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**ASSESSING HEALTH-RELATED QUALITY
OF LIFE IN PEOPLE WITH APHASIA**

by

Katerina Hilari

A thesis submitted in partial fulfilment of the
requirements for the degree of

Doctor of Philosophy

City University

Department of Language and Communication Science

May 2002

Volume 2

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the spine.

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NUMBERING

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Appendix 3.1: Research Ethics Committees' ethical approval letters

- A. City University's ethical approval (last page of submitted form). Connect the communication disability network accepted this ethical approval.**
- B. Guy's Research Ethics Committee ethical approval for recruiting people with aphasia from the SLT departments of Southwark and Lambeth.**
- C. Bexley's Research Ethics Committee ethical approval for recruiting people with aphasia from the SLT department of Queen Mary's Hospital (Oxleas NHS Trust)**



23. How will you ensure the confidentiality of these records? All written material will be kept in a locked cabinet. The computer records will be kept in the main investigator's laptop which requires a password to operate Windows that only the main investigator knows.

24. What will happen to the records at the end of the project? Following completion of the project any identifying written information will be shredded. The computer records (which will not include participants' names) will remain in the main investigator's laptop.

25. Information to others:

26. Who will you inform about subjects' involvement in your research?
(please tick as appropriate)

GPs

Teachers

Care staff

Others (please specify)

Signature of student investigator:

Date: 10/05/00

Handwritten signature of the student investigator.

Signature of supervisor:

Date: 10.5.00

Handwritten signature of the supervisor.

Signature of year tutor: N/A

Date:

Approval by Research Ethics Committee

Signature of Chair of REC:

Date: 12.5.00

Handwritten signature of the Chair of the Research Ethics Committee.

The Guy's
King's College and
St Thomas'
Hospitals' Medical
and Dental School

01 September 2000 Email: valerie.heard@kcl.ac.uk
LEW/00/07/09

Guy's Research Ethics Committee

Guy's Hospital, London SE1 9RT

Chairman: Professor Steven Sacks

Administrator: Mrs Valerie Heard

(B)

KING'S
College
LONDON
Founded 1829

University of London

Tel: 020 7955 5000 Ext. 5181
Fax: 020 7955 4303

Ms Katerina Hilari
Department of Language and Communication Science
City University London School of Social & Human Sciences
Northampton Square
London EC1V 0HB

Dear Ms Hilari

Re: LEW/00/07/09 Health-Related Quality of Life (HRQOL) in people with long-term aphasia following stroke
Questionnaires: Case History form; Aphasia Adapted Stroke Specific Quality of Life Scale; Patient Satisfaction Index; General Health Questionnaire-12; Frenchay Activities Index; Social Support Scale
Information booklet for participants and consent form
MRS SALLY MCVICKER, MANAGER, COMMUNITY SPEECH AND LANGUAGE THERAPY SERVICES, SOUTHWARK; DR SALLY BYNG (SUPERVISOR): DR JANE MARSHALL; DR TIM PRING

This study was taken to the Guy's Research Ethics Committee meeting held on Wednesday 30 August 2000 and was given reciprocal approval. The patient information sheet and consent form should be on appropriate departmental headed paper, giving contact name(s) and telephone number(s).

Permission is granted on the understanding that:

- i) Any ethical problem arising in the course of the project will be reported to the Committee.
- ii) Any change in the protocol or subsequent protocol amendments will be forwarded to the Committee using the enclosed form. The principal investigator should have seen and approve any such changes and this needs to be indicated in the forwarding letter to the Committee. Please also send a copy of the amendment approval letter issued by whichever LREC originally reviewed and approved this study.
- iii) A brief report will be submitted one year after commencement, thereafter annually, and after completion of the study. Continuing approval is dependent upon this report.
- iv) Approval is given for research to start within 12 months of the date of application. If the start is delayed beyond this time, applicants are required to consult the Chairman of the Committee. Please notify the Committee of the date of commencement for record purposes.

A list of members in attendance is enclosed.

Yours sincerely



T G K Mant, FRCP, FFPM
Vice-Chairman, Guy's Research Ethics Committee

(C)

BEXLEY LOCAL RESEARCH ETHICS COMMITTEE

221 Erith Road
Bexleyheath
Kent DA7 6HZ

Tel: 0208 298 6180
Fax: 0208 298 6183

14 September 2000

Ms Katerina Hilari
Research Speech and Language Therapist
City University London
School of Social and Human Sciences
Department of Language and Communication Sciences
Northampton Square
LONDON
EC1V OHB

Dear Ms Hilari

HEALTH RELATED QUALITY OF LIFE IN PEOPLE WITH LONG-TERM APHASIA FOLLOWING STROKE

Further to the meeting of the Bexley Local Research Ethics Committee held on 1 September, I am writing to advise you that the above study was granted FULL APPROVAL.

Yours sincerely

S K Smith

S K Smith
Secretary - Bexley Local Research Ethics Committee

Appendix 3.2 : Information on the project booklet and consent form for people with aphasia

THE EFFECTS OF STROKE AND APHASIA ON PEOPLE'S LIVES

Are you interested in
researching stroke?

Participant:

Researcher:

Katerina Hilari

Department of Language and Communication Science
City University
Northampton Square
London EC1V 0HB

Tel: 020 7477 8000 ext: 4660



Thank you for your interest in this project!

This leaflet will give you more **information** about:

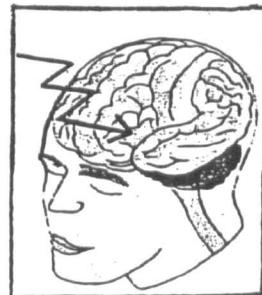
- Your **emotions** and your **feelings**
- **Why** we are doing this project
- **What you will be asked to do**, if you decide to take part
- **What the project involves**

b

➤ Why we are doing this project

You had a **stroke**,

which resulted in **aphasia**.

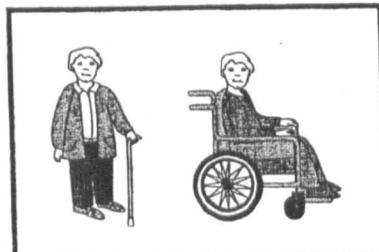


Aphasia affects **language**. You may have difficulties with your **speech**, **reading** or **writing**.



We want to **know more** about how the **stroke** and **aphasia** have affected:

➤ **your physical health**



➤ **your physical health**

➤ **your emotions and your feelings**



This booklet will help you to answer
what you can do about it.

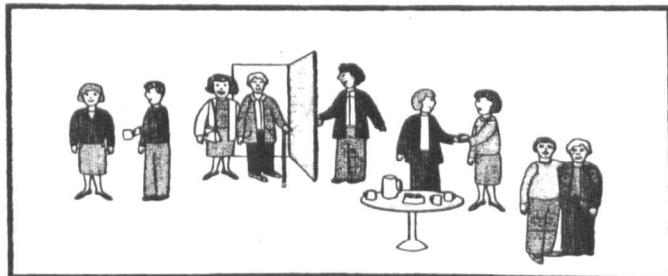
- your **thinking**



- your **family** life



- your **social** life



We also want to **know more** about **what** makes you

- feel **good** about things



- feel **sad** with how things are



This way we will **understand** better **what your needs are** and **what we can do** about them.

If you decide to take part, you will receive a certificate.

➤ What you will be asked to do

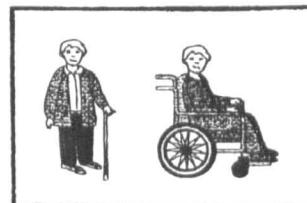
If you decide to **take part**, you will have an **interview** with the researcher.

The researcher will ask you to:

- 1) **Answer** some questions and
- 2) Do some **assessments** on



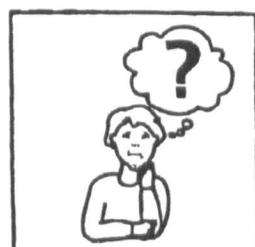
➤ Your **physical** health



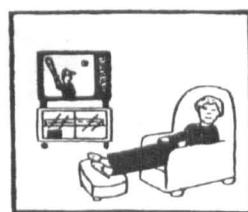
➤ Your **language**



➤ Your **thinking** and your **emotions**



➤ Your **lifestyle**



➤ Your **satisfaction** with the **care** you had for your **stroke** and **aphasia**



If you decide to **take part**, you will be asked to sign a **consent form**

➤ What the project involves

How long?

To get a full picture of how the stroke and aphasia have affected your life

the researcher will :

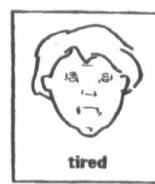
- See you **2 times**



- For about **2 hours each time**

But if you get **tired**, we will stop

and **start again later or on another day**



Where?

The researcher can see you

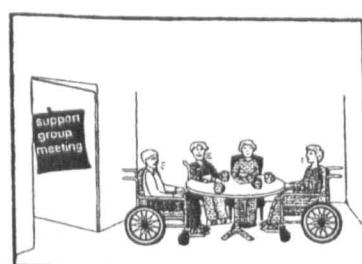
- In your **home**



- At your normal **clinic**



- At your normal **stroke group meeting place**

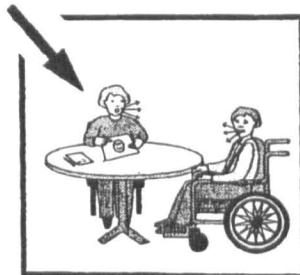


Who else will be involved?

With your **agreement**,

we will take information about your **stroke** and your **aphasia** from:

- Your Speech and Language Therapist



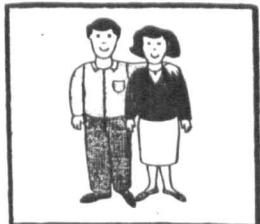
If you find it **hard to talk** and **you get tired**,

with your **agreement**



we may also get **information** about **you** from

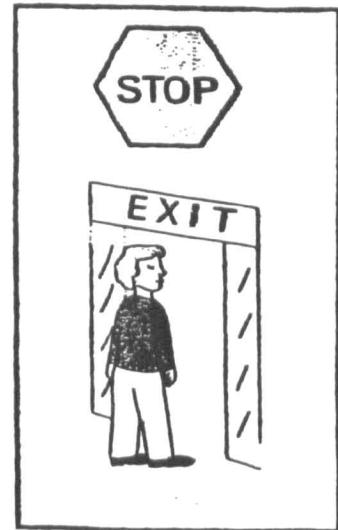
- A person who **knows you very well**,
e.g., your wife or husband, your partner,
one of your children, your key-worker



Who will this person be? _____

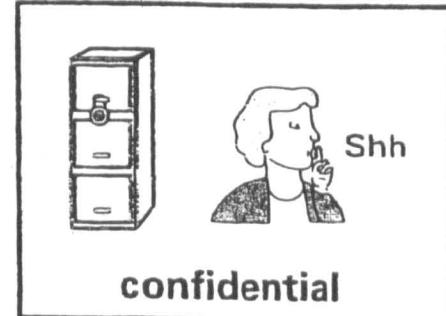
Right to withdraw

- You can **stop** at any time
- It is **OK** to stop
- **Stopping** will not affect your normal Speech and Language Therapy

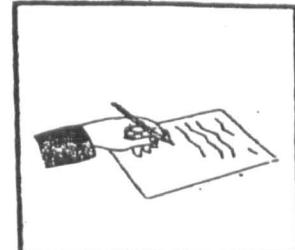


Confidentiality

- Everything will be kept **confidential**
- Your name will not be used at any time



- At your request we can tell your **Speech and Language Therapist** or your **GP** about how you did



Publication

When the **project** is finished it will be **written up**.



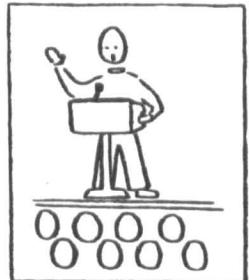
It will be kept at **City University**

We will **send you a report** on our findings

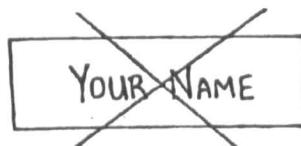


We will also

- **Write** about our findings in **journals**
- **Talk** about our findings in **conferences**



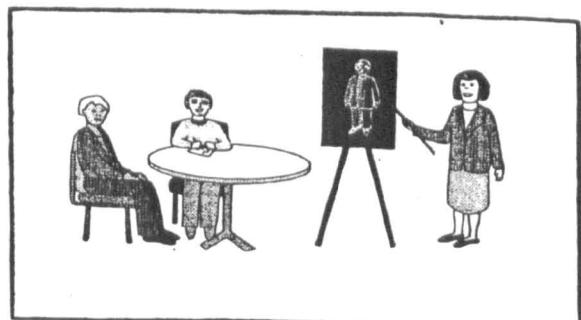
Your name will **not be used** at any time



Benefits

If you decide to take part in this project, you will:

- **Help us understand aphasia better**
- **Help other people with aphasia**
- **Help research**



Please note: Taking part in the project is **NOT therapy**. It will **not help you to talk better**



PROJECT CONSENT

1. The **information** presented on the previous pages has been **explained** to me

YES



NO



2. The researcher **gave me a copy of this booklet**

YES



NO



3. **I agree to take part** in this research project



YES



NO



Name: _____

Signature: _____

Date: _____

Appendix 3.3: the SS-QOL

Patient Initials _____

Date of exam _____

1

We would like to know how you're doing with activities or feelings that can sometimes be affected by stroke. Each question will ask about a specific activity or feeling. For each question, think about how that activity or that feeling has been **in the past week**.

The first group of questions asks about how much trouble you have with a specific activity. Each question deals with problems that some people have after their stroke. Circle the number in the box that best describes how much trouble you have had with that activity **in the past week**.

DURING THE PAST WEEK:

	Couldn't do it at all	A lot of trouble	Some trouble	A little trouble	No trouble at all
SC1. Did you have trouble preparing food?	1	2	3	4	5
SC2. Did you have trouble eating, for example, cutting food or swallowing?	1	2	3	4	5
SC4. Did you have trouble getting dressed, for example, putting on socks or shoes, buttoning buttons, or zipping?	1	2	3	4	5
SC5. Did you have trouble taking a bath or shower?	1	2	3	4	5
SC8. Did you have trouble using the toilet?	1	2	3	4	5
V1. Did you have trouble seeing the television well enough to enjoy a show?	1	2	3	4	5
V2. Did you have trouble reaching for things because of poor eyesight?	1	2	3	4	5
V3. Did you have trouble seeing things off to one side?	1	2	3	4	5
L2. Did you have trouble speaking, for example, get stuck, stutter, stammer, or slur your words?	1	2	3	4	5
L3. Did you have trouble speaking clearly enough to use the telephone?	1	2	3	4	5

DURING THE PAST WEEK:

	Couldn't do it at all	A lot of trouble	Some trouble	A little trouble	No trouble at all
L5. Did other people have trouble understanding what you said?	1	2	3	4	5
L6. Did you have trouble finding the word you wanted to say?	1	2	3	4	5
L7. Did you need to repeat yourself so others could understand you?	1	2	3	4	5
M1. Did you have trouble walking? (If you can't walk, circle 1 and go to question M7)	1	2	3	4	5
M4. Did you lose your balance when bending over or reaching for something?	1	2	3	4	5
M6. Did you have trouble climbing stairs?	1	2	3	4	5
M7. Did you have trouble with needing to stop and rest when walking or using a wheelchair?	1	2	3	4	5
M8. Did you have trouble with standing?	1	2	3	4	5
M9. Did you have trouble getting out of a chair?	1	2	3	4	5
W1. Did you have trouble doing daily work around the house?	1	2	3	4	5
W2. Did you have trouble finishing jobs that you started?	1	2	3	4	5
W3. Did you have trouble doing the work you used to do?	1	2	3	4	5

DURING THE PAST WEEK:

	Couldn't do it at all	A lot of trouble	Some trouble	A little trouble	No trouble at all
UE1. Did you have trouble writing or typing?	1	2	3	4	5
UE2. Did you have trouble putting on socks?	1	2	3	4	5
UE3. Did you have trouble buttoning buttons?	1	2	3	4	5
UE5. Did you have trouble zipping a zipper?	1	2	3	4	5
UE6. Did you have trouble opening a jar?	1	2	3	4	5

The next set of questions asks about how much you agree or disagree with each statement. Each question deals with a problem or feeling that some people have after their stroke. Circle the number in the box that best says how you felt about each statement **during the past week**.

DURING THE PAST WEEK:

	Strongly agree	Moderately agree	Neither agree nor disagree	Moderately disagree	Strongly disagree
T2. It was hard for me to concentrate.	1	2	3	4	5
T3. I had trouble remembering things.	1	2	3	4	5
T4. I had to write things down to remember them.	1	2	3	4	5
P1. I was irritable.	1	2	3	4	5

DURING THE PAST WEEK:

	Strongly agree	Moderately agree	Neither agree nor disagree	Moderately disagree	Strongly disagree
P2. I was impatient with others	1	2	3	4	5
P3. My personality has changed.	1	2	3	4	5
MD2. I was discouraged about my future.	1	2	3	4	5
MD3. I wasn't interested in other people or activities.	1	2	3	4	5
FR5. I didn't join in activities just for fun with my family.	1	2	3	4	5
FR7. I felt I was a burden to my family.	1	2	3	4	5
FR8. My physical condition interfered with my family life.	1	2	3	4	5
SR1. I didn't go out as often as I would like.	1	2	3	4	5
SR4. I did my hobbies and recreation for shorter periods of time than I would like.	1	2	3	4	5
SR5. I didn't see as many of my friends as I would like.	1	2	3	4	5
SR6. I had sex less often than I would like.	1	2	3	4	5
SR7. My physical condition interfered with my social life.	1	2	3	4	5

DURING THE PAST WEEK:

	Strongly agree	Moderately agree	Neither agree nor disagree	Moderately disagree	Strongly disagree
MD6. I felt withdrawn from other people.	1	2	3	4	5
MD7. I had little confidence in myself.	1	2	3	4	5
MD8. I was not interested in food.	1	2	3	4	5
E2. I felt tired most of the time.	1	2	3	4	5
E3. I had to stop and rest often during the day.	1	2	3	4	5
E4. I was too tired to do what I wanted to do.	1	2	3	4	5

Appendix 3.4: Scoring sheet for the ASHA-FACS



Functional Assessment of Communication Skills for Adults

ASHA FACS

*Carol M. Frattali
Cynthia K. Thompson
Audrey L. Holland
Cheryl B. Wohl
Michelle M. Ferketic*

*Funded in part by the U.S. Department of Education,
National Institute on Disability and Rehabilitation Research
Grant Award #H133G20160*

Social Communication

Given the opportunity, _____ (name's name)

1. Refers to familiar people by name (e.g., family, friends, colleagues) 7 6 5 4 3 2 1 N
2. Requests information of others (e.g., "What's on TV?" "Where do you live?") 7 6 5 4 3 2 1 N
3. Explains how to do something (e.g., how to make a cup of coffee, set an alarm clock) 7 6 5 4 3 2 1 N
4. Expresses agreement/disagreement (e.g., nods yes, says "Not really") 7 6 5 4 3 2 1 N
5. Exchanges information on the phone (e.g., answers questions, provides information) 7 6 5 4 3 2 1 N
6. Participates in a group conversation (e.g., with family at the dinner table) 7 6 5 4 3 2 1 N
7. Answers yes/no questions (e.g., "Are you cold?") 7 6 5 4 3 2 1 N
8. Follows simple verbal directions (e.g., "Get the mail") 7 6 5 4 3 2 1 N
9. Understands intent (e.g., "It's getting late," implying that it's time to go) 7 6 5 4 3 2 1 N
10. Smiles or laughs at light-hearted comments (e.g., "I'm not getting older, I'm getting better") 7 6 5 4 3 2 1 N
11. Understands non-literal meaning and inference (e.g., "He has a heavy heart," or other culturally appropriate idiom) 7 6 5 4 3 2 1 N
12. Understands conversations when they occur in noisy or distracting situations (e.g., a crowded cafeteria) 7 6 5 4 3 2 1 N
13. Understands what's heard on TV and radio (e.g., news headlines, sports, commercials) 7 6 5 4 3 2 1 N
14. Understands facial expressions (e.g., clenched teeth, smile) 7 6 5 4 3 2 1 N
15. Understands tone of voice (e.g., emphatic tone) 7 6 5 4 3 2 1 N
16. Initiates communication with other people 7 6 5 4 3 2 1 N
17. Adds new information on a topic in a conversation 7 6 5 4 3 2 1 N

Social Communication (cont.)

18. Changes topics in conversation 7 6 5 4 3 2 1 N
19. Adjusts to a change in topic by conversational partner 7 6 5 4 3 2 1 N
20. Recognizes his/her own communication errors (e.g., shows awareness that he/she used the wrong word) 7 6 5 4 3 2 1 N
21. Corrects his/her own communication errors (e.g., corrects naming errors) 7 6 5 4 3 2 1 N

Qualitative Dimensions of Communication Scores			
Social Communication	Adequacy	Promptness	Communication Sharing
.....

Communication Independence Scores			
Social Communication	Total Score	Total Items Read (of 21)	Domain Mean Score
.....

Communication of Basic Needs

22. Recognizes familiar faces 7 6 5 4 3 2 1 N
23. Recognizes familiar voices 7 6 5 4 3 2 1 N
24. Makes strong likes or dislikes known (e.g., people, places, foods) 7 6 5 4 3 2 1 N
25. Expresses feelings (e.g., happy, sad) 7 6 5 4 3 2 1 N
26. Requests help when necessary (e.g., gestures that wheelchair is stuck) 7 6 5 4 3 2 1 N
27. Makes needs or wants known (e.g., to eat, to rest) 7 6 5 4 3 2 1 N
28. Responds in an emergency (e.g., calls 911) 7 6 5 4 3 2 1 N

Qualitative Dimensions of Communication Scores			
Communication of Basic Needs	Adequacy	Promptness	Communication Sharing
.....

Communication Independence Scores			
Communication of Basic Needs	Total Score	Total Items Read (of 7)	Domain Mean Score
.....

Reading, Writing, Number Concepts

29. Understands simple signs (e.g., poison symbol, stop sign) 7
30. Uses common reference materials (e.g., telephone book, TV guide) 7
31. Follows written directions (e.g., prescriptions, preparing a can of soup) 7
32. Understands basic printed material (e.g., menus, headlines) 7
33. Prints/writes/types name 7
34. Fills out short forms (e.g., for entering a sweepstakes) 7
35. Writes messages (e.g., "Call your mother") 7
36. Understands signs with numbers (e.g., price tags, speed limit signs) 7
37. Makes basic money transactions (e.g., pays for items at grocery store, recognizes when given the wrong change) 7
38. Understands simple units of measurement (e.g., weights, distances, quantities in recipes) 7

Qualitative Dimensions of Communication Scores			
Reading, Writing, Number Concepts	Adequacy	Appropriateness	Communication Sharing

Communication Independence Scores			
Reading, Writing, Number Concepts	Total Score	Total Items Rated (of 10)	Domain Mean Score

Daily Planning

39. Knows what time it is (i.e., tells time) 7
40. Dials telephone numbers (i.e., sequences numbers correctly) 7
41. Keeps scheduled appointments (e.g., arrives at doctor's office on time) 7
42. Uses a calendar for time-related activities (e.g., scheduling, planning) 7
43. Follows a map (e.g., finds a street on a road map) 7

Qualitative Dimensions of Communication Scores			
Daily Planning	Adequacy	Appropriateness	Communication Sharing

Communication Independence Scores			
Daily Planning	Total Score	Total Items Rated (of 5)	Domain Mean Score

Information Sources

Information was solicited from the following individuals to complete this ASHA PACS:

- Family member, friend, or caregiver of client (e.g., spouse/partner, sibling, parent, child)
- Other professionals serving client (e.g., nurse, physical therapist, occupational therapist)

ASHA FACS Communication Independence Scores Summary Page

<p>Client Name: _____</p> <p>Client ID#: _____</p> <p>Facility: _____</p> <p>Examiner: _____</p>	<p>Evaluation Type: <input type="checkbox"/> Admission <input type="checkbox"/> Interim <input type="checkbox"/> Discharge <input type="checkbox"/> Follow-up</p> <p>check one; if interim, enter number, e.g., 1, 2, 3)</p> <p>Date of Evaluation: _____</p> <p>Notes: _____</p>		
COMMUNICATION INDEPENDENCE SCORES			
Assessment Domain	Total of Item Scores	Total Items Rated	Domain Mean Score
Social Communication			
Communication of Basic Needs			
Reading, Writing, Number Concepts			
Daily Planning			
Total Domain Mean Score			
Total Number of Domains Rated			
Overall Communication Independence Mean Score			

Appendix 3.5: Scoring sheet for the GHQ-12

Please read this carefully:

We should like to know if you have had any medical complaints, and how your health has been in general, *over the past few weeks*. Please answer ALL the questions simply by underlining the answer which you think most nearly applies to you. Remember that we want to know about present and recent complaints, not those you had in the past. It is important that you try to answer ALL the questions.

Thank you very much for your co-operation.

HAVE YOU RECENTLY:

1 - been able to concentrate on whatever you're doing?	Better than usual	Same as usual	Less than usual	Much less than usual
2 - lost much sleep over worry?	Not at all	No more than usual	Rather more than usual	Much more than usual
3 - felt that you are playing a useful part in things?	More so than usual	Same as usual	Less useful than usual	Much less useful
4 - felt capable of making decisions about things?	More so than usual	Same as usual	Less so than usual	Much less capable
5 - felt constantly under strain?	Not at all	No more than usual	Rather more than usual	Much more than usual
6 - felt you couldn't overcome your difficulties?	Not at all	No more than usual	Rather more than usual	Much more than usual
7 - been able to enjoy your normal day-to-day activities?	More so than usual	Same as usual	Less so than usual	Much less than usual
8 - been able to face up to your problems?	More so than usual	Same as usual	Less able than usual	Much less able
9 - been feeling unhappy and depressed?	Not at all	No more than usual	Rather more than usual	Much more than usual
10 - been losing confidence in yourself?	Not at all	No more than usual	Rather more than usual	Much more than usual
11 - been thinking of yourself as a worthless person?	Not at all	No more than usual	Rather more than usual	Much more than usual
12 - been feeling reasonably happy, all things considered?	More so than usual	About same as usual	Less so than usual	Much less than usual

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Appendix 3.6: Scoring sheet for the FAI

I.D.: _____

The Frenchay Activities Index **Scoring form**

In the last 3 months	Code
1. How often did you prepare the main meal?	0=Never 1=Under once a week 2=1-2 times a week 3=Most days
2. How often did you do the washing up, after the meals?	0=Never 1=Under once a week 2=1-2 times a week 3=Most days
3. How often did you do the washing of the clothes?	0=Never 1=1-2 times in 3 months 2=3-12 times in 3 months 3=At least weekly
4. How often did you do light housework (e.g., dusting, polishing, tidying small objects, tidying duvet on bed, vacuum cleaning exposed areas)?	0=Never 1=1-2 times in 3 months 2=3-12 times in 3 months 3=At least weekly
5. How often did you do heavy housework (e.g., making beds-changing sheets etc., cleaning fires and floors, moving chairs, etc.)?	0=Never 1=1-2 times in 3 months 2=3-12 times in 3 months 3=At least weekly
6. How often did you do local shopping? (includes organising and buying shopping)	0=Never 1=1-2 times in 3 months 2=3-12 times in 3 months 3=At least weekly
7. How often did you go out socially? (inc., clubs, church, cinema, drinking, to dinner with friends or lunch with relatives)	0=Never 1=1-2 times in 3 months 2=3-12 times in 3 months 3=At least weekly
8. How often did you walk outside for at least 15 minutes? (allows stops for breath; can include walking to shops if far enough)	0=Never 1=1-2 times in 3 months 2=3-12 times in 3 months 3=At least weekly

9. How often did you do your hobbies ? (must require active participation e.g., growing plants in the house, knitting, painting, games, sports, not just watching TV)	0=Never 1=1-2 times in 3 months 2=3-12 times in 3 months 3=At least weekly
10. How often did you drive somewhere or use public transport to get somewhere (e.g., bus, coach, train)?	0=Never 1=1-2 times in 3 months 2=3-12 times in 3 months 3=At least weekly
<i>In the last 6 months</i>	
11. How often did you travel for pleasure (i.e., a coach or rail trip or a car ride to some place for pleasure)?	0=Never 1=1-2 times in 6 months 2=3-12 times in 6 months 3=At least weekly
12. Did you do any gardening ? (light: occasional weeding, moderate: regular weeding, pruning, mowing the lawn, heavy: heavy digging, etc)	0=Never 1=Light 2=Moderate 3>All necessary
13. Did you do any household/car maintenance ? (light: repairing small items e.g., china, wiper blade, moderate: some painting/decorating, routine car maintenance, heavy: most necessary household/car maintenance/repairs)	0=Never 1=Light 2=Moderate 3>All necessary
14. Did you read any books ? (must be full length books, not just magazines or newspapers)	0=None 1=1 in 6 months 2= Less than 1 a fortnight 3=Over 1 a fortnight
15. Did you do any paid work ?	0=None 1=Up to 10 hours a week 2=10-30 hours a week 3=Over 30 hours a week
Total	/45

Appendix 3.7: Scoring sheet for the SSS

Project: Health related quality of life in people with long-term aphasia following stroke.
 Main investigator: Katerina Hilari. Tel: 020 7477 8000 ext:4660

I.D.: _____

Social Support Scale

Scoring sheet

		None of the time	A little of the time	Some of the time	Most of the time	All of the time
1	confined to bed	1	2	3	4	5
2	listen to you when you need to talk	1	2	3	4	5
3	good advice about a crisis	1	2	3	4	5
4	to the doctor	1	2	3	4	5
5	love and affection	1	2	3	4	5
6	good time with	1	2	3	4	5
7	information to help you understand	1	2	3	4	5
8	to confide in or talk to	1	2	3	4	5
9	who hugs you	1	2	3	4	5
10	to get together for relaxation	1	2	3	4	5
11	to prepare your meals	1	2	3	4	5
12	advice you really want	1	2	3	4	5
13	get your mind off things	1	2	3	4	5
14	daily chores if you were sick	1	2	3	4	5
15	private worries and fears	1	2	3	4	5
16	suggestions	1	2	3	4	5
17	something enjoyable	1	2	3	4	5
18	understands your problems	1	2	3	4	5
19	make you feel wanted	1	2	3	4	5
Total						

Appendix 3.8: Case history form

I.D.: _____

Case History

Personal Details

Name: _____ **Sex:** _____

Age (at data collection): _____

Ethnic Origin: Asian Black White Other

Lives at: Home Who with?
 Residential Care

Marital Status: Single Married Has partner Widowed Divorced

Medical information

Stroke (information on site, type, extent/severity)

Date: _____

Clinical Diagnosis: _____

CT or MRI report: _____

Other: _____

Comorbidity

Heart disease (including heart attack, angina, heart failure)

Hypertension

Joint disease (including osteoarthritis, rheumatoid arthritis, gout)

Lung disease of any kind (including chronic bronchitis, emphysema, asthma)

Q

Other stroke

Diabetes mellitus

Abdominal hernia (hiatus, inguinal, rupture)

Thyroid Disease

Pneumonia

Cancer

Depression

Other

Medication:

Amount of SLT Rehabilitation

In-patient:

Months:

Frequency:

Number of sessions:

Out-patient:

Months:

Frequency

Number of sessions:

Other:

Months:

Frequency

Number of sessions:

Discharged

Ongoing

On review

Social Network (includes marital status)

Children

How many?

How often do you see your children?

Much less than before the stroke	Less than before the stroke	Same than before the stroke	More than before the stroke	Much more than before the stroke

Friends and relatives

(Not counting your spouse/partner and your children) about how many close friends and relatives do you have (people you feel at ease with and/or can talk to about what is on your mind)?

Relatives:

Friends:

How often do you see them?

Much less than before the stroke	Less than before the stroke	Same than before the stroke	More than before the stroke	Much more than before the stroke	
					Relatives
					Friends

Groups

Do you regularly join in the activities of any of these types of organisation?

Political parties, trade unions, environmental groups?

Tenants groups, residents' groups, Neighbourhood Watch?

Church or other religious groups, charitable organisations?

Education, arts or music groups or evening classes?

Social clubs (e.g., Rotary Club, Women's Institute, Townswoman's Guild, etc.)?

Sports clubs, gyms or exercise classes?

Stroke voluntary organisations (E.g., SA, ADA, Different Strokes)?

Other stroke groups?

Other groups or organisations?

Work

Paid work

Voluntary work

Retired:	Prior to the stroke	Because of the Stroke
-----------------	----------------------------	------------------------------

No work:	Housewife	Other:
-----------------	------------------	---------------

Annex 3 Collapsed version of revised SEC

Short SEC	Long Version Codes	% ¹
1 Higher professionals/senior managers	1, 3, 5	13.7
2 Associate professionals/junior managers	2, 4, 6, 7	24.4
3 Other admin. and clerical workers	8	12.0
4 Own account non-professional	10	7.5
5 Supervisors, technicians and related workers	9, 11	17.4
6 Intermediate workers	12	19.2
7 Other workers	13	5.8
8 Never worked/other inactive	14	-
		100.0

Note

- ¹ Distributions for the Omnibus Surveys - see Chapter Five for more details. Data for 'never worked' are excluded

Annex 2 Long version of revised SEC

	SEG	SC	Goldthorpe
1. Proprietors (25+ employees)			
1.1 Non-agricultural	1.1	II	I
1.2 Agricultural	13*, 15*	II	IVc
2. Proprietors (< 25 employees)			
2.1 Non-agricultural	2.1	II (IIIa, IIIm)	IVa
2.2 Agricultural	13*, 15*	II	IVc
3. Managers and administrators (25+ employees)	1.2, 13*, 16*	II	I (II)
4. Managers and administrators (< 25 employees)	2.2, 13*	II	II
5. Professionals			
5.1 Self-employed	3	I	I
5.2 Employees	4	I	I
6. Associate professionals and higher technicians			
6.1 Self-employed	5.1*	II	II (I, IIIb)
6.2 Employees	5.1, 6*, 7*		
7. Supervisors of other admin. and clerical workers	5.2*	IIIa	II (IIIa)
8. Other admin. and clerical workers, etc	6*	IIIa	IIIa
9. Other supervisors/foremen	5.2*, 8, 7*, 15*, 16*	IIIm	V
10. Own account non-professional workers			
10.1 Non-agricultural	12*	IIIm (II, IIIa, IV)	IVb
10.2 Agricultural	12*, 14, 15*	IV	IVc
11. Other technicians, craft and related workers	6*, 7*, 9, 10*, 16*	IIIm, AF	VI (VIIa)
12. Intermediate workers			
12.1 Production workers	10*	IV	VIIa
12.2 Agricultural and fisheries workers	15*	IV	VIIb
12.3 Sales workers	6*	IIIa (IV)	IIIb
12.4 Service workers	6*, 7*	IV (IIIa)	VIIa (IIIb, VI)
13. Other workers	7*, 11	V (IV)	VIIa
14. Economically inactive			
14.1 Never worked			
14.2 Other inactive			

* Denotes existing SEGs which will be re-distributed across categories of the revised SEC



Appendix 3.9: Scoring sheet for PSI

I.D : _____

Patients' satisfaction with Stroke Care

Scoring Sheet

		Strongly agree	Agree	Disagree	Strongly disagree
1	I have been treated with kindness and respect	4	3	2	1
2	The staff attended well to my personal needs	4	3	2	1
3	I felt able to talk to the staff about any problems	4	3	2	1
4	I have been given all the information I want	4	3	2	1
5	The doctors have done everything they can	4	3	2	1
6	I am satisfied with the type of treatment the therapists have given me	4	3	2	1
7	I have had enough therapy	4	3	2	1
8	I am happy with the amount of recovery	4	3	2	1
9	I was given all the information I wanted about the allowances or services	4	3	2	1
10	Things were all well prepared for my return home	4	3	2	1
11	I get all the support I need from services	4	3	2	1
12	I am satisfied with the amount of contact I have had with the hospital since discharge	4	3	2	1
Overall total					
Total hospital					
Total community					

Appendix 4.1. : Information given to SLTs prior to the focus groups on how the SS-QOL needed to be modified for use with people with aphasia

The Stroke Specific Quality of life Scale (SS-QOL)

The SS-QOL (Williams et al., 1999) is a measure of Health Related Quality of Life (HRQOL) designed specifically for stroke survivors.

Concept definition

HRQOL is broadly defined as the impact of a health state on a person's ability to lead a fulfilling life. It incorporates the individual's subjective evaluation of his/her physical, mental/emotional, family and social functioning

Instrument development

A problem with a lot of HRQOL measures is that they are developed by researchers or specialists in various areas, without patient/user involvement. This is not the case with the SS-QOL.

In order to identify what domains and what items to include in the instrument, the developers conducted focused interviews with 34 ischaemic stroke survivors (people with 'significant' cognitive or language impairment were excluded). The participants were interviewed 1-6 months after the stroke and were asked to identify the 3 areas most affected by their stroke. A list of commonly affected domains was also used, so that areas not mentioned by patients could be uniformly queried.

Individual items for each domain were generated from the stroke survivors responses and from review of other stroke and HRQOL instruments.

(If you are interested, further info on the development and testing of its psychometric properties can be found in the attached paper by Williams et al., 1999)

Content

The stroke survivors' interviews identified the following domains as commonly affected, which are included in the instrument:

- SC: self care
- V: vision
- L: language
- M: mobility
- W: work
- UE: upper extremity
- T: thinking
- P: personality
- MD: mood
- FR: family roles
- SR: social roles
- E: energy

NB that domains most frequently identified as 1 of the 3 most affected were: language (56%), family roles (56%), hand/arm function (56%), mobility (31%), work (28%), cognitive (19%), mood (19%), and energy (13%).

In the meeting I'd like to discuss:

1. ***What do you think overall of the SS-QOL?***
2. ***What difficulties you think people with mild and moderate receptive aphasia may have with it?***
3. ***How can we modify it to make it more aphasia-friendly?***
4. ***Are there any areas/questions that you think should be added to the instrument?***

THANK YOU!!!!!! ☺

Appendix 4.2: Testing material of different response sets for the second-part items of the aphasia adapted SS-QOL (pilot study)

This is a list of problems or feelings that some people have after their stroke. Possible answers go from:

Yes, a lot : If you have the problem or the feeling a lot, to

No, not at all: If you don't have the problem or the feeling at all.

Tick the box that best says how you felt about each statement **during the past week**.

For example

	Yes, a lot	Yes, a little	Neither yes nor no	Not, really	No, not at all
I felt hopeless about my future					

DURING THE PAST WEEK:

	Yes, a lot	Yes, a little	Neither yes nor no	Not really	No, not at all
MD2. I was discouraged about my future.					
MD3. I wasn't interested in other people or activities.					
FR5. I didn't join in activities just for fun with my family.					
SR4. I did my hobbies and recreation for shorter periods of time than I would like.					
SR5. I didn't see as many of my friends as I would like.					

This is a list of problems or feelings that some people have after their stroke.

Firstly, we want to know whether you had any of these problems or feelings during the past week.

So you can:

Agree: if you did have the problem or feeling,

Disagree: if you did not have it, or

Neither agree nor disagree

For example

	Agree	Neither agree nor disagree	Disagree
I felt hopeless about my future.			

Secondly, we want to know how much you agree or disagree. So answers go from:

Strongly agree: If you have the problem or the feeling a lot, to

Strongly disagree: If you don't have the problem or the feeling at all.

Tick the box that best says how you felt about each statement during the past week.

For example

	Strongly agree	Moderately agree	Neither agree nor disagree	Moderately disagree	Strongly disagree
I felt hopeless about my future.					

DURING THE PAST WEEK:

	Strongly agree	Moderately agree	Neither agree nor disagree	Moderately disagree	Strongly disagree
MD2. I was discouraged about my future.					
MD3. I wasn't interested in other people or activities.					
FR5. I didn't join in activities just for fun with my family.					
SR4. I did my hobbies and recreation for shorter periods of time than I would like.					
SR5. I didn't see as many of my friends as I would like.					

This is a list of problems or feelings that some people have after their stroke. Possible answers go from:

That's so right : If you have the problem or the feeling a lot, to

Certainly not: If you don't have the problem or the feeling at all.

Tick the box that best says how you felt about each statement **during the past week**.

For example

	That's so right	I guess so	I don't know	I don't think so	Certainly not
I felt hopeless about my future					

DURING THE PAST WEEK:

	That's so right	I guess so	I don't know	I don't think so	Certainly not
MD2. I was discouraged about my future.					
MD3. I wasn't interested in other people or activities.					
FR5. I didn't join in activities just for fun with my family.					
SR4. I did my hobbies and recreation for shorter periods of time than I would like.					
SR5. I didn't see as many of my friends as I would like.					

This is a list of questions on problems or feelings that some people have after their stroke.
Possible answers go from:

Yes, a lot : If you have the problem or the feeling a lot, to

No, not at all: If you don't have the problem or the feeling at all.

Tick the box that best says how you felt about each statement **during the past week**.

For example

	Yes, a lot	Yes, a little	Neither yes nor no	Not, really	No, not at all
Did you feel hopeless about your future?					

DURING THE PAST WEEK:

	Yes, a lot	Yes, a little	Neither yes nor no	Not really	Not at all
MD2. Were you discouraged about your future?					
MD3. Did you feel you weren't interested in other people or activities?					
FR5. Did you find you didn't join in activities just for fun with your family?					
SR4. Did you do your hobbies and recreation for shorter periods of time than you would like?					
SR5. Did you find you didn't see as many of your friends as you would like?					

This is a list of problems or feelings that some people have after their stroke. Possible answers go from:

XX : If you have the problem or the feeling a lot, to

✓✓ : If you don't have the problem or the feeling at all.

Tick the box that best says how you felt about each statement during the past week.

For example

	XX	X	X/✓	✓	✓✓
I felt hopeless about my future					

DURING THE PAST WEEK:

	XX	X	X/V	✓	✓✓
MD2. I was discouraged about my future.					
MD3. I wasn't interested in other people or activities.					
FR5. I didn't join in activities just for fun with my family.					
SR4. I did my hobbies and recreation for shorter periods of time than I would like.					
SR5. I didn't see as many of my friends as I would like.					

This is a list of problems or feelings that some people have after their stroke. Possible answers go from:

Very true: If you have the problem or the feeling a lot, to

Very false: If you don't have the problem or the feeling at all.

Tick the box that best says how you felt about each statement **during the past week**.

For example

	Very true	True	Neither true nor false	False	Very false
I felt hopeless about my future					

DURING THE PAST WEEK:

	Very true	True	Neither true nor false	False	Very false
MD2. I was discouraged about my future.					
MD3. I wasn't interested in other people or activities.					
FR5. I didn't join in activities just for fun with my family.					
SR4. I did my hobbies and recreation for shorter periods of time than I would like.					
SR5. I didn't see as many of my friends as I would like.					

Appendix 4.3: Presenter's form of the SA-QOL

The Stroke and Aphasia

Quality of Life Scale (SAQOL)

We would like to know how you are doing with activities or feelings that can sometimes be affected by stroke.

Each question will ask about a specific activity or feeling.

For each question, think about how you have been in the past week.

The first set of questions ask about **how much trouble** you have had with **daily activities**

For example:

DURING THE PAST WEEK

How much trouble did you have:

X

Tying your shoelaces?

Couldn't do it at all

Some trouble

A lot of trouble

No trouble at all

Point to the box that best describes **how much trouble** you have had with each activity **in the past week**

DURING THE PAST WEEK

How much trouble did you have:

Preparing food?	
Eating?	X
Getting dressed?	
Taking a bath or shower?	
Using the toilet?	

A lot of trouble
Some trouble
A little trouble
No trouble at all

DURING THE PAST WEEK

How much trouble did you have:

Walking?	
Keeping your balance when bending over or reaching?	
Climbing stairs?	
Walking without stopping to rest? or Using a wheelchair without stopping to rest?	
Standing?	
Getting out of a chair?	

✓

No trouble at all

A little trouble

Some trouble

A lot of trouble

Couldn't do it at all

DURING THE PAST WEEK

How much trouble did you have:

Doing daily work around the house?
Finishing jobs that you started?
Doing the work you used to do?

X

- ✓ No trouble at all
- A little trouble
- Some trouble
- A lot of trouble
- Couldn't do it at all

DURING THE PAST WEEK

How much trouble did you have:

Writing or typing?
Putting on socks?
Doing buttons?
Doing a zip?
Opening a jar?

X

✓

Couldn't do it at all
A lot of trouble
Some trouble
A little trouble
No trouble at all

The next set of questions ask about **how much trouble** you have had with seeing and speaking

DURING THE PAST WEEK

How much trouble did you have:

Seeing the television well enough to enjoy it?

Seeing things you wanted to reach?

Seeing things off to one side?

✓

No trouble at all

A little trouble

Some trouble

A lot of trouble

Couldn't do it at all

DURING THE PAST WEEK

How much trouble did you have:

Speaking?	
Speaking clearly enough to use the telephone?	X
Getting other people to understand you?	
Finding the word you wanted to say?	
Getting other people to understand you even when you repeated yourself?	
• Understanding what other people say?	

No trouble at all
A little trouble
Some trouble
A lot of trouble
Couldn't do it at all

✓

The next part is about **problems** or **feelings** that some people have after their stroke.

The next set of questions ask about your thinking and your feelings

For example:

DURING THE PAST WEEK

Did you:

<input checked="" type="checkbox"/>	Feel hopeless about your future?
<input type="checkbox"/>	Definitely yes
<input type="checkbox"/>	Mostly yes
<input type="checkbox"/>	Not sure
<input type="checkbox"/>	Mostly no
<input type="checkbox"/>	Definitely no

Point to the box that best describes how you felt during the past week

DURING THE PAST WEEK

Did you:

Find it hard to concentrate?	<input checked="" type="checkbox"/>
Find it hard to remember things?	<input type="checkbox"/>
Have to write things down to remember them?	<input type="checkbox"/>
▪ Find it hard to make decisions?	<input type="checkbox"/>

Definitely yes	<input checked="" type="checkbox"/>
Mostly yes	<input type="checkbox"/>
Not sure	<input type="checkbox"/>
Mostly no	<input type="checkbox"/>
Definitely no	<input type="checkbox"/>

DURING THE PAST WEEK

Did you feel:

Irritable?	<input checked="" type="checkbox"/>
Impatient with others?	<input type="checkbox"/>
That your personality has changed?	<input type="checkbox"/>

X

Definitely yes	<input checked="" type="checkbox"/>
Mostly yes	<input type="checkbox"/>
Not sure	<input type="checkbox"/>
Mostly no	<input type="checkbox"/>
Definitely no	<input checked="" type="checkbox"/>

✓

DURING THE PAST WEEK

Did you:

Feel discouraged about your future?	<input checked="" type="checkbox"/>
Have no interest in other people or activities?	<input checked="" type="checkbox"/>
Feel withdrawn from other people?	<input checked="" type="checkbox"/>
Have little confidence in yourself?	<input type="checkbox"/>
Have no interest in food?	<input type="checkbox"/>

✓

Definitely
no

Mostly
no

Not sure

Mostly
yes

Definitely
yes

DURING THE PAST WEEK

Did you:

Feel tired most of the time?	<input checked="" type="checkbox"/>
Have to stop and rest often during the day?	<input type="checkbox"/>
Feel too tired to do what you wanted to do?	<input type="checkbox"/>

✓

Definitely
no

Mostly
no

Not sure

Mostly
yes

Definitely
yes

The last set of questions ask about your family and social life

DURING THE PAST WEEK

Did you:

- | | |
|---|-------------------------------------|
| Stay out of family activities,
which were just for fun | <input checked="" type="checkbox"/> |
| Feel that you were a burden to your
family? | <input type="checkbox"/> |
| Feel that your physical condition
interfered with your family life? | <input type="checkbox"/> |
| ▪ Feel that your language problems
interfered with your family life? | <input type="checkbox"/> |

✓

Definitely no
Mostly no
Not sure
Mostly yes
Definitely yes

DURING THE PAST WEEK

Did you:

Go out less often than you would like?
Do your hobbies and recreation less often than you would like?
See your friends less often than you would like?
Have sex less often than you would like?
Feel that your physical condition interfered with your social life?
▪ Feel that your language problems interfered with your social life?

<input checked="" type="checkbox"/>	Definitely yes
<input type="checkbox"/>	Mostly yes
<input type="checkbox"/>	Not sure
<input type="checkbox"/>	Mostly no
<input checked="" type="checkbox"/>	Definitely no

Appendix 4.4 : SAQOL Scoring Sheet

I.D.: _____

SAQOL Scoring Sheet

DURING THE PAST WEEK:

How much trouble did you have	Couldn't do it at all	A lot of trouble	Some trouble	A little trouble	No Trouble at all
SC1. preparing food?	1	2	3	4	5
SC2. eating, for example, cutting food or swallowing?	1	2	3	4	5
SC4. getting dressed?	1	2	3	4	5
SC5. taking a bath or shower?	1	2	3	4	5
SC8. using the toilet?	1	2	3	4	5
M1. walking? (If you can't walk, circle 1 and go to question M7)	1	2	3	4	5
M4. keeping your balance when bending over or reaching?	1	2	3	4	5
M6. climbing stairs?	1	2	3	4	5
M7. walking without stopping to rest or using a wheelchair without stopping to rest?	1	2	3	4	5
M8. standing?	1	2	3	4	5
M9. getting out of a chair?	1	2	3	4	5
W1. doing daily work around the house?	1	2	3	4	5
W2. finishing jobs that you started?	1	2	3	4	5
W3. doing the work you used to do?	1	2	3	4	5
UE1. writing or typing, i.e. using your hand to write or type?	1	2	3	4	5
UE2. putting on socks?	1	2	3	4	5
UE4. doing buttons?	1	2	3	4	5
UE5. doing a zip?	1	2	3	4	5
UE6. opening a jar?	1	2	3	4	5
V1. seeing the TV well enough to enjoy it?	1	2	3	4	5
V2. seeing things you wanted to reach?	1	2	3	4	5
V3. seeing things off to one side?	1	2	3	4	5
L2. speaking?	1	2	3	4	5
L3. speaking clearly enough to use the phone?	1	2	3	4	5
L5. getting other people to understand you?	1	2	3	4	5
L6. finding the word you wanted to say?	1	2	3	4	5
L7. getting other people to understand you even when you repeated yourself?	1	2	3	4	5
• L4. understanding what other people say?	1	2	3	4	5

DURING THE PAST WEEK:

Did you	Definitely yes	Mostly yes	Not sure	Mostly no	Definitely no
T2. find it hard to concentrate?	1	2	3	4	5
T3. find it hard to remember things?	1	2	3	4	5
T4. have to write things down to remember them, (or ask somebody else to write things down for you to remember)?	1	2	3	4	5
• T5. find it hard to make decisions?	1	2	3	4	5
P1. feel irritable?	1	2	3	4	5
P2. feel impatient with others?	1	2	3	4	5
P3. feel that your personality has changed?	1	2	3	4	5
MD2. feel discouraged about your future?	1	2	3	4	5
MD3. have no interest in other people or activities?	1	2	3	4	5
MD6. feel withdrawn from other people?	1	2	3	4	5
MD7. have little confidence in yourself?	1	2	3	4	5
MD8. have no interest in food?	1	2	3	4	5
E2. feel tired most of the time?	1	2	3	4	5
E3. have to stop and rest often during the day?	1	2	3	4	5
E4. feel too tired to do what you wanted to do?	1	2	3	4	5
FR5. stay out of family activities that were just for fun?	1	2	3	4	5
FR7. feel that you were a burden to your family?	1	2	3	4	5
FR8. feel that your physical condition interfered with your family life?	1	2	3	4	5
• FR9. feel that your language problems interfered with your family life?	1	2	3	4	5
SR1. go out less often than you would like?	1	2	3	4	5
SR4. do your hobbies and recreation less often than you would like?	1	2	3	4	5
SR5. see your friends less often than you would like?	1	2	3	4	5
SR6. have sex less often than you would like?	1	2	3	4	5
SR7. feel that your phys. condition interfered with your social life?	1	2	3	4	5
• SR8. feel that your language problems interfered with your social life?	1	2	3	4	5

Appendix 6.1: Internal consistency of the SAQOL

SAQOL Scale alpha: .9300

Items	N	Item-total correlations	Alpha if item deleted
Sc1: Prepare food	79	.6690	.9276
Sc2: Eat	79	.4824	.9294
Sc4: Get dressed	79	.5820	.9285
Sc5: Bath	79	.5912	.9282
Sc8: Toilet	79	.3537	.9302
M1: Walk	79	.6285	.9283
M4: Balance	79	.6598	.9280
M6: Stairs	79	.6427	.9277
M7: Walk no rest	79	.6650	.9293
M8: Stand	79	.4819	.9287
M9: Get out of chair	79	.6098	.9278
W1: Daily work	79	.6635	.9279
W2: Finish jobs	79	.5760	.9286
W3: Work	79	.2733	.9306
Ue1: Write	79	.6461	.9279
Ue2: Put on socks	79	.6058	.9281
Ue4: Do buttons	79	.4288	.9296
Ue5: Do a zip	79	.5189	.9289
Ue6: Open a jar	79	.6009	.9281
V1: See TV	79	.2900	.9304
V2: See to reach	79	.1540	.9310
V3: See off to 1 side	79	.1306	.9312
L2: Speak	79	.4018	.9298
L3: Use phone	79	.4196	.9310
L5: Be understood	79	.3214	.9302
L6: Find a word	79	.2196	.9307
L7: Repetition	79	.4634	.9293
L4: Understand	79	.2146	.9308
T2: Concentrate	79	.3539	.9301
T3: Remember	79	.3556	.9302
T4: Write to remember	79	.1954	.9314

Items	N	Item-total correlations	Alpha if item deleted
T5: Make decisions	79	.3202	.9303
P1: Irritable	79	.4781	.9292
P2: Impatient	79	.2700	.9307
P3: Changed personality	79	.3004	.9306
Md2: Discouraged	79	.4412	.9295
Md3: No interest in people	79	.4229	.9296
Md6: Withdrawn	79	.4466	.9294
Md7: Confidence	79	.4306	.9296
Md8: No interest in food	79	.1193	.9314
E2: Tired often	79	.3790	.9300
E3: Stop and rest	79	.3086	.9306
E4: Too tired	79	.3639	.9301
Fr5: Avoid family activities	79	.4992	.9290
Fr7: Feel a burden	79	.5617	.9285
Fr8: Phys. effect on FR	79	.5761	.9283
Fr9: Lang. effect on FR	79	.4181	.9297
Sr1: Go out less	79	.5493	.9286
Sr4: Do hobbies less	79	.5204	.9288
Sr5: See friends less	79	.2361	.9311
Sr6: Have sex less	79	.0718	.9329
Sr7: Phys. effect on SR	79	.6384	.9277
Sr8: Lang. effect on SR	79	.3789	.9299

Appendix 6.2 : Internal consistency of the SAQOL subdomains

Items and Subdomains	N	Item-total correlations	Alpha if item deleted	Subdomain alpha
Self care subdomain				.7791
Sc1: Prepare food	83	.5957	.7133	
Sc2: Eat	83	.4375	.7641	
Sc4: Get dressed	83	.7020	.6726	
Sc5: Bath	83	.6375	.7027	
Sc8: Toilet	83	.4386	.7698	
Mobility subdomain	83		.8990	
M1: Walk	83	.8040	.8671	
M4: Balance	83	.6760	.8865	
M6: Stairs	83	.7530	.8749	
M7: Walk no rest	83	.7755	.8722	
M8: Stand	83	.5877	.8981	
M9: Get out of chair	83	.7712	.8744	
Work subdomain	83		.5844	
W1: Daily work	83	.4336	.4356	
W2: Finish jobs	83	.5297	.2828	
W3: Work	83	.2542	.6730	
Upper extr. subdomain	83		.8358	
Ue1: Write	83	.6066	.8076	
Ue2: Put on socks	83	.6281	.8024	
Ue4: Do buttons	83	.6777	.7903	
Ue5: Do a zip	83	.6134	.8060	
Ue6: Open a jar	83	.6546	.7951	
Vision subdomain	82		.6815	
V1: See TV	82	.5625	.5163	
V2: See to reach	82	.3424	.7662	
V3: See off to 1 side	82	.6171	.4082	
Language subdomain	83		.8124	
L2: Speak	83	.7181	.7652	
L3: Use phone	83	.7498	.7564	
L5: Be understood	83	.6854	.7769	
L6: Find a word	83	.4390	.8228	

Items and Subdomains	N	Item-total correlations	Alpha if item deleted	Subdomain alpha
L7: Repetition	83	.7372	.7601	
L4: Understand	83	.2236	.8580	
Thinking subdomain	82			.7200
T2: Concentrate	82	.4652	.6812	
T3: Remember	82	.6869	.5385	
T4: Write to remember	82	.3929	.7275	
T5: Make decisions	82	.5036	.6603	
Personality subdomain	83			.6187
P1: Irritable	83	.5617	.3051	
P2: Impatient	83	.4480	.4734	
P3: Changed personality	83	.2778	.7190	
Mood subdomain	83			.7189
Md2: Discouraged	83	.4066	.7007	
Md3: No interest in people	83	.4995	.6614	
Md6: Withdrawn	83	.6366	.5931	
Md7: Confidence	83	.4832	.6649	
Md8: No interest in food	83	.3781	.7032	
Energy subdomain	83			.7959
E2: Tired often	83	.6872	.6717	
E3: Stop and rest	83	.6702	.6909	
E4: Too tired	83	.5694	.7941	
Family roles subdomain	81			.6941
Fr5: Avoid family activities	81	.5042	.6184	
Fr7: Feel a burden	81	.5993	.5531	
Fr8: Phys. effect on FR	81	.5244	.6033	
Fr9: Lang. effect on FR	81	.3104	.7270	
Social roles subdomain	83			.7081
Sr1: Go out less	83	.6087	.6070	
Sr4: Do hobbies less	83	.6348	.6044	
Sr5: See friends less	83	.4451	.6647	
Sr6: Have sex less	83	.2563	.7273	
Sr7: Phys. effect on SR	83	.4340	.6681	
Sr8: Lang. effect on SR	83	.2873	.7072	

Appendix 6.3: Test-retest reliability respondents' characteristics

	N=17	Percent
Gender		
Female	5	29.4%
Male	12	70.6%
Age		
Mean (SD)	59.35 (16.69)	
Range	21-83	
21-45	4	23.5%
46-65	6	35.3%
66+	7	41.2%
Time post onset		
Mean in years (SD)	1.35 (0.49)	
1-2 years post onset	11	64.7%
2-4 years post onset	6	35.3%
4+ years post onset	0	0%
Ethnic group		
Asian	3	17.6%
Black	3	17.6%
White	11	64.7%
Marital status		
Married	7	41.2%
Has partner	3	17.6%
Single	4	23.5%
Divorced or spouse died	3	17.6%
Socioeconomic status (revised SEC)		
Professionals/senior managers	4	23.5%
Ass. Professional/ junior managers	0	0%
Other admin. and clerical workers	6	35.3%
Own account non-professional	1	5.9%
Supervisors, technicians and related workers	1	5.9%
Intermediate workers	2	11.8%
Other workers	2	11.8%
Never worked/other inactive	1	5.9%
Employment status		
Retired before the stroke	5	29.4%
Inactive because of the stroke	10	58.8%
Some p/t or voluntary work	1	5.9%
Students	1	5.9%

Appendix 6.4: Test-retest reliability data.

1. Test-retest reliability of SAQOL and its subdomains

N= 17

SAQOL	Intraclass correlation coefficient	95% Confidence interval
Mean score	.98	.95-.99
Self care	.97	.91-.99
Mobility	.99	.96-.99
Work	.95	.87-.98
Upper extremities	.95	.86-.98
Vision	.86	.62-.95
Language	.95	.86-.98
Thinking	.95	.85-.98
Personality	.84	.55-.94
Mood	.92	.79-.97
Energy	.85	.58-.94
Family roles	.89	.71-.96
Social roles	.96	.88-.98

2. Test-retest reliability of SAQOL-39 and its subdomains

N= 17

SAQOL-39	Intraclass correlation coefficient	95% Confidence interval
Mean score	.98	.95-.99
Physical	.98	.94-.99
Psychosocial	.94	.84-.98
Communication	.94	.82-.98
Energy	.89	.69-.96

3. Test-retest reliability of SAQOL-34 and its subdomains

N= 17

SAQOL-34	Intraclass correlation coefficient	95% Confidence interval
Mean score	.99	.97-.99
Physical	.99	.96-.99
Psychosocial	.93	.81-.98
Communication	.94	.82-.98
Energy	.90	.72-.97

Appendix 6.5: Intercorrelations between SAQOL subdomains and correlations between subdomains and corrected¹ total mean

	Self Care	Mobility	Work	Upper Ex.	Vision	Language	Thinking	Person.	Mood	Energy	Family Roles	Social Roles	Corrected mean
Self Care	1.000	.775*	.788	.841	.290	.381	.242	.203	.299	.171	.442	.446	.725
Mobility	1.000	.728	.721	.122	.335	.306	.323	.272	.325	.436	.486	.486	.732
Work	1.000	.723	.178	.486	.265	.161	.250	.190	.409	.399	.409	.399	.677
Upper Extremities	1.000	.171	.457	.136	.092	.232	.141	.141	.555	.448	.448	.448	.664
Vision	1.000	.009	.172	.217	.110	.259	.143	.143	.107	.107	.258	.258	
Language	1.000	.139	.097	.146	.063	.281	.281	.281	.265	.265	.415	.415	
Thinking	1.000	.339	.416	.380	.216	.216	.216	.216	.212	.212	.410	.410	
Personality	1.000	.548	.385	.446	.318	.318	.318	.318	.456	.456			
Mood	1.000	.286	.542	.463	.463	.463	.463	.463	.541	.541			
Energy			1.000	.228	.239	.239	.239	.239	.387	.387			
Family Roles				1.000	.505	.633	.633	.633					
Social Roles					1.000	.584	.584	.584					
Corrected mean						1.000							

*: Correlations > .4 are in bold

¹ For each subdomain's correlation with the mean, the mean is corrected, i.e., it is the mean less the subdomain

**Appendix 6.6: Factor analysis of SAQOL (all items): top-down approach.
Principal Components analysis of each of the SAQOL subdomains**

SELF-CARE

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.776
Bartlett's Test of Sphericity	Approx. Chi-Square df	113.242 10
	Sig.	.000

Communalities

	Initial	Extraction
SC1	1.000	.567
SC2	1.000	.396
SC4	1.000	.702
SC5	1.000	.623
SC8	1.000	.393

Extraction Method: Principal Component Analysis.

Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	2.681	53.614	53.614	2.681	53.614	53.614
2	.844	16.871	70.486			
3	.662	13.249	83.735			
4	.475	9.504	93.239			
5	.338	6.761	100.000			

Extraction Method: Principal Component Analysis.

Component Matrix^a

	Component
	1
SC1	.753
SC2	.629
SC4	.838
SC5	.789
SC8	.627

Extraction Method: Principal Component Analysis.

a. 1 components extracted.

MOBILITY

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.870
Bartlett's Test of Sphericity	Approx. Chi-Square df Sig.	290.952 15 .000

Communalities

	Initial	Extraction
M1	1.000	.761
M4	1.000	.609
M6	1.000	.698
M7	1.000	.732
M8	1.000	.483
M9	1.000	.724

Extraction Method: Principal Component Analysis.

Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	4.006	66.769	66.769	4.006	66.769	66.769
2	.620	10.326	77.094			
3	.561	9.348	86.443			
4	.355	5.915	92.358			
5	.265	4.414	96.772			
6	.194	3.228	100.000			

Extraction Method: Principal Component Analysis.

	Compon
	nt
M1	
M4	.780
M6	.835
M7	.855
M8	.695
M9	.851

a.

WORK

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.556
Bartlett's Test of Sphericity	Approx. Chi-Square df Sig.	30.741 3 .000

Communalities

	Initial	Extraction
W1	1.000	.631
W2	1.000	.719
W3	1.000	.313

Extraction Method: Principal Component Analysis.

Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	1.662	55.412	55.412	1.662	55.412	55.412
2	.862	28.737	84.149			
3	.476	15.851	100.000			

Extraction Method: Principal Component Analysis.

Component Matrix^a

	Componen
	nt
	1
W1	.794
W2	.848
W3	.559

Extraction Method: Principal Component Analysis.

- a. 1 components extracted.

UPPER EXTREMITIES

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.786
Bartlett's Test of Sphericity	Approx. Chi-Square df Sig.	149.006 10 .000

Communalities

	Initial	Extraction
UE1	1.000	.564
UE2	1.000	.594
UE4	1.000	.659
UE5	1.000	.579
UE6	1.000	.624

Extraction Method: Principal Component Analysis.

Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	3.020	60.395	60.395	3.020	60.395	60.395
2	.667	13.334	73.729			
3	.524	10.486	84.215			
4	.496	9.926	94.141			
5	.293	5.859	100.000			

Extraction Method: Principal Component Analysis.

Component Matrix

	Component
	1
UE1	.751
UE2	.771
UE4	.812
UE5	.761
UE6	.790

Extraction Method: Principal Component Analysis.

- a. 1 components extracted.

VISION

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.580
Bartlett's Test of Sphericity	Approx. Chi-Square df Sig.	52.235 3 .000

Communalities

	Initial	Extraction
V1	1.000	.707
V2	1.000	.377
V3	1.000	.773

Extraction Method: Principal Component Analysis.

Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	1.857	61.895	61.895	1.857	61.895	61.895
2	.791	26.378	88.273			
3	.352	11.727	100.000			

Extraction Method: Principal Component Analysis.

Component Matrix^a

	Componen
	nt
	1
V1	.841
V2	.614
V3	.879

Extraction Method: Principal Component Analysis.

- a. 1 components extracted.

LANGUAGE

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.810
Bartlett's Test of Sphericity	Approx. Chi-Square df df Sig.	202.099 15 .000

Communalities

	Initial	Extraction
L2	1.000	.720
L3	1.000	.740
L5	1.000	.664
L6	1.000	.335
L7	1.000	.718
L4	1.000	9.652E-02

Extraction Method: Principal Component Analysis.

Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	3.274	54.573	54.573	3.274	54.573	54.573
2	.954	15.907	70.480			
3	.783	13.058	83.538			
4	.424	7.075	90.613			
5	.348	5.799	96.411			
6	.215	3.589	100.000			

Extraction Method: Principal Component Analysis.

Component Matrix*

	Compone
	nt
	1
L2	.849
L3	.860
L5	.815
L6	.578
L7	.848
L4	.311

Extraction Method: Principal Component Analysis.

a. 1 components extracted.

THINKING

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.632
Bartlett's Test of Sphericity	Approx. Chi-Square df Sig.	81.299 6 .000

Communalities

	Initial	Extraction
T2	1.000	.516
T3	1.000	.733
T4	1.000	.393
T5	1.000	.554

Extraction Method: Principal Component Analysis.

Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	2.196	54.901	54.901	2.196	54.901	54.901
2	.973	24.320	79.221			
3	.492	12.294	91.515			
4	.339	8.485	100.000			

Extraction Method: Principal Component Analysis.

Component Matrix^a

	Component
	1
T2	.719
T3	.856
T4	.627
T5	.744

Extraction Method: Principal Component Analysis.

- a. 1 components extracted.

PERSONALITY

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.553
Bartlett's Test of Sphericity	Approx. Chi-Square df Sig.	38.507 3 .000

Communalities

	Initial	Extraction
P1	1.000	.750
P2	1.000	.653
P3	1.000	.325

Extraction Method: Principal Component Analysis.

Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	1.729	57.623	57.623	1.729	57.623	57.623
2	.851	28.355	85.978			
3	.421	14.022	100.000			

Extraction Method: Principal Component Analysis.

Component Matrix^a

	Componen
	t
1	
P1	.866
P2	.808
P3	.570

Extraction Method: Principal Component Analysis.

- a. 1 components extracted.

MOOD

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.743
Bartlett's Test of Sphericity	Approx. Chi-Square	76.874
	df	10
	Sig.	.000

Communalities

	Initial	Extraction
MD2	1.000	.377
MD3	1.000	.498
MD6	1.000	.674
MD7	1.000	.484
MD8	1.000	.346

Extraction Method: Principal Component Analysis.

Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	2.379	47.579	47.579	2.379	47.579	47.579
2	.835	16.704	64.283			
3	.769	15.390	79.672			
4	.606	12.119	91.791			
5	.410	8.209	100.000			

Extraction Method: Principal Component Analysis.

Component Matrix^a

	Compone nt
	1
MD2	.614
MD3	.706
MD6	.821
MD7	.695
MD8	.588

Extraction Method: Principal Component Analysis.

- a. 1 components extracted.

ENERGY

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.690
Bartlett's Test of Sphericity	Approx. Chi-Square	77.113
	df	3
	Sig.	.000

Communalities

	Initial	Extraction
E2	1.000	.761
E3	1.000	.743
E4	1.000	.630

Extraction Method: Principal Component Analysis.

Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	2.133	71.106	71.106	2.133	71.106	71.106
2	.527	17.555	88.661			
3	.340	11.339	100.000			

Extraction Method: Principal Component Analysis.

*

Component Matrix^a

	Component
	1
E2	.872
E3	.862
E4	.793

Extraction Method: Principal Component Analysis.

a. 1 components extracted.

FAMILY ROLES

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.	.687
Bartlett's Test of Sphericity	60.179
df	6
Sig.	.000

Communalities

	Initial	Extraction
FR5	1.000	.560
FR7	1.000	.663
FR8	1.000	.608
FR9	1.000	.285

Extraction Method: Principal Component Analysis.

Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	2.116	52.903	52.903	2.116	52.903	52.903
2	.881	22.027	74.929			
3	.564	14.090	89.019			
4	.439	10.981	100.000			

Extraction Method: Principal Component Analysis.

Component Matrix^a

	Component
	1
FR5	.748
FR7	.814
FR8	.780
FR9	.534

Extraction Method: Principal Component Analysis.

a. 1 components extracted.

SOCIAL ROLES

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.733
Bartlett's Test of Sphericity	Approx. Chi-Square	100.161
	df	15
	Sig.	.000

Communalities

	Initial	Extraction
SR1	1.000	.654
SR4	1.000	.678
SR5	1.000	.425
SR6	1.000	.158
SR7	1.000	.435
SR8	1.000	.195

Extraction Method: Principal Component Analysis.

Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	2.546	42.429	42.429	2.546	42.429	42.429
2	.974	16.238	58.667			
3	.916	15.266	73.933			
4	.748	12.468	86.400			
5	.428	7.137	93.537			
6	.388	6.463	100.000			

Extraction Method: Principal Component Analysis.

Component Matrix^a

	Compone
	nt
	1
SR1	.809
SR4	.823
SR5	.652
SR6	.398
SR7	.659
SR8	.442

Extraction Method: Principal Component Analysis.

a. 1 components extracted.

**Appendix 6.7: Factor analysis of SAQOL (all items): top-down approach.
Principal Axis Factoring of each of the SAQOL subdomains**

SELF-CARE

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.776
Bartlett's Test of Sphericity	Approx. Chi-Square	113.242
	df	10
	Sig.	.000

Communalities

	Initial	Extraction
SC1	.367	.444
SC2	.233	.250
SC4	.511	.680
SC5	.473	.540
SC8	.233	.251

Extraction Method: Principal Axis Factoring.

Total Variance Explained

Factor	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	2.681	53.614	53.614	2.165	43.304	43.304
2	.844	16.871	70.486			
3	.662	13.249	83.735			
4	.475	9.504	93.239			
5	.338	6.761	100.000			

Extraction Method: Principal Axis Factoring.

Factor Matrix^a

	Factor
	1
SC1	.666
SC2	.500
SC4	.825
SC5	.735
SC8	.501

Extraction Method: Principal Axis Factoring.

- a. 1 factors extracted. 8 iterations required.

MOBILITY

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.870
Bartlett's Test of Sphericity	Approx. Chi-Square df Sig.	290.952 15 .000

Communalities

	Initial	Extraction
M1	.714	.734
M4	.528	.520
M6	.589	.638
M7	.673	.688
M8	.371	.381
M9	.631	.670

Extraction Method: Principal Axis Factoring.

Total Variance Explained

Factor	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	4.006	66.769	66.769	3.632	60.530	60.530
2	.620	10.326	77.094			
3	.561	9.348	86.443			
4	.355	5.915	92.358			
5	.265	4.414	96.772			
6	.194	3.228	100.000			

Extraction Method: Principal Axis Factoring.

Factor Matrix^a

	Factor
	1
M1	.857
M4	.721
M6	.798
M7	.830
M8	.617
M9	.819

Extraction Method: Principal Axis Factoring.

a. 1 factors extracted. 4 iterations required.

WORK

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.556
Bartlett's Test of Sphericity	Approx. Chi-Square df Sig.	30.741 3 .000

Communalities

	Initial	Extraction
W1	.261	.331
W2	.299	.776
W3	7.912E-02	9.599E-02

Extraction Method: Principal Axis Factoring.

Total Variance Explained

Factor	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	1.662	55.412	55.412	1.204	40.125	40.125
2	.862	28.737	84.149			
3	.476	15.851	100.000			

Extraction Method: Principal Axis Factoring.

Factor Matrix^a

	Factor
	1
W1	.576
W2	.881
W3	.310

Extraction Method: Principal Axis Factoring.

- a. Attempted to extract 1 factors. More than 25 iterations required. (Convergence=4.094E-03). Extraction was terminated.

UPPER EXTREMITIES

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.786
Bartlett's Test of Sphericity	Approx. Chi-Square df Sig.	149.006 10 .000

Communalities

	Initial	Extraction
UE1	.443	.452
UE2	.398	.489
UE4	.499	.585
UE5	.467	.473
UE6	.456	.530

Extraction Method: Principal Axis Factoring.

Total Variance Explained

Factor	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	3.020	60.395	60.395	2.529	50.578	50.578
2	.667	13.334	73.729			
3	.524	10.486	84.215			
4	.496	9.926	94.141			
5	.293	5.859	100.000			

Extraction Method: Principal Axis Factoring.

Factor Matrix^a

	Factor
	1
UE1	.673
UE2	.699
UE4	.765
UE5	.688
UE6	.728

Extraction Method: Principal Axis Factoring.

- a. 1 factors extracted. 5 iterations required.

VISION

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.580
Bartlett's Test of Sphericity	Approx. Chi-Square df Sig.	52.235 3 .000

Communalities

	Initial	Extraction
V1	.410	.480
V2	.126	.143
V3	.446	.849

Extraction Method: Principal Axis Factoring.

Total Variance Explained

Factor	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	1.857	61.895	61.895	1.472	49.057	49.057
2	.791	26.378	88.273			
3	.352	11.727	100.000			

Extraction Method: Principal Axis Factoring.

Factor Matrix^a

	Factor
	1
V1	.693
V2	.378
V3	.921

Extraction Method: Principal Axis Factoring.

- a. Attempted to extract 1 factors. More than 25 iterations required. (Convergence=2.294E-03). Extraction was terminated.

LANGUAGE

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.810
Bartlett's Test of Sphericity	Approx. Chi-Square	202.099
	df	15
	Sig.	.000

Communalities

	Initial	Extraction
L2	.631	.671
L3	.669	.705
L5	.499	.572
L6	.264	.220
L7	.570	.651
L4	8.468E-02	5.518E-02

Extraction Method: Principal Axis Factoring.

Total Variance Explained

Factor	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	3.274	54.573	54.573	2.874	47.905	47.905
2	.954	15.907	70.480			
3	.783	13.058	83.538			
4	.424	7.075	90.613			
5	.348	5.799	96.411			
6	.215	3.589	100.000			

Extraction Method: Principal Axis Factoring.

Factor Matrix^a

	Factor
	1
L2	.819
L3	.840
L5	.757
L6	.469
L7	.807
L4	.235

Extraction Method: Principal Axis Factoring.

a. 1 factors extracted. 5 iterations required.

THINKING

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.	.632
Bartlett's Test of Sphericity	81.299
df	6
Sig.	.000

Communalities

	Initial	Extraction
T2	.327	.318
T3	.497	.784
T4	.336	.240
T5	.326	.353

Extraction Method: Principal Axis Factoring.

Total Variance Explained

Factor	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	2.196	54.901	54.901	1.694	42.345	42.345
2	.973	24.320	79.221			
3	.492	12.294	91.515			
4	.339	8.485	100.000			

Extraction Method: Principal Axis Factoring.

Factor Matrix^a

	Factor
	1
T2	.564
T3	.885
T4	.490
T5	.594

Extraction Method: Principal Axis Factoring.

- a. 1 factors extracted. 17 iterations required.

PERSONALITY

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.553
Bartlett's Test of Sphericity	Approx. Chi-Square	38.507
df		3
Sig.		.000

Communalities

	Initial	Extraction
P1	.361	.875
P2	.315	.356
P3	9.689E-02	.105

Extraction Method: Principal Axis Factoring.

Total Variance Explained

Factor	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	1.729	57.623	57.623	1.336	44.535	44.535
2	.851	28.355	85.978			
3	.421	14.022	100.000			

Extraction Method: Principal Axis Factoring.

Factor Matrix^a

	Factor
	1
P1	.936
P2	.596
P3	.324

Extraction Method: Principal Axis Factoring.

- a. Attempted to extract 1 factors. More than 25 iterations required. (Convergence=4.886E-03). Extraction was terminated.

MOOD**KMO and Bartlett's Test**

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.743
Bartlett's Test of Sphericity	Approx. Chi-Square	76.874
	df	10
	Sig.	.000

Communalities

	Initial	Extraction
MD2	.188	.228
MD3	.275	.344
MD6	.433	.672
MD7	.303	.346
MD8	.163	.206

Extraction Method: Principal Axis Factoring.

Total Variance Explained

Factor	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	2.379	47.579	47.579	1.796	35.924	35.924
2	.835	16.704	64.283			
3	.769	15.390	79.672			
4	.606	12.119	91.791			
5	.410	8.209	100.000			

Extraction Method: Principal Axis Factoring.

Factor Matrix^a

	Factor
	1
MD2	.478
MD3	.586
MD6	.820
MD7	.589
MD8	.453

Extraction Method: Principal Axis Factoring.

a. 1 factors extracted. 11 iterations required.

ENERGY**KMO and Bartlett's Test**

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.690
Bartlett's Test of Sphericity	Approx. Chi-Square	77.113
	df	3
	Sig.	.000

Communalities

	Initial	Extraction
E2	.486	.686
E3	.469	.631
E4	.325	.408

Extraction Method: Principal Axis Factoring.

Total Variance Explained

Factor	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	2.133	71.106	71.106	1.726	57.538	57.538
2	.527	17.555	88.661			
3	.340	11.339	100.000			

Extraction Method: Principal Axis Factoring.

Factor Matrix^a

	Factor
	1
E2	.829
E3	.795
E4	.639

Extraction Method: Principal Axis Factoring.

a. 1 factors extracted. 10 iterations required.

FAMILY ROLES

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.687
Bartlett's Test of Sphericity	Approx. Chi-Square df Sig.	60.179 6 .000

Communalities

	Initial	Extraction
FR5	.280	.385
FR7	.364	.562
FR8	.348	.474
FR9	.140	.139

Extraction Method: Principal Axis Factoring.

Total Variance Explained

Factor	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	2.116	52.903	52.903	1.560	39.003	39.003
2	.881	22.027	74.929			
3	.564	14.090	89.019			
4	.439	10.981	100.000			

Extraction Method: Principal Axis Factoring.

Factor Matrix^a

	Factor
	1
FR5	.621
FR7	.750
FR8	.688
FR9	.372

Extraction Method: Principal Axis Factoring.

a. 1 factors extracted. 9 iterations required.

SOCIAL ROLES

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.733
Bartlett's Test of Sphericity	Approx. Chi-Square df Sig.	100.161 15 .000

Communalities

	Initial	Extraction
SR1	.431	.584
SR4	.465	.639
SR5	.313	.287
SR6	8.340E-02	8.006E-02
SR7	.321	.303
SR8	.103	.105

Extraction Method: Principal Axis Factoring.

Total Variance Explained

Factor	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	2.546	42.429	42.429	1.998	33.302	33.302
2	.974	16.238	58.667			
3	.916	15.266	73.933			
4	.748	12.468	86.400			
5	.428	7.137	93.537			
6	.388	6.463	100.000			

Extraction Method: Principal Axis Factoring.

Factor Matrix^a

	Factor
	1
SR1	.764
SR4	.800
SR5	.536
SR6	.283
SR7	.550
SR8	.325

Extraction Method: Principal Axis Factoring.

- a. 1 factors extracted. 8 iterations required.

**Appendix 6.8: Factor analysis of SAQOL (all items): top-down approach.
Second order Principal Axis Factoring of the subdomain mean scores**

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.785
Bartlett's Test of Sphericity	Approx. Chi-Square	493.838
	df	66
	Sig.	.000

Communalities

	Initial	Extraction
SC	.835	.839
M	.734	.709
W	.708	.742
UE	.820	.860
V	.233	.131
L	.353	.258
T	.301	.328
P	.533	.552
MD	.528	.633
E	.313	.427
FR	.583	.631
SR	.396	.418

Extraction Method: Principal Axis Factoring.

Factor Matrix^a

	Factor		
	1	2	3
SC	.850	-.324	.107
M	.811	-.162	.157
W	.790	-.326	.111
UE	.820	-.417	-.115
V	.251	.114	.235
L	.467	-.185	-7.85E-02
T	.391	.338	.247
P	.440	.599	3.965E-03
MD	.542	.540	-.219
E	.376	.386	.370
FR	.675	.221	-.357
SR	.605	.135	-.185

Extraction Method: Principal Axis Factoring.

a. 3 factors extracted. 10 iterations required.

Rotated Factor Matrix

	Factor		
	1	2	3
SC	.876	.124	.239
M	.748	.175	.345
W	.828	9.249E-02	.218
UE	.907	.192	8.376E-03
V	.134	3.802E-02	.334
L	.485	.150	2.128E-02
T	.113	.235	.510
P	-3.41E-03	.574	.472
MD	.113	.725	.308
E	7.149E-02	.181	.624
FR	.410	.675	8.925E-02
SR	.405	.481	.153

Extraction Method: Principal Axis Factoring.

Rotation Method: Varimax with Kaiser Normalization.

- a. Rotation converged in 7 iterations.

Factor Transformation Matrix

Factor	1	2	3
1	.803	.462	.377
2	-.596	.622	.507
3	.000	-.631	.775

Extraction Method: Principal Axis Factoring.

Rotation Method: Varimax with Kaiser Normalization.

Total Variance Explained

Factor	Initial Eigenvalues			Extraction Sums of Squared Loadings			Rotation Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	4.908	40.899	40.899	4.562	38.016	38.016	3.451	28.760	28.760
2	1.851	15.423	56.322	1.439	11.990	50.006	1.744	14.536	43.296
3	1.105	9.211	65.533	.531	4.422	54.427	1.336	11.131	54.427
4	.874	7.283	72.816						
5	.717	5.972	78.788						
6	.651	5.429	84.217						
7	.554	4.615	88.832						
8	.465	3.873	92.705						
9	.366	3.046	95.752						
10	.247	.205	97.806						
11	.167	1.391	99.197						
12	9.632E-02	.803	100.000						

Extraction Method: Principal Axis Factoring.

**Appendix 6.9: Factor analysis of SAQOL (all items): top-down approach.
Second order Principal Axis Factoring of the subdomain mean scores, following
removal of the rogue items (w3, v2, p3, l4, fr9, sr6, sr8)**

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.825
Bartlett's Test of Sphericity	Approx. Chi-Square	475.948
df		66
Sig.		.000

Communalities

	Initial	Extraction
SC	.811	.832
M	.713	.725
W	.690	.729
UE	.804	.880
V	.219	.100
L	.306	.211
T	.299	.333
P	.400	.475
MD	.487	.489
E	.334	.438
FR	.543	.736
SR	.467	.477

Extraction Method: Principal Axis Factoring.

Factor Matrix^a

	Factor		
	1	2	3
SC	.850	-.319	8.595E-02
M	.825	-.156	.143
W	.805	-.255	.128
UE	.829	-.434	-6.86E-02
V	.228	.209	6.710E-02
L	.391	-.227	8.129E-02
T	.391	.359	.228
P	.403	.555	6.326E-02
MD	.525	.425	-.181
E	.391	.456	.278
FR	.689	.183	-.477
SR	.656	.173	-.128

Extraction Method: Principal Axis Factoring.

- a. Attempted to extract 3 factors. More than 25 iterations required. (Convergence=1.954E-03). Extraction was terminated.

Rotated Factor Matrix^x

	Factor		
	1	2	3
SC	.875	.170	.196
M	.772	.311	.181
W	.810	.218	.158
UE	.892	1.379E-03	.289
V	7.373E-02	.293	9.576E-02
L	.457	3.610E-02	3.217E-02
T	.148	.554	6.643E-02
P	1.210E-02	.635	.268
MD	.134	.476	.495
E	.103	.652	4.975E-02
FR	.344	.226	.752
SR	.394	.365	.434

Extraction Method: Principal Axis Factoring.

Rotation Method: Varimax with Kaiser Normalization.

- a. Rotation converged in 6 iterations.

Factor Transformation Matrix

Factor	1	2	3
1	.792	.442	.421
2	-.576	.770	.275
3	.202	.460	-.864

Extraction Method: Principal Axis Factoring.

Rotation Method: Varimax with Kaiser Normalization.

Total Variance Explained

Factor	Initial Eigenvalues			Extraction Sums of Squared Loadings			Rotation Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	4.927	41.062	41.062	4.592	38.263	38.263	3.351	27.926	27.926
2	1.842	15.349	56.412	1.364	11.365	49.629	1.806	15.047	42.973
3	1.002	8.350	64.762	.470	3.914	53.542	1.268	10.569	53.542
4	.930	7.751	72.513						
5	.789	6.574	79.087						
6	.657	5.478	84.565						
7	.474	3.953	88.518						
8	.436	3.637	92.154						
9	.391	3.258	95.412						
10	.232	1.933	97.345						
11	.203	1.691	99.036						
12	.116	.964	100.000						

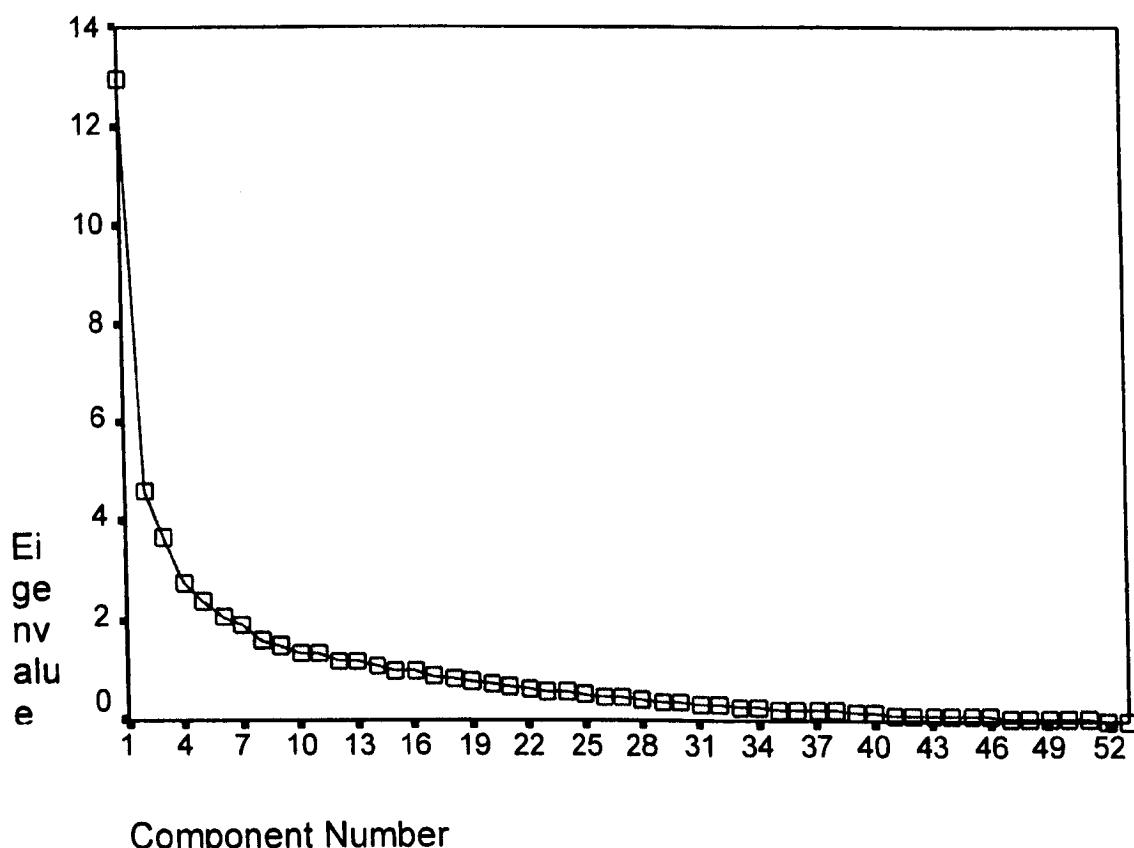
Extraction Method: Principal Axis Factoring.

**Appendix 6.10: Factor analysis of SAQOL (all items): bottom-up approach.
Principal Components Analysis**

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.612
Bartlett's Test of Sphericity	Approx. Chi-Square df	2903.134 1378
	Sig.	.000

Scree Plot



Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	12.982	24.494	24.494	12.982	24.494	24.494
2	4.589	8.659	33.153	4.589	8.659	33.153
3	3.652	6.891	40.044	3.652	6.891	40.044
4	2.752	5.193	45.237	2.752	5.193	45.237
5	2.374	4.479	49.716	2.374	4.479	49.716
6	2.070	3.906	53.621	2.070	3.906	53.621
7	1.902	3.588	57.210	1.902	3.588	57.210
8	1.578	2.977	60.187	1.578	2.977	60.187
9	1.479	2.791	62.978	1.479	2.791	62.978
10	1.361	2.567	65.545	1.361	2.567	65.545
11	1.323	2.496	68.041	1.323	2.496	68.041
12	1.197	2.258	70.299	1.197	2.258	70.299
13	1.189	2.244	72.543	1.189	2.244	72.543
14	1.058	1.996	74.539	1.058	1.996	74.539
15	.998	1.882	76.422			
16	.954	1.799	78.221			
17	.871	1.644	79.865			
18	.835	1.575	81.439			
19	.769	1.451	82.890			
20	.728	1.374	84.263			
21	.688	1.298	85.562			
22	.639	1.205	86.767			
23	.590	1.113	87.879			
24	.574	1.082	88.961			
25	.509	.960	89.921			
26	.484	.913	90.834			
27	.466	.878	91.713			
28	.411	.776	92.488			
29	.383	.723	93.212			
30	.373	.704	93.916			
31	.329	.621	94.537			
32	.305	.575	95.112			
33	.277	.522	95.635			
34	.242	.457	96.091			
35	.228	.429	96.521			
36	.218	.411	96.931			
37	.210	.397	97.328			
38	.180	.340	97.668			
39	.166	.314	97.983			
40	.145	.274	98.256			
41	.125	.235	98.492			
42	.114	.216	98.708			
43	.109	.206	98.914			
44	.103	.194	99.108			
45	8.489E-02	.160	99.268			
46	7.798E-02	.147	99.415			
47	6.983E-02	.132	99.547			
48	6.540E-02	.123	99.671			
49	6.230E-02	.118	99.788			
50	3.904E-02	7.366E-02	99.862			
51	3.156E-02	5.954E-02	99.921			
52	2.549E-02	4.810E-02	99.969			

Component Matrix

Component	1	2	3	4	5	6	7	8	9	10	11	12	13	14
UE2	.699	-.278	-.101	-2.672E-02	-.130	.110	-7.534E-02	-8.167E-02	8.419E-03	-.250	.278	.126	-9.339E-02	.107
UE4	.533	-.395	-.270	-.223	.200	6.352E-02	-9.187E-02	-8.325E-02	-.243	-.170	.146	.180	2.046E-02	-5.636E-03
UE5	.607	-.377	-1.152E-02	-.195	.141	.249	4.063E-03	-3.281E-02	-2.170E-02	.02	-.102	.112	-.230	-.177
UE6	.693	-.276	-2.269E-02	-5.326E-02	-8.922E-02	-1.390E-02	-.211	8.182E-02	-.182	-2.500E-03	-.214	.115	.151	-.151
V1	.298	.203	-.218	.224	.591	.155	-.273	.111	.181	5.209E-02	-9.851E-02	-.1881E-02	-.126	.171
V2	.160	9.440E-02	-.250	.108	.462	.396	.136	-.131	-5.445E-02	-.2.606E-02	.02	.233	2.035E-02	.278
V3	.121	.234	-.284	.159	.679	9.400E-02	8.833E-03	-.155	.233	.213	-.143	5.499E-03	-.150	8.163E-02
L2	.449	-.378	.533	.105	.109	1.369E-02	4.513E-02	.232	5.103E-02	8.312E-02	.172	7.142E-02	4.179E-02	-.140
L3	.466	-.410	.487	.175	.164	6.317E-02	-8.294E-02	.191	.105	7.442E-02	-2.447E-02	.153	-.112	-5.726E-02
L5	.340	-.262	.675	.148	1.243E-02	-9.855E-02	8.581E-02	.169	-1.399E-02	6.122E-02	.169	-.147	-5.968E-02	2.848E-02
L6	.207	9.985E-03	.536	.195	-.241	.201	8.607E-02	.150	.125	2.331E-02	6.142E-02	.248	.293	.331
L7	.518	-.441	.380	.182	.151	.113	.150	.145	.167	-.121	-5.820E-02	.145	-3.372E-02	2.698E-02
L4	.222	-7.059E-02	1.127E-02	.140	.308	-5.021E-03	.409	.176	-.238	.555	-.103	.131	-6.212E-02	.212
T2	.352	.327	.132	7.717E-02	-.196	.592	5.083E-02	2.239E-02	-.131	8.089E-02	-.173	7.154E-02	-.259E-02	.101
T3	.312	.507	.101	.403	4.856E-02	-.181	5.885E-02	-.253	-4.557E-02	-.296	-.278	-8.937E-02	-2.516E-02	-1.561E-03
T4	.184	.216	.175	.582	-.108	-9.812E-02	.135	-.349	-9.359E-02	-.136	-.205	-1.742E-02	-6.219E-02	-7.966E-02
T5	.288	.329	.354	-3.444E-02	-8.832E-02	.451	.176	-5.793E-02	-.337	-.217	-6.389E-02	-.215	-.224	8.542E-02
P1	.435	.586	6.977E-02	8.519E-03	8.567E-02	5.528E-02	-6.153E-03	.180	.357	-.132	4.660E-02	.112	-.140	-.133

Component	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
P2	.257	.471	-7.866E-02	.130	-5.786E-02	-9.574E-02	-5.728E-02	.397	.356	-.306	.151	.152	-.236	6.562E-03	
P3	.287	.398	.175	-.148	-.172	-8.156E-02	-.130	-.208	.172	.438	.170	-9.276E-02	.174	-.119	
MD2	.421	.297	.269	-1.701E-02	9.032E-02	-8.979E-02	-.296	-.333	-1.206E-02	.119	.307	.228	.165	-1.262E-02	
MD3	.419	.398	.126	-.152	-.171	.106	-.258	5.429E-02	7.978E-02	.103	-5.869E-02	-.321	7.427E-02	.173	
MD6	.396	.530	.353	-.326	5.889E-03	6.693E-02	3.385E-02	9.528E-02	-6.999E-02	.100	-7.983E-02	-1.021E-02	1.157E-02	-.154	
MD7	.403	.323	.330	-.327	-.164	.110	.102	-.165	1.030E-02	3.701E-02	1.862E-02	8.762E-02	.02	-.133	9.798E-02
MD8	6.911E-02	.546	2.983E-02	-.270	7.484E-02	.221	2.753E-02	.257	.109	4.116E-02	4.634E-02	1.085E-02	.468	-6.854E-02	.02
E2	.365	.455	-.161	.369	-8.462E-02	-6.847E-02	-1.762E-02	.171	-.387	3.117E-02	8.377E-02	.241	.176	7.771E-02	.02
E3	.288	.427	-.134	.460	1.182E-02	-.280	.115	.218	-.261	9.859E-03	6.753E-02	.236	.113	-1.731E-02	.02
E4	.373	.333	-.215	.368	3.357E-02	-.184	5.627E-02	.217	-.107	8.326E-02	.295	-.224	-.204	-.118	.02
FR5	.521	.227	-.153	-.452	8.795E-02	-.150	-9.877E-02	7.019E-02	-.146	.179	3.928E-02	2.615E-02	-.179	9.642E-02	.02
FR7	.561	.290	.162	-.143	-3.301E-02	-8.199E-02	-.384	-.141	-2.270E-02	-1.083E-02	.111	.160	-.178	.242	
FR8	.626	.102	-.139	-.236	-8.109E-02	-.231	.318	8.665E-02	1.190E-02	6.960E-02	-.282	.130	-3.920E-02	6.329E-03	.02
FR9	.410	-1.799E-02	.479	-5.972E-02	.306	-.197	-.244	-.215	-.116	-9.089E-02	5.258E-02	5.253E-02	-2.969E-02	-.164	.02
SR1	.544	.232	-5.159E-02	-.338	.239	-.235	.292	-.235	-7.208E-02	4.928E-02	9.774E-02	-4.104E-02	7.705E-02	.02	.02
SR4	.509	.312	-3.521E-02	-.147	.181	-.287	.258	-4.700E-02	-.118	.02	-.296	-6.029E-02	6.689E-02	1.848E-02	.02
SR5	.226	.154	.128	-.319	3.386E-02	-.135	.613	-.201	.299	4.916E-02	6.595E-02	-2.232E-02	-6.303E-02	.145	.02

Component	1	2	3	4	5	6	7	8	9	10	11	12	13	14
SR6	8.485E-02	-.118	.141	-.413	.157	-.271	.385	.110	-.6.074E-02	-.214	-.104	-1.459E-02	.180	.153
SR7	.685	.100	-.208	-9.649E-02	-9.351E-02	-.397	-9.350E-02	1.628E-02	-9.488E-02	5.189E-02	-.143	4.023E-03	-8.416E-02	1.440E-02
SR8	.361	1.713E-02	.569	7.117E-02	.146	-.356	7.362E-02	-.169	-3.550E-02	6.658E-02	-6.085E-02	-8.784E-02	4.276E-02	-.195

Extraction Method: Principal Component Analysis.
a 14 components extracted.

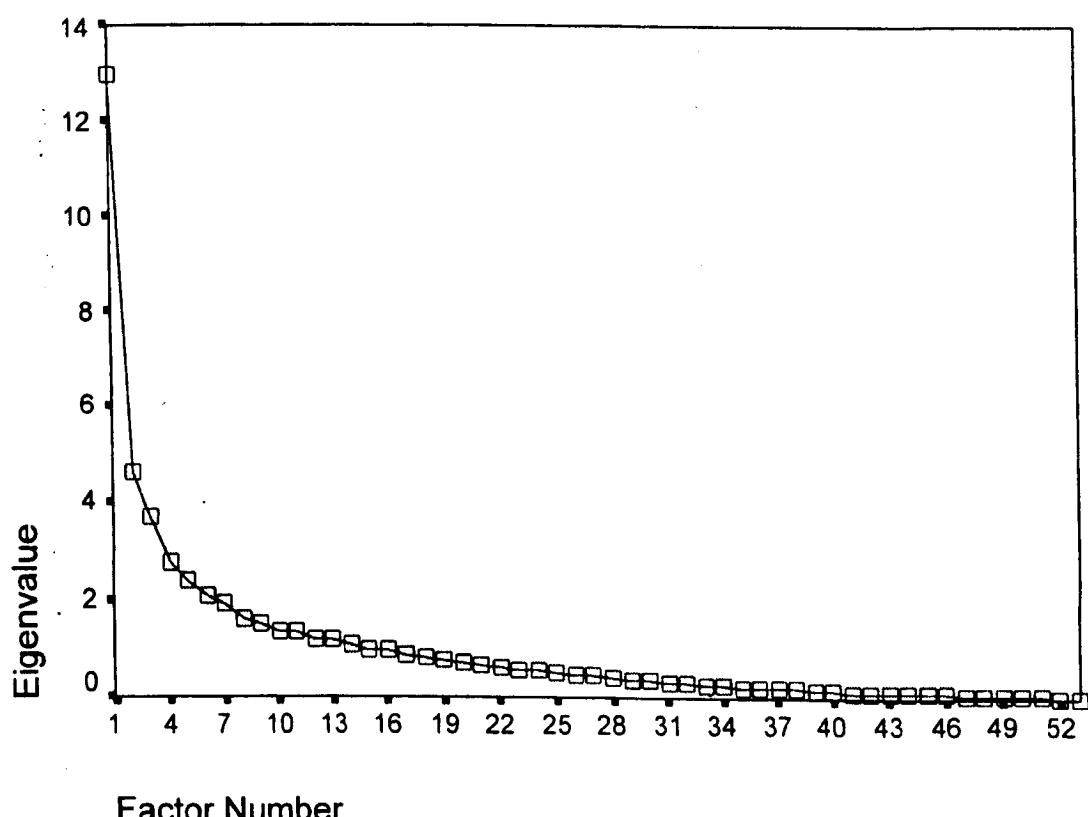
**Appendix 6.11: Factor analysis of SAQOL (all items): bottom-up approach.
Principal Axis factoring**

Factor Analysis

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.612
Bartlett's Test of Sphericity	Approx. Chi-Square	2903.134
df		1378
Sig.		.000

Scree Plot



Total Variance Explained

Factor	Initial Eigenvalues			Extraction Sums of Squared Loadings			Rotation Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	12.982	24.494	24.494	12.676	23.917	23.917	8.806	16.615	16.615
2	4.589	8.659	33.153	4.258	8.034	31.951	4.120	7.773	24.381
3	3.652	6.891	40.044	3.317	6.259	38.209	3.338	6.299	30.681
4	2.752	5.193	45.237	2.365	4.462	42.671	2.319	4.376	35.061
5	2.374	4.479	49.716	2.042	3.853	46.524	2.165	4.085	39.141
6	2.070	3.906	53.621	1.720	3.246	49.770	2.078	3.921	43.061
7	1.902	3.588	57.210	1.511	2.851	52.622	2.029	3.827	46.891
8	1.578	2.977	60.187	1.226	2.313	54.935	1.807	3.409	50.301
9	1.479	2.791	62.978	1.155	2.179	57.114	1.787	3.372	53.671
10	1.361	2.567	65.545	1.008	1.902	59.016	1.428	2.694	56.371
11	1.323	2.496	68.041	.975	1.840	60.856	1.345	2.537	58.901
12	1.197	2.258	70.299	.877	1.655	62.511	1.201	2.266	61.171
13	1.189	2.244	72.543	.807	1.522	64.033	1.148	2.167	63.341
14	1.058	1.996	74.539	.692	1.307	65.340	1.059	1.997	65.340
15	.998	1.882	76.422						
16	.954	1.799	78.221						
17	.871	1.644	79.865						
18	.835	1.575	81.439						
19	.769	1.451	82.890						
20	.728	1.374	84.263						
21	.688	1.298	85.562						
22	.639	1.205	86.767						
23	.590	1.113	87.879						
24	.574	1.082	88.961						
25	.509	.960	89.921						
26	.484	.913	90.834						
27	.466	.878	91.713						
28	.411	.776	92.488						
29	.383	.723	93.212						
30	.373	.704	93.916						
31	.329	.621	94.537						
32	.305	.575	95.112						
33	.277	.522	95.635						
34	.242	.457	96.091						
35	.228	.429	96.521						
36	.218	.411	96.931						
37	.210	.397	97.328						
38	.180	.340	97.668						
39	.166	.314	97.983						
40	.145	.274	98.256						
41	.125	.235	98.492						
42	.114	.216	98.708						
43	.109	.206	98.914						
44	.103	.194	99.108						
45	8.489E-02	.160	99.268						
46	7.798E-02	.147	99.415						
47	6.983E-02	.132	99.547						
48	6.540E-02	.123	99.671						

Factor	Initial Eigenvalues			Extraction Sums of Squared Loadings			Rotation Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
49	6.230E-02	.118	99.788						
50	3.904E-02	7.366E-02	99.862						
51	3.156E-02	5.954E-02	99.921						
52	2.549E-02	4.810E-02	99.969						
53	1.621E-02	3.059E-02	100.000						

Extraction Method: Principal Axis Factoring.

Rotated Factor Matrix

	Factor	1	2	3	4	5	6	7	8	9	10	11	12	13	14
SC1	.616	.2499.710E-02	-6.063E-02	.165	.1907.852E-02	7.679E-02	-8.863E-03	.230	-2.241E-02	.167	.104	.104	.104	.251	
SC2	.321	.212	.1165.186E-02	3.984E-02	6.360E-02	.240	-1.049E-02	-7.300E-02	.6042.633E-02	1.332E-02	9.973E-02	-3.459E-02	.02		
SC4	.677	.1155.506E-02	-6.363E-02	.1141.857E-02	-2.130E-02	-1.776E-02	-5.475E-02	8.222E-02	.498	.145	.110	.110	.107		
SC5	.738	.1115.847E-02	-3.684E-02	.806E-02	-6.893E-03	.150	-5.516E-02	.109	-1.175E-02	.198	-8.701E-02	.166	6.050E-02		
SC8	.374	-.1095.127E-02	.116	-.152	6.885E-02	.169	.166	.1212.451E-02	.126	.334	.334	.264	2.471E-02		
M1	.823	-5.329E-02	6.295E-02	.102	-7.181E-02	.1315.474E-03	.1859.201E-02	-2.209E-02	-5.337E-02	-8.620E-02	-9.942E-02	.187	.187		
M4	.567	.146	.289	.1481.591E-02	-2.252E-02	-7.241E-02	-1.969E-02	.331	.151	.144	.282	.282	-.124	.122	
M6	.797	9.560E-02	.138	.2326.252E-02	-2.572E-02	-5.926E-02	-8.214E-02	-6.732E-02	-1.855E-02	-.162	-2.466E-02	8.622E-02	7.155E-03		
M7	.804	7.960E-02	3.213E-02	7.020E-02	5.756E-03	.1967.615E-02	.2329.173E-02	-4.828E-02	.02	-1242.467E-02	1.964E-02	-6.093E-02	.02		
M8	.556	2.883E-02	-9.539E-02	.2808.511E-02	.1177.500E-03	-9.883E-02	-2.521E-02	.02	-.145	.114	.380	-1.923E-02	1.565E-02		
M9	.665	.116	.1937.907E-02	1.232E-02	-4.882E-02	-4.586E-02	.146	.1258.588E-02	-.101	.437	.437	.204	8.857E-03		
W1	.741	.1817.446E-02	5.414E-02	9.454E-02	.133	-4.433E-02	-2.431E-02	.02	-.159	.1927.032E-02	.2156.855E-02	-.112			
W2	.418	.4119.384E-02	9.528E-02	.277	-1.797E-02	7.212E-02	4.112E-02	5.209E-02	6.944E-02	1.009E-02	.202	.174	-8.472E-02		
W3	.287	.2998.833E-03	-7.702E-02	-.166	-.105	.226	-.199	.3584.288E-02	3.936E-02	8.126E-02	-5.863E-02	.188	.188		
UE1	.505	.283	-1.953E-02	.177	-3.973E-02	.222	.1783.485E-02	4.311E-02	.513	.2505.413E-02	.118	-3.115E-02	.02		
UE2	.645	.2255.460E-02	7.584E-03	6.830E-02	1.687E-02	-5.904E-02	.111	-1.134E-02	3.022E-02	.498	.1185.675E-02	3.572E-02			
UE4	.579	.118	-6.868E-02	2.055E-02	-2.552E-02	.1108.927E-02	-.147	-.183	.146	.419	-.165	.143	-.159		

Factor	1	2	3	4	5	6	7	8	9	10	11	12	13	14
UE5	.613	335	1.799E-02	-.161	.187	6.365E-02	.191	-8.754E-02	-.154	-5.097E-02	.102	-9.485E-02	5.568E-02	-.136
UE6	.673	266	.1255	0.078E-02	6.584E-02	-6.070E-02	-6.185E-02	-.101	1.772E-02	.342	-1.866E-02	-9.656E-02	-5.238E-02	-7.045E-02
V1	.107	4.521E-02	6.009E-02	.1152	3.77E-02	-.132	.702	.214	2.773E-02	.227	7.879E-02	-9.803E-02	9.213E-02	-2.317E-02
V2	.118	-5.251E-02	-1.175E-02	8.987E-02	7.346E-02	6.387E-03	.303	-2.806E-02	1.374E-02	3.819E-02	5.155E-02	3.544E-04	.598	-5.652E-02
V3	-3.905E-03	-9.412E-02	3.666E-02	2.783E-02	-4.055E-02	8.809E-02	.8364	6.620E-02	.1025	4.402E-03	-3.199E-02	3.685E-02	.150	-8.485E-02
L2	.216	.7978	9.50E-02	2.910E-03	-4.824E-03	-3.207E-03	-5.696E-02	-1.013E-02	-9.075E-02	1.948E-02	3.677E-03	7.591E-02	8.690E-02	
L3	.255	.8015	1.139E-03	-1.489E-02	-2.355E-02	-4.025E-02	-9.442E-02	2.418E-02	1.721E-03	-4.505E-02	-4.109E-02	-6.780E-02		-1194.712E-02
L5	1.820E-02	.7697	9.11E-02	7.211E-03	9.982E-02	9.004E-02	-.146	-4.845E-02	9.601E-02	9.169E-02	-8.034E-03	.187	-8.758E-02	9.172E-02
L6	-2.581E-03	.383	.1368	8.288E-02	.174	-8.926E-03	-.1574	9.941E-02	8.632E-02	-4.117E-02	1.950E-02	-3.161E-02	-3.985E-02	.628
L7	.370	.698	-.180	-8.154E-02	8.008E-02	.1039	7.277E-02	6.284E-02	8.788E-02	3.881E-03	7.765E-02	-5.892E-02	2.032E-02	.213
L4	.109	.226	-9.565E-02	.336	.111	.225	.363	-.300	-.168	.105	-.1749	5.591E-02	-4.001E-02	.109
T2	.216	-1.135E-03	.211	.109	.621	-.1218	5.93E-02	6.603E-02	7.362E-02	-8.647E-02	-5.054E-02	-2.738E-02	5.026E-02	.230
T3	5.939E-02	-4.944E-02	.127	.201	.397	2.415E-02	.177	.208	.679	.114	-5.211E-02	-6.018E-02	.1025	3.30E-02
T4	2.765E-02	.1183	6.694E-02	.244	.108	-3.168E-02	1.065E-02	4.041E-02	.636	-.109	-2.039E-02	7.830E-02	-2.774E-02	-1.439E-02
T5	-3.579E-03	.111	.1143	1.151E-02	.843	.113	-7.591E-02	4.332E-03	.635	.110	-5.702E-02	-8.936E-02	5.431E-02	-1.453E-02
P1	.141	5.525E-02	.355	.139	.211	.136	.227	.635	.110	.03	.02	.02	.02	.03
P2	5.835E-02	-1.205E-02	.105	.2514	3.233E-02	1.762E-02	7.743E-02	.7623	3.943E-03	-3.836E-02	9.574E-02	-6.953E-02	3.831E-02	.02

Factor	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
P3	7.637E-02	-8.278E-04	.6383	.581E-02	2.715E-02	5.264E-02	-6.679E-02	3.294E-02	4.355E-02	-2.805E-02	-.112	.1612	.543E-03	.978E-02	
MD2	8.031E-02	.209	.676	.164	-5.568E-02	1.631E-02	7.187E-02	2.905E-03	.141	-2.287E-02	.271	-6.065E-02	.1402	.382E-02	
MD3	.182	-2.138E-02	.0991	.787E-02	.247	-1.940E-02	1.787E-02	.1672	.463E-02	.271	-5.646E-02	.107	.7906E-02	.117	
MD6	4.974E-02	.134	.575	.116	.388	.261	-1.933E-02	.195	-6.510E-02	.001E-02	-.179	-.1124	.830E-02	-3.491E-02	
MD7	.159	.124	.465	-3.678E-02	.357	.255	-9.550E-02	.1202	.334E-02	-.1102	.432E-02	-3.243E-02	-1.883E-02	-1.221E-02	
MD8	-9.158E-02	-.191	.3349	.507E-02	.171	.144	-3.287E-03	.292	-.151	.206	-.183	-.139	.320	.214	
E2	.166	-8.745E-02	.171	.762	.150	-7.314E-02	4.055E-02	9.157E-02	.1247	.327E-02	5.988E-02	-1.635E-02	-3.839E-02	.105	
E3	7.945E-02	6.129E-03	.774	-2.727E-02	.4975	.771E-02	-3.031E-02	.02	.144	.2348	.055E-02	8.940E-02	-1.794E-02	.4023	.784E-02
E4	.162	3.142E-02	8.938E-02	.4975	.771E-02	-3.031E-02	.02	.144	.2348	.055E-02	8.940E-02	-1.794E-02	.4023	.318E-02	-.202
FR5	.372	-8.070E-02	.3636	.140E-02	.315	.178	.2155	.746E-02	-.322	.120	.116	-1.427E-02	-7.341E-02	-.106	
FR7	.238	.131	.560	.111	.1542	.348E-02	.122	.1723	.570E-02	9.196E-02	.358	-4.536E-02	-.252	.1706E-04	
FR8	.557	1.914E-02	.369	.121	-1.820E-02	.5230E-02	.106	.156	-6.112E-02	.184	-.6881E-03	-.218	.328	-.112	
FR9	6.022E-02	.505	.346	-6.776E-03	.288E-02	.1296	.582E-02	2.714E-02	.02	.175	.156	.199	-.184	-.1067E-02	
SR1	.301	1.276E-02	.329	.1515	.457E-02	.633	.189	-1.171E-02	4.258E-03	1.921E-02	.1517	.848E-03	3.142E-02	-.120	
SR4	.247	1.551E-02	.181	.2507	.643E-02	.5234	.505E-02	.174	.165	.2446	.704E-02	-2.463E-02	-5.210E-02	-.116	
SR5	8.106E-02	.154	-.1235	.666E-02	.6793	.307E-02	6.373E-02	.2631E-02	-.177	-5.150E-02	.02	.1951	.653E-02	.131	
SR6	2.483E-02	.109	-7.677E-02	-6.439E-02	-2.781E-02	.493	-.113	-2.979E-02	-.128	.136	-1.582E-02	.02	-3.103E-02	-6.045E-03	

	Factor	1	2	3	4	5	6	7	8	9	10	11	12	13	14
SR7	.577	1.938E-.02	.268	.284	-4.791E-.02	.2066	6.651E-02	8.793E-02	5.636E-02	.179	3.734E-02	1.304E-02	.-316	.-188	
SR8	1.812E-.02	.541	.273	3.582E-02	-2.679E-.02	.281	-7.526E-.02	-7.990E-.02	.335	9.882E-02	-4.851E-.02	-3.458E-.02	-3.736E-.02	.-130	

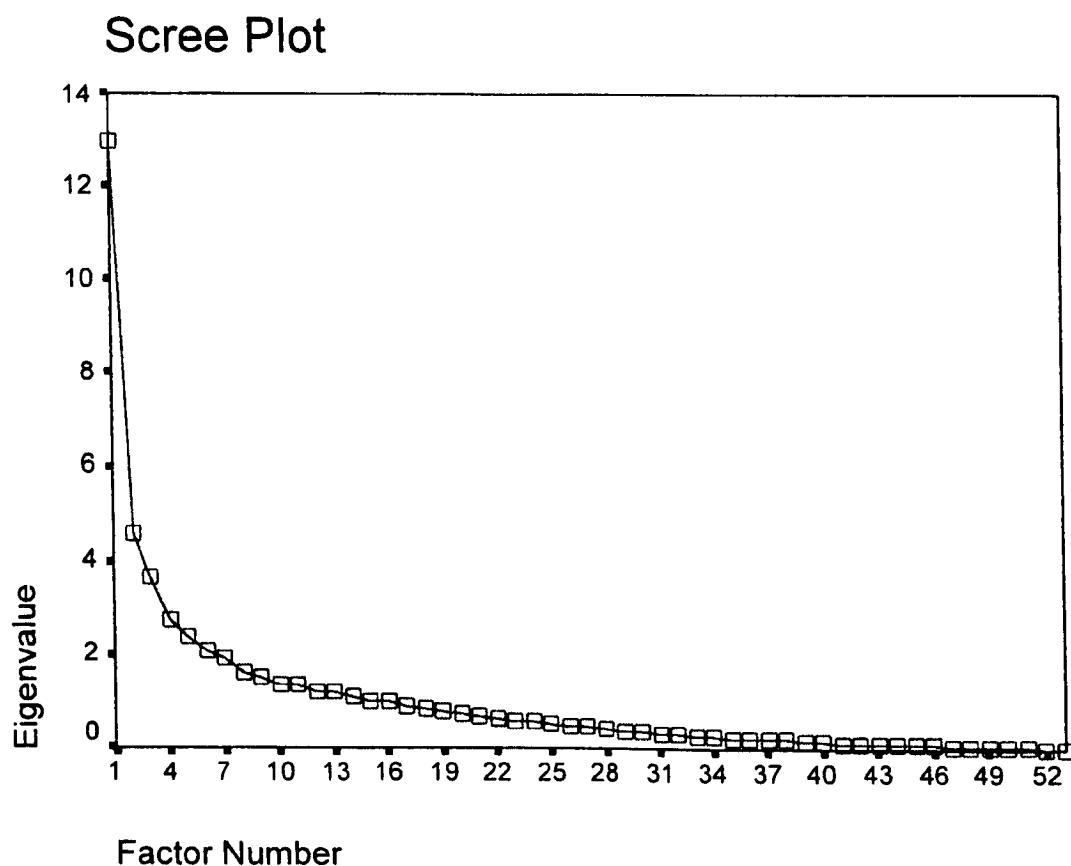
Extraction Method: Principal Axis Factoring. Rotation Method: Varimax with Kaiser Normalization.
a Rotation converged in 14 iterations.

Factor Transformation Matrix

Factor	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	.775	.327	.307	.191	.173	.178	.136	.124	.095	.176	.135	.088	.002	.014
2	-.318	-.393	.502	.374	.305	.134	.144	.405	.187	.018	-.137	.006	.047	-.004
3	-.410	.732	.273	-.147	.254	.086	-.227	-.029	.155	-.012	-.052	-.107	-.087	.170
4	-.052	.211	-.329	.450	-.106	-.435	.180	.034	.558	-.090	-.059	.241	.056	.155
5	-.242	.232	-.093	-.014	-.122	.213	.748	-.053	.082	.249	.108	-.192	.299	-.223
6	.093	-.103	-.152	-.282	.682	-.273	.152	-.045	-.078	-.141	.052	-.018	.454	.281
7	.016	.018	-.355	.122	.098	.740	-.063	-.078	.072	-.314	-.289	.257	.171	.092
8	.017	.212	-.227	.112	-.041	-.132	.036	.574	-.543	.138	-.418	.017	-.070	.216
9	.057	-.040	.180	-.603	-.350	.034	.265	.368	.307	-.315	-.104	.087	-.019	.227
10	.142	-.030	.216	.032	.051	-.142	.284	-.492	-.030	-.122	-.693	-.186	-.232	.016
11	-.109	.111	.385	.176	-.211	-.118	.100	-.440	-.362	.174	.518	.212	.129	
12	.094	.016	.030	.308	-.219	.050	-.071	.035	-.058	-.408	.170	-.709	.191	.317
13	.000	-.108	.152	-.034	-.294	.048	-.227	-.177	.110	.560	-.215	.035	.491	.422
14	-.093	-.147	-.096	.039	.081	.170	.267	-.157	-.061	.187	.296	.064	-.531	.645

Extraction Method: Principal Axis Factoring. Rotation Method: Varimax with Kaiser Normalization.

**Appendix 6.12: Factor analysis of SAQOL (all items): bottom-up approach.
Model requested to extract 12 factors.**

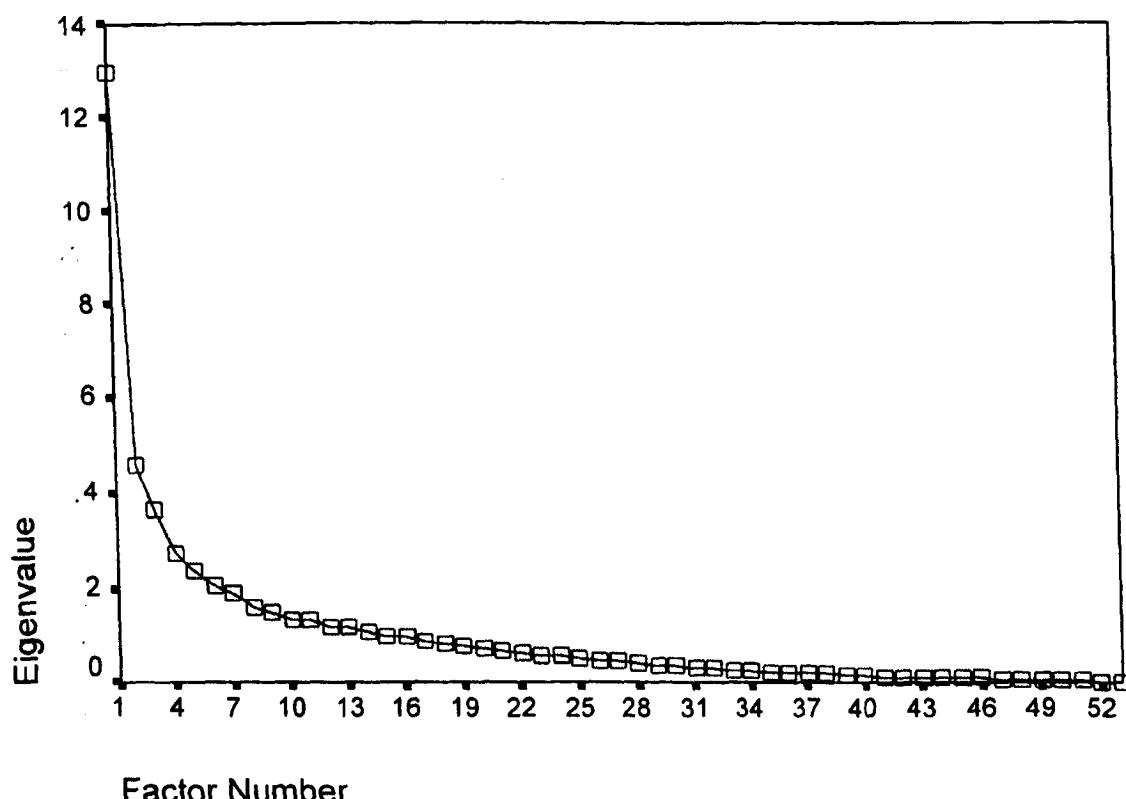


Appendix 6.13: Factor analysis of SAQOL (all items): bottom-up approach
Principal Axis Factoring: 7 factors extracted

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.	.612
Bartlett's Test of Sphericity	Approx. Chi-Square
	df
	Sig.

Scree Plot



Total Variance Explained

	Initial Eigenvalues			Extraction Sums of Squared Loadings			Rotation Sums of Squared Loadings		
Factor	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	12.982	24.494	24.494	12.551	23.681	23.681	9.195	17.349	17.349
2	4.589	8.659	33.153	4.093	7.722	31.403	4.503	8.496	25.844
3	3.652	6.891	40.044	3.194	6.027	37.430	4.185	7.896	33.741
4	2.752	5.193	45.237	2.223	4.194	41.624	3.212	6.060	39.801
5	2.374	4.479	49.716	1.897	3.579	45.203	2.207	4.163	43.965
6	2.070	3.906	53.621	1.589	2.999	48.202	1.846	3.483	47.447
7	1.902	3.588	57.210	1.374	2.593	50.794	1.774	3.347	50.794
8	1.578	2.977	60.187						
9	1.479	2.791	62.978						
10	1.361	2.567	65.545						
11	1.323	2.496	68.041						
12	1.197	2.258	70.299						
13	1.189	2.244	72.543						
14	1.058	1.996	74.539						
15	.998	1.882	76.422						
16	.954	1.799	78.221						
17	.871	1.644	79.865						
18	.835	1.575	81.439						
19	.769	1.451	82.890						
20	.728	1.374	84.263						
21	.688	1.298	85.562						
22	.639	1.205	86.767						
23	.590	1.113	87.879						
24	.574	1.082	88.961						
25	.509	.960	89.921						
26	.484	.913	90.834						
27	.466	.878	91.713						
28	.411	.776	92.488						
29	.383	.723	93.212						
30	.373	.704	93.916						
31	.329	.621	94.537						
32	.305	.575	95.112						
33	.277	.522	95.635						
34	.242	.457	96.091						
35	.228	.429	96.521						
36	.218	.411	96.931						
37	.210	.397	97.328						
38	.180	.340	97.668						
39	.166	.314	97.983						
40	.145	.274	98.256						
41	.125	.235	98.492						
42	.114	.216	98.708						
43	.109	.206	98.914						
44	.103	.194	99.108						
45	8.489E-02	.160	99.268						

	Initial Eigenvalues			Extraction Sums of Squared Loadings			Rotation Sums of Squared Loadings		
Factor	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
46	7.798E-02	.147	99.415						
47	6.983E-02	.132	99.547						
48	6.540E-02	.123	99.671						
49	6.230E-02	.118	99.788						
50	3.904E-02	7.366E-02	99.862						
51	3.156E-02	5.954E-02	99.921						
52	2.549E-02	4.810E-02	99.969						
53	1.621E-02	3.059E-02	100.000						

Extraction Method: Principal Axis Factoring.

Rotated Factor Matrix

	Factor	1	2	3	4	5	6	7
SC1		.641	.161	.243	3.494E-02	9.673E-02	.181	.212
SC2		.374	.236	.240	-1.648E-02	.349	1.484E-02	-.152
SC4		.764	8.658E-02	.120	-8.924E-02	7.050E-02	-3.669E-02	.105
SC5		.728	5.051E-02	.127	6.153E-03	.200	-3.116E-02	.123
SC8		.397	-3.149E-02	-.117	.305	.215	8.382E-02	-2.134E-03
M1		.748	.110	-6.015E-04	.212	-6.712E-02	.108	-1.647E-02
M4		.595	.202	.240	.383	-.102	-6.654E-02	2.617E-03
M6		.731	9.296E-02	7.360E-02	.220	-3.579E-03	3.246E-02	7.850E-02
M7		.734	9.547E-02	3.089E-02	.221	5.131E-02	.224	1.185E-02
M8		.601	-8.284E-02	-5.391E-03	.301	-5.101E-02	.163	9.585E-02
M9		.669	.147	.106	.338	-.186	-6.651E-03	-1.465E-02
W1		.793	.132	.113	-3.360E-03	3.206E-02	.161	-5.671E-03
W2		.451	.130	.359	.136	.148	3.864E-02	.246
W3		.278	-.163	.396	.156	8.956E-02	-.127	-2.413E-02
UE1		.581	.142	.332	.125	.238	.118	-.271
UE2		.721	.108	.208	7.694E-04	2.611E-02	-2.805E-02	4.993E-02
UE4		.638	2.849E-03	9.907E-02	-.236	.258	5.597E-02	-.162
UE5		.622	7.229E-02	.270	-.260	.210	8.608E-02	9.973E-02
UE6		.670	.191	.286	-1.593E-02	-6.217E-03	-8.096E-02	-9.996E-02
V1		.116	.166	6.033E-02	.197	.702	-.173	-8.586E-02
V2		.120	-4.021E-02	-8.225E-02	5.142E-02	.519	5.126E-02	.191
V3		-2.456E-02	1.951E-02	-6.906E-02	.180	.713	8.021E-02	-6.765E-02
L2		.256	4.312E-02	.730	-9.305E-02	-1.960E-02	1.015E-02	7.387E-02
L3		.274	4.701E-06	.762	-4.471E-02	3.010E-02	-2.576E-02	-1.536E-02
L5		7.958E-02	4.849E-02	.757	1.370E-02	-.175	.117	.113

	Factor	1	2	3	4	5	6	7
L6	1.548E-02	.130	.403	9.930E-02	-.212	-4.037E-02	.359	
L7	.387	-.119	.673	-4.056E-02	9.695E-02	.101	.189	
L4	.127	-.113	.168	.116	.221	.240	6.424E-02	
T2	.197	.354	-4.075E-04	.144	6.373E-02	-.114	.589	
T3	4.878E-03	.274	8.720E-02	.527	.208	-3.075E-02	.307	
T4	-1.898E-02	-1.822E-02	.223	.540	-4.170E-02	-4.061E-02	.153	
T5	3.835E-02	.377	.143	7.342E-02	2.565E-02	8.262E-02	.521	
P1	9.192E-02	.535	1.361E-02	.356	.201	.128	.152	
P2	5.895E-02	.317	-8.133E-02	.380	6.941E-02	1.234E-02	1.753E-02	
P3	6.096E-02	.474	2.800E-02	.161	-.112	6.219E-02	3.574E-02	
MD2	.105	.490	.259	.166	7.914E-02	-2.125E-02	-4.024E-02	
MD3	.191	.577	2.305E-02	.129	-2.842E-02	-6.563E-02	.110	
MD6	1.234E-02	.718	.112	6.648E-02	6.707E-03	.263	.205	
MD7	.144	.541	.119	-2.437E-03	-.125	.245	.248	
MD8	-.120	.447	-.205	4.318E-02	.138	.128	.191	
E2	.168	.248	-6.276E-02	.583	9.597E-02	-7.147E-02	4.459E-02	
E3	6.438E-02	.119	9.085E-04	.678	.103	5.115E-02	-6.251E-02	
E4	.201	.128	-1.825E-02	.552	.155	2.966E-02	-5.603E-02	
FR5	.409	.525	-.124	-.120	.204	.146	9.698E-03	
FR7	.283	.632	.189	.121	2.861E-02	-8.364E-02	-9.771E-02	
FR8	.517	.485	3.749E-02	8.256E-02	-6.142E-03	-1.281E-02	-.303	
FR9	7.555E-02	.356	.566	-2.753E-02	.121	6.622E-02	-.162	
SR1	.314	.362	3.472E-02	.101	.200	.580	-.118	
SR4	.246	.337	5.657E-02	.273	.152	.457	-.111	
SR5	7.787E-02	.127	1.978E-02	2.254E-02	-4.941E-02	.653	.136	
SR6	3.415E-02	2.853E-02	.103	-.202	-4.708E-02	.460	-.116	
SR7	.571	.350	4.606E-02	.292	-3.746E-02	.158	-.356	
SR8	-2.236E-03	.226	.608	.168	-7.494E-02	.262	-9.440E-02	

Extraction Method: Principal Axis Factoring. Rotation Method: Varimax with Kaiser Normalization.

a Rotation converged in 9 iterations.

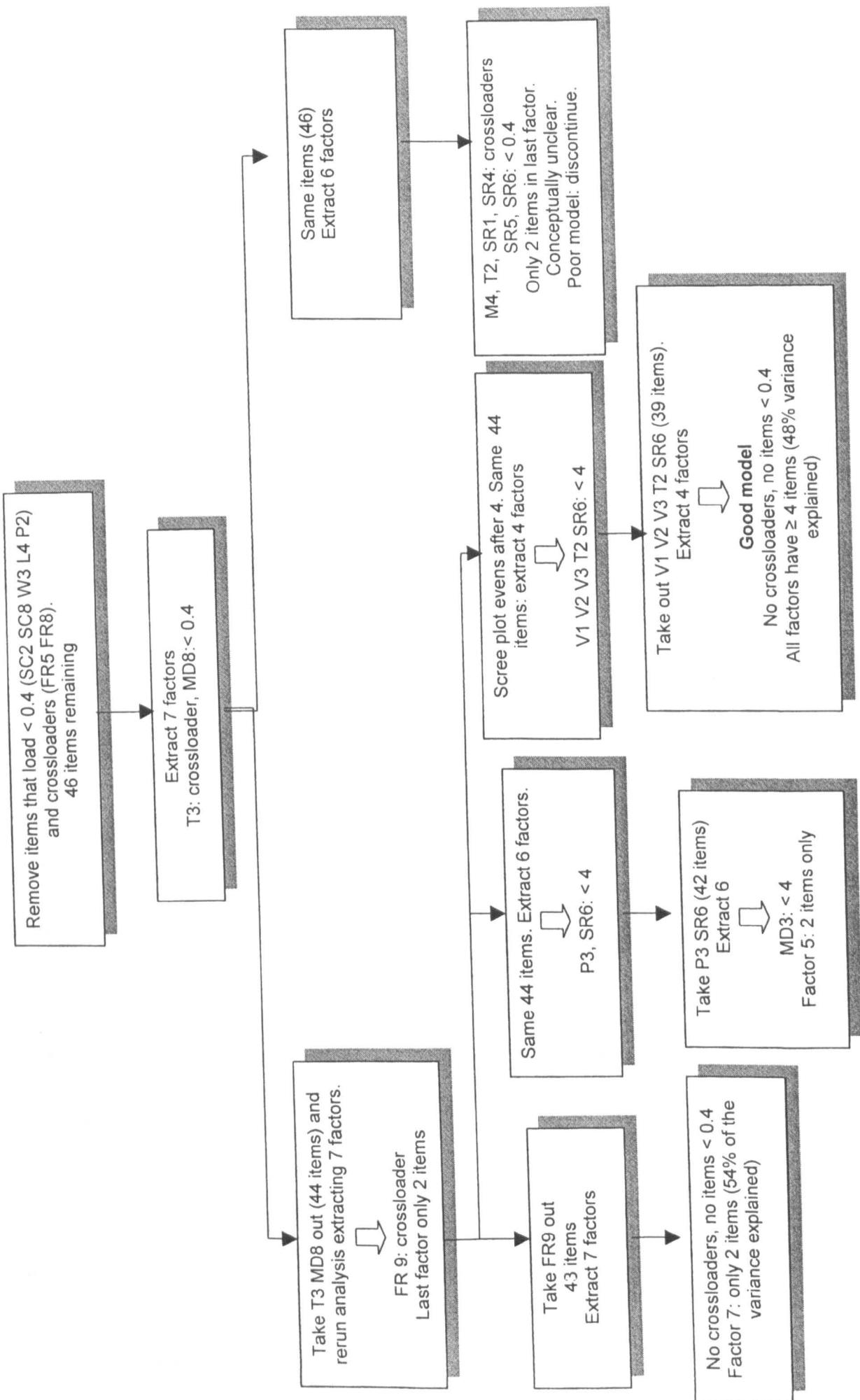
Factor Transformation Matrix

Factor	1	2	3	4	5	6	7
1	.798	.386	.334	.241	.141	.150	.041
2	-.365	.652	-.371	.502	.132	.115	.147
3	-.410	.277	.778	-.110	-.255	.081	.259
4	-.071	-.440	.262	.730	.132	-.404	.138
5	-.215	-.028	.235	-.143	.886	.164	-.257
6	.102	.015	-.141	-.307	.309	-.295	.833
7	-.010	-.393	-.054	.173	-.020	.825	.363

Extraction Method: Principal Axis Factoring.

Rotation Method: Varimax with Kaiser Normalization.

Appendix 6.14: Factor analysis process from 7-factor model

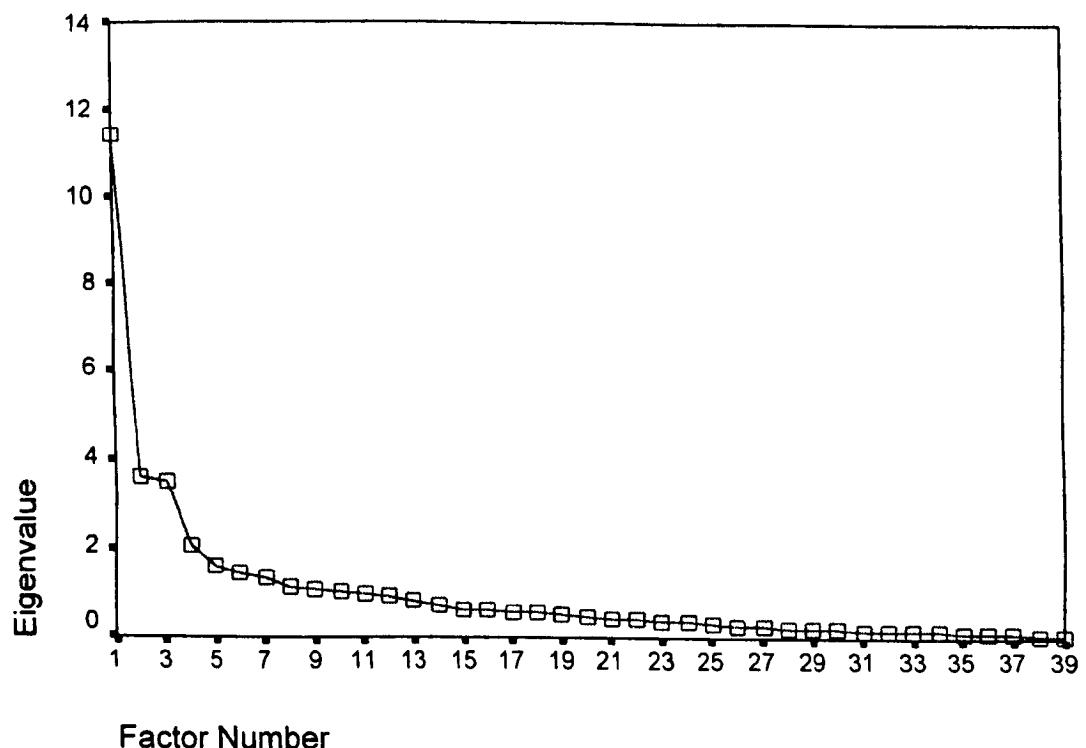


**Appendix 6.15: Factor analysis of SAQOL-39.
Principal Axis Factoring: 4 factors extracted**

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.	.765
Bartlett's Test of Sphericity	Approx. Chi-Square
	df
	Sig.

Scree Plot



Total Variance Explained

Factor	Initial Eigenvalues			Extraction Sums of Squared Loadings			Rotation Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	11.430	29.306	29.306	10.957	28.095	28.095	8.320	21.334	21.334
2	3.614	9.267	38.574	3.159	8.100	36.195	3.933	10.083	31.418
3	3.485	8.937	47.510	2.974	7.625	43.820	3.768	9.661	41.079
4	2.071	5.310	52.820	1.525	3.911	47.731	2.594	6.652	47.731
5	1.602	4.108	56.929						
6	1.453	3.725	60.653						
7	1.348	3.456	64.109						
8	1.119	2.870	66.979						
9	1.081	2.772	69.751						
10	1.013	2.598	72.349						
11	.986	2.529	74.878						
12	.905	2.319	77.198						
13	.845	2.167	79.365						
14	.736	1.888	81.253						
15	.642	1.646	82.899						
16	.621	1.592	84.491						
17	.583	1.496	85.987						
18	.544	1.395	87.382						
19	.510	1.307	88.689						
20	.482	1.237	89.926						
21	.428	1.096	91.022						
22	.403	1.034	92.056						
23	.355	.910	92.966						
24	.340	.873	93.839						
25	.284	.728	94.566						
26	.270	.691	95.258						
27	.247	.633	95.891						
28	.218	.560	96.451						
29	.206	.528	96.979						
30	.197	.506	97.485						
31	.163	.418	97.903						
32	.154	.394	98.297						
33	.143	.367	98.664						
34	.129	.331	98.995						
35	.102	.262	99.257						
36	9.749E-02	.250	99.507						
37	8.528E-02	.219	99.726						
38	6.939E-02	.178	99.904						
39	3.743E-02	9.599E-02	100.000						

Extraction Method: Principal Axis Factoring.

Rotated Factor Matrix

	Factor			
	1	2	3	4
SC1	.639	.243	.137	1.972E-02
SC4	.762	.124	.139	-5.31E-02
SC5	.748	.133	5.616E-02	-6.21E-03
M1	.750	.139	-2.90E-02	.226
M4	.576	.202	.187	.387
M6	.722	.120	3.918E-02	.294
M7	.751	.168	2.729E-02	.204
M8	.533	4.149E-02	2.768E-02	.270
M9	.616	.130	.107	.360
W1	.805	.185	7.772E-02	6.742E-02
W2	.473	.218	.284	.153
UE1	.610	.168	.144	.114
UE2	.721	.116	.219	2.837E-02
UE4	.695	1.022E-02	4.369E-02	-.148
UE5	.636	.132	.298	-.218
UE6	.669	.110	.237	9.094E-02
L2	.218	1.035E-02	.799	-5.68E-02
L3	.265	-3.64E-02	.788	-1.41E-02
L5	7.394E-02	.110	.785	5.887E-02
L6	1.438E-02	.102	.445	.145
L7	.373	-6.66E-02	.722	-6.19E-02
T4	2.014E-02	.112	.122	.425
T5	2.538E-02	.421	.178	7.665E-02
P1	.148	.527	-1.16E-02	.308
P3	3.246E-02	.421	7.541E-02	.177
MD2	.148	.484	.180	.213
MD3	.177	.486	6.157E-02	.187
MD6	6.244E-04	.781	.121	.102
MD7	9.378E-02	.628	.135	-3.77E-02
E2	.165	.189	-6.40E-02	.694
E3	6.315E-02	.143	-8.83E-03	.705
E4	.194	.143	2.046E-02	.589
FR7	.233	.526	.147	.134
FR9	7.487E-02	.328	.553	-3.49E-02
SR1	.339	.553	-5.82E-03	3.293E-02
SR4	.315	.511	-6.69E-02	.209
SR5	.138	.414	-4.70E-02	-5.67E-02
SR7	.566	.339	-3.35E-02	.320
SR8	7.559E-03	.323	.564	8.588E-02

Extraction Method: Principal Axis Factoring.

Rotation Method: Varimax with Kaiser Normalization.

a. Rotation converged in 7 iterations.

Factor Transformation Matrix

Factor	1	2	3	4
1	.819	.408	.311	.256
2	-.055	.394	-.777	.488
3	-.565	.633	.489	.203
4	-.085	-.526	.247	.809

Extraction Method: Principal Axis Factoring.

Rotation Method: Varimax with Kaiser Normalization.

Appendix 6.16: SAQOL-39 items

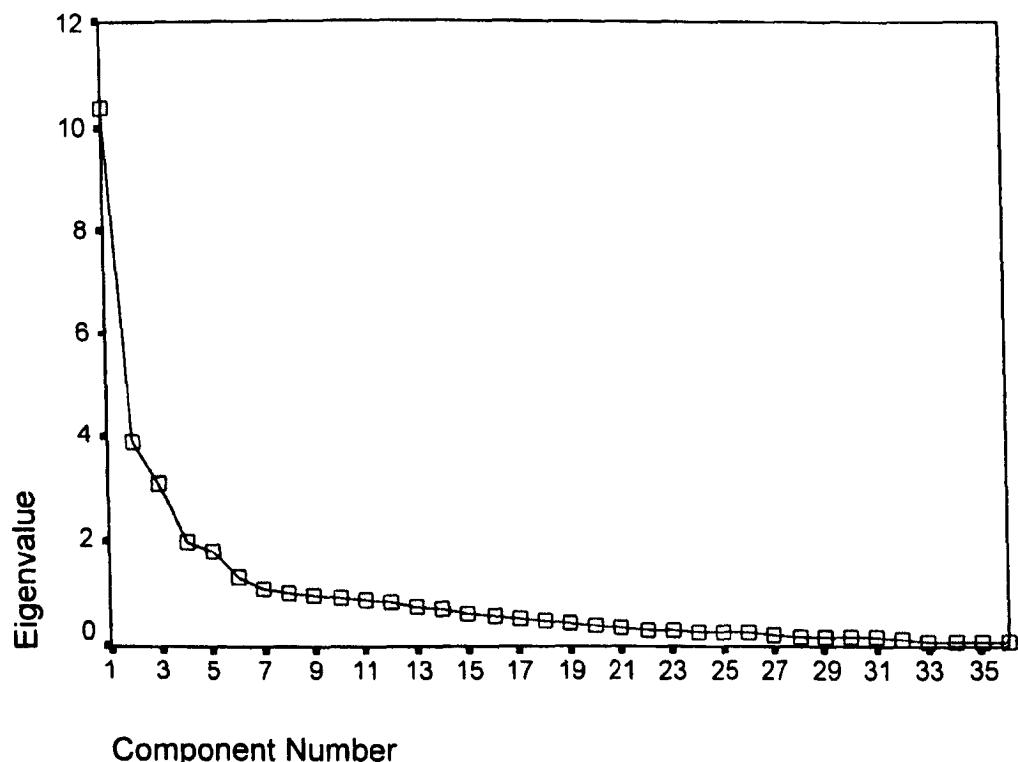
- | | | |
|-----|-----|---|
| 1. | SC1 | Prepare food |
| 2. | SC4 | Get dressed |
| 3. | SC5 | Take a bath/shower |
| 4. | M1 | Walk |
| 5. | M4 | Keep balance |
| 6. | M6 | Stairs |
| 7. | M7 | Walk no rest |
| 8. | M8 | Stand |
| 9. | M9 | Get out of chair |
| 10. | W1 | Do daily work |
| 11. | W2 | Finish jobs |
| 12. | UE1 | Write |
| 13. | UE2 | Put on socks |
| 14. | UE4 | Do buttons |
| 15. | UE5 | Do a zip |
| 16. | UE6 | Open a jar |
| 17. | L2 | Speak |
| 18. | L3 | Use phone |
| 19. | L5 | Be understood |
| 20. | L6 | Find a word |
| 21. | L7 | Repetition |
| 22. | T4 | Write to remember |
| 23. | T5 | Make decisions |
| 24. | P1 | Irritable |
| 25. | P3 | Changed personality |
| 26. | MD2 | Discouraged |
| 27. | MD3 | No interest in people |
| 28. | MD6 | Withdrawn |
| 29. | MD7 | Little confidence |
| 30. | E2 | Tired often |
| 31. | E3 | Need to stop and rest |
| 32. | E4 | Too tired |
| 33. | FR7 | Feel a burden to family |
| 34. | FR9 | Language problems effect on family life |
| 35. | SR1 | Go out less |
| 36. | SR4 | Do hobbies less |
| 37. | SR5 | See friends less |
| 38. | SR7 | Physical problems effect on social life |
| 39. | SR8 | Language problems effect on social life |

Appendix 6.17: Factor analysis of SAQOL-36 Principal Components Analysis

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.	.795
Bartlett's Test of Sphericity	
Approx. Chi-Square	1748.984
df	630
Sig.	.000

Scree Plot



Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	10.374	28.817	28.817	10.374	28.817	28.817
2	3.882	10.782	39.600	3.882	10.782	39.600
3	3.103	8.619	48.219	3.103	8.619	48.219
4	2.005	5.571	53.789	2.005	5.571	53.789
5	1.820	5.057	58.846	1.820	5.057	58.846
6	1.337	3.714	62.560	1.337	3.714	62.560
7	1.092	3.033	65.593	1.092	3.033	65.593
8	1.027	2.852	68.445	1.027	2.852	68.445
9	.989	2.748	71.193			
10	.941	2.613	73.806			
11	.896	2.489	76.295			
12	.833	2.314	78.608			
13	.770	2.138	80.747			
14	.703	1.954	82.700			
15	.634	1.762	84.463			
16	.577	1.602	86.065			
17	.522	1.450	87.514			
18	.493	1.370	88.884			
19	.455	1.264	90.148			
20	.388	1.077	91.225			
21	.350	.971	92.196			
22	.311	.863	93.059			
23	.295	.819	93.878			
24	.265	.737	94.615			
25	.263	.729	95.344			
26	.248	.690	96.034			
27	.213	.593	96.627			
28	.192	.533	97.160			
29	.184	.511	97.671			
30	.173	.480	98.151			
31	.155	.430	98.581			
32	.132	.368	98.948			
33	.110	.306	99.254			
34	.100	.279	99.533			
35	8.835E-02	.245	99.778			
36	7.976E-02	.222	100.000			

Extraction Method: Principal Component Analysis.

Component Matrix^a

	Component							
	1	2	3	4	5	6	7	8
SC1	.727	-.170	-.111	-9.35E-02	.228	-3.20E-02	-.120	-.154
SC4	.670	-.331	-.216	-.151	4.880E-02	1.878E-02	.265	4.552E-02
SC5	.672	-.238	-.259	-6.07E-02	.132	6.485E-02	7.990E-02	-4.34E-02
M4	.701	1.459E-03	-.132	9.365E-02	.122	-.356	.145	-.195
M6	.711	-.103	-.308	6.316E-02	.184	-.141	-.185	-1.49E-02
M7	.716	-.115	-.290	.100	3.620E-02	.124	-.318	-6.82E-02
W1	.756	-.240	-.263	-2.54E-02	6.542E-03	3.931E-02	-.147	2.828E-02
W2	.644	-.137	6.710E-02	-4.15E-02	.355	-.104	7.149E-03	-7.40E-02
UE1	.705	-.174	-.108	.286	-.129	8.502E-02	.171	-9.66E-02
UE4	.557	-.395	-.310	-3.02E-02	-.177	.185	.366	3.338E-02
UE5	.631	-.446	-2.33E-02	-.243	-1.97E-02	.188	-5.15E-02	.139
UE6	.717	-.250	-.151	3.858E-02	-4.24E-02	-2.88E-02	-.120	.128
L2	.459	-.437	.552	.101	7.069E-02	-.159	-4.70E-02	5.492E-02
L3	.479	-.453	.497	.151	5.477E-02	-.164	-6.43E-02	8.831E-02
L5	.329	-.273	.717	.145	8.560E-02	-4.72E-02	-1.14E-02	6.066E-02
L7	.501	-.492	.393	.117	.194	.107	-8.86E-02	5.001E-03
T2	.387	.306	-3.60E-02	-.373	.563	-1.63E-02	.115	-3.22E-02
T3	.278	.525	.101	.152	.384	.183	.157	-.212
T5	.323	.285	.327	-.309	.459	.334	.223	.112
P1	.407	.546	5.187E-02	-1.76E-02	8.205E-02	2.848E-02	-.288	-.125
P3	.319	.403	9.933E-02	-.243	-.178	-.471	-.140	-2.79E-02
MD2	.475	.273	.175	-.101	-.214	-.413	.355	-.172
MD3	.459	.353	3.662E-02	-.279	2.898E-02	-.259	-4.37E-02	-1.82E-03
MD6	.411	.529	.330	-.269	-6.78E-02	.103	-.210	2.257E-02
MD7	.392	.344	.343	-.342	-7.62E-02	.223	-.187	.147
E2	.317	.530	-.141	.466	.208	-3.45E-02	.197	.253
E3	.226	.460	-2.71E-02	.635	9.572E-02	1.615E-02	2.343E-02	.101
E4	.314	.360	-6.07E-02	.527	.140	-1.37E-02	-6.36E-02	.371
FR5	.507	.266	-.219	-.289	-.220	.207	-1.32E-02	.414
FR7	.588	.250	.136	-.180	-.252	-.197	.304	.151
FR8	.655	.118	-.246	-4.50E-02	-.300	-.151	-.152	8.076E-02
FR9	.376	1.948E-02	.569	8.148E-02	-.353	.127	.177	.190
SR1	.533	.200	3.285E-02	-8.60E-03	-.383	.347	.111	-.228
SR4	.530	.281	-7.17E-02	.150	-.194	.311	7.535E-03	-.446
SR7	.692	.156	-.239	.205	-.272	-2.45E-02	-.132	2.937E-02
SR8	.326	6.274E-02	.654	.229	-.202	9.104E-02	-.101	-.249

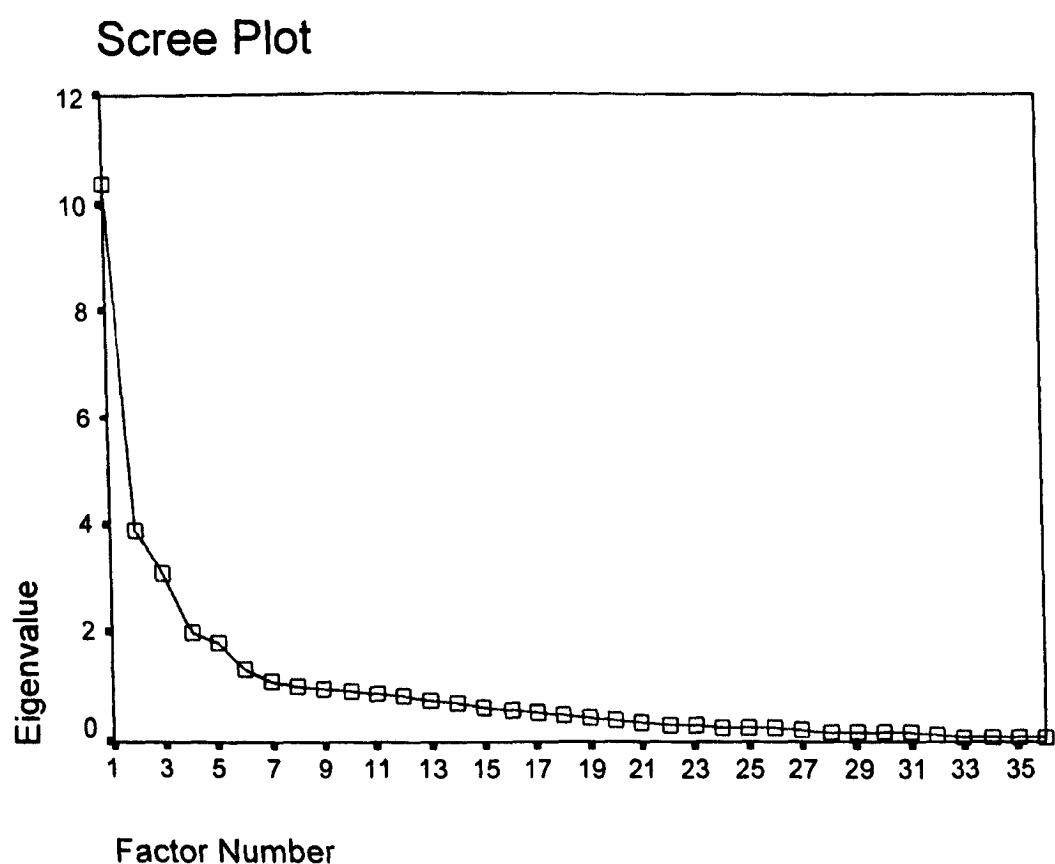
Extraction Method: Principal Component Analysis.

a. 8 components extracted.

**Appendix 6.18: Factor analysis of SAQOL-36
Principal Axis Factoring: 4 factors extracted**

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.	.795
Bartlett's Test of Sphericity	
Approx. Chi-Square	1748.984
df	630
Sig.	.000



Total Variance Explained

	Initial Eigenvalues			Extraction Sums of Squared Loadings			Rotation Sums of Squared Loadings		
Factor	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	10.374	28.817	28.817	9.889	27.468	27.468	7.415	20.598	20.598
2	3.882	10.782	39.600	3.383	9.398	36.866	4.074	11.315	31.913
3	3.103	8.619	48.219	2.656	7.377	44.243	3.441	9.557	41.470
4	2.005	5.571	53.789	1.488	4.134	48.377	2.487	6.907	48.377
5	1.820	5.057	58.846						
6	1.337	3.714	62.560						
7	1.092	3.033	65.593						
8	1.027	2.852	68.445						
9	.989	2.748	71.193						
10	.941	2.613	73.806						
11	.896	2.489	76.295						
12	.833	2.314	78.608						
13	.770	2.138	80.747						
14	.703	1.954	82.700						
15	.634	1.762	84.463						
16	.577	1.602	86.065						
17	.522	1.450	87.514						
18	.493	1.370	88.884						
19	.455	1.264	90.148						
20	.388	1.077	91.225						
21	.350	.971	92.196						
22	.311	.863	93.059						
23	.295	.819	93.878						
24	.265	.737	94.615						
25	.263	.729	95.344						
26	.248	.690	96.034						
27	.213	.593	96.627						
28	.192	.533	97.160						
29	.184	.511	97.671						
30	.173	.480	98.151						
31	.155	.430	98.581						
32	.132	.368	98.948						
33	.110	.306	99.254						
34	.100	.279	99.533						
35	8.835E-02	.245	99.778						
36	7.976E-02	.222	100.000						

Extraction Method: Principal Axis Factoring.

Rotated Factor Matrix

	Factor			
	1	2	3	4
SC1	.677	.232	.180	3.252E-02
SC4	.744	.112	.114	-.106
SC5	.723	.117	7.129E-02	1.587E-02
M4	.597	.233	.137	.245
M6	.726	.142	2.980E-02	.195
M7	.728	.135	5.069E-02	.196
W1	.805	.142	9.623E-02	4.563E-02
W2	.516	.226	.289	6.376E-02
UE1	.658	5.687E-02	.247	.272
UE4	.708	-4.36E-02	4.937E-02	-8.39E-02
UE5	.676	.127	.271	-.274
UE6	.717	.119	.191	6.939E-02
L2	.280	1.648E-02	.773	-8.42E-02
L3	.326	-2.42E-02	.747	-4.65E-02
L5	4.115E-02	8.455E-02	.817	-1.19E-02
L7	.404	-4.71E-02	.665	-7.90E-02
T2	.207	.465	-5.77E-02	4.017E-02
T3	-6.85E-03	.373	2.206E-02	.417
T5	2.618E-02	.492	.188	1.213E-02
P1	9.841E-02	.532	-1.66E-02	.338
P3	7.000E-02	.499	-6.98E-03	9.831E-02
MD2	.200	.459	.158	.149
MD3	.216	.540	1.030E-03	9.177E-02
MD6	-1.66E-02	.753	.144	.127
MD7	4.448E-02	.630	.187	-1.11E-02
E2	.106	.202	-8.21E-02	.711
E3	9.664E-03	7.233E-02	3.368E-02	.759
E4	.132	.108	4.114E-02	.599
FR5	.388	.477	-.158	5.019E-02
FR7	.310	.539	.157	.109
FR8	.565	.345	-4.05E-02	.174
FR9	5.479E-02	.297	.522	7.499E-02
SR1	.324	.386	.106	.173
SR4	.334	.340	3.733E-02	.329
SR7	.581	.273	9.515E-03	.380
SR8	-4.23E-02	.256	.609	.188

Extraction Method: Principal Axis Factoring.

Rotation Method: Varimax with Kaiser Normalization.

a. Rotation converged in 7 iterations.

Factor Transformation Matrix

Factor	1	2	3	4
1	.803	.452	.317	.223
2	-.352	.638	-.404	.553
3	-.480	.293	.826	-.041
4	-.004	-.551	.232	.802

Extraction Method: Principal Axis Factoring.

Rotation Method: Varimax with Kaiser Normalization.

Appendix 6.19: SAQOL-34 items

- | | | |
|-----|-----|---|
| 1. | SC1 | Prepare food |
| 2. | SC4 | Get dressed |
| 3. | SC5 | Take a bath/shower |
| 4. | M4 | Keep balance |
| 5. | M6 | Stairs |
| 6. | M7 | Walk no rest |
| 7. | W1 | Do daily work |
| 8. | W2 | Finish jobs |
| 9. | UE1 | Write |
| 10. | UE4 | Do buttons |
| 11. | UE5 | Do a zip |
| 12. | UE6 | Open a jar |
| 13. | L2 | Speak |
| 14. | L3 | Use phone |
| 15. | L5 | Be understood |
| 16. | L7 | Repetition |
| 17. | T2 | Concentrate |
| 18. | T3 | Remember |
| 19. | T5 | Make decisions |
| 20. | P1 | Irritable |
| 21. | P3 | Changed personality |
| 22. | MD2 | Discouraged |
| 23. | MD3 | No interest in people |
| 24. | MD6 | Withdrawn |
| 25. | MD7 | Little confidence |
| 26. | E2 | Tired often |
| 27. | E3 | Need to stop and rest |
| 28. | E4 | Too tired |
| 29. | FR5 | Avoid family activities |
| 30. | FR7 | Feel a burden |
| 31. | FR8 | Physical problems effect on Family |
| 32. | FR9 | Language problems effect on Family |
| 33. | SR7 | Physical problems effect on Social life |
| 34. | SR8 | Language problems effect on Social life |

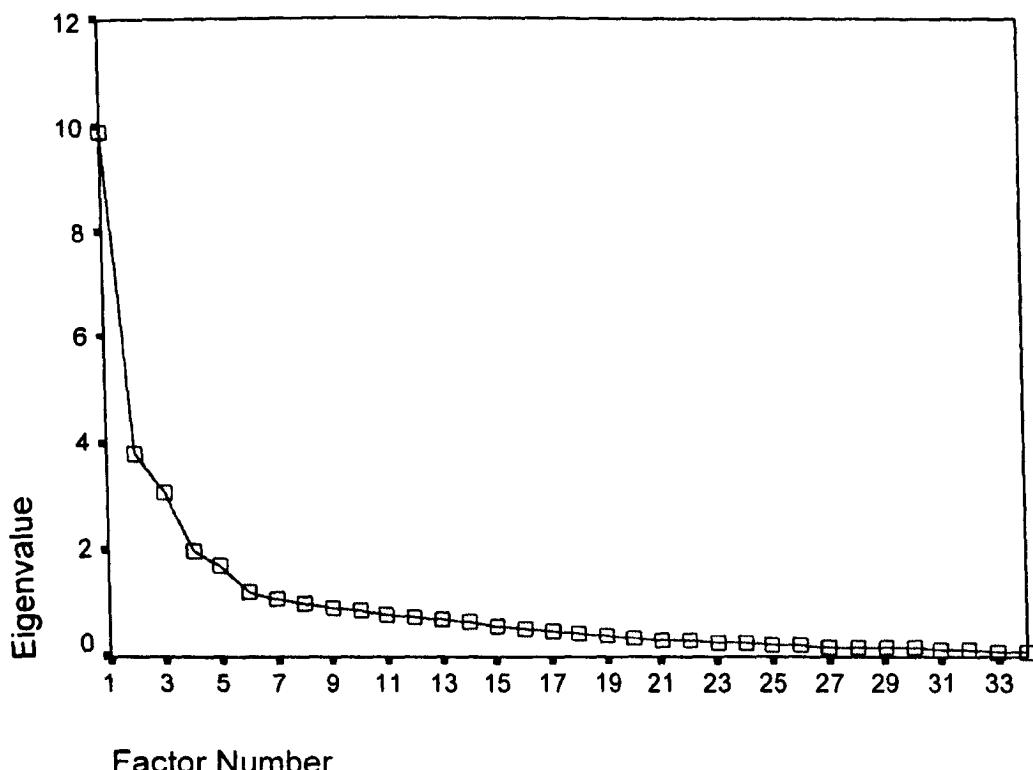
Appendix 6.20: Factor analysis of SAQOL-34

Principal Axis Factoring: 4 factors extracted

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.803
Bartlett's Test of Sphericity	Approx. Chi-Square df Sig.	1630.040 561 .000

Scree Plot



Total Variance Explained

	Initial Eigenvalues			Extraction Sums of Squared Loadings			Rotation Sums of Squared Loadings		
Factor	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	9.870	29.028	29.028	9.397	27.638	27.638	7.248	21.317	21.317
2	3.786	11.137	40.165	3.283	9.655	37.293	3.795	11.163	32.480
3	3.098	9.110	49.275	2.648	7.789	45.082	3.432	10.095	42.574
4	1.990	5.854	55.129	1.481	4.355	49.437	2.333	6.863	49.437
5	1.724	5.071	60.201						
6	1.239	3.643	63.844						
7	1.086	3.194	67.037						
8	.999	2.938	69.976						
9	.930	2.735	72.711						
10	.902	2.653	75.363						
11	.793	2.333	77.696						
12	.756	2.223	79.920						
13	.692	2.035	81.954						
14	.677	1.991	83.945						
15	.572	1.684	85.629						
16	.540	1.588	87.217						
17	.469	1.379	88.595						
18	.438	1.288	89.884						
19	.416	1.224	91.107						
20	.340	.999	92.106						
21	.312	.919	93.025						
22	.292	.859	93.884						
23	.267	.785	94.669						
24	.251	.739	95.407						
25	.217	.640	96.047						
26	.210	.618	96.665						
27	.196	.575	97.240						
28	.182	.534	97.774						
29	.175	.514	98.288						
30	.160	.469	98.757						
31	.130	.384	99.141						
32	.115	.337	99.478						
33	9.241 E-02	.272	99.750						
34	8.505 E-02	.250	100.000						

Extraction Method: Principal Axis Factoring.

Rotated Factor Matrix

	Factor			
	1	2	3	4
SC1	.678	.234	.180	2.265E-02
SC4	.743	.103	.113	-.109
SC5	.725	.117	7.009E-02	1.451E-02
M4	.603	.241	.137	.246
M6	.732	.148	2.794E-02	.200
M7	.729	.125	5.148E-02	.189
W1	.805	.133	9.788E-02	3.200E-02
W2	.520	.236	.289	5.942E-02
UE1	.655	3.906E-02	.250	.250
UE4	.704	-6.62E-02	5.030E-02	-9.48E-02
UE5	.673	.113	.271	-.282
UE6	.721	.123	.192	6.340E-02
L2	.281	1.640E-02	.771	-8.51E-02
L3	.328	-2.27E-02	.744	-3.83E-02
L5	4.171E-02	8.122E-02	.817	-1.43E-02
L7	.405	-4.43E-02	.663	-8.17E-02
T2	.213	.490	-6.06E-02	4.636E-02
T3	-1.21E-03	.386	2.434E-02	.415
T5	2.919E-02	.503	.189	1.021E-02
P1	.104	.536	-1.26E-02	.332
P3	7.685E-02	.502	-6.11E-03	.109
MD2	.204	.452	.162	.145
MD3	.222	.551	2.657E-03	8.851E-02
MD6	-1.19E-02	.739	.150	.112
MD7	4.898E-02	.622	.190	-1.34E-02
E2	.114	.211	-8.00E-02	.727
E3	1.525E-02	7.316E-02	3.726E-02	.752
E4	.140	.116	4.365E-02	.612
FR5	.391	.465	-.154	5.158E-02
FR7	.315	.532	.161	.104
FR8	.569	.342	-3.70E-02	.166
FR9	5.819E-02	.283	.525	7.182E-02
SR7	.581	.258	1.617E-02	.358
SR8	-4.20E-02	.237	.611	.167

Extraction Method: Principal Axis Factoring.

Rotation Method: Varimax with Kaiser Normalization.

a. Rotation converged in 7 iterations.

Factor Transformation Matrix

Factor	1	2	3	4
1	.820	.424	.334	.192
2	-.318	.665	-.383	.557
3	-.476	.286	.831	-.041
4	.000	-.545	.228	.807

Extraction Method: Principal Axis Factoring.

Rotation Method: Varimax with Kaiser Normalization.

Appendix 6.21: Univariate Analysis of Variance: SAQOL by QOL groups

Tests of Normality of SAQOL Mean

	Kolmogorov-Smirnov ^a		
	Statistic	df	Sig.
SAQOL	.092	83	.078

a Lilliefors Significance Correction

Levene's Test of Equality of Error Variances^a

Dependent Variable: SAQOL mean score

F	df1	df2	Sig.
.412	2	80	.664

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a Design: Intercept+QOLGROUP

Descriptive Statistics

Dependent Variable: SAQOL mean score

QOL group	Mean	Std. Deviation	N
QOL a lot worse than before the stroke	3.1431	.5772	43
QOL a little worse than before the stroke	3.4914	.5415	24
QOL same as or better than before the stroke	3.8904	.4836	16
Total	3.3878	.6160	83

Tests of Between-Subjects Effects

Dependent Variable: SAQOL mean score

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	6.874 ^a	2	3.437	11.340	.000
Intercept	869.326	1	869.326	2868.480	.000
QOLGROUP	6.874	2	3.437	11.340	.000
Error	24.245	80	.303		
Total	983.751	83			
Corrected Total	31.119	82			

a R Squared = .221 (Adjusted R Squared = .201)

Pairwise Comparisons

Dependent Variable: SAQOL mean score

		Mean Diff. (I-J)	Std. Error	Sig. ^a
(I) QOL group	(J) QOL group			
QOL a lot worse than before the stroke	QOL a little worse than before the stroke	-.348*	.140	.015
	QOL same as or better than before the stroke	-.747*	.161	.000
QOL a little worse than before the stroke	QOL a lot worse than before the stroke	.348*	.140	.015
	QOL same as or better than before the stroke	-.399*	.178	.027
QOL same as or better than before the stroke	QOL a lot worse than before the stroke	.747*	.161	.000
	QOL a little worse than before the stroke	.399*	.178	.027

Based on estimated marginal means

* The mean difference is significant at the .05 level.

a Adjustment for multiple comparisons: Least Significant Difference (equivalent to no adjustments).

Appendix 6.22: Univariate Analysis of Variance: SAQOL-39 by QOL groups

Tests of Normality of SAQOL-39 Mean

Kolmogorov-Smirnov ^a			
	Statistic	df	Sig.
SAQOL-39	.074	83	.200*

* This is a lower bound of the true significance.

a Lilliefors Significance Correction

Levene's Test of Equality of Error Variances^a

Dependent Variable: SAQOL-39 mean score

F	df1	df2	Sig.
.405	2	80	.668

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a Design: Intercept+QOLGROUP

Descriptive Statistics

Dependent Variable: SAQOL-39 mean score

QOL group	Mean	Std. Deviation	N
QOL a lot worse than before the stroke	2.9906	.6590	43
QOL a little worse than before the stroke	3.3985	.6139	24
QOL same as or better than before the stroke	3.8109	.5708	16
Total	3.2667	.7005	83

Tests of Between-Subjects Effects

Dependent Variable: SAQOL-39 mean score

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	8.434 ^a	2	4.217	10.609	.000
Intercept	816.492	1	816.492	2054.138	.000
QOLGROUP	8.434	2	4.217	10.609	.000
Error	31.799	80	.397		
Total	925.933	83			
Corrected Total	40.233	82			

a R Squared = .210 (Adjusted R Squared = .190)

Pairwise Comparisons

Dependent Variable: SAQOL-39 mean score

		Mean Diff. (I-J)	Std. Error	Sig. ^a
(I) QOL group	(J) QOL group			
QOL a lot worse than before the stroke	QOL a little worse than before the stroke	-.408*	.161	.013
	QOL same as or better than before the stroke	-.820*	.185	.000
QOL a little worse than before the stroke	QOL a lot worse than before the stroke	.408*	.161	.013
	QOL same as or better than before the stroke	-.412*	.203	.046
QOL same as or better than before the stroke	QOL a lot worse than before the stroke	.820*	.185	.000
	QOL a little worse than before the stroke	.412*	.203	.046

Based on estimated marginal means

* The mean difference is significant at the .05 level.

a Adjustment for multiple comparisons: Least Significant Difference (equivalent to no adjustments).

Appendix 6.23: Univariate Analysis of Variance: SAQOL-34 by QOL groups

Tests of Normality of SAQOL-34 Mean

	Kolmogorov-Smirnov ^a		
	Statistic	df	Sig.
SAQOL-34	.092	83	.077

a Lilliefors Significance Correction

Levene's Test of Equality of Error Variances^a

Dependent Variable: SAQOL-34 mean score.

F	df1	df2	Sig.
.098	2	80	.906

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a Design: Intercept+QOLGROUP

Descriptive Statistics

Dependent Variable: SAQOL-34 mean score

QOL group	Mean	Std. Deviation	N
QOL a lot worse than before the stroke	2.9590	.6593	43
QOL a little worse than before the stroke	3.4522	.6246	24
QOL same as or better than before the stroke	3.8199	.6097	16
Total	3.2676	.7207	83

Tests of Between-Subjects Effects

Dependent Variable: SAQOL-34 mean score

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	9.792 ^a	2	4.896	11.939	.000
Intercept	821.483	1	821.483	2003.304	.000
QOLGROUP	9.792	2	4.896	11.939	.000
Error	32.805	80	.410		
Total	928.796	83			
Corrected Total	42.597	82			

a R Squared = .230 (Adjusted R Squared = .211)

Pairwise Comparisons

Dependent Variable: SAQOL-34 mean score

		Mean Diff. (I-J)	Std. Error	Sig. ^a
(I) QOL group	(J) QOL group			
QOL a lot worse than before the stroke	QOL a little worse than before the stroke	-.493*	.163	.003
	QOL same as or better than before the stroke	-.861*	.188	.000
QOL a little worse than before the stroke	QOL a lot worse than before the stroke	.493*	.163	.003
	QOL same as or better than before the stroke	-.368	.207	.079
QOL same as or better than before the stroke	QOL a lot worse than before the stroke	.861*	.188	.000
	QOL a little worse than before the stroke	.368	.207	.079

Based on estimated marginal means

* The mean difference is significant at the .05 level.

a Adjustment for multiple comparisons: Least Significant Difference (equivalent to no adjustments).

Appendix 6.24 : Internal consistency of the SAQOL-39

SAQOL-39 Scale alpha: .9300

Items	N	Item-total correlations	Alpha if item deleted
Sc1: Prepare food	82	.6142	.9252
Sc4: Get dressed	82	.6268	.9253
Sc5: Bath	82	.6022	.9252
M1: Walk	82	.6456	.9252
M4: Balance	82	.6807	.9248
M6: Stairs	82	.6607	.9248
M7: Walk no rest	82	.6756	.9246
M8: Stand	82	.4835	.9267
M9: Get out of chair	82	.6272	.9257
W1: Daily work	82	.6933	.9245
W2: Finish jobs	82	.5849	.9257
Ue1: Write	82	.5961	.9254
Ue2: Put on socks	82	.6409	.9248
Ue4: Do buttons	82	.4558	.9268
Ue5: Do a zip	82	.5421	.9260
Ue6: Open a jar	82	.6243	.9250
L2: Speak	82	.3912	.9274
L3: Use phone	82	.4108	.9273
L5: Be understood	82	.3721	.9275
L6: Find a word	82	.2506	.9284
L7: Repetition	82	.4413	.9270
T4: Write to remember	82	.2268	.9292
T5: Make decisions	82	.3060	.9282
P1: Irritable	82	.4437	.9270
P3: Changed personality	82	.2885	.9287
Md2: Discouraged	82	.4667	.9268
Md3: No interest in people	82	.4301	.9271
Md6: Withdrawn	82	.4314	.9271
Md7: Confidence	82	.4003	.9275

Items	N	Item-total correlations	Alpha if item deleted
E2: Tired often	82	.3772	.9278
E3: Stop and rest	82	.3067	.9285
E4: Too tired	82	.3774	.9276
Fr7: Feel a burden	82	.5114	.9263
Fr9: Lang. effect on FR	82	.3885	.9276
Sr1: Go out less	82	.5244	.9262
Sr4: Do hobbies less	82	.5143	.9262
Sr5: See friends less	82	.2591	.9288
Sr7: Phys. effect on SR	82	.6415	.9247
Sr8: Lang. effect on SR	82	.3725	.9276

Appendix 6.25: Internal consistency of the SAQOL-39 subdomains

Items and Subdomains	N	Item-total correlations	Alpha if item deleted	Subdomain alpha
Physical subdomain				.9457
Sc1: Prepare food	83	.6767	.9413	
Sc4: Get dressed	83	.7556	.9397	
Sc5: Bath	83	.7193	.9406	
M1: Walk	83	.7663	.9397	
M4: Balance	83	.6872	.9411	
M6: Stairs	83	.7600	.9395	
M7: Walk no rest	83	.7660	.9393	
M8: Stand	83	.5767	.9431	
M9: Get out of chair	83	.7000	.9412	
W1: Daily work	83	.8118	.9384	
W2: Finish jobs	83	.5800	.9430	
Ue1: Write	83	.6366	.9420	
Ue2: Put on socks	83	.7195	.9404	
Ue4: Do buttons	83	.6282	.9421	
Ue5: Do a zip	83	.6316	.9421	
Ue6: Open a jar	83	.7080	.9407	
Sr7: Phys. effect on SR	83	.6224	.9429	
Communication subdomain	83			.8558
L2: Speak	83	.7401	.8141	
L3: Use phone	83	.7209	.8160	
L5: Be understood	83	.7300	.8200	
L6: Find a word	83	.3971	.8588	
L7: Repetition	83	.6812	.8226	
F9: Lang. effect on FR	83	.5292	.8493	
Si8: Lang. effect on SR	83	.5569	.8420	

Items and Subdomains	N	Item-total correlations	Alpha if item deleted	Subdomain alpha
Psychosocial subdomain				.8302
T5: Make decisions	83	.3773	.8265	
P1: Irritable	83	.5340	.8139	
P3: Changed personality	83	.4038	.8254	
Md2: Discouraged	83	.5102	.8159	
Md3: No interest in people	83	.4965	.8180	
Md6: Withdrawn	83	.6678	.8012	
Md7: Confidence	83	.5386	.8132	
F7: Feel a burden	83	.5467	.8124	
Sr1: Go out less	83	.5580	.8113	
Sr4: Do hobbies less	83	.5131	.8156	
Sr5: See friends less	83	.3841	.8266	
Energy subdomain	82			.7391
T4: Write to remember	82	.3243	.7917	
E2: Tired often	82	.6139	.6326	
E3: Stop and rest	82	.6999	.5796	
E4: Too tired	82	.5217	.6881	

Appendix 6.26: Internal consistency of the SAQOL-34
SAQOL-34 scale alpha: .9182

Items	N	Item-total correlations	Alpha if item deleted
SC1 Prepare food	81	.6521	.9135
SC4 Get dressed	81	.5724	.9148
SC5 Bath	81	.5853	.9144
M4 Balance	81	.6540	.9139
M6 Stairs	81	.6466	.9138
M7 Walk no rest	81	.6373	.9138
W1 Daily work	81	.6598	.9136
W2 Finish jobs	81	.5954	.9146
UE1 Write	81	.6247	.9140
UE4 Do buttons	81	.4407	.9164
UE5 Do a zip	81	.5323	.9153
UE6 Open a jar	81	.6426	.9135
L2 Speak	81	.4183	.9167
L3 Use phone	81	.4352	.9155
L5 Be understood	81	.3174	.9177
L7 Repetition	81	.4451	.9164
T2 Concentrate	81	.3816	.9171
T3 Remember	81	.3069	.9182
T5 Make decisions	81	.3361	.9176
P1 Irritable	81	.4220	.9166
P3 Changed personality	81	.3188	.9181
MD2 Discouraged	81	.4640	.9162
MD3 No interest in people	81	.4512	.9163
MD6 Withdrawn	81	.4265	.9166
MD7 Confidence	81	.4017	.9170
E2 Tired often	81	.3378	.9179
E3 Stop and rest	81	.2371	.9192
E4 Too tired	81	.3202	.9179
FR5 Avoid family activities	81	.4704	.9160
FR7 Feel a burden	81	.5734	.9146
FR8 Phys. effect on FR	81	.5971	.9142
FR9 Lang. effect on FR	81	.3792	.9173
SR7 Phys. effect on SR	81	.6359	.9136
SR8 Lang. effect on SR	81	.3256	.9178

Appendix 6.27: Internal consistency of the SAQOL-34 subdomains

Items and Subdomains	N	Item-total correlations	Alpha if item deleted	Subdomain alpha
Physical subdomain				.9318
Sc1: Prepare food	83	.6696	.9251	
Sc4: Get dressed	83	.7028	.9243	
Sc5: Bath	83	.7037	.9242	
M4: Balance	83	.6584	.9256	
M6: Stairs	83	.7466	.9229	
M7: Walk no rest	83	.7436	.9228	
W1: Daily work	83	.7914	.9214	
W2: Finish jobs	83	.5771	.9278	
Ue1: Write	83	.6538	.9256	
Ue4: Do buttons	83	.6345	.9262	
Ue5: Do a zip	83	.6355	.9261	
Ue6: Open a jar	83	.7323	.9230	
Fr8: Phys. effect on FR	83	.5733	.9291	
Sr7: Phys. effect on SR	83	.6465	.9262	
Communication subdomain	83			.8653
L2: Speak	83	.7371	.8197	
L3: Use phone	83	.7320	.8191	
L5: Be understood	83	.7162	.8282	
L7: Repetition	83	.6507	.8348	
Fr9: Lang. effect on FR	83	.5413	.8588	
Sr8: Lang. effect on SR	83	.5721	.8497	

Items and Subdomains	N	Item-total correlations	Alpha if item deleted	Subdomain alpha
Psychosocial subdomain				
P1: Concentrate	83	.4530	.8163	
T2: Concentrate	81	.4313	.8182	
T5: Make decisions	81	.5283	.8090	
P1: Irritable	81	.4618	.8160	
P3: Changed personality	81			
Md2: Discouraged	81	.4796	.8143	
Md3: No interest in people	81	.5318	.8101	
Md6: Withdrawn	81	.6563	.7950	
Md7: Confidence	81	.5384	.8078	
Fr5: Avoid family activities	81	.4682	.8151	
Fr7: Feel a burden	81	.5818	.8030	
Energy subdomain	83			
T3: Remember	83	.4266	.7968	
E2: Tired often	83	.7055	.6510	
E3: Stop and rest	83	.6549	.6811	
E4: Too tired	83	.5445	.7398	

Appendix 6.28: SAQOL-34 and SAQOL-39 intercorrelations between subdomains

SAQOL-34 intercorrelations between subdomains and correlations between subdomains and corrected² total mean

		Physical	Psychosocial	Communication	Energy	Corrected mean
Physical	Pearson	-	.471**	.372**	.255*	.577**
Psychosocial	Pearson	.471**	-	.246*	.406**	.596**
Communication	Pearson	.372**	.246*	-	.061	.363**
Energy	Pearson	.255*	.406**	.061	-	.398**
Corrected mean	Pearson	.577**	.596**	.363**	.398**	-

** Correlation is significant at the 0.01 level (2-tailed).

* Correlation is significant at the 0.05 level (2-tailed).

SAQOL-39 Intercorrelations between subdomains and correlations between subdomains and corrected total mean

		Physical	Psychosocial	Communication	Energy	Corrected mean
Physical	Pearson	-	.470**	.356**	.242*	.562**
Psychosocial	Pearson	.470**	-	.290**	.341**	.585**
Communication	Pearson	.356**	.290**	-	.090	.385**
Energy	Pearson	.242*	.341**	.090	-	.385**
Corrected mean	Pearson	.562**	.585**	.385**	.385**	-

** Correlation is significant at the 0.01 level (2-tailed).

* Correlation is significant at the 0.05 level (2-tailed).

² For the correlation of each subdomain with the mean, the mean is corrected, i.e., it is the mean less the subdomain

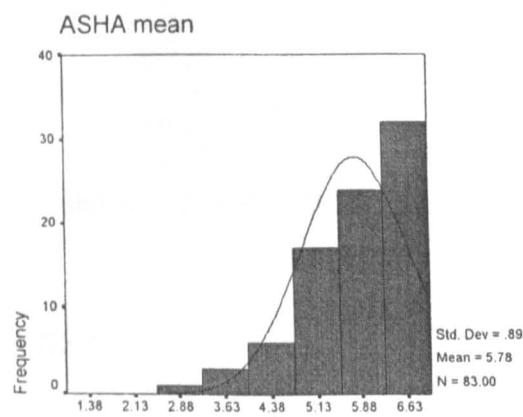
Appendix 7.1: Descriptive statistics for ASHA-FACS, FAI, GHQ-12, SPM grade, SSS and PSI

Statistics

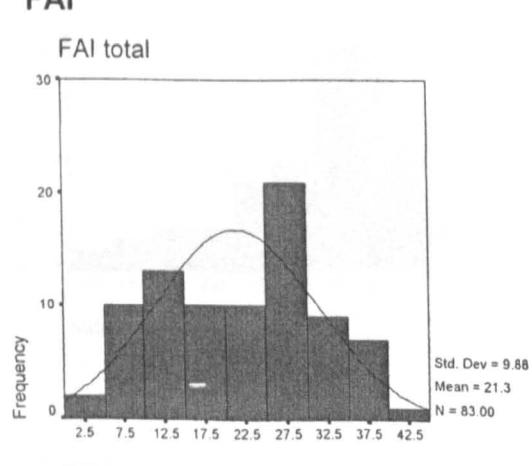
		ASHA-FACS	FAI	GHQ-12	SPM grade	SSS	PSI
N	Valid	83	83	83	82	83	82
	Missing	0	0	0	1	0	1
Mean		5.7783	21.34	8.86	2.61	3.6893	21.49
Median		5.9470	22.00	10.00	2.00	3.8947	22.00
Std. Deviation		.8900	9.88	3.17	.91	.9547	6.43
Range		3.96	38	12	4	3.89	32
Minimum		2.99	3	0	1	1.11	4
Maximum		6.95	41	12	5	5.00	36

Histograms

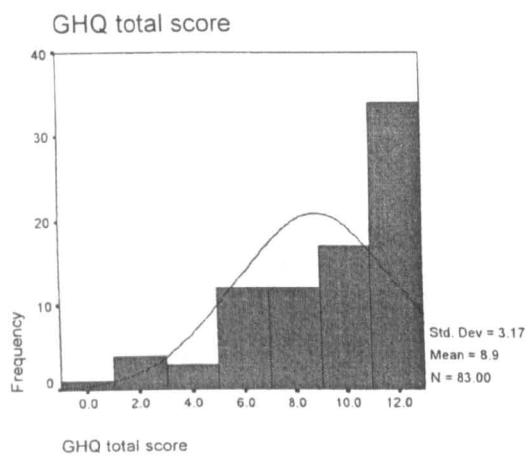
1. ASHA-FACS



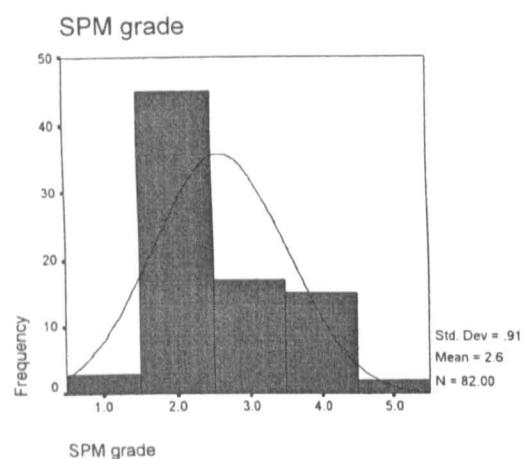
2. FAI



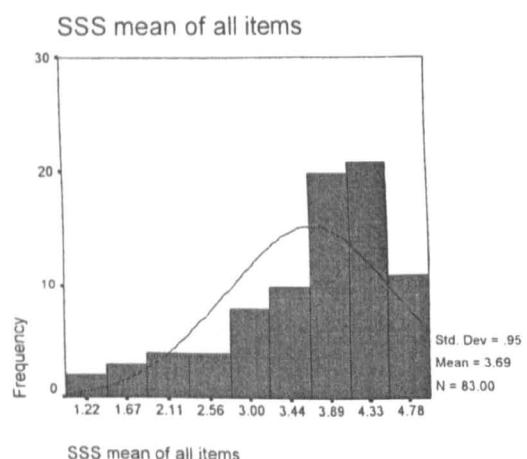
3. GHQ-12



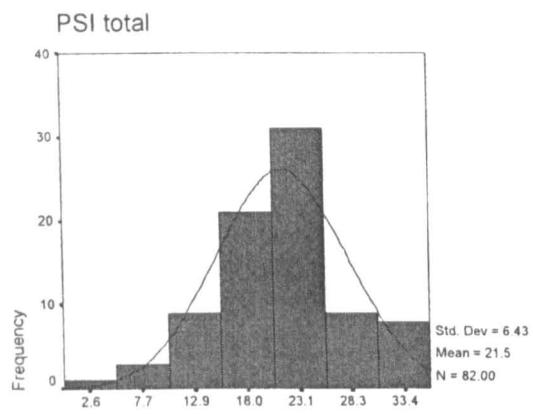
4. SPM grade



5. SSS



6. PSI



PSI total

Appendix 7.2: Summary of standard multiple regression analysis of the relation of HRQOL with correlated predictors.

Model Summary

Model	R	R ²	Adjusted R ²	Std. Error	Change Statistics			Durbin-Watson		
					R ² Change	F Change	df1	df2	Sig. F Change	
1	.746	.556	.514	.4881	.556	13.260	7	74	.000	2.092

a Predictors: (Constant), AGE, SSS, ASHA-FACS, COMORBIDITY, SPM grade, GHQ-12, FAI.

b Dependent Variable: SAQOL-39

ANOVA

Model		Sum of Squares	df	Mean Square	F	Sig.	Correlations		
							Zero-order	Partial	Semi-partial
1	Regression	22.113	7	3.159	13.260	.000			
	Residual	17.629	74	.238					
	Total	39.742	81						

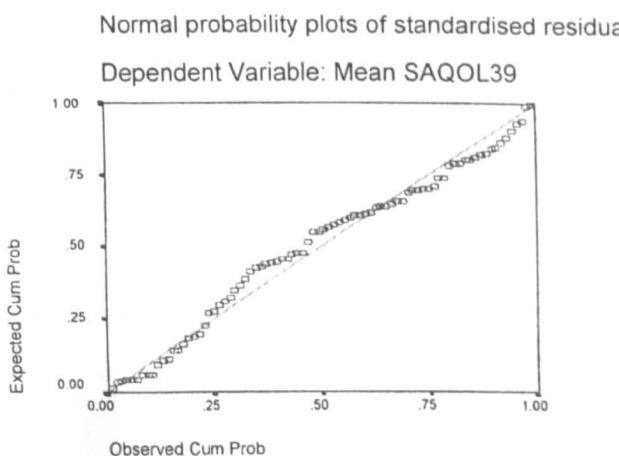
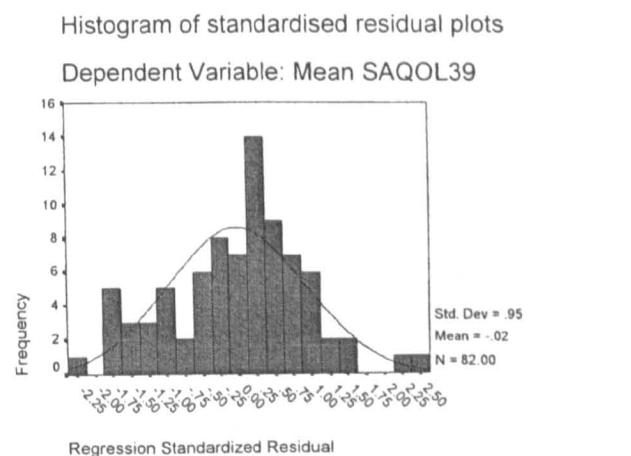
Coefficients

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	95% Confidence Interval for B		Collinearity Statistics			
		B	Std. Error				Lower Bound	Upper Bound	Zero-order	Partial	Semi-partial	VIF
	(Constant)	.632	.580	.1090	.279	.523	1.787					
	ASHA-FACS	.177	.082	.225	2.147	.035	.013	.341	.455	.242	.166	.547
	FAI	2.531E-02	.007	.357	3.515	.001	.011	.040	.584	.378	.272	.581
1	GHQ-12	7.823E-02	.021	.354	3.812	.000	.037	.119	.529	.405	.295	.696
	SPM grade	3.430E-02	.067	.045	.508	.613	-.100	.169	.270	.059	.039	.775
	SSS	4.563E-02	.065	.062	.707	.482	-.083	.174	.193	.082	.055	.774
	COMORB.	-.303	.122	-.214	-2.475	.016	-.546	-.059	-.295	-.276	-.192	.803
	AGE	4.869E-03	.004	.108	1.171	.245	-.003	.013	-.267	.135	.091	.710

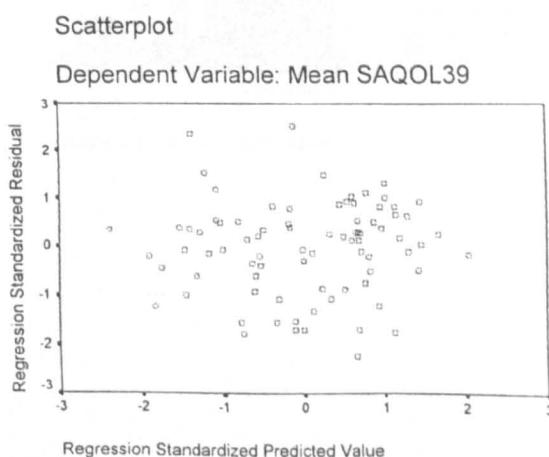
a Dependent Variable: SAQOL-39

Appendix 7.3: Tests for the assumptions of normality, linearity and homoscedasticity of residuals, of the standard multiple regression analysis of the relation of HRQOL with GHQ-12, FAI, ASHA-FACS, SSS, SPM grade and comorbidity predictors.

1. Normality



2. Homoscedasticity and linearity



Appendix 7.4: Multiple regression assumptions for 2nd standard multiple regression analysis of the relation of HRQOL with GHQ-12, FAI, ASHA-FACS and comorbidity predictors.

1. Cases to variables ratio

The cases to variables ratio was tested, using the formula $n \geq 50 + 8m$. There were 4 IVs (m) and $n = 83$, which meant that the desirable cases to variables ratio was met, as $83 > 82$.

2. Absence of outliers among IVs and on the DV

There were no outliers among IVs and on the DV:

- there were no particularly influential cases (maximum *Cook's distance* = .127, i.e., there were no values >1).
- the average leverage $((m+1)/n)$ (where m is the number of IVs) was 0.06 and the maximum *centered leverage* was .15 which is below $(3(m+1)/n)$ as recommended by Stevens (1992).
- using a $p < .001$ criterion for *Mahalanobis distance*, there were no multivariate outliers among the cases (max=12.268 < critical χ^2 for 4df at 18.476).

3. Absence of multicollinearity

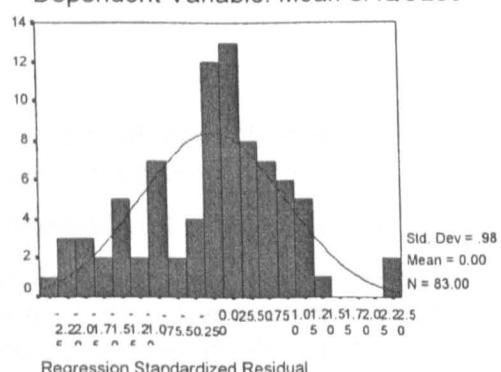
Multicollinearity among IVs was not a problem: all tolerance values were $>.2$ (Menard, 1995) and there were no inter-correlations between IV greater than .80.

4. Normality, linearity, homoscedasticity and independence of errors (residuals)

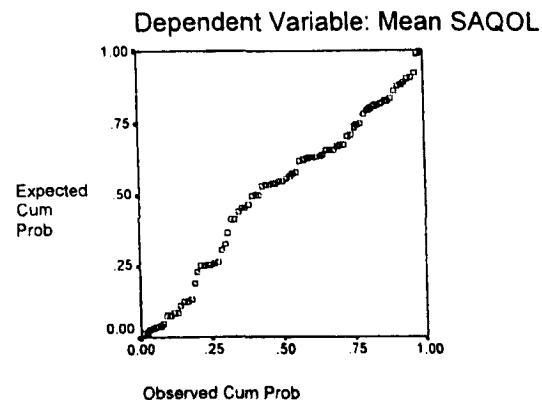
The histogram and the normal probability plot of the standardised residuals indicated that the residuals were normally distributed.

Histogram

Dependent Variable: Mean SAQOL39

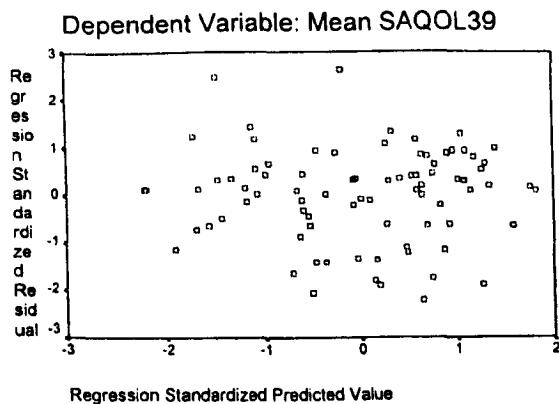


Normal Prob. Plot of Regr. Stand. Residual



The scatterplot of the standardised residuals versus the standardised predicted values of the DV suggested that the assumptions of homoscedasticity and linearity were met.

Scatterplot



The errors of prediction were independent of one another (*Durbin-Watson test of independence of errors = 2.04*).

5. Absence of outliers in the solution

Cases with standardised residuals greater than an absolute value of 2 were identified to see whether there were any outliers in the solution. Only 3 cases were found with standardised residuals greater than an absolute value of 2 (2.50, -2.25 and 2.35). The model was a good representation of the data as 96.34% of residuals were within ± 2 .

Appendix 7.5: Summary of 2nd standard multiple regression analysis of the relation of HRQOL with correlated predictors.

Model Summary		Change Statistics					Durbin-Watson			
Model	R	R ²	Adjusted R ²	Std. Error	R ² Change	F Change	df1	df2	Sig. F Change	
1	.738	.545	.522	.4844	.545	23.370	4	78	.000	2.037

a Predictors: (Constant), ASHA-FACS, COMORBIDITY, GHQ-12, FAI.

b Dependent Variable: SAQOL-39

ANOVA					
	Model	Sum of Squares	df	Mean Square	Sig.
1	Regression	21.933	4	5.483	.23.370 .000
	Residual	18.300	78	.235	
	Total	40.233	82		

Coefficients		Correlations					Collinearity Statistics				
Model		B	Std. Error	β			Lower Bound	Upper Bound	Zero-order	Partial	Semi-partial
1	(Constant)	1.172	.406	2.889	.005	.364	1.980				
	ASHA-FACS	.172	.075	.219	.025	.022	.322	.455	.251	.175	.637 1.570
	FAI	2.379E-02	.007	.336	.3399	.001	.010	.038	.584	.359	.260 .598 1.672
	GHQ-12	8.304E-02	.018	.375	.4.615	.000	.047	.119	.529	.463	.352 .881 1.135
	COMORB.	-.244	.112	-.173	-.2.183	.032	-.467	-.022	-.295	-.240	-.167 .934 1.071
	a Dependent Variable: SAQOL-39										