

術前後QOL・DSSW調査表

□術前全身状態

- A. 心臓 既往症 無 有
 NYHA I II III IV
冠動脈疾患
 心筋梗塞 無 有 (部位 _____)
 CAG LMT/LAD/Cx/RCA (75%狭窄以上)
 LVG EF 40%> / <
弁膜症 _____
その他 _____
- B. 脳
 脳血管疾患既往 無 有
 後遺障害 無 有 _____
 その他 _____
- C. 肺
 %VC _____ % %FEV1.0 _____ %
 血液ガス O₂ _____ mmHg CO₂ _____ mmHg (FiO₂ _____ %)
 COPD 無 有 _____
 その他 _____
- D. 腎
 腎機能障害 無 有
 BUN _____ CRTNN _____ GFR _____
 慢性血液透析 無 有
- E. 悪性腫瘍既往 無 有 部位・治療状態 _____
- F. 肝疾患 無 有 (慢性肝炎 / 肝硬変 / その他 _____)
- G. 高血圧 (無 有) DM (無 有) 喫煙 (無 有)
 その他 _____

D S S W (Disease Specific Severity Weight) 調査票 (術前用)

該当する患者さんの現在（調査票記入時）の身体状況について各項目の表記に該当する場合はYESに○を、該当しない場合にはNOに○をつけて下さい。

Status		
w 1 安静時もしくは労作時に胸部圧迫感および胸痛が1週間に1回程度出現する。	YES	NO
w 2 安静時もしくは労作時に胸部圧迫感および胸痛が頻回に出現し発作が遷延する。	YES	NO
w 3 労作時に呼吸困難が生じる。	YES	NO
w 4 安静時にも呼吸困難が生じる。	YES	NO
w 5 寝たきり状態であるが意志疎通可能である。	YES	NO
w 6 植物人間状態で意志疎通も殆ど不可能である。	YES	NO
w 7 重篤な知的活動障害がある。	YES	NO
w 8 中～高度の浮腫および水分、塩分摂取制限が必要で施行している。	YES	NO
w 9 通院透析を行なっている。	YES	NO
w 1 0 術後肝炎を含む肝臓障害がある。	YES	NO
w 1 1 術後肺炎や創部感染等の細菌感染を繰り返している。	YES	NO
w 1 2 四肢の不全麻痺がある。（対麻痺を含む）	YES	NO
w 1 3 矯正できない視力障害がある。	YES	NO
w 1 4 言語障害あるいは発語不可をきたしている。	YES	NO
w 1 5 創部痛が遷延しADLに支障をきたしている。	YES	NO

(術前用)

D S S W (Disease Specific Severity Weight) 調査票 (術後6ヶ月用)

該当する患者さんの現在（調査票記入時）の身体状況について各項目の表記に該当する場合はYESに○を、該当しない場合にはNOに○をつけて下さい。

Status		
w 1 安静時もしくは労作時に胸部圧迫感および胸痛が1週間に1回程度出現する。	YES	NO
w 2 安静時もしくは労作時に胸部圧迫感および胸痛が頻回に出現し発作が遷延する。	YES	NO
w 3 労作時に呼吸困難が生じる。	YES	NO
w 4 安静時にも呼吸困難が生じる。	YES	NO
w 5 寝たきり状態であるが意志疎通可能である。	YES	NO
w 6 植物人間状態で意志疎通も殆ど不可能である。	YES	NO
w 7 重篤な知的活動障害がある。	YES	NO
w 8 中～高度の浮腫および水分、塩分摂取制限が必要で施行している。	YES	NO
w 9 通院透析を行なっている。	YES	NO
w 1 0 術後肝炎を含む肝臓障害がある。	YES	NO
w 1 1 術後肺炎や創部感染等の細菌感染を繰り返している。	YES	NO
w 1 2 四肢の不全麻痺がある。（対麻痺を含む）	YES	NO
w 1 3 矯正できない視力障害がある。	YES	NO
w 1 4 言語障害あるいは発語不可をきたしている。	YES	NO
w 1 5 創部痛が遷延しADLに支障をきたしている。	YES	NO

(術後6ヶ月用)

DO NOT COPY. Not for quotation or distribution without permission. Do not use this document without approval from the developers. This document is subject to revision without notice.

HEALTH UTILITIES INDEX MARK 3 (HUI3):

Second Preliminary Multiplicative Multi-attribute and Single-attribute Utility Scoring Functions

by

GW Torrance, D Feeny, W Furlong, C Goldsmith, S De Pauw, Z Zhu
McMaster University, Hamilton, Canada

January 28, 1998

Permission for use of this manual
must be granted by the authors and developers of HUI2/3:
D Feeny, W Furlong, GW Torrance
Centre for Health Economics and Policy Analysis
McMaster University, Hamilton, Canada L8N 3Z5
Fax: (905) 546-5211

© Feeny, Furlong, and Torrance, 1998

HEALTH UTILITIES INDEX MARK 3 (HUI3):
Second Preliminary Multiplicative Multi-attribute
and Single-attribute Utility Scoring Functions

by GW Torrance, D Feeny, W Furlong, C Goldsmith, S De Pauw, Z Zhu

Introduction

Three McMaster Health Utilities Index systems have been developed: Health Utilities Index Mark 1 (HUI1); Health Utilities Index Mark 2 (HUI2); and Health Utilities Index Mark 3 (HUI3). This document describes the second preliminary multiplicative multi-attribute and single-attribute utility functions for HUI3. Two of the parameter estimates of the multi-attribute utility function (ie., 1.371 and -0.371 on page 3) differ from those presented in the first preliminary multiplicative multi-attribute function documents dated November 6, 1997 and March 14, 1997. The single-attribute functions are the same in each of the three preliminary reports.

Attribute levels and comprehensive health states, defined by the HUI3 health status classification system, are categorical variables and are useful for describing the health status of individuals. The comprehensive health state of an individual is defined as the combination of one level from each of the 8 attributes in the HUI3 system.

It is important to note that attribute level codes represent functional classes within each attribute and do not have interval scale properties. Utility scores have interval scale properties. Scores having interval scale properties allow for the use of powerful statistical methods (eg., parametric procedures) for making comparisons of HRQL and functional capacities between groups of subjects, or to assess changes in HRQL and functional capacities within individuals and groups.

The multiplicative multi-attribute utility function (see page 3) facilitates the calculation of health-related quality of life (HRQL) scores on the conventional Dead=0.00 to Perfect Health=1.00 scale, for comprehensive HUI3 health states described by 8-element vectors. The single-attribute functions (see page 4) present utility scores of functional capacity on 8 scales, one scale for each of the 8 attributes. Each single-attribute scale is defined on a scale from 0.00 to 1.00, such that lack of functional capacity in an attribute (lowest level for that attribute) has a single-attribute utility score of 0.00 and full function (level 1) for an attribute has a single-attribute score of 1.00.

This document is being provided to a few individuals for internal use only. Results based on this scoring formula should be considered preliminary, and should not be released without the approval of the authors, pending publication of the formula in a peer-reviewed publication.

Not to be copied, quoted, or distributed without permission

**HEALTH UTILITIES INDEX (HUI)
HEALTH STATUS QUESTIONNAIRE
(CAREGIVER)**

INSTRUCTIONS

This set of questions asks about your usual day to day health. You may feel that some of these questions do not apply to you, but it is important that we ask the same questions of everyone.

Please read each question and consider your answers carefully. For each question, please select one answer that best describes your usual level of ability or disability. Please indicate the selected answer by circling the letter (a,b,c,...) beside the answer

A few of the questions are similar to others; please excuse the apparent overlap, and answer each question independently. Thank you.

From: GW Torrance, DH Feeny and WJ Furlong. Self-Administered Health Status Questionnaire. McMaster University Mark (II & III) 1992-10-20.

QUESTIONS

1. Which **one** of the following best describes your usual ability to see well enough to read ordinary newsprint?
 - a. Able to see well enough without glasses or contact lenses.
 - b. Able to see well enough with glasses or contact lenses.
 - c. Unable to see well enough even with glasses or contact lenses.
 - d. Unable to see at all.

2. Which **one** of the following best describes your usual ability to see well enough to recognize a friend on the other side of the street?
 - a. Able to see well enough without glasses or contact lenses.
 - b. Able to see well enough with glasses or contact lenses.
 - c. Unable to see well enough even with glasses or contact lenses.
 - d. Unable to see at all.

3. Which **one** of the following best describes your usual ability to hear what is said in a group conversation with at least three other people?
 - a. Able to hear what is said without a hearing aid.
 - b. Able to hear what is said with a hearing aid.
 - c. Unable to hear what is said even with a hearing aid.
 - d. Unable to hear what is said, but don't wear a hearing aid.
 - e. Unable to hear at all.

4. Which one of the following best describes your usual ability to hear what is said in a conversation with one other person in a quiet room?
- a. Able to hear what is said without a hearing aid.
 - b. Able to hear what is said with a hearing aid.
 - c. Unable to hear what is said even with a hearing aid.
 - d. Unable to hear what is said, don't wear a hearing aid.
 - e. Unable to hear at all.
5. Which one of the following best describes your usual ability to be understood when speaking the same language with strangers?
- a. Able to be understood completely.
 - b. Able to be understood partially.
 - c. Unable to be understood.
 - d. Unable to speak at all.
6. Which one of the following best describes your usual ability to be understood when speaking with people who know you well?
- a. Able to be understood completely.
 - b. Able to be understood partially.
 - c. Unable to be understood.
 - d. Unable to speak at all.
7. Which one of the following best describes how you usually feel?
- a. Happy and interested in life.
 - b. Somewhat happy.

- c. Somewhat unhappy.
- d. Very unhappy.
- e. So unhappy that life is not worthwhile.

8. Which one of the following best describes your usual level of pain and discomfort?

- a. Free of pain and discomfort.
- b. Mild to moderate pain that prevents no activities.
- c. Moderate pain that prevents a few activities.
- d. Moderate to severe pain that prevents some activities.
- e. Severe pain that prevents most activities.

9. Which one of the following best describes your usual ability to walk?

Note: Walking equipment refers to mechanical supports such as braces, a cane, crutches or a walker.

- a. Able to walk around the neighborhood without difficulty, and without walking equipment.
- b. Able to walk around the neighborhood with difficulty, but do not require walking equipment or the help of another person.
- c. Able to walk around the neighborhood with walking equipment, but without the help of another person.
- d. Able to walk only short distances with walking equipment, and require a wheelchair to get around the neighborhood.
- e. Unable to walk alone, even with walking equipment. Able to walk short distances with the help of another person, and require a wheelchair to get around the neighborhood.
- f. Cannot walk at all.

10. Which one of the following best describes your usual ability to use your hands and fingers?

Note: Special tools refers to hooks for buttoning clothes, gripping devices for opening jars or lifting small items, and other devices to compensate for limitations of hands or fingers.

- a. Full use of two hands and ten fingers.
 - b. Limitations in the use of hands or fingers, but do not require special tools or help of another person.
 - c. Limitations in the use of hands or fingers, independent with use of special tools (do not require the help of another person).
 - d. Limitations in the use of hands or fingers, require the help of another person for some tasks (not independent even with use of special tools).
 - e. Limitations in use of hands or fingers, require the help of another person for most tasks (not independent even with use of special tools).
 - f. Limitations in use of hands or fingers, require the help of another person for all tasks (not independent even with use of special tools).
11. Which one of the following best describes your usual ability to remember things?
- a. Able to remember most things.
 - b. Somewhat forgetful.
 - c. Very forgetful.
 - d. Unable to remember anything at all.
12. Which one of the following best describes your usual ability to think and solve day to day problems?
- a. Able to think clearly and solve day to day problems.
 - b. Have a little difficulty when trying to think and solve day to day problems.
 - c. Have some difficulty when trying to think and solve day to day problems.

- d. Have great difficulty when trying to think and solve day to day problems.
 - e. Unable to think or solve day to day problems.
13. Which one of the following best describes your usual ability to perform basic activities?
- a. Eat, bathe, dress and use the toilet normally.
 - b. Eat, bathe, dress and use the toilet independently with difficulty.
 - c. Requires mechanical equipment to eat, bathe, dress or use the toilet independently.
 - d. Requires the help of another person to eat, bathe, dress or use the toilet.
14. Which one of the following best describes how you usually feel?
- a. Generally happy and free from worry.
 - b. Occasionally fretful, angry, irritable, anxious or depressed.
 - c. Often fretful, angry, irritable, anxious or depressed.
 - d. Almost always fretful, angry, irritable, anxious or depressed.
 - e. Extremely fretful, angry, irritable, anxious, or depressed, usually requiring hospitalization or psychiatric institutional care.
15. Which one of the following best describes your usual level of pain?
- a. Free of pain and discomfort.
 - b. Occasional pain. Discomfort relieved by non-prescription drugs or self-control activity without disruption of normal activities.
 - c. Frequent pain. Discomfort relieved by oral medicines with occasional disruption of normal activities.
 - d. Frequent pain; frequent disruption of normal activities. Discomfort requires prescription narcotics for relief.
 - e. Severe pain. Pain not relieved by drugs and constantly disrupts normal activities.

Not for quotation or distribution without permission. All copies of this questionnaire should include a cover sheet which clearly acknowledges that it is a Health Utilities Index questionnaire developed by Feeny, Furlong and Torrance at McMaster University (see prototype attached).

Do not use this questionnaire without approval from the developers. This questionnaire is one of many HUI data collection instruments, and may not be the most appropriate for your study.

HUI23SU.15Q:

HEALTH UTILITIES INDEX MARK 2 AND MARK 3 (HUI2/3)
15-ITEM QUESTIONNAIRE FOR
SELF-ADMINISTERED, SELF-ASSESSED
"USUAL" HEALTH STATUS ASSESSMENT

Permission for use of this document is limited to one study and must be granted by the developers of the HUI2/3:

D Feeny, W Furlong, GW Torrance
Centre for Health Economics and Policy Analysis
Department of Clinical Epidemiology and Biostatistics
Health Sciences Centre Room 3H3
McMaster University
Hamilton, Ontario, Canada L8N 3Z5
Fax: (905) 546-5211

May 1997

Sources: This questionnaire is based on basic descriptions from the HUI2 and HUI3 health-status classification systems and HUI materials developed by the HUI Group. It is a revised version of the October 20, 1992, "Self-Administered Health Status Questionnaire," (Torrance, Feeny, and Furlong).

© Feeny, Furlong and Torrance 1997.

HEALTH UTILITIES INDEX
Notes to researchers regarding the
15-item questionnaire for self-administered, self-assessed
"usual" health status assessment

The attached 15-item self-administered questionnaire has been designed to ask the minimum number of questions required to classify a subject's health status according to the classification systems of both Health Utilities Index Mark 2 and Mark 3 (HUI2 and HUI3). Questions 16 and 17 are not HUI questions but are included in this questionnaire because it is often useful to collect this information in health status measurement surveys.

This version of the questionnaire is phrased to elicit responses from a wide variety of subjects, aged 6 years and older, about their "usual" health status, from their own perspective. Other versions are available to facilitate administration to proxy respondents (eg., family members and health professionals) and to focus questions on other assessment periods. The "current" health focus is often used in clinical studies and economic evaluations of health care programmes, in which the concern is to monitor health changes due to treatment. The "usual" health focus has been used in population health surveys, where short-term illnesses like the flu are not the major concern. Please contact the HUI developers to obtain copies of other versions of the questionnaire.

This questionnaire includes a prototype cover sheet of variables that are typically important for identifying each interview (eg., subject ID number and date). All copies of the questionnaire should be clearly marked as a HUI questionnaire developed by Feeny, Furlong, and Torrance at McMaster University.

For further information about the HUI and to obtain a copy of the algorithm¹ for coding responses from the 15-item self-administered questionnaire, please contact the following (and refer to questionnaire HUI23SU.15Q: 1997-04):

Dr. David Feeny
Centre for Health Economics and Policy Analysis
HSC-3H3, McMaster University, 1200 Main Street West,
Hamilton, Ontario, Canada L8N 3Z5
or FAX: (905) 546-5211.

-
1. Furlong WJ, Torrance GW, Feeny DH. Health Utilities Index: Algorithm for determining Mark II / Mark III health status classification levels, health states and health state utility scores from 1992-10-20 self-administered health status questionnaire (HUI23.15Q:1997-03). Centre for Health Economics and Policy Analysis, McMaster University, Canada. Unpublished document; March 1995.

HUI23SU.15Q:
HEALTH UTILITIES INDEX MARK 2 AND MARK 3 (HUI2/3)
15-ITEM QUESTIONNAIRE FOR SELF-ADMINISTERED, SELF-ASSESSED
"USUAL" HEALTH STATUS ASSESSMENT

STUDY TITLE: _____

ID NUMBER OF SUBJECT: _____

NAME OF SUBJECT: _____

DATE QUESTIONNAIRE COMPLETED: _____, 199__

START TIME: _____ a.m./p.m.

END TIME: _____ a.m./p.m.

CONFIDENTIAL (when completed)

For office use only:

Name of person who collected completed questionnaire: _____

Date completed questionnaire received by office: _____, 199__.

Permission for use of this document is limited to one study and
must be obtained from the developers:

D Feeny, W Furlong, GW Torrance
Centre for Health Economics and Policy Analysis, HSC 3H3
McMaster University, Hamilton, Ontario, Canada L8N 3Z5
Fax: (905) 546-5211

HEALTH UTILITIES INDEX MARK 2 AND MARK 3 (HUI2/3)
15-ITEM QUESTIONNAIRE FOR
SELF-ADMINISTERED, SELF-ASSESSED
"USUAL" HEALTH STATUS ASSESSMENT

Instructions: This questionnaire contains a set of questions which ask about various aspects of your health. When answering these questions please think about your usual health and your ability to do things on a day-to-day basis. These questions are not concerned with the effects of illnesses such as colds or flu that affect people for short periods of time and from which you expect to fully recover. Please focus your answers on your usual abilities and disabilities, and how you usually feel.

You may feel that some of these questions do not apply to you, but it is important that we ask the same questions of everyone. Also, a few questions are similar; please excuse the apparent overlap and answer each question independently.

Please read each question and consider your answers carefully. For each question, please select one answer that best describes your usual level of ability or disability. Please indicate the selected answer by circling the letter (a,b,c,...) beside the answer.

All information you provide is confidential. There are no right or wrong answers; what we want is your opinion about your abilities and feelings.

1. Which one of the following best describes your usual ability to see well enough to read ordinary newsprint?
 - a. Able to see well enough without glasses or contact lenses.
 - b. Able to see well enough with glasses or contact lenses.
 - c. Unable to see well enough even with glasses or contact lenses.
 - d. Unable to see at all.

2. Which one of the following best describes your usual ability to see well enough to recognize a friend on the other side of the street?
 - a. Able to see well enough without glasses or contact lenses.
 - b. Able to see well enough with glasses or contact lenses.
 - c. Unable to see well enough even with glasses or contact lenses.
 - d. Unable to see at all.

3. Which one of the following best describes your usual ability to hear what is said in a group conversation with at least three other people?
- a. Able to hear what is said without a hearing aid.
 - b. Able to hear what is said with a hearing aid.
 - c. Unable to hear what is said even with a hearing aid.
 - d. Unable to hear what is said, but do not wear a hearing aid.
 - e. Unable to hear at all.
4. Which one of the following best describes your usual ability to hear what is said in a conversation with one other person in a quiet room?
- a. Able to hear what is said without a hearing aid.
 - b. Able to hear what is said with a hearing aid.
 - c. Unable to hear what is said even with a hearing aid.
 - d. Unable to hear what is said, but do not wear a hearing aid.
 - e. Unable to hear at all.
5. Which one of the following best describes your usual ability to be understood when speaking your own language with people who do not know you?
- a. Able to be understood completely.
 - b. Able to be understood partially.
 - c. Unable to be understood.
 - d. Unable to speak at all.

6. Which one of the following best describes your usual ability to be understood when speaking with people who know you well?
- a. Able to be understood completely.
 - b. Able to be understood partially.
 - c. Unable to be understood.
 - d. Unable to speak at all.
7. Which one of the following best describes how you usually feel?
- a. Happy and interested in life.
 - b. Somewhat happy.
 - c. Somewhat unhappy.
 - d. Very unhappy.
 - e. So unhappy that life is not worthwhile.
8. Which one of the following best describes your usual level of pain and discomfort?
- a. Free of pain and discomfort.
 - b. Mild to moderate pain or discomfort that prevents no activities.
 - c. Moderate pain or discomfort that prevents a few activities.
 - d. Moderate to severe pain or discomfort that prevents some activities.
 - e. Severe pain or discomfort that prevents most activities.

9. Which one of the following best describes your usual ability to walk?
Note: Walking equipment refers to mechanical supports such as braces, a cane, crutches or a walker.
- a. Able to walk around the neighbourhood without difficulty, and without walking equipment.
 - b. Able to walk around the neighbourhood with difficulty; but do not require walking equipment or the help of another person.
 - c. Able to walk around the neighbourhood with walking equipment, but without the help of another person.
 - d. Able to walk only short distances with walking equipment, and require a wheelchair to get around the neighbourhood.
 - e. Unable to walk alone, even with walking equipment. Able to walk short distances with the help of another person; and require a wheelchair to get around the neighbourhood.
 - f. Unable to walk at all.
10. Which one of the following best describes your usual ability to use your hands and fingers?
Note: Special tools refers to hooks for buttoning clothes, gripping devices for opening jars or lifting small items, and other devices to compensate for limitations of hands or fingers.
- a. Full use of two hands and ten fingers.
 - b. Limitations in the use of hands or fingers, but do not require special tools or the help of another person.
 - c. Limitations in the use of hands or fingers, independent with use of special tools (do not require the help of another person).
 - d. Limitations in the use of hands or fingers, require the help of another person for some tasks (not independent even with use of special tools).
 - e. Limitations in the use of hands or fingers, require the help of another person for most tasks (not independent even with use of special tools).
 - f. Limitations in the use of hands or fingers, require the help of another person for all tasks (not independent even with use of special tools).

11. Which one of the following best describes your usual ability to remember things?
- a. Able to remember most things.
 - b. Somewhat forgetful.
 - c. Very forgetful.
 - d. Unable to remember anything at all.
12. Which one of the following best describes your usual ability to think and solve day to day problems?
- a. Able to think clearly and solve day to day problems.
 - b. Have a little difficulty when trying to think and solve day to day problems.
 - c. Have some difficulty when trying to think and solve day to day problems.
 - d. Have great difficulty when trying to think and solve day to day problems.
 - e. Unable to think or solve day to day problems.
13. Which one of the following best describes your usual ability to perform basic activities?
- a. Eat, bathe, dress and use the toilet normally.
 - b. Eat, bathe, dress and use the toilet independently with difficulty.
 - c. Require mechanical equipment to eat, bathe, dress or use the toilet independently.
 - d. Require the help of another person to eat, bathe, dress or use the toilet.

14. Which one of the following best describes how you usually feel?
- a. Generally happy and free from worry.
 - b. Occasionally fretful, angry, irritable, anxious or depressed.
 - c. Often fretful, angry, irritable, anxious or depressed.
 - d. Almost always fretful, angry, irritable, anxious or depressed.
 - e. Extremely fretful, angry, irritable, anxious or depressed; to the point of needing professional help.
15. Which one of the following best describes your usual level of pain or discomfort?
- a. Free of pain and discomfort.
 - b. Occasional pain or discomfort. Discomfort relieved by non-prescription drugs or self-control activity without disruption of normal activities.
 - c. Frequent pain or discomfort. Discomfort relieved by oral medicines with occasional disruption of normal activities.
 - d. Frequent pain or discomfort; frequent disruption of normal activities. Discomfort requires prescription narcotics for relief.
 - e. Severe pain or discomfort. Pain not relieved by drugs and constantly disrupts normal activities.
16. Overall how would you rate your usual health?
- a. Excellent
 - b. Very good
 - c. Good
 - d. Fair
 - e. Poor