

Table 15 : Utility Scores (Single, Multiattributes and VAS) by residence

residence	n	age*	attributes										Multi*	VAS*
			Vision*	Hearing	Speech	Ambulation	Dexterity	Emotion	Cognition	Pain				
household	2,207	44.55 ± 14.83	0.96 ± 0.06	0.99 ± 0.07	0.98 ± 0.08	0.99 ± 0.04	1.00 ± 0.03	0.93 ± 0.09	0.90 ± 0.14	0.93 ± 0.10	0.83 ± 0.16	0.81 ± 0.16		
apartment house	1,362	35.96 ± 10.92	0.97 ± 0.05	1.00 ± 0.05	0.98 ± 0.07	1.00 ± 0.03	1.00 ± 0.02	0.93 ± 0.10	0.92 ± 0.13	0.94 ± 0.09	0.87 ± 0.14	0.85 ± 0.14		
living in a rooming house	77	32.69 ± 9.14	0.96 ± 0.08	1.00 ± 0.00	0.97 ± 0.08	1.00 ± 0.00	1.00 ± 0.01	0.92 ± 0.08	0.91 ± 0.12	0.94 ± 0.09	0.82 ± 0.15	0.84 ± 0.13		
other	20	37.25 ± 13.41	0.94 ± 0.13	1.00 ± 0.00	0.97 ± 0.09	1.00 ± 0.00	1.00 ± 0.00	0.90 ± 0.06	0.94 ± 0.07*	0.95 ± 0.04	0.82 ± 0.09	0.78 ± 0.15		

*; p<0.05. by ANOVA (among residence group)

Table 16 : Utility Scores (Single, Multiatributes and VAS) by employment

employment	n	age**		attributes											Multi*	VAS**
		avg	std	Vision	Hearing*	Speech	Ambulation	Dexterity	Emotion*	Cognition*	Pain*					
self employment	108	49.42	±14.75	0.96 ± 0.07	0.99 ± 0.06	0.99 ± 0.06	1.00 ± 0.02	1.00 ± 0.02	0.94 ± 0.09	0.89 ± 0.16	0.94 ± 0.09	0.87 ± 0.11	0.85 ± 0.14			
in employment	2,576	39.54	±9.85	0.97 ± 0.05	1.00 ± 0.05	0.98 ± 0.08	1.00 ± 0.02	1.00 ± 0.01	0.93 ± 0.10	0.91 ± 0.13	0.94 ± 0.09	0.84 ± 0.15	0.83 ± 0.14			
medical worker	82	40.15	±12.06	0.95 ± 0.05	0.99 ± 0.08	0.98 ± 0.07	1.00 ± 0.00	1.00 ± 0.00	0.95 ± 0.05	0.91 ± 0.14	0.94 ± 0.09	0.84 ± 0.15	0.83 ± 0.13			
part time worker	30	25.40	±4.34	0.98 ± 0.03	1.00 ± 0.00	0.98 ± 0.08	1.00 ± 0.00	1.00 ± 0.00	0.92 ± 0.12	0.95 ± 0.08	0.93 ± 0.07	0.88 ± 0.12	0.82 ± 0.18			
seeking work or part time worker	167	69.13	±14.50	0.94 ± 0.11	0.94 ± 0.20	0.97 ± 0.10	0.94 ± 0.16	0.97 ± 0.10	0.95 ± 0.08	0.85 ± 0.20	0.89 ± 0.18	0.75 ± 0.25	0.67 ± 0.23			
student	271	20.06	±3.77	0.96 ± 0.07	1.00 ± 0.00	0.97 ± 0.09	1.00 ± 0.00	1.00 ± 0.01	0.93 ± 0.11	0.92 ± 0.15	0.94 ± 0.13	0.88 ± 0.14	0.85 ± 0.17			
house wife	400	49.56	±14.94	0.96 ± 0.05	0.99 ± 0.04	0.99 ± 0.05	1.00 ± 0.02	1.00 ± 0.02	0.96 ± 0.07	0.93 ± 0.11	0.94 ± 0.08	0.90 ± 0.10	0.84 ± 0.14			
retired and other	109	47.11	±18.23	0.97 ± 0.04	1.00 ± 0.00	0.98 ± 0.07	0.99 ± 0.04	1.00 ± 0.03	0.94 ± 0.09	0.91 ± 0.10	0.94 ± 0.06	0.87 ± 0.11	0.83 ± 0.15			

* ; p<0.05, ** ; p<0.01 by ANOVA (among employment group)

Table 17 : Utility Scores (Single, Multiattributes and VAS) by Number of chronic disease

Number of chronic disease	n	age** avg ± std	attributes										Multi*	VAS*
			Vision	Hearing*	Speech	Ambulation	Dexterity	Emotion	Cognition	Pain				
0	2,570	38.30 ± 12.25	0.97 ± 0.05	1.00 ± 0.04	0.98 ± 0.07	1.00 ± 0.03	1.00 ± 0.02	0.93 ± 0.09	0.92 ± 0.13	0.95 ± 0.07	0.87 ± 0.13	0.85 ± 0.13		
1	908	44.36 ± 15.19	0.96 ± 0.07	0.99 ± 0.06	0.97 ± 0.09	0.99 ± 0.05	1.00 ± 0.03	0.93 ± 0.10	0.90 ± 0.14	0.92 ± 0.12	0.82 ± 0.17	0.79 ± 0.16		
2	228	52.41 ± 17.44	0.95 ± 0.08	0.98 ± 0.13	0.97 ± 0.09	0.98 ± 0.08	0.99 ± 0.03	0.92 ± 0.12	0.88 ± 0.16	0.88 ± 0.15	0.77 ± 0.19	0.72 ± 0.19		
3 and over	79	58.91 ± 16.68	0.94 ± 0.11	0.93 ± 0.21	0.95 ± 0.12	0.97 ± 0.08	0.99 ± 0.04	0.92 ± 0.13	0.83 ± 0.17	0.86 ± 0.14	0.72 ± 0.22	0.64 ± 0.23		

* ; p<0.05, by ANOVA (among chronic disease group)

Table 18 : Utility Scores (Single, Multiattributes and VAS) by Chronic disease

Chronic disease	n	age**	attributes										Multi**	VAS*
			Vision*	Hearing*	Speech	Ambulation	Dexterity	Emotion	Cognition*	Pain**				
No chronic disease	2,570	38.30±12.25	0.97±0.05	1.00±0.04	0.98±0.07	1.00±0.03	1.00±0.02	0.93±0.09	0.92±0.13	0.95±0.07	0.87±0.13	0.85±0.13		
Allergy	152	41.77±12.76	0.97±0.05	0.98±0.10	0.95±0.11	0.99±0.04	1.00±0.01	0.92±0.09	0.88±0.16	0.91±0.11	0.76±0.19	0.76±0.17		
Cardiopulmonary disease	187	47.50±17.22	0.96±0.07	0.98±0.13	0.96±0.10	0.99±0.03	1.00±0.02	0.91±0.14	0.89±0.16	0.90±0.14	0.79±0.20	0.73±0.19		
Musculo-skeletal disorder	131	49.34±15.05	0.95±0.07	0.98±0.10	0.97±0.08	0.98±0.07	0.99±0.03	0.92±0.11	0.86±0.15	0.83±0.16	0.73±0.19	0.74±0.20		
Hypertension	301	58.76±13.67	0.95±0.08	0.98±0.13	0.97±0.10	0.98±0.08	0.99±0.05	0.94±0.08	0.89±0.13	0.92±0.12	0.80±0.18	0.73±0.19		
Hyper Lipidemia	19	56.79±13.60	0.93±0.13	1.00±0.00	0.99±0.04	0.98±0.07	0.99±0.06	0.98±0.04	0.94±0.11	0.90±0.15	0.83±0.16	0.81±0.13		
Metabolic disease	117	55.45±13.30	0.95±0.08	0.98±0.10	0.95±0.12	0.99±0.05	1.00±0.02	0.94±0.07	0.87±0.16	0.92±0.10	0.78±0.20	0.71±0.21		
Visual & hearing disorder	71	68.17±13.20	0.94±0.09	0.96±0.16	0.97±0.09	0.96±0.11	0.99±0.03	0.95±0.05	0.86±0.16	0.89±0.16	0.75±0.21	0.67±0.23		
Central nerves disorder	111	43.91±17.89	0.94±0.10	0.97±0.16	0.96±0.11	0.97±0.12	0.99±0.05	0.91±0.10	0.84±0.19	0.85±0.17	0.74±0.21	0.75±0.21		
malignant tumor	22	59.82±13.09	0.93±0.12	0.95±0.21	0.97±0.09	0.97±0.13	0.99±0.06	0.95±0.06	0.92±0.16	0.87±0.22	0.82±0.24	0.70±0.26		
Gastro intestinal disorder	179	49.52±13.96	0.95±0.08	0.97±0.14	0.97±0.09	0.99±0.06	0.99±0.03	0.93±0.08	0.89±0.14	0.91±0.13	0.80±0.18	0.74±0.18		

* ; p<0.05, ** ; p<0.01 by ANOVA (among chronic disease group)

Table 19 : Utility Scores (Single, Multiattributes and VAS) by BMI

BMI	n	age avg ± std	attributes										Multi	VAS
			Vision	Hearing	Speech	Ambulation	Dexterity	Emotion	Cognition	Pain				
less than 20	710	37.47 ± 16.80	0.96 ± 0.05	0.99 ± 0.06	0.97 ± 0.09	0.99 ± 0.06	1.00 ± 0.03	0.93 ± 0.09	0.91 ± 0.14	0.93 ± 0.12	0.84 ± 0.16	0.82 ± 0.16		
20-25	2,115	42.12 ± 13.42	0.96 ± 0.06	0.99 ± 0.06	0.98 ± 0.07	1.00 ± 0.03	1.00 ± 0.02	0.93 ± 0.10	0.91 ± 0.13	0.94 ± 0.09	0.85 ± 0.15	0.83 ± 0.15		
25-29	624	43.30 ± 11.30	0.96 ± 0.06	0.99 ± 0.08	0.97 ± 0.09	1.00 ± 0.03	1.00 ± 0.02	0.93 ± 0.10	0.90 ± 0.14	0.94 ± 0.11	0.83 ± 0.17	0.82 ± 0.15		
more than 29	120	42.18 ± 13.34	0.96 ± 0.07	0.99 ± 0.07	0.97 ± 0.08	1.00 ± 0.03	1.00 ± 0.00	0.93 ± 0.09	0.91 ± 0.13	0.93 ± 0.09	0.84 ± 0.15	0.80 ± 0.17		

Table 20 : Utility Scores (Single, Multiattributes and VAS) by human relationship among the family members

human relationship among the family members	n	age avg ± std	attributes										Multi*	VAS**
			Vision	Hearing	Speech	Ambulation	Dexterity	Emotion*	Cognition	Pain				
excellent	908	39.84 ± 14.05	0.97 ± 0.05	1.00 ± 0.03	0.99 ± 0.06	1.00 ± 0.05	1.00 ± 0.03	0.96 ± 0.09	0.93 ± 0.13	0.95 ± 0.07	0.90 ± 0.13	0.87 ± 0.14		
good	1,479	40.83 ± 13.30	0.96 ± 0.06	0.99 ± 0.06	0.98 ± 0.07	1.00 ± 0.03	1.00 ± 0.02	0.94 ± 0.07	0.92 ± 0.13	0.94 ± 0.08	0.85 ± 0.14	0.83 ± 0.14		
fair	1,093	42.43 ± 14.59	0.96 ± 0.06	0.99 ± 0.07	0.97 ± 0.10	1.00 ± 0.04	1.00 ± 0.02	0.90 ± 0.10	0.89 ± 0.15	0.92 ± 0.12	0.80 ± 0.17	0.79 ± 0.16		
bad	87	38.45 ± 13.04	0.96 ± 0.08	0.96 ± 0.19	0.96 ± 0.11	0.99 ± 0.07	0.99 ± 0.03	0.85 ± 0.17	0.84 ± 0.19	0.89 ± 0.19	0.74 ± 0.24	0.78 ± 0.20		
very bad	18	36.83 ± 10.13	0.98 ± 0.02	0.94 ± 0.23	0.94 ± 0.14	1.00 ± 0.00	1.00 ± 0.00	0.77 ± 0.29	0.83 ± 0.26	0.88 ± 0.22	0.66 ± 0.29	0.72 ± 0.21		

* ; p<0.05, ** ; p<0.01 by Spear man's Correlation coefficient by rank test

Table 21 : Utility Scores (Single, Multiattributes and VAS) by human relationship in the working site

human relationship in the working site	n	age		attributes											Multi*	VAS*
		avg	± std	Vision	Hearing	Speech	Ambulation	Dexterity	Emotion	Cognition	Pain					
excellent	456	37.30	±12.43	0.97±0.06	1.00±0.03	0.99±0.07	1.00±0.02	1.00±0.01	0.96±0.09	0.94±0.11	0.95±0.08	0.91±0.12	0.87±0.14			
good	1,259	38.90	±11.35	0.97±0.05	1.00±0.04	0.98±0.06	1.00±0.01	1.00±0.01	0.94±0.08	0.93±0.12	0.95±0.08	0.87±0.12	0.85±0.13			
fair	1,247	40.25	±11.30	0.96±0.06	1.00±0.06	0.97±0.09	1.00±0.02	1.00±0.01	0.91±0.09	0.89±0.15	0.93±0.09	0.82±0.15	0.81±0.15			
bad	137	38.73	±9.66	0.97±0.05	0.98±0.09	0.95±0.11	1.00±0.02	1.00±0.02	0.85±0.16	0.84±0.19	0.88±0.14	0.72±0.22	0.76±0.17			
very bad	31	39.26	±9.00	0.98±0.02	0.96±0.18	0.93±0.15	1.00±0.00	1.00±0.02	0.83±0.21	0.79±0.19	0.87±0.20	0.69±0.24	0.78±0.22			

* ; p<0.05 by Spear man's Correlation coefficient by rank test

Table 22 : 重回帰分析用変数代入一覧

ダミー変数	1	2	3	4	5	6
Sex	male	female				
Number of family member	1	2	3	4	5	6 and over
Annual income	0-10000 USD	10000-30000 USD	30000-50000 USD	50000-100000 USD	100000 USD and over	
Loaning (money debt)	Positive	Negative				
Time spent in commuting	1 hour and over	30 minutes - 1 hour	10-30 minutes	under 10 minutes		
Human relationship in the working site	Very bad	Bad	Fair	Good	Excellent	
Human relationship among the family members	Very bad	Bad	Fair	Good	Excellent	
Number of chronic diseases	3 and over	2	1	0		
Body mass index						
Age						
Education	Students	Collage or lower	University or higher			
Marriage status	Separation by death	Married	others			
Employment	Seeking work or part time worker	Student	House wife	others		
Regularity of working hours	Irregular	Regular				

Table 23 :

Result of Multiple regression analysis between HUI multi-attribute utility score and Background variables

		r	p value	95%CI
性別	Sex	0.051	p<0.05	0.0261 , 0.076
年齢	Age	-0.0014	p<0.05	-0.0023 , -0.0005
BMI	Body mass index	0.0005		-0.0021 , 0.0031
職業	Employment	-0.0412	p<0.05	-0.065 , -0.0173
最終学歴	Education	0.0272	p<0.05	0.0148 , 0.0396
同居家族	Number of family member	-0.003		-0.0088 , 0.0027
結婚	Marriage status	-0.0238	p<0.01	-0.0466 , -0.001
年収	Annual income	0.0122	p<0.01	0.0009 , 0.0234
借金	Loaning	0.0061		-0.0091 , 0.0214
就業労務状態	Regularity of working hours	-0.0086		-0.0245 , 0.0072
通勤・学時間	Time spent in commuting	0.0074		-0.0012 , 0.0159
人間関係	Human relation ship in the working site	0.0368	p<0.05	0.0269 , 0.0467
家族関係	Human relation ship among the family member	0.0271	p<0.05	0.0175 , 0.0367
疾病個数	Number of chronic disease	0.0328	p<0.05	0.0209 , 0.0446

Table 24 : Result of Multiple regression analysis between VAS and Background variables

		r	p value	95%CI
性別	Sex	0.0313	p<0.01	0.0065 , 0.0562
年齢	Age	-0.0006		-0.0015 , 0.0003
BMI	Body mass index	-0.0005		-0.0031 , 0.0021
職業	Employment	0.0022		-0.0216 , 0.0259
最終学歴	Education	0.0065		-0.0058 , 0.0189
同居家族	Number of family member	0.0013		-0.0044 , 0.007
結婚	Marriage status	-0.0099		-0.0326 , 0.0127
年収	Annual income	-0.0043		-0.0156 , 0.0069
借金	Loaning	-0.0016		-0.0168 , 0.0136
就業労務状態	Regularity of working hours	-0.0075		-0.0233 , 0.0083
通勤・学時間	Time spent in commuting	-0.0003		-0.0088 , 0.0082
人間関係	Human relation ship in the working site	0.018	p<0.05	0.0081 , 0.0278
家族関係	Human relation ship among the family member	0.0229	p<0.05	0.0134 , 0.0325
疾病個数	Number of chronic disease	0.0426	p<0.05	0.0308 , 0.0544

Table 25 :

Result of Stepwise multiple regression analysis between HUI multi-attribute utility score and Background variables

		r	F
人間関係	Human relation ship in the working site	0.0366	52.8199
家族関係	Human relation ship among the family member	0.0275	32.0576
疾患個数	Number of chronic disease	0.0327	29.3424
最終学歴	Education	0.0273	18.8571
性別	Sex	0.0496	16.9806
職業	Employment	-0.0427	12.6092
年齢	Age	-0.0014	10.2527
結婚歴	Marriage status	-0.0223	3.7836
年収	Annual income	0.0122	4.5313
通勤・学時間	Time spent in commuting	0.0076	3.0612

Table 26 : Result of Stepwise multiple regression analysis between VAS and Background variables

		r	F
疾患個数	Number of chronic disease	0.0423	50.1007
家族関係	Human relation ship among the family member	0.0227	22.4148
人間関係	Human relation ship in the working site	0.0185	14.2016
性別	Sex	0.0317	8.5372
年齢	Age	-0.0006	2.42

Table 27 : Result of Multiple regression analysis between HUI multi-attribute utility score and single score

	r	p value	95%CI
Vision	0.472	p<0.01	0.414 , 0.53
Hearing	0.424	p<0.01	0.375 , 0.472
Speech	0.455	p<0.01	0.415 , 0.496
Ambulation	0.595	p<0.01	0.271 , 0.919
Dexterity	0.316		-0.096 , 0.727
Emotion	0.631	p<0.01	0.596 , 0.667
Cognition	0.411	p<0.01	0.387 , 0.436
Pain	0.523	p<0.01	0.485 , 0.561

Table 28 : Result of Multiple regression analysis between VAS and Single scores

Single Attributes	r	p value	95%CI
Vision	0.15	p<0.05	0.017 , 0.283
Hearing	-0.044		-0.155 , 0.067
Speech	0.167	p<0.01	0.074 , 0.259
Ambulation	-0.67		-1.411 , 0.07
Dexterity	0.792		-0.148 , 1.732
Emotion	0.309	p<0.01	0.228 , 0.39
Cognition	0.152	p<0.01	0.097 , 0.207
Pain	0.335	p<0.01	0.249 , 0.421

Table 29 :

Result of **Stepwise** multiple regression analysis between HUI multi-attribute utility score and Single scores

	r	F
1 Cognition	0.412	1,123.7
2 Emotion	0.631	1,216.7
3 Speech	0.455	490.7
4 Pain	0.523	740.8
5 Hearing	0.424	293.9
6 Vision	0.472	254.2
7 Ambulation	0.595	13
8 Dexterity	0.316	2.3

Table 30 : Result of Stepwise multiple regression analysis between VAS and Single scores

	r	F
1 Emotion	0.31	56.5
2 Pain	0.335	58.3
3 Cognition	0.151	29.1
4 Speech	0.159	12
5 Vision	0.149	4.9
6 Ambulation	-0.67	3.2
7 Dexterity	0.801	2.8

Table 31 : Multiple regression co-efficient among variables

r	multiattribute utility score	VAS
Back ground	0. 4 3 6 5	0. 3 1 8 3
Single scores	0. 9 2 8 4	0. 4 3 5 9

**A Few Sources of Information –
on the Health Utilities Index (HUI)**

Methodological Studies

Barr, Ronald D., Claire Petrie, William Furlong, Marilyn Rothney, and David Feeny, "Health-Related Quality of Life during Post-Induction Chemotherapy in Children with Acute Lymphoblastic Leukemia in Remission: An Influence of Corticosteroid Therapy." *International Journal of Oncology* 1997; vol 11, 333-339.

Boyle Michael H, and George W. Torrance, "Developing Multi-attribute Health Indexes." *Medical Care* 1984; 22 (11): 1045-1057.

Boyle, Michael H., William Furlong, David Feeny, George Torrance, and Jeff Hatcher, "Reliability of the Health Utilities Index - Mark III Used in the 1991 Cycle 6 General Social Survey Health Questionnaire." *Quality of Life Research* 1995; vol 4, no 3, June, pp 249-257.

Cadman, David, and Charles Goldsmith, "Construction of Social Value or Utility-Based Health Indices: The Usefulness of Factorial Experimental Design Plans." *Journal of Chronic Disease* 1986; 39 (8): 643-651.

Cadman, David, Charles C. Goldsmith, and P. Bashim, "Values, preferences, and decisions in the care of children with developmental disabilities." *Developmental and Behaviourial Pediatrics* 5: 60-64 (1984).

Cadman, David, Charles Goldsmith, George W. Torrance, et al., "Development of a Health Status Index for Ontario Children," Final Report to the Ontario Ministry of Health on Research Grant DM648 (00633). Hamilton, Ontario: McMaster University, 1986.

Costet, Nathalie, Catherine Le Gales, Catherine Buron, Françoise Kinkor, Mounir Mesbah, Judith Chwalow, Clinical and Economic Working Groups, and Gérard Slama, "French Cross-Cultural Adaptation of the Health Utilities Index Mark 2 (HUI2) and 3 (HUI3) Classification Systems." *Quality of Life Research* (Vol. 7, No. 3, April, 1998), 245-256.

Drummond, Michael F., Greg L. Stoddart, and George W. Torrance, *Methods for the Economic Evaluation of Health Care Programmes*. Oxford: Oxford University Press, 1987.

Drummond, Michael F., Bernie O'Brien, Greg Stoddart, and George W. Torrance, *Methods for the Economic Evaluation of Health Care Programmes*. Second Edition. Oxford: Oxford University Press, 1997.

Feeny, David, William Furlong, Ronald D. Barr, George W. Torrance, Peter Rosenbaum, and Sheila Weitzman, "A Comprehensive Multiattribute System for Classifying the Health Status of Survivors of Childhood Cancer." *Journal of Clinical Oncology*, vol 10, no 6, June, 1992, pp 923-928.

Feeny, David, William Furlong, Michael Boyle, and George W. Torrance, "Multi-Attribute Health Status Classification Systems: Health Utilities Index." *Pharmacoeconomics* 1995; vol 7, no 6, June, pp 490-502.

Feeny, David H., George W. Torrance, and William J. Furlong, "Health Utilities Index," In Bert Spilker, ed. *Quality of Life and Pharmacoeconomics in Clinical Trials*. Second Edition. Philadelphia: Lippincott-Raven Press, 1996, pp 239-252.

Feeny, David H., George W. Torrance, and Roberta Labelle, "Integrating Economic Evaluations and Quality of Life Assessments," In Bert Spilker, ed. *Quality of Life and Pharmacoeconomics in Clinical Trials*. Second Edition. Philadelphia: Lippincott-Raven Press, 1996, pp 85-95.

Feeny, David, William Furlong, and Ronald D. Barr, "Multiattribute Approach to the Assessment of Health-Related Quality of Life: Health Utilities Index." *Medical and Pediatric Oncology*, Vol. 31, No. 3, 1998, in press.

Furlong, William, George W. Torrance, and David Feeny, "Properties of Health Utilities Index: Preliminary Evidence." *Quality of Life Newsletter*, Numbers 13-14, June, 1995 - January, 1996, pages 3, 4, and 10.

Gemke, Reinoud J. B. J., and Gouke J. Bonsel, "Reliability and Validity of a Comprehensive Health Status Measure in a Heterogeneous Population of Children Admitted to Intensive Care." *Journal of Clinical Epidemiology*, vol 49, no 3, March, 1996, 327-333.

Gold, Marthe R., Donald L. Patrick, George W. Torrance, Dennis G. Fryback, David C. Hadorn, Mark S. Kamlet, Norman Daniels, and Milton C. Weinstein, "Identifying and Valuing Outcomes," Chapter 4 in Marthe R. Gold, Joanna E. Siegel, Louise B. Russell, and Milton C. Weinstein, eds., *Cost-Effectiveness in Health and Medicine*. New York: Oxford University Press, 1996, pp 82-134.

Grootendorst, Paul, David Feeny, and William Furlong, "Does It Matter Whom and How You Ask? An Investigation into Inter- and Intra-rater Agreement in the 1990 Ontario Health Survey." *Journal of Clinical Epidemiology*, vol 50, no 2, February, 1997, pp 127-135.

Le Gales, Catherine, Catherine Buron, Nathalie Coster, Françoise Kinkor, David Feeny, William Furlong, Judy Chwalow, and Pr. Gérard Slama, "Assessment of the Multi-Attribute Preference Function for Health Utilities Index 3 in France: Preliminary Results." *Quality of Life Research* (Vol. 6, No. 7/8, October/December, 1997), 678 (Abstract).

Mathias, Susan D., Molly M. Bates, David J. Pasta, Miriam G. Cisternas, David Feeny, and Donald L. Patrick, "Use of the Health Utilities Index with Stroke Patients and their Caregivers." *Stroke*, vol 28, no 10, October, 1997, pp 1888-1894.

Patrick, Donald L., and Pennifer Erickson, *Health Status and Health Policy: Quality of Life in Health Care Evaluation and Resource Allocation*. New York: Oxford University Press, 1993.

Torrance, George W., "Multiattribute Utility Theory as a Method of Measuring Social Preferences for Health States in Long-Term Care," in Robert L. Kane and Rosalie A. Kane, eds., *Values and Long-Term Care*. Lexington, MA: Lexington Books Division of D. C. Heath, 1982, pp 127-156.

Torrance, George W., Michael H. Boyle, Sargent P. Horwood, "Application of Multi-Attribute Utility Theory to Measure Social Preferences for Health States." *Operations Research*, vol 30, no 6, 1982, pp 1042-1069.

Torrance, George W., William Furlong, David Feeny, and Michael Boyle, "Multi-Attribute Preference Functions: Health Utilities Index." *Pharmacoeconomics* 1995; vol 7, no 6, June, pp 503-520.

Torrance, George W., Yueming Zhang, David Feeny, William Furlong, and Ronald Barr, "Multi-Attribute Preference Functions for A Comprehensive Health Status Classification System". McMaster University, Centre for Health Economics and Policy Analysis Working Paper No 92-18, 1992.

Torrance, George W., David H. Feeny, William J. Furlong, Ronald D. Barr, Yueming Zhang, and Qinan Wang, "Multi-Attribute Preference Functions for A Comprehensive Health Status Classification System: Health Utilities Index Mark 2." *Medical Care* (Vol. 34, No. 7, July 1996), 702-722.

Torrance, George W., "Measurement of Health State Utilities for Economic Appraisal - A Review." *Journal of Health Economics*, vol 5, no 1, 1986, pp 1-30.

Torrance, George W., and David Feeny, "Utilities and Quality-Adjusted Life Years." *International Journal of Technology Assessment in Health Care*, vol 5, no 4, 1989, pp 559-575.

Clinical and Evaluative Studies Using HUI

Baladi, Jean-Francois, Devidas Menon, and Nicholas Otten, "An Economic Evaluation of Finasteride for Treatment of Benign Prostatic Hyperplasia." *Pharmacoeconomics* (Vol. 9, No. 5, May, 1996), 443-454.

Barr, Ronald D., William Furlong, Susan Dawson, Anthony C. Whitton, Ingrid Strautmanis, Mohan Pai, David Feeny, and George W. Torrance, "An Assessment of Global Health Status in Survivors of Acute Lymphoblastic Leukemia in Childhood." *American Journal of Pediatric Hematology/ Oncology* 1993; 15 (4): 284-290.

Barr, Ronald D., William Furlong, Jennifer Henwood, David Feeny, John Wegener, Irwin Walker, and Michael Brain, "Economic Evaluation of Allogenic Bone Marrow Transplantation – A Rudimentary Model to Generate Estimates for the Timely Formulation of Clinical Policy." *Journal of Clinical Oncology* 1996; 14 (5, May): 1413-1420.

Barr, Ronald D., David Feeny, William Furlong, Sheila Weitzman, and George W. Torrance, "A Preference-Based Approach to Health-Related Quality of Life in Children with Cancer." *International Journal of Pediatric Hematology/Oncology* 1995; 2: 305-315.

Barr, Ronald D., Mohan K. R. Pai, Sheila Weitzman, David Feeny, William Furlong, Peter Rosenbaum, and George W. Torrance, " A Multi-Attribute Approach to Health Status Measurement and Clinical Management - Illustrated by an Application to Brain Tumors in Childhood." *International Journal of Oncology* 1994; vol 4: 639-648.

Barr, Ronald D., Claire Petrie, William Furlong, Marilyn Rothney, and David Feeny, "Health-Related Quality of Life during Post-Induction Chemotherapy in Children with Acute Lymphoblastic Leukemia in Remission: An Influence of Corticosteroid Therapy." *International Journal of Oncology* 1997; vol 11, 333-339.

Billson, Amanda L. and David A. Walker. "Assessment of Health Status in Survivors of Cancer." *Archives of Disease in Childhood* 1994; vol 70: 200-204.

Bosch, J. L., E. E. E. van Wijck, P. L. Baum, M. C. Donaldson, J. J. A. M. van den Dungen, and M. G. M. Hunink, "The McMaster Health Utility Index (II) and the EuroQol 5D Assessed in Patients with Peripheral Arterial Disease in the United States and the Netherlands." *Medical Decision Making* 1996; 16 (4, October-December): 450 (Abstract).

Boyle, Michael H., George W. Torrance, John C. Sinclair, and Sargent P. Horwood, "Economic Evaluation of Neonatal Intensive Care of Very-Low-Birth-Weight Infants." *New England Journal of Medicine* 1983; 308: 1330-1337.