

ANNEXE ONE (The Original Research Proposal)

**Proposal for the Research Project
For
M.Sc. Applied Psychology (1996-1998) Part 2**

University Of Colombo

Research Title:

***A STUDY OF THE PSYCHOLOGICAL AND
PHYSICAL NEEDS OF THE AGED IN SRI
LANKA AND THE RELATIVE EXTENT TO
WHICH THEY ARE SATISFIED IN
DIFFERENT FORMS OF CARING FOR
THEM***



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Submitted by: D.C.H.Senarath
(95/M.Sc./APP/PSY/01)

Date of Submission: 07 March 1998

Proposed Supervisor: Professor (Mrs) Swarna Wijetunge

Proposal for the Research Project for M.Sc. in Applied Psychology

Title of Research: A Study of the Psychological and Physical needs of the aged in Sri Lanka and the relative extent to which they are satisfied in different forms of caring for them.

1.0 INTRODUCTION

1.1 Background Information

The population trends in Sri Lanka indicate a swing towards a large proportion of the aged (Rannan- Eliya et al., 1997). According to recent studies (De Silva, 1997), the median age of the population in Sri Lanka will increase from the current figure of 25 years to reach 30 years in 2005, 40 years in 2025, and continue rising until approaching 50 years by 2050. The percentage of the population aged over 60 years will increase from the current figure of 8 % to reach 13 % in 2010, and 21 % in 2025.

With the increase of the aged population, there arises an obvious need for the expansion of facilities to care for the aged. However, changes in social and employment structure over the past three decades indicate a significant decrease in the level of ability within the traditional framework to care for the elderly. The Sri Lankan society up to about nineteen seventies had a framework of extended family in which the aged to a very large extent lived with the families of their grown up children who regarded the looking after of their aged parents or grand parents or even uncles and aunts as their responsibility. The home-based life styles of society with the female spouse not doing a job out side the home made this arrangement possible. In most instances, the presence of the elderly in the home had a definite advantage as they made a useful contribution to the home by looking after the children and assisting in household chores, which also gave the aged the healthy feeling that they are useful and wanted.

Commencing around early nineteen seventies, several changes took place in the Sri Lankan society that made the above traditional arrangement of looking after the aged more and more difficult. The major factors that contributed to this situation, slowly at first and more rapidly later were the following:

(a) Emigration of the professionals to developed countries such as UK, USA, Canada, Australia and New Zealand leaving their parents behind in Sri Lanka as the latter often preferred to live in their familiar surroundings in Sri Lanka in their old age and also because the aged parent were considered as burdens in the new life styles in foreign countries.

(b) Awareness among young females and their parents that the females should pursue higher studies and engage in employment outside the home. This trend was strengthened by the economic need for both spouses of a family to be income earners and by the increased opportunities that became available for higher education.

(c) The open economic system which created a highly competitive society where it was felt that one's fulfilment as a person depended on the ability to achieve economic prosperity apart from making survival difficult unless all capable members of a family became income earners.

(d) Large numbers of people, particularly house wives and grown up girls going abroad temporarily for employment in foreign countries especially in the Middle East.

(e) The number of children per family decreasing , thereby increasing the burden per child in caring for the aged parents.

(f) A swing towards greater independence from parents on the part of children and changes in cultural values related to the respect paid to parents by their children tending to a lessening of the feeling of obligation of children to care for their parents in old age. These tendencies are in some way related to the swing away from the traditional agricultural land based economy of the middle-class Sri Lankan family, in which the land owned by the parents were passed on to the children and the children in turn felt morally obliged to care for the parents . In some instances, the parents donated their land to the children preserving life interest to ensure that the children fulfilled their obligation of caring for them. www.lib.mrt.ac.lk

The above factors have now developed a situation where on one side the proportion of the aged in the population is increasing and the ability of the society to care for the aged is decreasing. As some response to this situation, there has been a slow increase in the number and variety of Institutions to care for the aged (De Silva and Kotalawala, 1997). At present there are several forms of caring for the aged and it is reasonable to assume that further developments in this area will take place in the years to come. It is therefore pertinent to investigate the extent to which the needs of the aged are fulfilled. It was in this context that it was decided to propose the present research study.

1.2 Statement of the Problem

There is a perception emerging that those who approach old age have an anxiety as to how they are going to be cared for in their old age. Since the society is finding it increasingly difficult to care for the aged in the traditional home-based set up that satisfactorily looked after the problem up to about early nineteen seventies, the quality of caring for the aged and the level of contentment of the aged could be below satisfactory levels. This is suggested by the anxiety felt by those approaching old age.

The proposed study seeks to assess the level of contentment of the aged in being cared for. Specifically, the proposed research will attempt to find answers to the following:

- (a) What are the needs of the aged to achieve contentment within the natural limitations resulting from age-related frailties ?
- (b) To what extent are the needs fulfilled in different forms of looking after them ?
- (c) In what ways can changes be made to enhance the level of contentment ?

It is hoped that the outcome of the research can be used in organising further facilities to meet the increasing demands of caring for the aged in year to come.

The topic of the proposed research is formulated as follows:

' A Study of the Psychological and Physical needs of the aged in Sri Lanka and the relative levels of their fulfilment in different forms of caring for them. '

1.3 Literature Review

Some literature relevant to the proposed research has already been identified and accessed. *Population Projections for Sri Lanka: 1991 - 2041* by **W. Indralal De Silva (1997)** gives projected populations for different age groups from 1991 to 2041 in steps of 5 years. The results of three types of projections, low, standard, and high are given. Considering the 25 year period from 1996 to 2021, it is shown that the population of the aged (65 years and above) increases from 1,105,800 in 1996 to 2,766,300 on the standard projection, which represents an average increase of 66,420 per year. Considering the fact that the availability of care in the family home decreases depending on many factors, some of which are not foreseeable, the need for expansion of care giving facilities is clear.

Response to Population Ageing - A Review of International Experience by **Rannan-Eliya et al. (1997)** analyses the problem of ageing in Sri Lanka from an economic view point. Factors such as lowering of mortality rate, increasing life expectancy, and high fertility contribute to increase in population in general. However, reduction of fertility rate while achieving low mortality rates and high life expectancy through medical and technological advances promote an increase of the proportion of the aged. This has been the experience in Sri Lanka in recent decades and will be the future trend. Consequently, the ratio of wage earners to non wage earners (which includes pensioners) increases, thereby increasing the burden on care givers. Sri Lanka is ahead of many other countries in the region in reducing the fertility rate, leading to a high percentage of the aged.

Sri Lanka is ahead of many other countries in the region in reducing the fertility rate leading to a high percentage of the aged. Considering the number of years that are required for the share of the aged population to double from 7 % to 14 %, in most western advanced economies, this process took 45 to 135 years. In Japan and other Asian countries, it will take three or fewer decades. In Sri Lanka, this process will take only two decades. This trend (of reaching a high percentage of the aged) has many positive aspects such as stabilisation of the population . However, with regard to caring for the aged, it poses problems that must be given adequate consideration.

The Ageing in Sri Lanka: Misconceptions, Policies and Problems by P.D.A.Perera (1989) gives an analysis of the *current* status of the following areas related to the aged in Sri Lanka:

(a) Health Care

(b) Family Care; training of care givers in the family; relief for care givers; allowances or honorarium for care givers.

(c) Institutional Care; administration; environment; introduction of creative and productive activities; health facilities.

(d) Employment of the aged.

(e) Education of the aged.

Emerging Issues of Ageing in Sri Lanka; Elders and their Resident Primary Care Providers by P.D.A. Perera (1988) describes the results of a study done with a sample of 317 elders (persons over 59 years) and 179 resident primary care providers. In the case of elders, the study has focussed on the following areas:

(a) Profiles of the respondents; household information; economic profile and income.

(b) Facilities available; housing; water supply and sanitation; health.

(c) Activities and support available; daily living activities; living support; family relations; leisure and social activities.

(d) Opinions, attitudes, and perceptions (of the respondents).

In the case of Resident Primary Care Providers (RPCPs), the study has focussed on the following areas:

(a) Economic characteristics.



- (b) Role of RPCPs.
- (c) Relationship with the elderly person.
- (d) Opinions, attitudes and perceptions.

Ageing in Sri Lanka with Special Reference to Women by Wimala De Silva and Elsie Kotalawala (1997) relates to a study involving ten elders' homes; two day centres; and elders cared for in their own homes from seven locations. The study was focussed on female elders and has covered the following areas:

- (a) Economic status/educational levels of the aged and the care givers.
- (b) Gender differences
- (c) Institutional care.
- (d) Community care.

Further literature relevant to the study will be searched and analysed.

2.0 OBJECTIVES OF THE RESEARCH

2.1 General Objectives

The general objectives of the study are:

- (i) To identify the gap that exists between the expectations of the aged with regard to their Psychological and Physical needs and the present reality with regards to these.
- (ii) To assess the factors that are causing this gap to exist.
- (iii) To identify measures that could be taken to reduce the gap so that the degree of contentment of the aged is enhanced.

2.2 Specific Objectives

The specific objectives of the study are:

- (i) To identify the Psychological and Physical needs of the aged as perceived by different categories of the aged and others connected with them and to analyse these to ascertain to what extent they are realistic.
- (ii) To identify to what extent the needs are satisfied in different situations.

- (iii) To identify the factors that prevent the satisfaction of the needs.
- (iv) To identify measures that are being taken to enhance the welfare of the aged.
- (v) To identify steps that will help to increase the level of contentment of the aged.

3.0 RELEVANCE OF THE STUDY

The need for suitable arrangements to care for the aged has existed from the beginning of civilisation. However, the changing social patterns caused by economic and other factors such as changes in political systems, wars, and natural disasters have disturbed the most natural and traditional form of caring for the aged namely, the system in which the aged were cared for in families of their children. In industrialised countries such as those in Europe, a dramatic change took place with industrialisation since the industrialised society could not cope with the traditional form of caring for the aged in the family home. In these countries, a system emerged where the aged were cared for in Institutions (Homes for Elders) or in their own homes, where they lived by themselves separated from their children's families but were visited regularly by trained workers appointed by the state. Even though this system has many shortcomings, it satisfies the basic needs such as food and shelter, medical care and mobility and over a period of time, the society got used to this system. Those approaching old age condition themselves to accept this system.

In Sri Lanka, the need for care for the aged on a large scale outside the family home or without the continuous presence of family members is a new development that emerged within the past three decades as a result of the social and economic changes described earlier. Although there were Homes for the Aged dating back to several decades, they were, in general regarded as places to which the aged had to go as a last resort when they were not looked after by their children or they had no children of their own, or close relatives to look after them. In fact, the children who sent their aged parents to Homes were often looked down upon by the society as they were considered to be shirking their responsibility towards their parents. No serious attempt has so far been made by the state to face this problem satisfactorily, perhaps because the political influence of the aged is insignificant. There are a few homes for the elders of various types run by the state, religious organisations and by other Non Governmental Organisations (NGOs). In recent times, there has also been interest shown by Commercial Organisations to provide facilities for caring of the aged in the form of villages for the aged where living accommodation in the form of villas or flats and common facilities for meals, laundry, recreation, medical care and religious practices are provided. In this context, there is a need to assess to what extent the needs of the aged are satisfied in different types of presently available Institutions and in situations where the aged live in family homes. Such assessment will provide useful information for improvements in the future. A study of this nature can be done

objectively in relation to the physical needs assessed from the point of view of those connected with providing physical care for the aged such as medical personnel and nutritionists or subjectively from the point of view of the aged themselves. The present study is aimed at enhancing the level of contentment of the aged. Therefore, the emphasis in the present study will be the latter.

4.0 VARIABLES RELEVANT TO THE STUDY

The following variables have been identified as the factors that could be taken as the needs of the aged. The list will be revised on the basis of responses and published information as the research progresses.

4.1 Physical Needs

- (a) Housing and accommodation
- (b) Nutrition
- (c) Clothing
- (d) Medical care
- (e) Physical exercise and recreation
- (f) Rest and sleep
- (g) Sanitary facilities (bathing & washing , toilet, laundry etc.)
- (h) Contact with the outside world - communication - mobility - transport
- (i) Literary and intellectual pursuits
- (j) Facilities to encounter physical disabilities

4.2 Psychological Needs

- (a) Security (about the future, and present security against harm, pain or inconvenience)
- (b) Feeling wanted and useful
- (c) Affection, kindness and warmth
- (d) Companionship
- (e) Opportunity for self-expression ; to be heard

- (f) Appreciation and gratitude
- (g) Harmonious surrounding
- (h) Association with loved ones
- (i) Opportunity to exercise religious beliefs

5.0 METHODOLOGY

5.1 Sources of Information

The data for the study will be obtained from the following sources:

- (i) Past studies relevant to the subject which have been published.
- (ii) State officials connected with the welfare of the aged such as officers of the Social Services Department.
- (iii) Administrators and officials of organisations providing Institutions to care for the aged.
- (iv) Inmates of various types of Institutions for the Aged.
- (v) The aged who live in their own homes or those of their children or other relatives by themselves or with others.

5.2 Methods of collecting Data and Sampling

Collection of information from officials, administrators and others involved with the organisation and provision of care for the aged will be by open-ended interview with pre preparation of the scope of interview.

Collection of data from the aged will be through a questionnaire supplemented by interview. In the case of some of the respondents, it is envisaged that assistance will be needed in filling the questionnaire. The total number of the aged to be covered will be limited to about sixty in view of the limited length of time envisaged to be utilised for the research. The sample of the aged will include approximately equal numbers of males and females but in view of the small size of the total sample, those below 75 years will be excluded. For the same reason, the study will be limited to one band of socio-economic class, namely those of the middle middle-class. In approximate terms, for the purpose of this study, this class is regarded as those whose family income when they were income earners was in the range Rs. 7500.00 to Rs. 25000.00 in term

of the currency value prevailing at present (March 1998). The following types of residences will be included in the sample:

- (i) Institutions run by the State
- (ii) Institutions run by Religious and other Non Governmental Organisations
- (iii) Family homes

6.0 WORK PLAN

The tentative timeframe for the completion of the project is nine months from 01 March 1998. The breakdown of the time target is as follows:

| | |
|--|----------|
| (a) Literature Survey | 02 Weeks |
| (b) Preparation of questionnaire & Interview outline..... | 02 Weeks |
| (c) Collection of information from officials.... | 04 Weeks |
| (d) Collection of information from the aged..... | 12 Weeks |
| (e) Data analysis..... | 04 Weeks |
| (f) Preparation of Report..... | 12 Weeks |

Some of the above activities are expected to proceed concurrently so that there will be some flexibility in the above schedule.

The target date for the final submission of the dissertation is 31 December 1998.

References:

1. De Silva, W. and E. Kotalawala; *Ageing in Sri Lanka with special references to women*; Publication of Centre for Women's Research, Sri Lanka, March 1997.
2. De Silva, W.I.; *Population Projection for Sri Lanka; 1991 - 2041*; Publication of Institute of Policy Studies, Sri Lanka; 1997.

3. Perera, P.D.A.; *Emerging Issues of Ageing in Sri Lanka; Elders and their Primary Care Providers*; Publication of Marga Institute, Sri Lanka; July 1988.

4. Perera, P.D.A.; *The Ageing in Sri Lanka: Misconceptions, Policies and Programmes*; Publication of Marga Institute, Sri Lanka; March 1989.

5. Rannan - Eliya, P., N. De Mel, E. Ramachandran and D. Senagama; *Response to Population Ageing - A review of International Experience*; Publication of Institute of Policy Planning, Sri Lanka; December 1997.

Note: The above list of references will be expanded to include Sri Lankan and International Literature relevant to the subject.



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**SURVEY OF THE LEVEL OF FULFILMENT
OF THE NEEDS OF THE AGED**

C O N F I D E N T I A L

Please furnish the information requested below, for the purpose of a research study.

1 Name :

2 Male or female: Male / Female

3 Marital Status:

(a) Married / Unmarried

(b) Spouse is: living /not living / not relevant



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(c) Spouse is: living with you / not living with you / not relevant

4 Age (Years):

5 Type of residence: Own home /Home of son or daughter / Home of other relation/ Religious institution/ State Institution / Non religious institution not run by the state/ Any other institution (state the type)

.....
.....
.....

6 Arrangement for payment of fees:

Living with own money /No payment at all/
Fixed regular payment (describe)

.....

Voluntary payment (describe)

.....

Any other (describe)

.....

7 Number of children living:

Males: Married - In Sri Lanka.....

Abroad.....

Unmarried - In Sri Lanka.....



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Abroad.....

Females: Married - In Sri Lanka.....

Abroad.....

Unmarried - In Sri Lanka.....

Abroad.....

8 Present state of general health:

Very poor / Poor / Fair/ Good/
Very good

8.1 Eye sight (for normal activities):

Nil /Very poor / Poor / Fair/
Good/ Very good

8.2 Eye sight (for reading):

Nil /Very poor / Poor / Fair /
Good/ Very good

8.3 Hearing: Nil /Very poor / Poor / Fair/
Good/ Very good

8.4 Ability to walk: Nil /Very poor / Poor / Fair/
Good/ Very good

8.5 Ability to attend to personal daily routine:
Nil /Very poor / Poor / Fair/
Good/ Very good

9 Present state of mental alertness: Very poor / Poor / Fair / Good/
Very good

10 How would you assess the current fulfilment of your physical needs in relation to the following, compared to your reasonable expectation for contentment:

10.1 *Housing and accommodation:*  University of Moratuwa, Sri Lanka.
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Very poor/ Poor/ Fair/ Good/
Very good

10.2 *Food and nutrition:*
Very poor/ Poor/ Fair/ Good/
Very good

10.3 *Clothing:*
Very poor/ Poor/ Fair/ Good/
Very good

10.4 *Medical care*
Very poor/ Poor/ Fair/ Good/
Very good

10.5 *Physical exercise and recreation*
Very poor/ Poor/ Fair/ Good/
Very good

10.6 Rest and sleep

Very poor/ Poor/ Fair/ Good/
Very good

10.7 Sanitary facilities (bathing & washing, toilet, laundry etc.)

Very poor/ Poor/ Fair/ Good/
Very good

10.8 Contact with the outside world - communication - mobility - transport

Very poor/ Poor/ Fair/ Good/
Very good

10.10 Opportunity for literary and intellectual pursuits

Very poor/ Poor/ Fair/ Good/
Very good /Not relevant



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10.11 Facilities to encounter physical disabilities (spectacles, hearing aids, walkers etc.)

Very poor/ Poor/ Fair/ Good/
Very good
Not relevant

11 How would you assess the current fulfilment of your psychological needs in relation to the following, compared to your reasonable expectation for contentment:

11.1 Security about the future care

Very poor/ Poor/ Fair/ Good/
Very good

11.2 *Security at present about harm, injury, loss of material possessions*

Very poor/ Poor/ Fair/ Good/
Very good

11.3 *Feeling wanted and useful*

Very poor/ Poor/ Fair/ Good/
Very good

11.4 *Receiving of affection, kindness and warmth*

Very poor/ Poor/ Fair/ Good/
Very good

11.5 *Companionship*

Very poor/ Poor/ Fair/ Good/
Very good

11.6 *Opportunity for self-expression (sing, dance, write, engage in hobbies etc.)*

Very poor/ Poor/ Fair/ Good/
Very good
Not relevant

11.7 *Opportunity to be heard*

Very poor/ Poor/ Fair/ Good/
Very good

11.8 *Receiving of appreciation and gratitude*

Very poor/ Poor/ Fair/ Good/
Very good

11.9 *Harmonious surrounding*

Very poor/ Poor/ Fair/ Good/
Very good

11.10 Association with loved ones

Very poor/ Poor/ Fair/ Good/
Very good

11.11 Opportunity to exercise religious beliefs

Very poor/ Poor/ Fair/ Good/
Very good/Not relevant

12.0 How would you assess the current fulfilment of any other needs compared to your reasonable expectation with regard to these for contentment:

(Please specify the needs and indicate the level of fulfilment on the scale- Very poor/ Poor/ Fair/ Good/ Very good)

Thank you.

Professor D.C.H.Senarath,
University Of Moratuwa,
31 March 1998

.....

ANNEXE THREE

(Questionnaire No.2)

**SURVEY OF NEEDS AND NEEDS SATISFACTION OF THE AGED
IN INSTITUTIONAL CARE**

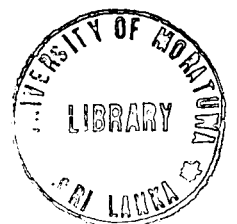
- (a) Name of interviewer: (b) Date of Survey:
- (c) Name of the institution:
- (d) Name of respondent:
- (e) Age (Yrs): (f) Male/Female (g) Married/Unmarried
- (h) Spouse living/not living/divorced (i) No. of children (total):
- (j) No. of sons: living in Sri Lanka... .. living abroad... ..
- (k) No. of daughters: living in Sri Lanka... .. living abroad... ..
- (l) Present state of general health: very poor/poor /good/very good
- (m) Ability to walk: nil/very poor/poor /good/very good
- (n) Ability to attend to personal daily routine: nil/very poor/poor /good/very good
- (o) Hearing: nil/very poor/poor /good/very good
- (p) Eye sight (for reading): nil/very poor/poor/good/very good
- (q) Eye sight (for normal activities): nil/very poor/poor/good/very good
- (r) Mental alertness: very poor/poor/good/very good
- (s) Any physical disabilities?:... ..
- (s) Any other relevant personal information... ..
-

PHYSICAL NEEDS

1. Quality of accommodation
2. Quality of food
3. Special diets (for diabetics etc.)
4. Medical care
5. Facilities to see a doctor when necessary
6. Facilities to get medicine
7. Organised physical exercise
8. Organised recreation
9. Facility to rest
10. Undisturbed sleep
11. Facility to get mosquito nets or coils
12. Facilities for bathing, washing etc.
13. Facilities for warm water
14. Facilities to get soap, tooth paste etc.
15. Laundry facilities
16. Assistance to visit toilet, bathe etc.
17. Pocket money for sundry purchases etc.
18. Facilities to read news papers, books, etc.
19. TV & radio facilities
20. Facilities to get spectacles
21. Facilities to get dentures
22. Facilities to get other equipment like hearing aids to overcome physical disabilities

PSYCHOLOGICAL NEEDS

23. Communication with relations and friends
24. To visit relations and friends
25. To be visited by relations and/or friends
26. To be visited by well-wishers
27. Facilities for picnics, outings etc.
28. Facilities for social functions at the home
29. Facilities to attend social functions of relatives and/or friends outside
30. Security about care in the future
31. Security about physical harm
32. To be wanted by others
33. To be useful to others
34. To receive affection
35. To express self by art, music, needlework, making things etc.
36. To be listened to by others
37. To receive appreciation
38. To receive gratitude



- 39. Peaceful surrounding
- 40. Opportunity to exercise religious practices
- 41. Any other needs
 - (a)
 - (b)
 - (c)
 - (d)


Additional comments (if any)

PHYSICAL NEEDS

| Need Category Number | Perceived Level Of Importance | | | | | Present Level Of Provision | | | | |
|----------------------|-------------------------------|---|---|---|---|----------------------------|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 |
| 1 | | | | | | | | | | |
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| 20 | | | | | | | | | | |
| 21 | | | | | | | | | | |
| 22 | | | | | | | | | | |

PSYCHOLOGICAL NEEDS

| Need Category Number | Perceived Level Of Importance | | | | | Present level Of Provision | | | | |
|----------------------|-------------------------------|---|---|---|---|----------------------------|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 |
| 23 | | | | | | | | | | |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | |
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| 37 | | | | | | | | | | |
| 38 | | | | | | | | | | |
| 29 | | | | | | | | | | |
| 40 | | | | | | | | | | |
| 41(a) | | | | | | | | | | |
| 41(b) | | | | | | | | | | |
| 41(c) | | | | | | | | | | |
| 41(d) | | | | | | | | | | |


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Key to Marking of responses

| Cage Number | 1 | 2 | 3 | 4 | 5 |
|-------------------------------|----------------------|---------------|-----------|-----------|----------------|
| Perceived Level Of Importance | Not important at all | Not important | Undecided | Important | Very important |
| Present Level Of Provision | Very poor | Poor | Fair | Good | Very good |

Please tick off thus: ✓ in one cage from cages 1 to 5 in each of the sections, perceived level of importance and present level of provision



ANNEXE FOUR Summary of Responses to Questionnaire No.2

The figures relate to the scores of individual responses to questionnaire 2 on the scale 1 to 5 in the direction negative to positive. The numbers at the left margin are those allocated to the different items in Questionnaire 2 (Appendix 3). MS Excel Spread sheet, into which the complete data collected from Questionnaire 3 were fed, generated the summary.

| Perceived level of importance | Average for females in descending order |
|--------------------------------------|--|
| <u>Physical Needs</u> | |
| 6.facilities to see a doctor | 3.829 |
| 4.medical care | 3.800 |
| 18.pocket money | 3.784 |
| 11.sleep | 3.771 |
| 15.soap, tooth paste etc. | 3.757 |
| 7.facilities for medicine | 3.750 |
| 10.rest | 3.750 |
| 13.Facilities for bathing/washing | 3.667 |
| 1. quality of accommodation | 3.622 |
| 21.spectacles | 3.568 |
| 12.Facility for mosquito nets/coils | 3.556 |
| 2.quality of food | 3.405 |
| 14.warm water | 3.314 |
| 16.laundry | 3.216 |
| 19.news papers etc. | 3.054 |
| 20.t.v., radio etc. | 2.946 |
| 3.special diets | 2.892 |
| 9.recreation | 2.861 |
| 17assistance for toilet etc. | 2.811 |
| 8.physical exercise | 2.800 |
| 22.dentures | 2.703 |
| 23.hearing aids etc. | 2.622 |



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Psychological Needs

| | |
|--------------------------------------|-------|
| 43.exercise religious practices | 4.111 |
| 27.to be visited by well-wishers | 4.000 |
| 40.to receive gratitude | 4.000 |
| 35.to receive affection | 3.861 |
| 39.to receive appreciation | 3.861 |
| 37.to be listened to | 3.800 |
| 42.peaceful surrounding | 3.657 |
| 24.communication with relations etc. | 3.639 |
| 28.picnics, outings etc. | 3.639 |
| 36.to express self | 3.583 |
| 26.to be visited by relations etc. | 3.556 |
| 29.social functions at the home | 3.528 |
| 25.to visit relations etc. | 3.500 |
| 33.to be wanted by others | 3.444 |
| 34.to be useful | 3.444 |
| 32.security about physical harm | 3.371 |
| 30.social functions outside | 3.028 |
| 31.security about care in the future | 2.971 |

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Average for females in descending Order

Present level of provision

Physical Needs

| | |
|-------------------------------------|-------|
| 13.Facilities for bathing/washing | 4.588 |
| 10.rest | 4.382 |
| 1. quality of accommodation | 4.314 |
| 14.warm water | 4.235 |
| 17assistance for toilet etc. | 4.229 |
| 12.Facility for mosquito nets/coils | 4.206 |
| 2.quality of food | 4.200 |
| 15.soap, tooth paste etc. | 4.200 |
| 4.medical care | 4.118 |
| 6.facilities to see a doctor | 4.088 |
| 11.sleep | 4.088 |
| 16.laundry | 4.086 |
| 7.facilities for medicine | 4.059 |
| 19.news papers etc. | 4.029 |
| 20.t.v., radio etc. | 3.971 |
| 3.special diets | 3.743 |
| 8.physical exercise | 3.647 |

| | |
|----------------------|-------|
| 9.recreation | 3.471 |
| 18.pocket money | 3.229 |
| 21.spectacles | 2.971 |
| 22.dentures | 2.543 |
| 23.hearing aids etc. | 2.400 |

Psychological Needs

| | |
|--------------------------------------|-------|
| 43.exercise religious practices | 4.229 |
| 27.to be visited by well-wishers | 4.114 |
| 32.security about physical harm | 4.086 |
| 26.to be visited by relations etc. | 4.059 |
| 29.social functions at the home | 4.029 |
| 31.security about care in the future | 4.029 |
| 42.peaceful surrounding | 3.971 |
| 36.to express self | 3.943 |
| 24.communication with relations etc. | 3.914 |
| 39.to receive appreciation | 3.576 |
| 28.picnics, outings etc. | 3.514 |
| 35.to receive affection | 3.514 |
| 34.to be useful | 3.486 |
| 25.to visit relations etc. | 3.457 |
| 33.to be wanted by others | 3.429 |
| 40.to receive gratitude | 3.429 |
| 30.social functions outside | 3.371 |
| 37.to be listened to | 3.229 |

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Perceived level of importance

Physical Needs

| | |
|-------------------------------------|-------|
| 10.rest | 3.971 |
| 18.pocket money | 3.882 |
| 11.sleep | 3.853 |
| 15.soap, tooth paste etc. | 3.853 |
| 12.Facility for mosquito nets/coils | 3.765 |
| 13.Facilities for bathing/washing | 3.765 |
| 7.facilities for medicine | 3.706 |
| 6.facilities to see a doctor | 3.618 |
| 1. quality of accommodation | 3.600 |
| 4.medical care | 3.588 |
| 16.laundry | 3.441 |

Average for males in descending Order

| | |
|------------------------------|-------|
| 21.spectacles | 3.441 |
| 2.quality of food | 3.400 |
| 19.news papers etc. | 3.382 |
| 20.t.v., radio etc. | 3.265 |
| 14.warm water | 3.235 |
| 8.physical exercise | 3.000 |
| 3.special diets | 2.914 |
| 23.hearing aids etc. | 2.676 |
| 17assistance for toilet etc. | 2.618 |
| 9.recreation | 2.559 |
| 22.dentures | 2.441 |

Psychological Needs

| | |
|--------------------------------------|-------|
| 43.exercise religious practices | 4.000 |
| 27.to be visited by well-wishers | 3.912 |
| 42.peaceful surrounding | 3.912 |
| 28.picnics, outings etc. | 3.618 |
| 24.communication with relations etc. | 3.559 |
| 37.to be listened to | 3.500 |
| 29.social functions at the home | 3.471 |
| 35.to receive affection | 3.382 |
| 39.to receive appreciation | 3.324 |
| 25.to visit relations etc. | 3.294 |
| 26.to be visited by relations etc. | 3.294 |
| 40.to receive gratitude | 3.294 |
| 36.to express self | 3.235 |
| 33.to be wanted by others | 3.147 |
| 34.to be useful | 3.118 |
| 32.security about physical harm | 2.882 |
| 30.social functions outside | 2.824 |
| 31.security about care in the future | 2.471 |


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| Present level of provision | Average for males in descending Order |
|-------------------------------------|--|
| <u>Physical Needs</u> | |
| 12.Facility for mosquito nets/coils | 4.559 |
| 13.Facilities for bathing/washing | 4.471 |
| 1. quality of accommodation | 4.314 |
| 20.t.v., radio etc. | 4.294 |
| 10.rest | 4.265 |
| 11.sleep | 4.235 |
| 4.medical care | 4.206 |

| | |
|-------------------------------|-------|
| 14.warm water | 4.176 |
| 19.news papers etc. | 4.147 |
| 2.quality of food | 4.143 |
| 16.laundry | 4.059 |
| 17.assistance for toilet etc. | 4.000 |
| 6.facilities to see a doctor | 3.912 |
| 7.facilities for medicine | 3.853 |
| 15.soap, tooth paste etc. | 3.735 |
| 3.special diets | 3.571 |
| 18.pocket money | 3.471 |
| 8.physical exercise | 3.382 |
| 9.recreation | 3.176 |
| 21.spectacles | 3.176 |
| 22.dentures | 2.912 |
| 23.hearing aids etc. | 2.382 |

Psychological Needs

| | |
|--------------------------------------|-------|
| 43.exercise religious practices | 4.559 |
| 42.peaceful surrounding | 4.147 |
| 27.to be visited by well-wishers | 4.118 |
| 32.security about physical harm | 4.000 |
| 26.to be visited by relations etc. | 3.941 |
| 25.to visit relations etc. | 3.765 |
| 30.social functions outside | 3.765 |
| 36.to express self | 3.765 |
| 39.to receive appreciation | 3.765 |
| 24.communication with relations etc. | 3.735 |
| 31.security about care in the future | 3.735 |
| 37.to be listened to | 3.735 |
| 28.picnics, outings etc. | 3.706 |
| 29.social functions at the home | 3.706 |
| 33.to be wanted by others | 3.676 |
| 34.to be useful | 3.676 |
| 35.to receive affection | 3.559 |
| 40.to receive gratitude | 3.559 |

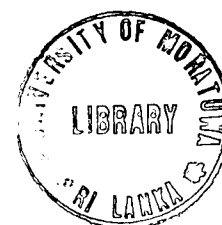
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Perceived level of importance

Physical Needs

| | |
|---------------------------|-------|
| 10.rest | 3.857 |
| 18.pocket money | 3.831 |
| 11.sleep | 3.812 |
| 15.soap, tooth paste etc. | 3.803 |

Average for all in descending order



| | |
|-------------------------------------|-------|
| 7.facilities for medicine | 3.729 |
| 6.facilities to see a doctor | 3.725 |
| 13.Facilities for bathing/washing | 3.714 |
| 4.medical care | 3.696 |
| 12.Facility for mosquito nets/coils | 3.657 |
| 1. quality of accommodation | 3.611 |
| 21.spectacles | 3.507 |
| 2.quality of food | 3.403 |
| 16.laundry | 3.324 |
| 14.warm water | 3.275 |
| 19.news papers etc. | 3.211 |
| 20.t.v., radio etc. | 3.099 |
| 3.special diets | 2.903 |
| 8.physical exercise | 2.899 |
| 17assistance for toilet etc. | 2.718 |
| 9.recreation | 2.714 |
| 23.hearing aids etc. | 2.648 |
| 22.dentures | 2.577 |

Psychological Needs

| | |
|--------------------------------------|-------|
| 43.exercise religious practices | 4.057 |
| 27.to be visited by well-wishers | 3.957 |
| 42.peaceful surrounding | 3.783 |
| 40.to receive gratitude | 3.657 |
| 37.to be listened to | 3.652 |
| 28.picnics, outings etc. | 3.629 |
| 35.to receive affection | 3.629 |
| 24.communication with relations etc. | 3.600 |
| 39.to receive appreciation | 3.600 |
| 29.social functions at the home | 3.500 |
| 26.to be visited by relations etc. | 3.429 |
| 36.to express self | 3.414 |
| 25.to visit relations etc. | 3.400 |
| 33.to be wanted by others | 3.300 |
| 34.to be useful | 3.286 |
| 32.security about physical harm | 3.130 |
| 30.social functions outside | 2.929 |
| 31.security about care in the future | 2.725 |

| Present level of provision | Average for all in descending Order |
|--------------------------------------|--|
| <u>Physical Needs</u> | |
| 13.Facilities for bathing/washing | 4.529 |
| 12.Facility for mosquito nets/coils | 4.382 |
| 10.rest | 4.324 |
| 1. quality of accommodation | 4.314 |
| 14.warm water | 4.206 |
| 2.quality of food | 4.171 |
| 4.medical care | 4.162 |
| 11.sleep | 4.162 |
| 20.t.v., radio etc. | 4.130 |
| 17assistance for toilet etc. | 4.116 |
| 19.news papers etc. | 4.087 |
| 16.laundry | 4.072 |
| 6.facilities to see a doctor | 4.000 |
| 15.soap, tooth paste etc. | 3.971 |
| 7.facilities for medicine | 3.956 |
| 3.special diets | 3.657 |
| 8.physical exercise | 3.515 |
| 18.pocket money | 3.348 |
| 9.recreation | 3.324 |
| 21.spectacles | 3.072 |
| 22.dentures | 2.725 |
| 23.hearing aids etc. | 2.391 |
| <u>Psychological Needs</u> | |
| 43.exercise religious practices | 4.391 |
| 27.to be visited by well wishers | 4.116 |
| 42.peaceful surrounding | 4.058 |
| 32.security about physical harm | 4.043 |
| 26.to be visited by relations etc. | 4.000 |
| 31.security about care in the future | 3.884 |
| 29.social functions at the home | 3.870 |
| 36.to express self | 3.855 |
| 24.communication with relations etc. | 3.826 |
| 39.to receive appreciation | 3.672 |
| 25.to visit relations etc. | 3.609 |
| 28.picnics, outings etc. | 3.609 |
| 34.to be useful | 3.580 |
| 30.social functions outside | 3.565 |
| 33.to be wanted by others | 3.551 |



| | |
|-------------------------|-------|
| 35.to receive affection | 3.536 |
| 40.to receive gratitude | 3.493 |
| 37.to be listened to | 3.478 |

**Std. Dev. For Females in
ascending
Order**

Perceived level of importance

Physical Needs

| | |
|-------------------------------------|-------|
| 6.facilities to see a doctor | 0.910 |
| 4.medical care | 0.920 |
| 7.facilities for medicine | 0.924 |
| 15.soap, tooth paste etc. | 0.970 |
| 18.pocket money | 1.017 |
| 2.quality of food | 1.026 |
| 21.spectacles | 1.128 |
| 1. quality of accommodation | 1.147 |
| 9.recreation | 1.182 |
| 10.rest | 1.187 |
| 12.Facility for mosquito nets/coils | 1.189 |
| 23.hearing aids etc. | 1.193 |
| 11.sleep | 1.197 |
| 13.Facilities for bathing/washing | 1.202 |
| 3.special diets | 1.203 |
| 20.t.v., radio etc. | 1.229 |
| 16.laundry | 1.233 |
| 22.dentures | 1.271 |
| 19.news papers etc. | 1.314 |
| 14.warm water | 1.326 |
| 17assistance for toilet etc. | 1.332 |
| 8.physical exercise | 1.369 |

Psychological Needs

| | |
|------------------------------------|-------|
| 40.to receive gratitude | 0.408 |
| 39.to receive appreciation | 0.713 |
| 27.to be visited by well wishers | 0.913 |
| 37.to be listened to | 0.950 |
| 29.social functions at the home | 0.957 |
| 33.to be wanted by others | 0.984 |
| 35.to receive affection | 1.032 |
| 34.to be useful | 1.066 |
| 43.exercise religious practices | 1.074 |
| 28.picnics, outings etc. | 1.084 |
| 26.to be visited by relations etc. | 1.091 |

| | |
|--------------------------------------|-------|
| 36.to express self | 1.115 |
| 42.peaceful surrounding | 1.145 |
| 31.security about care in the future | 1.158 |
| 32.security about physical harm | 1.221 |
| 24.communication with relations etc. | 1.228 |
| 30.social functions outside | 1.236 |
| 25.to visit relations etc. | 1.280 |

**Std. Dev. for Females in
ascending
Order**

Present level of provision

Physical Needs

| | |
|-------------------------------------|-------|
| 13.Facilities for bathing/washing | 0.492 |
| 4.medical care | 0.631 |
| 10.rest | 0.642 |
| 1. quality of accommodation | 0.666 |
| 17assistance for toilet etc. | 0.721 |
| 6.facilities to see a doctor | 0.742 |
| 15.soap, tooth paste etc. | 0.748 |
| 11.sleep | 0.781 |
| 2.quality of food | 0.786 |
| 7.facilities for medicine | 0.802 |
| 3.special diets | 0.840 |
| 14.warm water | 0.909 |
| 16.laundry | 0.937 |
| 23.hearing aids etc. | 0.962 |
| 12.Facility for mosquito nets/coils | 0.963 |
| 19.news papers etc. | 1.000 |
| 22.dentures | 1.024 |
| 20.t.v., radio etc. | 1.028 |
| 21.spectacles | 1.108 |
| 9.recreation | 1.169 |
| 8.physical exercise | 1.185 |
| 18.pocket money | 1.333 |

Psychological Needs

| | |
|--------------------------------------|-------|
| 34.to be useful | 0.649 |
| 31.security about care in the future | 0.654 |
| 33.to be wanted by others | 0.688 |

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| | |
|--------------------------------------|-------|
| 27.to be visited by well wishers | 0.708 |
| 26.to be visited by relations etc. | 0.725 |
| 29.social functions at the home | 0.736 |
| 32.security about physical harm | 0.770 |
| 39.to receive appreciation | 0.818 |
| 36.to express self | 0.860 |
| 40.to receive gratitude | 0.871 |
| 42.peaceful surrounding | 0.878 |
| 24.communication with relations etc. | 0.937 |
| 28.picnics, outings etc. | 0.967 |
| 35.to receive affection | 0.967 |
| 43.exercise religious practices | 1.017 |
| 30.social functions outside | 1.071 |
| 37.to be listened to | 1.071 |
| 25.to visit relations etc. | 1.203 |

**Std. Dev. For Males in
ascending
Order**

Perceived level of importance

Physical Needs

| | |
|-------------------------------------|-------|
| 15.soap, tooth paste etc. | 0.744 |
| 13.Facilities for bathing/washing | 0.923 |
| 6.facilities to see a doctor | 0.954 |
| 10.rest | 0.969 |
| 7.facilities for medicine | 1.001 |
| 2.quality of food | 1.035 |
| 1. quality of accommodation | 1.063 |
| 4.medical care | 1.076 |
| 18.pocket money | 1.094 |
| 12.Facility for mosquito nets/coils | 1.130 |
| 11.sleep | 1.158 |
| 16.laundry | 1.186 |
| 3.special diets | 1.197 |
| 9.recreation | 1.260 |
| 8.physical exercise | 1.279 |
| 21.spectacles | 1.284 |
| 14.warm water | 1.304 |
| 20.t.v., radio etc. | 1.310 |
| 19.news papers etc. | 1.349 |
| 22.dentures | 1.353 |
| 17.assistance for toilet etc. | 1.393 |
| 23.hearing aids etc. | 1.408 |

Psychological Needs

| | |
|--------------------------------------|-------|
| 27.to be visited by well wishers | 0.900 |
| 40.to receive gratitude | 1.142 |
| 42.peaceful surrounding | 1.190 |
| 30.social functions outside | 1.193 |
| 39.to receive appreciation | 1.199 |
| 43.exercise religious practices | 1.231 |
| 35.to receive affection | 1.231 |
| 29.social functions at the home | 1.237 |
| 34.to be useful | 1.250 |
| 37.to be listened to | 1.261 |
| 28.picnics, outings etc. | 1.280 |
| 33.to be wanted by others | 1.282 |
| 31.security about care in the future | 1.331 |
| 32.security about physical harm | 1.365 |
| 36.to express self | 1.394 |
| 24.communication with relations etc. | 1.460 |
| 26.to be visited by relations etc. | 1.528 |
| 25.to visit relations etc. | 1.567 |



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Std. Dev. For Males in ascending Order

Present level of provision

Physical Needs

| | |
|-------------------------------------|-------|
| 4.medical care | 0.592 |
| 13.Facilities for bathing/washing | 0.615 |
| 11.sleep | 0.654 |
| 12.Facility for mosquito nets/coils | 0.660 |
| 1. quality of accommodation | 0.676 |
| 2.quality of food | 0.692 |
| 6.facilities to see a doctor | 0.712 |
| 7.facilities for medicine | 0.744 |
| 10.rest | 0.751 |
| 20.t.v., radio etc. | 0.760 |
| 16.laundry | 0.776 |
| 17assistance for toilet etc. | 0.778 |
| 3.special diets | 0.815 |
| 21.spectacles | 0.869 |
| 19.news papers etc. | 0.892 |
| 14.warm water | 0.936 |

| | |
|---------------------------|-------|
| 15.soap, tooth paste etc. | 0.963 |
| 22.dentures | 0.996 |
| 8.physical exercise | 1.045 |
| 23.hearing aids etc. | 1.045 |
| 9.recreation | 1.058 |
| 18.pocket money | 1.161 |

Psychological Needs

| | |
|--------------------------------------|-------|
| 39.to receive appreciation | 0.654 |
| 43.exercise religious practices | 0.705 |
| 27.to be visited by well wishers | 0.729 |
| 30.social functions outside | 0.741 |
| 34.to be useful | 0.768 |
| 32.security about physical harm | 0.778 |
| 40.to receive gratitude | 0.786 |
| 31.security about care in the future | 0.790 |
| 33.to be wanted by others | 0.806 |
| 42.peaceful surrounding | 0.821 |
| 35.to receive affection | 0.824 |
| 28.picnics, outings etc. | 0.836 |
| 36.to express self | 0.890 |
| 29.social functions at the home | 0.906 |
| 26.to be visited by relations etc. | 0.919 |
| 37.to be listened to | 1.082 |
| 24.communication with relations etc. | 1.109 |
| 25.to visit relations etc. | 1.156 |

Std. Dev for all in ascending
Order

Perceived level of importance

Physical Needs

| | |
|-------------------------------------|-------|
| 15.soap, tooth paste etc. | 0.866 |
| 6.facilities to see a doctor | 0.931 |
| 7.facilities for medicine | 0.955 |
| 4.medical care | 0.997 |
| 2.quality of food | 1.023 |
| 18.pocket money | 1.048 |
| 13.Facilities for bathing/washing | 1.071 |
| 10.rest | 1.086 |
| 1. quality of accommodation | 1.100 |
| 12.Facility for mosquito nets/coils | 1.157 |
| 11.sleep | 1.171 |
| 3.special diets | 1.192 |

| | |
|------------------------------|-------|
| 21.spectacles | 1.197 |
| 16.laundry | 1.208 |
| 9.recreation | 1.221 |
| 20.t.v., radio etc. | 1.269 |
| 23.hearing aids etc. | 1.290 |
| 14.warm water | 1.306 |
| 22.dentures | 1.307 |
| 8.physical exercise | 1.320 |
| 19.news papers etc. | 1.331 |
| 17assistance for toilet etc. | 1.355 |

Psychological Needs

| | |
|--------------------------------------|-------|
| 27.to be visited by well wishers | 0.901 |
| 40.to receive gratitude | 0.908 |
| 39.to receive appreciation | 1.006 |
| 29.social functions at the home | 1.092 |
| 37.to be listened to | 1.114 |
| 33.to be wanted by others | 1.138 |
| 43.exercise religious practices | 1.145 |
| 35.to receive affection | 1.149 |
| 34.to be useful | 1.161 |
| 42.peaceful surrounding | 1.166 |
| 28.picnics, outings etc. | 1.173 |
| 30.social functions outside | 1.211 |
| 36.to express self | 1.259 |
| 31.security about care in the future | 1.261 |
| 32.security about physical harm | 1.307 |
| 26.to be visited by relations etc. | 1.316 |
| 24.communication with relations etc. | 1.335 |
| 25.to visit relations etc. | 1.418 |

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| Present level of provision | Std. Dev. For all in ascending Order |
|-----------------------------------|---|
| <u>Physical Needs</u> | |
| 13.Facilities for bathing/washing | 0.555 |
| 4.medical care | 0.609 |
| 1. quality of accommodation | 0.666 |
| 10.rest | 0.695 |
| 11.sleep | 0.720 |
| 6.facilities to see a doctor | 0.728 |
| 2.quality of food | 0.736 |
| 17assistance for toilet etc. | 0.753 |

| | |
|-------------------------------------|-------|
| 7.facilities for medicine | 0.775 |
| 3.special diets | 0.826 |
| 12.Facility for mosquito nets/coils | 0.841 |
| 16.laundry | 0.857 |
| 15.soap, tooth paste etc. | 0.884 |
| 20.t.v., radio etc. | 0.915 |
| 14.warm water | 0.916 |
| 19.news papers etc. | 0.944 |
| 23.hearing aids etc. | 0.996 |
| 21.spectacles | 0.997 |
| 22.dentures | 1.020 |
| 9.recreation | 1.117 |
| 8.physical exercise | 1.118 |
| 18.pocket money | 1.249 |


Psychological Needs

| | |
|--------------------------------------|-------|
| 34.to be useful | 0.710 |
| 27.to be visited by well wishers | 0.713 |
| 31.security about care in the future | 0.733 |
| 39.to receive appreciation | 0.741 |
| 33.to be wanted by others | 0.753 |
| 32.security about physical harm | 0.770 |
| 26.to be visited by relations etc. | 0.822 |
| 40.to receive gratitude | 0.827 |
| 29.social functions at the home | 0.833 |
| 42.peaceful surrounding | 0.849 |
| 36.to express self | 0.873 |
| 43.exercise religious practices | 0.888 |
| 35.to receive affection | 0.894 |
| 28.picnics, outings etc. | 0.904 |
| 30.social functions outside | 0.940 |
| 24.communication with relations etc. | 1.021 |
| 37.to be listened to | 1.098 |
| 25.to visit relations etc. | 1.182 |

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