24.48	17.10	13.79	8.28	18.94	13.29	18.09	18.21	4.54	18.42	
Age 65-74	Mean	72.39	68.55	78.89	80.75	79.08	82.89	79.15	77.71	66.08	71.04	
	Count	18	22	19	12	66	27	20	35	12	27	0.047
	Std Deviation	18.24	21.50	14.72	15.82	18.05	17.99	10.56	18.16	22.45	22.10	
Age 75+	Mean	80.20	65.24	78.80	72.78	73.17	80.90	71.52	70.22	82.86	72.08	
	Count	20	17	15	9	42	21	23	23	7	26	0.141
	Std Deviation	17.18	15.44	18.78	6.67	20.35	12.22	21.89	21.13	13.18	18.13	
Significance Level of F Test		0.098	0.000	0.068	0.028	0.000	0.342	0.167	0.000	0.004	0.000	

APPENDIX A

Head Office: 35 NORTHAMPTON SQUARE
LONDON EC1V 0AX Telephone 071-250 1866

SCPR
SOCIAL & COMMUNITY PLANNING RESEARCH

Field and DP Office: BRENTWOOD, ESSEX
Northern Field Office: DARLINGTON, CO DURHAM

P.1319

SELF-COMPLETION BOOKLET

Respondent Serial Number: | | | | | | 901-4

Card No.: | 0 | 9 | 905-6

OWN HEALTH QUESTIONS

Tick one box in each group to show which statements best describe your own health state today. The boxes on the left are there to help you see the different levels within each group.

MOBILITY

☐	I have no problems in walking about	1
▒	I have some problems in walking about	2
■	I am confined to bed	3

907

SELF-CARE

☐	I have no problems with self-care	1
▒	I have some problems washing or dressing myself	2
■	I am unable to wash or dress myself	3

908

USUAL ACTIVITIES

☐	I have no problems with performing my usual activities (e.g.work,study,housework,family or leisure activities)	1
▒	I have some problems with performing my usual activities	2
■	I am unable to perform my usual activities	3

909

PAIN/DISCOMFORT

☐	I have no pain or discomfort	1
▒	I have moderate pain or discomfort	2
■	I have extreme pain or discomfort	3

910

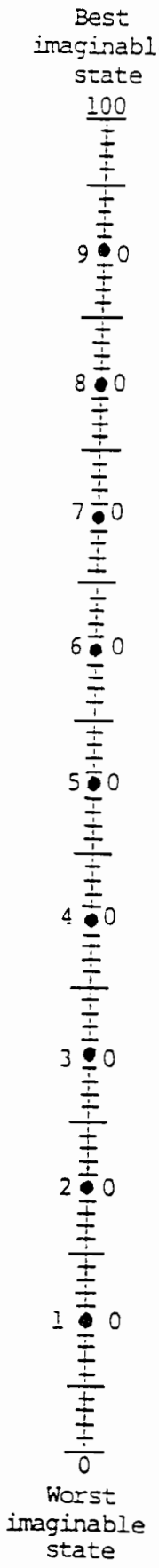
ANXIETY/DEPRESSION

☐	I am not anxious or depressed	1
▒	I am moderately anxious or depressed	2
■	I am extremely anxious or depressed	3

911

SPARE
912-80

CATEGORY RATING THERMOMETER



APPENDIX B

APPENDIX B

Estimated weights for EQ-5D health states

1 1 1 1 1	1.000	1 1 1 1 2	0.848	1 1 1 1 3	0.414	1 1 1 2 1	0.796
1 1 1 2 2	0.725	1 1 1 2 3	0.291	1 1 1 3 1	0.264	1 1 1 3 2	0.193
1 1 1 3 3	0.028	1 1 2 1 1	0.883	1 1 2 1 2	0.812	1 1 2 1 3	0.378
1 1 2 2 1	0.760	1 1 2 2 2	0.689	1 1 2 2 3	0.255	1 1 2 3 1	0.228
1 1 2 3 2	0.157	1 1 2 3 3	-0.008	1 1 3 1 1	0.556	1 1 3 1 2	0.485
1 1 3 1 3	0.320	1 1 3 2 1	0.433	1 1 3 2 2	0.362	1 1 3 2 3	0.197
1 1 3 3 1	0.170	1 1 3 3 2	0.099	1 1 3 3 3	-0.066	1 2 1 1 1	0.815
1 2 1 1 2	0.744	1 2 1 1 3	0.310	1 2 1 2 1	0.692	1 2 1 2 2	0.621
1 2 1 2 3	0.187	1 2 1 3 1	0.160	1 2 1 3 2	0.089	1 2 1 3 3	-0.076
1 2 2 1 1	0.779	1 2 2 1 2	0.708	1 2 2 1 3	0.274	1 2 2 2 1	0.656
1 2 2 2 2	0.585	1 2 2 2 3	0.151	1 2 2 3 1	0.124	1 2 2 3 2	0.053
1 2 2 3 3	-0.112	1 2 3 1 1	0.452	1 2 3 1 2	0.381	1 2 3 1 3	0.216
1 2 3 2 1	0.329	1 2 3 2 2	0.258	1 2 3 2 3	0.093	1 2 3 3 1	0.066
1 2 3 3 2	-0.005	1 2 3 3 3	-0.170	1 3 1 1 1	0.436	1 3 1 1 2	0.365
1 3 1 1 3	0.200	1 3 1 2 1	0.313	1 3 1 2 2	0.242	1 3 1 2 3	0.077
1 3 1 3 1	0.050	1 3 1 3 2	-0.021	1 3 1 3 3	-0.186	1 3 2 1 1	0.400
1 3 2 1 2	0.329	1 3 2 1 3	0.164	1 3 2 2 1	0.277	1 3 2 2 2	0.206
1 3 2 2 3	0.041	1 3 2 3 1	0.014	1 3 2 3 2	-0.057	1 3 2 3 3	-0.222
1 3 3 1 1	0.342	1 3 3 1 2	0.271	1 3 3 1 3	0.106	1 3 3 2 1	0.219
1 3 3 2 2	0.148	1 3 3 2 3	-0.017	1 3 3 3 1	-0.044	1 3 3 3 2	-0.115
1 3 3 3 3	-0.280	2 1 1 1 1	0.850	2 1 1 1 2	0.779	2 1 1 1 3	0.345
2 1 1 2 1	0.727	2 1 1 2 2	0.656	2 1 1 2 3	0.222	2 1 1 3 1	0.195
2 1 1 3 2	0.124	2 1 1 3 3	-0.041	2 1 2 1 1	0.814	2 1 2 1 2	0.743
2 1 2 1 3	0.309	2 1 2 2 1	0.691	2 1 2 2 2	0.620	2 1 2 2 3	0.186
2 1 2 3 1	0.159	2 1 2 3 2	0.088	2 1 2 3 3	-0.077	2 1 3 1 1	0.487
2 1 3 1 2	0.416	2 1 3 1 3	0.251	2 1 3 2 1	0.364	2 1 3 2 2	0.293
2 1 3 2 3	0.128	2 1 3 3 1	0.101	2 1 3 3 2	0.030	2 1 3 3 3	-0.135
2 2 1 1 1	0.746	2 2 1 1 2	0.675	2 2 1 1 3	0.241	2 2 1 2 1	0.623
2 2 1 2 2	0.552	2 2 1 2 3	0.118	2 2 1 3 1	0.091	2 2 1 3 2	0.020
2 2 1 3 3	-0.145	2 2 2 1 1	0.710	2 2 2 1 2	0.639	2 2 2 1 3	0.205
2 2 2 2 1	0.587	2 2 2 2 2	0.516	2 2 2 2 3	0.082	2 2 2 3 1	0.055
2 2 2 3 2	-0.016	2 2 2 3 3	-0.181	2 2 3 1 1	0.383	2 2 3 1 2	0.312
2 2 3 1 3	0.147	2 2 3 2 1	0.260	2 2 3 2 2	0.189	2 2 3 2 3	0.024
2 2 3 3 1	-0.003	2 2 3 3 2	-0.074	2 2 3 3 3	-0.239	2 3 1 1 1	0.367
2 3 1 1 2	0.296	2 3 1 1 3	0.131	2 3 1 2 1	0.244	2 3 1 2 2	0.173
2 3 1 2 3	0.008	2 3 1 3 1	-0.019	2 3 1 3 2	-0.090	2 3 1 3 3	-0.255
2 3 2 1 1	0.331	2 3 2 1 2	0.260	2 3 2 1 3	0.095	2 3 2 2 1	0.208
2 3 2 2 2	0.137	2 3 2 2 3	-0.028	2 3 2 3 1	-0.055	2 3 2 3 2	-0.126
2 3 2 3 3	-0.291	2 3 3 1 1	0.273	2 3 3 1 2	0.202	2 3 3 1 3	0.037
2 3 3 2 1	0.150	2 3 3 2 2	0.079	2 3 3 2 3	-0.086	2 3 3 3 1	-0.113

2 3 3 3 2	-0.184	2 3 3 3 3	-0.349	3 1 1 1 1	0.336	3 1 1 1 2	0.265
3 1 1 1 3	0.100	3 1 1 2 1	0.213	3 1 1 2 2	0.142	3 1 1 2 3	-0.023
3 1 1 3 1	-0.050	3 1 1 3 2	-0.121	3 1 1 3 3	-0.286	3 1 2 1 1	0.300
3 1 2 1 2	0.229	3 1 2 1 3	0.064	3 1 2 2 1	0.177	3 1 2 2 2	0.106
3 1 2 2 3	-0.059	3 1 2 3 1	-0.086	3 1 2 3 2	-0.157	3 1 2 3 3	-0.322
3 1 3 1 1	0.242	3 1 3 1 2	0.171	3 1 3 1 3	0.006	3 1 3 2 1	0.119
3 1 3 2 2	0.048	3 1 3 2 3	-0.117	3 1 3 3 1	-0.144	3 1 3 3 2	-0.215
3 1 3 3 3	-0.380	3 2 1 1 1	0.232	3 2 1 1 2	0.161	3 2 1 1 3	-0.004
3 2 1 2 1	0.109	3 2 1 2 2	0.038	3 2 1 2 3	-0.127	3 2 1 3 1	-0.154
3 2 1 3 2	-0.225	3 2 1 3 3	-0.390	3 2 2 1 1	0.196	3 2 2 1 2	0.125
3 2 2 1 3	-0.040	3 2 2 2 1	0.073	3 2 2 2 2	0.002	3 2 2 2 3	-0.163
3 2 2 3 1	-0.190	3 2 2 3 2	-0.261	3 2 2 3 3	-0.426	3 2 3 1 1	0.138
3 2 3 1 2	0.067	3 2 3 1 3	-0.098	3 2 3 2 1	0.015	3 2 3 2 2	-0.056
3 2 3 2 3	-0.221	3 2 3 3 1	-0.248	3 2 3 3 2	-0.319	3 2 3 3 3	-0.484
3 3 1 1 1	0.122	3 3 1 1 2	0.051	3 3 1 1 3	-0.114	3 3 1 2 1	-0.001
3 3 1 2 2	-0.072	3 3 1 2 3	-0.237	3 3 1 3 1	-0.264	3 3 1 3 2	-0.335
3 3 1 3 3	-0.500	3 3 2 1 1	0.086	3 3 2 1 2	0.015	3 3 2 1 3	-0.150
3 3 2 2 1	-0.037	3 3 2 2 2	-0.108	3 3 2 2 3	-0.273	3 3 2 3 1	-0.300
3 3 2 3 2	-0.371	3 3 2 3 3	-0.536	3 3 3 1 1	0.028	3 3 3 1 2	-0.043
3 3 3 1 3	-0.208	3 3 3 2 1	-0.095	3 3 3 2 2	-0.166	3 3 3 2 3	-0.331
3 3 3 3 1	-0.358	3 3 3 3 2	-0.429	3 3 3 3 3	-0.594	unconscious [2]	-0.402

Source : A1 TARIFF BASED ON UK MVH SURVEY (1993)

[2] The value for unconscious is the mean observed value. It does not result from the regression model.