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Note: This information is also available at: <http://www.fhs.mcmaster.ca/hug/index.htm> and <http://www.healthutilities.com/>

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

**Population Health Applications of HUI** [Cross-Cultural Validation; Description; Reliability; Scoring; Theory; Validity]

Adachi, J. D., G. Ioannidis, L. Pickard, C. Berger, J. C. Prior, L. Joseph, D. A. Hanley, W. P. Olszynski, T. M. Murray, T. Anastassiades, W. Hopman, J. P. Brown, S. Kirland, C. Joyce, A. Papiouannou, S. Poliquin, A. Tennenhouse, and E. A. Papadimitropoulos, “The Association Between Osteoporotic Fractures and Health-Related Quality of Life as Measured by the Health Utilities Index in the Canadian Multicentre Osteoporosis Study (CaMos).” *Osteoporosis International*, Vol. 14, No. 11, November, 2003, pp 895-904. [HUI2; HUI3; Construct Validity]

Alberta Health and Wellness, *Chronic Pain in Alberta: A Portrait from the 1996 National Population Health Survey and the 2001 Canadian Community Health Survey*. Edmonton, Alberta Health and Wellness, Health Surveillance, May, 2003. [HUI3 pain; Construct Validity]

Allin, Sara, Erin Graves, Michel Grignon, Diana Ridgeway, and Li Wang, “Health-adjusted potential years of life lost due to treatable causes of death and illness.” *Health Reports*, Vol. 25, No. 8, August, 2014, pp 3-9. [HUI3; Construct Validity]

Altman, Barbara M., Edward Ng, and Jean-Marie Berthelot, “A Comparative Analysis of Four Disability/Functional Limitations Modules in the 2003 Joint Canada/United States Survey of Health.” *Proceedings of the 2004 Joint Statistical Meetings of the American Statistical Association* (Alexandria, VA: American Statistical Association, 2004), pp 3256-3263. [HUI3; Construct Validity]

Altman, Barbara M., and Stephen P. Gulley, “Convergence and Divergence: Differences in Disability Prevalence Estimates in the United States and Canada Based on Four Health Survey Instruments.” *Social Science & Medicine*, Vol. 69, No. 4, August, 2009, pp 5543-552. [HUI3; Construct Validity]

Asada, Yukiko, George Kephart, “Equity in health services use and intensity of use in Canada.” *BMC Health Services Research*, Vol. 7, No. 41, published online March 11, 2007; <http://www.biomedcentral.com/1472-6963/7/41> [HUI3; Construct Validity; Predictive Validity]

Asada, Yukiko, Jeremiah Hurley, Ole Frithjof Norheim, and Mira Johri, “A three-stage approach to measuring health inequalities and inequities.” *International Journal for Equity in Health*, Vol. 13,

No. 98, published online November 1, 2014; <http://www.equityhealthj.com/content/13/1/98> [HUI3; Construct Validity]

Asada, Yukiko, Jeremiah Hurley, Ole Frithjof Norheim, and Mira Johri, “Unexplained health inequality - is it unfair?” *International Journal for Equity in Health*, Vol. 14 (1), No. 11, published online January 31, 2015; <http://www.equityhealthj.com/content/14/1/11> [HUI3; Construct Validity]

Asada, Yukiko, George Kephart, Jeremiah Hurley, Yoko Yoshida, Andrea Smith, and Stephen Bornstein, “The role of proximity to death in need-based approaches to health care.” *Health Policy*, Vol. 106, No. 3, August, 2012, pp 291-302. [HUI3; Construct Validity; Predictive Validity]

Asakawa, Keiko, Darryl Rolfson, Ambikaikapan Senthilselvan, David Feeny, and Jeffrey A. Johnson, “Health Utilities Index Mark 3 Showed Valid in Alzheimer Disease, Arthritis, and Cataracts.” *Journal of Clinical Epidemiology*, Vol. 61, No. 7, July, 2008, pp 733-739. [HUI3; Construct Validity]

Asakawa, Keiko, David Feeny, Ambikaikapan Senthilselvan, Jeffrey A. Johnson, and Darryl Rolfson, “Do the Determinants of Health Differ Between People Living in the Community and in Institutions?” *Social Science & Medicine*, Vol. 69, No. 3, August 2009, pp 345-353; published online June 13, 2009. [HUI3; Construct Validity]

Asakawa, Keiko, Ambikaikapan Senthilselvan, David Feeny, Jeffrey A. Johnson, and Darryl Rolfson, “Trajectories of Health-Related Quality of Life (HRQL) Differ by Age Among Adults: Results from an Eight Year Longitudinal Study.” *Journal of Health Economics*, Vol. 31, No. 1, January, 2012, pp 207-218. [HUI3; Construct Validity]

Au, Doreen Wing Han, Thomas F. Crossley, and Martin Schellhorn, “The Effect of Health Changes and Long-Term Health on the Work Activity of Older Canadians.” *Health Economics*, Vol. 14, No. 10, October, 2005, pp 999-1018. [HUI3; Cross-sectional and Longitudinal Construct Validity]

Austin, Peter C., Michael Escobar, and Jacek A. Kopec, “The use of the Tobit model for analyzing measures of health status.” *Quality of Life Research*, Vol. 9, No. 8, 2000, pp 901-910. [HUI3; Ceiling Effects; based on provisional scoring]; Grootendorst, Paul, “Censoring in statistical models of health status: What happens when one can do better than ‘1’.” *Quality of Life Research*, Vol. 9, No. 8, 2000, pp 911-914. [HUI3; Ceiling Effects].

Austin, Peter C., “Bayesian Extensions for the Tobit Model for Analyzing Measures of Health Status.” *Medical Decision Making*, Vol. 22, No. 2, March-April, 2002, pp 152-162. [HUI3; Construct Validity]

Austin, Peter C., “A Comparison of Methods for Analyzing Health-Related Quality-of-Life Measures.” *Value in Health*, Vol. 5, No. 4, July-August, 2002, pp 329-337. [HUI3]

Beland, Yves, “Canadian Community Health Survey - Methodological Overview.” *Health Reports*, Vol. 13, No. 3, March, 2002, pp 9-14. [HUI3]

Bentley, Tanya GK, Mari Palta, Adam Paulsen, Dasha Cherepanov, Nancy Cross Dunham, David Feeny, Robert M. Kaplan, and Dennis G. Fryback "Race and Gender Associations Between Obesity and Nine Health Related Quality of Life Measures." *Quality of Life Research*, Vol. 20, No. 5, June, 2011, pp 655-674; published on-line March 10, 2011. [HUI2; HUI3; Construct Validity]

Bernier, Julie, Yan Feng, and Keiko Asakawa, "Strategies for handling normality assumptions in multi-level modeling: A case study estimating trajectories of Health Utilities Index Mark 3 scores." *Health Reports*, Vol. 22, No. 4, December, 2011, pp 45-51. [HUI3; Construct Validity]

Berthelot, Jean-Marie, Roger Roberge, and Michael Wolfson, "The Calculation of Health-Adjusted Life Expectancy for a Canadian province using a Multi-Attribute Utility Function: A First Attempt." in J. M. Robine, C. D. Mathers, M. R. Bone, and I. Romieu, *Calculation of Health Expectancies: Harmonization, Consensus Achieved and Future Perspectives*. Montrouge, France: Colloque INSERM/John Libbey Eurotext Ltd., Vol. 226, 1993, pp 161-172. [HUI3; Construct Validity; Health-Adjusted Life Expectancy]

Bowker, Samantha L., Sheri L. Pohar, and Jeffrey A. Johnson, "A Cross-Sectional Study of Health-Related Quality of Life Deficits in Individuals with Comorbid Diabetes and Cancer." *Health and Quality of Life Outcomes*, Vol. 4/1/17, March 22, 2006; <http://www.hqlo.com/content/4/1/17> [HUI3; Construct Validity]

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*, Vol. 4, No 3, June, 1995, pp 249-257. [HUI3; Test-retest Reliability]

Boyle, Michael H., and J. Douglas Willms, "Place Effects for Areas Defined by Administrative Boundaries." *American Journal of Epidemiology*, Vol. 149, No. 6, March, 1999, pp 577-585. [HUI3; Construct Validity]

Brehaut, Jamie C., Dafna E. Kohen, Parminder Raina, Stephen D. Walter, Dianne J. Russell, Marilyn Swinton, Maureen O'Donnell, and Peter Rosenbaum, "The Health of Primary Caregivers of Children with Cerebral Palsy: How Does It Compare with that of Other Canadian Caregivers?" *Pediatrics*, Vol. 114, No. 2, August, 2004, pp 182-191. [HUI3; Construct Validity]

Brehaut, Jamie C., Dafna E. Kohen, Rochelle E. Garner, Anton R. Miller, Lucyna M. Lach, Anne F. Klassen, and Peter L. Rosenbaum, "Health Among Caregivers of Children with Health Problems: Findings from a Canadian Population-Based Study." *American Journal of Public Health*, Vol. 99, No. 2, February, 2009; E-publication December 4, 2008. [HUI3; construct validity]

Chen, Lucy Y., and Cindy L. Hardy, "Alcohol Consumption and Health Status in Older Adults: A Longitudinal Analysis." *Journal of Aging and Health*, Vol. 21, No. 6, September, 2009, pp 824-847. [HUI3; Construct Validity]

Cherepanov, Dasha, Mari Palta, Dennis G. Fryback, and Stephanie A. Robert, "Gender Differences in Health-Related Quality of Life Are Partly Explained by Sociodemographic and Socioeconomic

Variation Between Adult Men and Women in the US: Evidence from Four US Nationally Representative Data Sets.” *Quality of Life Research*, Vol. 19, No. 8, October, 2010, pp 1115-1124; E-Publication May 23, 2010. Erratum, p 1125. [HUI2; HUI3; Construct Validity]

Cherepanov, Dasha, Mari Palta, and Dennis G. Fryback, “Underlying Dimensions of the Five Health-Related Quality of Life Measures Used in Utility Assessment: Evidence from the National Health Measurement Study.” *Medical Care*, Vol. 48, No. 8, August, 2010, pp 718-725. [HUI2; HUI3; Construct Validity]

Curtis, Lori J., Martin D. Dooley, Ellen L. Lipman, and David H. Feeny, “The Role of Permanent Income and Family Structure in the Determination of Child Health in Canada.” *Health Economics*, Vol. 10, No. 4, June, 2001, pp 287-302. [HUI2; Construct Validity]

Denton, Margaret, and Vivienne Walters, “Gender Differences in Structural and Behavioral Determinants of Health: An Analysis of the Social Production of Health.” *Social Science & Medicine*, Vol. 48, No. 9, May, 1999, pp 1221-1235. [HUI3; Construct Validity]

Denton, Margaret, Steven Prus, and Vivienne Walters, “Gender Differences in Health: A Canadian Study of the Psychosocial, Structural, and Behavioural Determinants of Health.” *Social Science and Medicine*, Vol. 58, No. 12, June, 2004, pp 2585-2600. [HUI3; Construct Validity]

DesMeules, Marie, Douglas Manuel, and Robert Cho, “Mortality: Life and Health Expectancy of Canadian Women.” *BMC Women’s Health*, Vol. 4, Supplement 1, S9 (<http://www.biomedcentral.com/1472-6874/S1/S9>) [HUI3]

Edwards, Jodi D., Mieke Koehoorn, Lara A. Boyd, and Adrian R. Levy, “Is Health-Related Quality of Life Improving After Stroke? A Comparison of Health Utilities Indices Among Canadians with Stroke Between 1997 and 2005.” *Stroke*, Vol. 41, No. 5, May, 2010, pp 996-1000. [HUI3; Construct Validity]

Eng. Ken, and David Feeny, “Comparing the Health of Low Income and Less Well Educated Groups in the United States and Canada,” *Population Health Metrics*, (electronic journal: <http://www.pophealthmetrics.com/content/5/1/10>), 5:10, 2007. DOI: 10.1186/147-7954-5-10. Published on-line October 16, 2007. [HUI3; Construct Validity]

Erickson, Pennifer, “Modeling Health-Related Quality of Life: The Bridge Between Psychometrics and Utility-Based Measures.” *Journal of the National Cancer Institute Monographs*, No. 20, 1966, pp 17-22. [HUI1; Construct Validity]

Feeny, David H., George W. Torrance, Charles H. Goldsmith, William Furlong, and Michael Boyle. 1993. "A Multi-attribute Approach to Population Health Status." *Proceedings of the 153rd Annual Meeting of the American Statistical Association* (Alexandria, VA: American Statistical Association, 1994), pp 161-166; modestly revised version available as McMaster University Centre for Health Economics and Policy Analysis Working Paper 94-05, February, 1994. [HUI3; Scoring; Theory]

Feeny, David, “The Health Utilities Index: A Tool for Assessing Health Benefits.” *Patient Reported Outcomes Newsletter*, No. 34, Spring, 2005, pp 2-6. [HUI2; HUI3; Review Article] <http://www.pro-newsletter.com/>

Feeny, David, “Health-Status Classification Systems for Summary Measures of Population Health,” Chapter 7.2 in Christopher J. L. Murray, Joshua A. Salomon, Colin D. Mathers, and Alan D. Lopez, eds., *Summary Measures of Population Health: Concepts, Ethics, Measurement and Applications*. Geneva, World Health Organization, 2002, pp 329-341. [HUI2; HUI3; Review Article]

Feeny, David, “The Utility Approach to Assessing Population Health,” Chapter 10.2 in Christopher J. L. Murray, Joshua A. Salomon, Colin D. Mathers, and Alan D. Lopez, eds., *Summary Measures of Population Health: Concepts, Ethics, Measurement and Applications*. Geneva, World Health Organization, 2002, pp 515-528. [HUI2; HUI3; Review Article]

Feeny, David, Nathalie Hugué, Bentson McFarland, and Mark S. Kaplan, “The Construct Validity of the Health Utilities Index Mark 3 in Assessing Mental Health in Population Health Surveys.” *Quality of Life Research*, Vol. 18, No. 4, May, 2009, pp 519-526; electronic publication March 10, 2009. “Erratum” *Quality of Life Research*, Vol. 18, No. 5, June 2009, p. 667. [HUI3; construct validity, mental health]

Feeny, David H., Mark S. Kaplan, Nathalie Hugué, and Bentson H. McFarland, “Comparing Population Health in the United States and Canada.” *Population Health Metrics*, Vol. 8:8, published on-line April 29, 2010; doi:10.1186/1478-7954-8-8. <http://www.pophealthmetrics.com/content/8/1/8> [HUI3; Construct Validity; Health-Adjusted Life Expectancy]

Feeny, David, Nathalie Hugué, Bentson H. McFarland, Mark S. Kaplan Heather M. Orpana, and Elizabeth Eckstrom, “Hearing, Mobility, and Pain Predict Mortality: A Longitudinal Population-Based Study.” *Journal of Clinical Epidemiology* Vol. 65, No. 7, July, 2012, pp 764-777; published online April 19, 2012. [HUI3; Construct Validity; Predictive Validity]

Feeny, David, Rochelle E. Garner, Julie Bernier, Amanda Thompson, Bentson H. McFarland, Nathalie Hugué, Mark S. Kaplan, Nancy A. Ross, and Chris Blanchard, “Physical Activity Matters: The Associations Between Body Mass Index, Physical Activity and Health-Related Quality of Life Trajectories over 10 Years.” *Journal of Physical Activity & Health*, Vol. 11, No. 7, September, 2014, pp 1265-1275. [HUI3; Construct Validity]

Feng, Yan, Julie Bernier, Cameron McIntosh, and Heather Orpana, “Validation of disability categories derived from Health Utilities Index Mark 3 scores.” *Health Reports*, Vol. 20, No. 2, June, 2009, pp 43-50. [HUI3; Construct Validity]

Findlay, Leanne, Julie Bernier, Holly Tuokko, Susan Kirkland, and Heather Gilmour, “Validation of Cognitive Functioning Categories in the Canadian Community Health Survey—Healthy Aging.” *Health Reports*, Vol. 21, No. 4, December, 2010, pp 85-100. [HUI3; Construct Validity of HUI3 Cognition]



Flanagan, William, Cameron N. McIntosh, Christel Le Petit, and Jean-Marie Berthelot, "Deriving Utility Scores for Co-Morbid Conditions: A Test of the Multiplicative Model for Combining Condition Scores." *Population Health Metrics*, Vol. 4, No. 13, October 31, 2006; <http://www.pophealthmetrics.com/content/4/1/13> [HUI3; Construct Validity]

Franks, Peter, Janel Hanmer, and Dennis G. Fryback, "Relative Disutilities of 47 Risk Factors and Conditions Assessed with Seven Preference-Based Health Status Measures in a National US Sample. Toward Consistency in Cost-Effectiveness Analyses." *Medical Care*, Vol. 44, No. 5, May, 2006, pp 478-485. [HUI3; Construct Validity]

Fryback, Dennis G., Nancy Cross Dunham, Mari Palta, Janel Hanmer, Jennifer Buechner, Dasha Cherepanov, Shani Herrington, Ron D. Hays, Robert M. Kaplan, Ted Ganiats, David Feeny, and Paul Kind, "U.S. Norms for Six Generic Health-Related Quality of Life Indexes from the National Health Measurement Study." *Medical Care*, Vol. 45, No. 12, December, 2007, pp 1162- 1170. [HUI2; HUI3; Construct Validity]

Fryback Dennis G., Mari Palta M, Dasha Cherepanov, Daniel Bolt, and Jee-Seon Kim, "Comparison of Five Health-Related Quality-of-Life Indexes using Item Response Theory Analysis." *Medical Decision Making*, Vol. 30, No. 1, January-February, 2010, pp 5-15; published Online October 20, 2009. [HUI2; HUI3; Construct Validity]

Fryback, Dennis G., "Measuring Health-Related Quality of Life," *Workshop on Advancing Social Science Theory and Research: The Importance of Common Metrics*, Washington, DC, National Academy of Sciences, Division of Behavioral and Social Sciences and Education, February 25-26, 2010; [http://www7.nationalacademies.org/dbasse/The\\_Importance\\_of\\_Common\\_Metrics.html](http://www7.nationalacademies.org/dbasse/The_Importance_of_Common_Metrics.html) [HUI2; HUI3; Review Article]

Gan, Hua Pey, Hwee Lin Wee, Yin Bun Cheung, Nan Luo, Kok Yong Fong, David Feeny, and Julian Thumboo, "Impact of self-reported smoking status on health-related quality of life in Singapore." *Journal of Public Health*, Vol.21, No. 5, October, 2013, pp 389-401. [HUI3; Construct Validity]

Garner, Rochelle E., David Feeny, Amanda Thompson, Julie Bernier, Bentson H. McFarland, Nathalie Huguette, Mark S. Kaplan, Heather Orpana, Nancy A. Ross, and Chris Blanchard, "Bodyweight, Gender, and Quality of Life: A Population-based Longitudinal Study." *Quality of Life Research*, Vol. 21, No. 5, June, 2012, pp 813-825; published online August 13, 2011. "Erratum." *Quality of Life Research*, Vol. 21, No. 5, June, 2012, p 827. [HUI3; Construct Validity; Responsiveness]

Garster, Noelle C., Mari Palta, Nancy K. Sweitzer, Robert M. Kaplan, and Dennis G. Fryback, "Measuring Health-Related Quality of Life in Population-Based Studies of Coronary Heart Disease: Comparing Six Generic Indexes and a Disease-specific Proxy Score." *Quality of Life Research*, Vol. 18, No. 9, November, 2009, pp 1239-1247. [HUI2; HUI3; Construct Validity]

Gee, Ellen M., Karen M. Kobayashi, and Steven G. Prus, "Examining the Healthy Immigrant Effect in Mid- to Later Life: Findings from the Canadian Community Health Survey." *Canadian Journal*

*on Aging*, Vol 23, Supplement 1, 2004, pp S55-S63. [HUI3; Construct Validity]

Gilmour, Heather, and Jungwee Park, "Dependency, Chronic Conditions and Pain in Seniors." *Health Reports*, Supplement to Vol. 16, 2006, pp 21-31, in *How Healthy are Canadians? Annual Report 2005*, Statistics Canada Catalogue 82-003. [HUI3; Construct Validity of Pain items]

Gilmour, Heather, Saverio Stranges, Mark S. Kaplan, David Feeny, Bentson McFarland, Nathalie Huguet, and Julie Bernier, "Longitudinal trajectories of sleep duration in the general population." *Health Reports*, Vol. 24, No. 11, November, 2013, pp 14-20. [HUI3; Construct Validity]

Gilmour, Heather, "Positive mental health and mental illness." *Health Reports*, Vol. 25, No. 9, September, 2014, pp 3-9. [HUI3 pain; Construct Validity]

Gilmour, Heather, "Chronic pain, activity restriction and flourishing mental health." *Health Reports*, Vol. 26, No. 1, January, 2015, pp 15-22. [HUI3 pain; Construct Validity]

Goel, Vivek, Karey Iron, and J. Ivan Williams, "Indicators of Health Determinants and Health Status," Chapter 2 in Vivek Goel, J. Ivan Williams, Geoffrey M. Anderson, Paula Blackstien-Hirsch, Cathy Fooks, and C. David Naylor, eds., *Patterns of Health Care in Ontario. The ICES Practice Atlas*, 2<sup>nd</sup> Edition. Toronto, Institute for Clinical Evaluative Sciences, 1996, pp 5-26. (This report is available at: <http://www.ices.on.ca/index.asp>) [HUI3; Description]

Gold, Marthe, Peter Franks, and Pennifer Erickson. "Assessing the Health of the Nation: The Predictive Validity of a Preference-Based Measure and Self-Rated Health." *Medical Care*, Vol. 34, No. 2, February, 1996, pp 163-177. [HUI1; Predictive Validity]

Gold, Marthe R, David Stevenson, and Dennis G. Fryback, "HALYs and QALYs and DALYs, Oh My: Similarities and Differences in Summary Measures of Population Health." *Annual Review of Public Health*, Vol. 23, 2002, pp 115-134. [HUI1; HUI2; HUI3; Summary Measures]

Griffith, Lauren, Edwin van den Heuvel, Isabel Fortier, Scott Hofer, Parminder Raina, Nazmul Sohel, Helene Payette, Christina Wolfson, and Sylvie Belleville, "Harmonization of Cognitive Measures in Individual Participant Data and Aggregate Data Meta-Analysis." Methods Research Report. Agency for Healthcare Research and Quality (AHRQ) Publication No. 13-EHC040-EF. Rockville, MD, Agency for Healthcare Research and Quality, March, 2013. [www.effectivehealthcare.ahrq.gov/reports/final.cfm](http://www.effectivehealthcare.ahrq.gov/reports/final.cfm) [HUI3 Cognition; Construct Validity]

Grootendorst, Paul, "Results on an Investigation into the Integrity of the Ontario Health Survey." McMaster University, Centre for Health Economics and Policy Analysis Working Paper No 93-11, December, 1993. [HUI3; Reliability]

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. [HUI3; Reliability]

Grootendorst, Paul, *David Feeny*, and William Furlong, "Health Utilities Index Mark 3: Evidence of

Construct Validity for Stroke and Arthritis in a Population Health Survey.” McMaster University Centre for Health Economics and Policy Analysis Working Paper No. 99-06, June, 1999. [HUI3; Construct Validity]

Grootendorst, Paul, David Feeny, and William Furlong, “Health Utilities Index Mark 3: Evidence of Construct Validity for Stroke and Arthritis in a Population Health Survey.” *Medical Care*, Vol. 38, No. 3, March, 2000, pp 290-299. [HUI3; Construct Validity]

Hanmer, Janel, Ron D. Hays, and Dennis G. Fryback, “Mode of Administration Is Important in US National Estimates of Health-Related Quality of Life.” *Medical Care*, Vol. 45, No. 12, December, 2007, pp 1171- 1179. [HUI3; Construct Validity; Mode of Administration]

Hawthorne, Graeme, *Measuring Incontinence in Australia*. Canberra: Commonwealth of Australia, March, 2006. [HUI3; Construct Validity; Review Article]

Hays, Ron D., Seongeun Kim, Karen L. Spritzer, Robert Kaplan, Steve Tally, David Feeny, Honghu Liu, and Dennis Fryback, “Effects of Mode and Order of Administration on Generic Health-Related Quality of Life Scores”, *Value in Health*, Vol. 12, No. 6, September, 2009, pp 1035-1039; published online May 15, 2009. [HUI2; HUI3; Mode of Administration]

Holmes, Ann M., "A QALY-Based Societal Health Statistic for Canada, 1985." *Social Science & Medicine*, Vol. 41, No. 10, 1995, pp 1417-1427. [HUI1; Scoring]

Hood, Sheila C., Marie P. Beaudet, and Gary Catlin, "A Healthy Outlook." *Health Reports*, Vol. 7, No 4, Spring, 1996, pp 25-32. [HUI3; Construct Validity]

Hoover, Melanie, and Michelle Rotermann, “Seniors’ use of and unmet needs for home care, 2009.” *Health Reports*, Vol. 24, No. 4, December, 2012, pp 3-8. [HUI3; Construct Validity]

Hoover, Melanie, Michelle Rotermann, Claudia Sanmartin, and Julie Bernier, "Validation of an index to estimate the prevalence of frailty among community-dwelling seniors" *Health Reports*, Vol. 24, No. 9, September, 2013, pp 10-17. [HUI3; Construct Validity of 8 Attributes; Predictive Validity]

Houle, Christian, and Jean-Marie Berthelot, “A Head-to-Head Comparison of the Health Utilities Mark 3 and the EQ-5D for the Population Living in Private Households in Canada.” *Quality of Life Newsletter*, No. 24, January - June, 2000, pp 5-6. [HUI3; Construct Validity]

Huguet, Nathalie, Mark S. Kaplan, and David Feeny, “Socioeconomic Status and Health-Related Quality of Life Among Elderly People in Canada and the United States.” *Social Science & Medicine*, Vol. 66, No. 4, February, 2008, pp 803-810. [HUI3; Construct Validity]

Humphries, Karin H., and Eddy van Doorslaer, “Income-Related Inequality in Canada.” *Social Science & Medicine*, Vol. 50, No. 5, March, 2000, pp 663-671. [HUI3; Construct Validity]

Janssen, Mathieu F. (Bas), Erwin Birnie, and Gouke J. Bonsel, “Evaluating the Discriminatory



Power of EQ-5D, HUI2, and HUI3 in a US General Population Survey Using Shannon's Indices." *Quality of Life Research*, Vol. 16, No. 5, June, 2007, pp 895-904. [HUI2; HUI3; Construct Validity]

Jimenez-Rubio, Dolores, Peter C. Smith, and Eddy van Doorslaer, "Equity in Health and Health Care in a Decentralised Context: Evidence from Canada." *Health Economics*, Vol. 17, No. 3, March, 2008, pp 377-392. [HUI3; Construct Validity]

Jones, C. Allyson, Sheri L. Pohar, Sharon Warren, Karen V.L. Turpin, and Kenneth G. Warren, "The burden of multiple sclerosis: A community health survey." *Health and Quality of Life Outcomes*, Vol. 6, No. 1, 2008, electronic publication (<http://www.hqlo.com/content/6/1/1>). [HUI3; Construct validity]

Jones, C. Allyson, Sheri L. Pohar, and Scott B. Patten, "Major Depression and Health-Related Quality of Life in Parkinson's Disease." *General Hospital Psychiatry*, Vol. 31, No. 4, July-August, 2009, pp 334-340. [HUI3; Construct Validity]

Kaplan, Mark S., Jean-Marie Berthelot, David H. Feeny, Bentson H. McFarland, and Saeeda Khan, "The Predictive Validity of Two Measures of Health-Related Quality of Life: Mortality in a Longitudinal Population-Based Study," *Quality of Life Research*, Vol. 16, No. 9, November, 2007, pp 1539-1546. [HUI3; Predictive Validity]

Kaplan, Mark S., Nathalie Huguet, Heather Orpana, David Feeny, Bentson H. McFarland, and Nancy Ross, "Prevalence and Factors Associated with Thriving in Older Adulthood: A 10-year Population-based Study." *Journal of Gerontology. Series A, Medical Sciences*, Vol. 63A, No. 10, October, 2008, pp 1097-1104. [HUI3; Construct Validity]

Kaplan, Mark S., Nathalie Huguet, David Feeny, Bentson H. McFarland, and Stacey S. Williams, "Visits to Family Physicians or Specialists by Elderly Persons in Canada and the United States: An Exploratory Comparative Study." *International Journal of Health Services*, Vol. 40, No. 1, 2010, pp 139-149; published on-line December 3, 2009. Reprinted in Vicente Navarro and Carles Muntaner, eds., *The Financial and Economic Crises and Their Impact on Health and Social Well-Being*. Amityville, New York: Baywood Publishing Company, Inc., 2014, pp 62-72. [HUI3; Construct Validity]

Kaplan, Mark S., Nathalie Huguet, David Feeny, Bentson H. McFarland, Raul Caetano, Julie Bernier, Norman Giesbrecht, Lisa Oliver, and Nancy Ross, "Alcohol use patterns and trajectories of health-related quality of life in middle-aged and older adults: A 14-year population-based study." *Journal of Studies on Alcohol and Drugs*, Vol. 73, No. 4, July, 2012, pp 581-590. [HUI3; Construct Validity]

Kaplan, Mark S., Nathalie Huguet, David Feeny, Bentson H. McFarland, Raul Caetano, Julie Bernier, Norman Giesbrecht, Lisa Oliver, Pamela Ramage-Morin, and Nancy A. Ross, "The association between alcohol use and long-term care placement of older Canadians: A 14-year population-based study." *Addictive Behaviors*, Vol. 39, No. 1, January, 2014, pp 219-224; published online October, 2013. [HUI3; Construct Validity]

Kaplan, Robert M., and Pennifer Erickson, "Gender Differences in Quality-Adjusted Survival Using a Health Utilities Index." *American Journal of Preventive Medicine*, Vol. 18, No. 1, January, 2000, pp 77-82. [HUI1; Construct Validity]

Kephart, George, and Yukiko Asada, "Need-based resource allocation: different need indicators, different results?" *BMC Health Services Research*, Vol. 9, No. 122, published online July 21, 2009; <http://www.biomedcentral.com/1472-6963/9/122> [HUI3; Construct Validity; Predictive Validity]

Khanna Dinesh, Paul Maranian, Mari Palta, Robert M. Kaplan, Ron D Hays, Dasha Cherepanov, and Dennis G. Fryback, "Health-Related Quality of Life in Adults Reporting Arthritis: Analysis from the National Health Measurement Survey." *Quality of Life Research*, Vol. 20, No. 7, September, 2011, pp 1131-1140; published online February 5, 2011. [HUI2; HUI3; Construct Validity]

Kohen, Dafna F., Jamie C. Brehaut, Rochelle E. Garner, Anton R. Miller, Lucyna M. Lach, Anne F. Klassen, and Peter L. Rosenbaum, "Conceptualizing childhood health problems using survey data: a comparison of key indicators." *BMC Pediatrics*, Vol. 7: 40, December 5, 2007: <http://www.biomedcentral.com/1471-2431/7/40> [HUI3, Construct Validity]

Kopec, Jacek A., J. Ivan Williams, Teresa To, and Peter C. Austin, "Measuring Population Health: Correlates of the Health Utilities Index among English and French Canadians." *Canadian Journal of Public Health*, Vol. 91, No. 6, November-December, 2000, pp 465-470. [HUI3; Construct Validity]

Kopec, Jacek A., J. Ivan Williams, Teresa To, and Peter C. Austin, "Cross-Cultural Comparisons of Health Status in Canada Using the Health Utilities Index." *Ethnicity & Health*, Vol. 6, No. 1, February, 2001, pp 41-50. [HUI3; Construct Validity]

Kopec, Jacek A., Susan E. Schultz, Vivek Goel, and J. Ivan Williams, "Can the Health Utilities Index Measure Change?" *Medical Care*, Vol. 39, No. 6, June, 2001, pp 562-574. [HUI3; Construct Validity; Responsiveness]

Kopec, J.A., E. C. Sayre, W. M. Flanagan, P. Fines, J. Cibere, Md. M. Rahman, N. J. Bansback, A. H. Anis, J. M. Jordon, B. Sobolev, J. Aghajanian, W. Kang, N. V. Greidanus, D. S. Garbuz, G. A. Hawker, and E. M Badley, "Development of a Population-Based Microsimulation Model of Osteoarthritis in Canada." *Osteoarthritis and Cartilage*, Vol. 18, No. 3, March, 2010, pp 303-311. [HUI3; Construct Validity]

Lagace, Claudia, Anthony Perruccio, Marie Desmeules, and Elizabeth Badley, "The Impact of Arthritis on Canadians," in Health Canada, *Arthritis in Canada. An Ongoing Challenge*. Ottawa, Health Canada, 2003, Catalogue #H39-4/14-2003E, pp 7-34. [HUI3; Construct Validity]

Lasser, Karen E., David U. Himmelstein, and Steffie Woolhandler, "Access to Care, Health Status, and Health Disparities in the United States and Canada: Results of a Cross-National Population-Based Survey." *American Journal of Public Health*, Vol. 96, No. 7, July, 2006. [HUI3; Construct Validity]

Lauridsen, Jorgen, Terkel Christiansen, and Unto Hakkinen, "Measuring Inequality in Self-Reported Health - Discussion of a Recently Suggested Approach using Finnish Data." *Health Economics*, Vol. 13, No. 7, July, 2004, pp 725-732. [HUI3; Methods]

Lecluyse, Ann and Irina Cleemput, "Making Health Continuous: Implications of Difference Methods on the Measurement of Inequality." *Health Economics*, Vol. 15, No. 1, January, 2006, pp 99-104. [HUI3; Construct Validity]

Lima, Viviane Dias, and Jacek A. Kopec, "Quantifying the effect of health status on health care utilization using a preference-based health measure." *Social Science & Medicine*, Vol. 60, No. 3, February, 2005, pp 515-524. [HUI3; Construct Validity]

Lindeboom, Maarten, and Eddy van Doorslaer, "Cut-point Shift and Index Shift in Self-Reported Health." *Journal of Health Economics*, Vol. 23, No. 6, November, 2004, pp 1083-1099. [HUI3; Construct Validity]

Luo, Nan, Jeffrey A. Johnson, James W. Shaw, David Feeny, and Stephen Joel Coons, "Self-reported Health Status of the General Adult US Population as Assessed by the EQ-5D and Health Utilities Index." *Medical Care*, Vol. 43, No. 11, November, 2005, pp 1078-1086. [HUI2; HUI3; Construct Validity]

Luo, Nan, Yu Ko, Jeffrey A. Johnson, and Stephen Joel Coons, "The Association of Survey Language (Spanish vs. English) with Health Utilities Index and EQ-5D Index Scores in a United States Population Sample." *Quality of Life Research*, Vol. 18, No. 10, December, 2009, pp 1377-1385. [HUI2; HUI3; Construct Validity]

Macran, Susan, Helen Weatherly, and Paul Kind, "Measuring Population Health: A Comparison of Three Generic Health Status Measures." *Medical Care*, Vol. 41, No. 2, February, 2003, pp 218-231. [modified non-standard version of HUI3; Construct Validity; Primary Care; Routine Use]

Maddigan, Sheri L., David H. Feeny, and Jeffrey A. Johnson, "Health Related Quality of Life Deficits Associated with Diabetes and Comorbidities in a Canadian National Population Health Survey." *Quality of Life Research*, Vol. 14, No. 5, June, 2005, pp 1311-1320. [HUI3; Construct Validity]

Maddigan, Sheri L., David H. Feeny, Sumit R. Majumdar, Karen B. Farris, and Jeffrey A. Johnson, "Understanding the Determinants of Health in Type-2 Diabetes." *American Journal of Public Health*, Vol. 96, No. 9, September, 2006, pp 1649-1655; July 27, 2006 E-publication. [HUI3; Construct Validity]

Maddigan, Sheri L., David H. Feeny, Sumit R. Majumdar, Karen B. Farris, and Jeffrey A. Johnson, "Health Utilities Index Mark 3 Demonstrated Construct Validity in a Population-Based Sample with Type 2 Diabetes." *Journal of Clinical Epidemiology*, Vol. 59, No. 5, May, 2006, pp 472-477. [HUI3; Construct Validity]

Manuel, Douglas G., and Susan E. Schultz, "Adding Years to Life and Life to Years: Life and Health Expectancy in Ontario," Report 1, *Institute for Clinical Evaluative Sciences Atlas Report: The Health of Ontarians*. Toronto, Institute for Clinical Evaluative Sciences, 2001. (This report is available at: <http://www.ices.on.ca/index.asp>) [HUI3; Description; Health-Adjusted Life Expectancy]

Manuel, Douglas G., and Susan E. Schultz, "Adding Years to Life and Life to Years: Life and Health Expectancy in Ontario - Technical Supplement," Report TS-1, *Institute for Clinical Evaluative Sciences Atlas Report: The Health of Ontarians*. Toronto, Institute for Clinical Evaluative Sciences, 2001.(This report is available at: <http://www.ices.on.ca/index.asp>) [HUI3; Description; Health-Adjusted Life Expectancy]

Manuel, Douglas G., Vivek Goel, J. Ivan Williams, and Paul Corey, "Health-Adjusted Life Expectancy at the Local Level in Ontario." *Chronic Diseases in Canada*, Vol. 21, No. 2, 2000, pp 73-80. [HUI3; Construct Validity; Health-Adjusted Life Expectancy]

Manuel, Douglas G., Susan E. Schultz, and Jacek A. Kopec, "Measuring the Health Burden of Chronic Disease and Injury using Health-Adjusted Life Expectancy and the Health Utilities Index." *Journal of Epidemiology and Community Health*, Vol 56, No. 11, November 2002, pp 843-850. [HUI3; Construct Validity; Health-Adjusted Life Expectancy]

Manuel, Douglas G., Wei Luo, Anne-Marie Ugnat, and Yang Mao, "Cause-Deleted Health-Adjusted Life Expectancy of Canadians with Selected Chronic Conditions." *Chronic Diseases in Canada*, Vol. 24, No. 4, Fall, 2003, pp 108-115. [HUI3; Health-Adjusted Life Expectancy]

Manuel, Douglas C., Mark Leung, Kathy Nguyen, Peter Tanuseputro, and Helen Johansen, "Burden of Cardiovascular Disease in Canada." *Canadian Journal of Cardiology*, Vol. 19, No. 9, August, 2003, pp 997-1004. [HUI3]

Manuel, Douglas G., and Susan E. Schultz, "Using Linked Data to Calculate Summary Measures of Population Health: Health-adjusted Life Expectancy of People with Diabetes Mellitus." *Population Health Metrics*, Vol. 2, No. 1, 2004, 4; <http://www.pophealthmetrics.com/content/2/1/4> [HUI3; Health-Adjusted Life Expectancy]

Manuel, Douglas G., and Susan E. Schultz, "Health-Related Quality of Life and Health-Adjusted Life Expectancy of People with Diabetes in Ontario, Canada, 1996-1997." *Diabetes Care*, Vol. 27, No. 2, February, 2004, pp 407-414. [HUI3; Health-Adjusted Life Expectancy]

Manuel, Doug, Claudia Lagace, Marie Desmeules, Robert Cho, and J. Denise Power, "Life Expectancy and Health-Adjusted Life Expectancy," in Health Canada, *Arthritis in Canada. An Ongoing Challenge*. Ottawa, Health Canada, 2003, Catalogue #H39-4/14-2003E, pp 40-49. [HUI3; Construct Validity; Health-Adjusted Life Expectancy]

Martel, Laurent, Alain Belanger, Jean-Marie Berthelot, and Yves Carriere, "Healthy Aging" *Health Today, Healthy Tomorrow? Findings from the National Population Health Survey*. Ottawa,

Statistics Canada Catalogue 82-618-MWE200404, Vol 1, No. 4, May 9, 2005, pp 1-9. [HUI3; Construct Validity]

McIntosh, Cameron N., Philippe Fines, Russell Wilkins, and Michael C. Wolfson, "Income Disparities in Health-Adjusted Life Expectancy for Canadian Adults, 1991-2001." *Health Reports*, Vol. 20, No. 4, December, 2009, pp 1-10. [HUI3; Construct Validity; Health-Adjusted Life Expectancy]

McGrail, Kimberlyn M., Eddy van Doorslaer, Nancy A. Ross, and Claudia Sanmartin, "Income-Related Health Inequalities in Canada and the United States: A Decomposition Analysis." *American Journal of Public Health*, Vol. 99, No. 10, October, 2009, pp 1856-1863. [HUI3; Construct Validity]

McLeod, Christopher B., John N. Lavis, Cameron A. Mustard, and Greg L. Stoddart, "Income Inequality, Household Income, and Health Status in Canada: A Prospective Cohort Study." *American Journal of Public Health*, Vol. 93, No. 8, August, 2003, pp 1287-1293. [HUI3; Construct Validity]

Millar, Wayne J., "Chronic Pain." *Health Reports*, Vol. 7, No. 4, Spring, 1996, pp 47-53. [HUI3; Construct Validity of HUI3 pain scale]

Millar, Wayne J., "Vision Problems Among Seniors." *Health Reports*, Vol. 16, No. 1, October, 2004, pp 45-49. [HUI3 Vision; Construct Validity]

Millar, Wayne J., "Hearing Problems Among Seniors." *Health Reports*, Vol. 16, No. 4, June, 2005, pp 49-52. [HUI3 hearing; Construct Validity]

Mittmann, Nicole, Kostas Trakas, Nancy Risebrough, and Barbara A. Liu, "Utility Scores for Chronic Conditions in a Community-Dwelling Population." *Pharmacoeconomics*, Vol. 15, No. 4, April, 1999, pp 369-376. [HUI3; Scoring]

Mittmann, Nicole, Derek Chan, Kostas Trakas, and Nancy Risebrough, "Health Utility Attributes for Chronic Conditions." *Disease Management & Health Outcomes*, Vol. 9, No. 1, 2001, pp 11-21. [HUI3; each HUI3 attribute; Construct Validity]

Mo, Frank, Bernard C. K. Choi, Felix C. K. Li, and Joav Merrick, "Using Health Utility Index (HUI) for Measuring the Impact on Health-Related Quality of Life (HRQL) Among Individuals with Chronic Diseases." *Scientific World Journal*, Vol. 4, August, 27, 2004, pp 746-757. [HUI3; Construct Validity]

Mo, Frank, Howard Morrison, Bernard C. K. Choi, and Lianne Vardy, "Evaluation and Measurement of Health-Related Quality of Life for Individuals with Diabetes Mellitus by Health Utilities Index Mark 3 (HUI3) System." *The Scientific World Journal*, Vol. 6. November 14, 2006, pp 1412-1423. [HUI3; Construct Validity]

Nadeau, Claude, Suzy L. Wong, William M. Flanagan, Jillian Oderkirk, Doug Manuel, Ronald

Wall, and Mark S. Tremblay, "Development of a population-based microsimulation model of physical activity in Canada." *Health Reports*, Vol. 24, No. 10, October, 2013, pp 11-19. [HUI3; Use of HUI3 to Compute Health-Adjusted Life Expectancy]

Nault, F., Roger Roberge, and Jean-Marie Berthelot, "Espérance de vie et espérance de vie en santé selon le sexe, l'état matrimonial et le statut socio-économique au Canada." *Cahiers québécois de démographie*, Vol. 25, No. 2, 1996, 241-259 (In French). [HUI3; Construct Validity]

Newbold, K. Bruce, and Jeff Danforth, "Health Status and Canada's Immigrant Population." *Social Science and Medicine*, Vol. 57, No. 10, November, 2003, pp 1981-1995. [HUI3; Construct Validity]

Newbold, K. Bruce, and John K. Filice, "Health Status of Older Immigrants to Canada." *Canadian Journal on Aging*, Vol. 25, No. 3, Fall, 2006, pp 305-319. [HUI3; Construct Validity]

Ng, Edward, Kimberlyn M. McGrail, and Jeffrey A. Johnson, "Hospitalization Risk in a Type-2 Diabetes Cohort." *Health Reports*, Vol. 21, No. 3, September, 2010. [HUI3; Construct Validity; Predictive Validity]

Orpana, Heather M., Nancy Ross, David Feeny, Bentson McFarland, Julie Bernier, and Mark S. Kaplan, "The Natural History of Health-Related Quality of Life: A 10-year Cohort Study." *Health Reports*, Vol. 20, No. 1, March, 2009, pp 29-35. [HUI3; Construct Validity; Responsiveness]

Palta, Mari, Han-Yang Chen, Robert M. Kaplan, David Feeny, Dasha Cherepanov, and Dennis Fryback, "Standard Error of Measurement of 5 Health Utility Indexes Across the Range of Health for Use in Estimating Reliability and Responsiveness." *Medical Decision Making*, Vol. 31, No. 2, March-April, 2011, pp 260-269; published online October 8, 2010. [HUI2; HUI3; Reliability; Responsiveness]

Patten, Scott B., Jeanne V. A. Williams, Dina H. Lavorato, David Terriff, Luanne M. Metz, Sandy Berzins, and Andrew G. M. Bulloch, "Perceived Met and Unmet Health-Care Needs in a Community Population with Multiple Sclerosis." *International Journal of MS Care*, Vol. 14, No. 1, Spring, 2012, pp 2-8. [HUI3; Construct Validity]

Patten, Scott B., Jeanne V. A. Williams, Dina H. Lavorato, and Andrew G. M. Bulloch, "Recreational physical activity ameliorates some of the negative impact of major depression on health-related quality of life." *Frontiers in Psychiatry*, Vol. 4, Article 22, published online April 2, 2013. [HUI3; Construct Validity; Responsiveness]

Patten, Scott B., Jeanne V. A. Williams, Dina H. Lavorato, Andrew G. M. Bulloch, Gillian Currie, and Herb Emery, "Depression and painful conditions: patterns of association with health status and health utility ratings in the general population." *Quality of Life Research*, Vol. 23, No. 1, February, 2014, pp 363-371. [HUI3; Construct Validity]

Pereira, Claudia C. A., Mari Palta, John Mullahy, and Dennis G. Fryback, "Race and Preference-Based Health-Related Quality of Life Measures in the United States." *Quality of Life Research*, Vol. 20, No. 6, August, 2011, pp 969-978; published online December 23, 2010. [HUI2;



## HUI3; Construct Validity]

Pereira, Claudia Cristina de Agular, Mari Palta, and John Mullahy, "Health domains and race in generic preference-based health-related quality of life instruments in the United States literature." *Revista Brasileira de Estudos de Populacao*, Vol. 27, No. 2, July, 2010, pp 425-437. [HUI2; HUI3; Review Article]

Petrou, Stavros, Donna McCann, Catherine M. Law, Peter M. Watkin, Sarah Worsfold, and Colin R. Kennedy, "Health Status and Health-Related Quality of Life Preference-Based Outcomes of Children Who Are Aged 7 to 9 Years and Have Bilateral Permanent Childhood Hearing Impairment." *Pediatrics*, Vol. 120, No. 5, November, 2007, pp 1044-1052. [HUI3; Construct Validity; Hearing]

Petrou, Stavros, and Emil Kupek, "Estimating Preference-Based Health Utilities Index Mark 3 Utility Scores for Childhood Conditions in England and Scotland." *Medical Decision Making*, Vol. 29, No. 3, May, 2009, pp 291-303. Russell, Louise B., "Comment on Petrou and Kupek: Use Unadjusted HUI3 Scores, Not Adjusted Disutilities." *Medical Decision Making*, Vol. 30, No. 1, February, 2010, p 143. [HUI3; Construct Validity]

Phipps, Shelley, and Lynn Lethbridge, "Income and the Outcomes of Children." Analytical Studies Branch Research Paper Series, Business and Labour Market Analysis, Statistics Canada, Catalogue No. 11F00019MIE-No. 281, May, 2006. [HUI3; Construct Validity]

Pogany, Lisa, Ronald D. Barr, Amanda Shaw, Kathy N. Speechley, Maru Barrera, and Elizabeth Maunsell, "Health Status in Survivors of Cancer in Childhood and Adolescence." *Quality of Life Research*, Vol. 15, No. 1, February, 2006, pp 143-157. [HUI3; Construct Validity]

Pohar, Sheri L., C. Allyson Jones, Sharon Warren, Karen V. L. Turpin, and Kenneth Warren, "Health Status and Health Care Utilization of Multiple Sclerosis in Canada." *Canadian Journal of Neurological Sciences*, Vol. 34, No. 2, May, 2007, pp 167-174. [HUI3; Construct Validity]

Pohar, Sheri L., and C. Allyson Jones, "The Burden of Parkinson Disease (PD) and Concomitant Comorbidities." *Archives of Gerontology and Geriatrics*, Vol. 49, No. 2, September-October, 2009, pp 317-321; Epub January 7, 2009. [HUI3; Construct Validity]

Prus, Steven G., and Ellen Gee, "Gender Differences in the Influence of Economic, Lifestyle, and Psychosocial Factors on Later-life Health." *Canadian Journal of Public Health*, Vol. 94, No. 4, July-August, 2003, pp 306-309. [HUI3; Construct Validity]

Prus, Steven G., "A Life Course Perspective on the Relationship Between Socio-Economic Status and Health: Testing the Divergence Hypothesis." *Canadian Journal on Aging*, Vol 23, Supplement 1, 2004, pp S145-S153. [HUI3; Construct Validity]

Prus, Steven G., "Age, SES, and Health: A Population Level Analysis of Health Inequalities over the Lifecourse." *Sociology of Health & Illness*, Vol. 29, No. 2, March, 2007, pp 275-296. [HUI3; Construct Validity]

Prus, Steven G., Rania Tfaily, and Zhiqiu Lin, "Comparing Racial and Immigrant Health Status and Health Care Access in Later Life in Canada and the United States." *Canadian Journal on Aging*, Vol. 29, No. 3, September, 2010, pp 383-395. [HUI3 cognition; Construct Validity]

Public Health Agency of Canada Steering Committee on Health-Adjusted Life Expectancy, *Health-Adjusted Life Expectancy in Canada: 2012 Report by the Public Health Agency of Canada*. Ottawa, Public Health Agency of Canada, 2012. [HUI3; Construct Validity; Health-Adjusted Life Expectancy]

Raina, Parminder, Brenda Bonnett, David Waltner-Toews, Christel Woodward, and Tom Abernathy, "How Reliable are Selected Scales from Population-based Health Surveys? An Analysis Among Seniors." *Canadian Journal of Public Health*, Vol. 90, No. 1, January-February, 1999, pp 60-64. [Reliability of selected HUI3 items]

Ramage-Morin, Pamela L., "Successful Aging in Health Care Institutions." *Health Reports*, Supplement to Vol. 16, 2006, pp 47-56, in How Healthy are Canadians? Annual Report 2005, Statistics Canada Catalogue 82-003. [HUI3; Construct Validity of Pain, Speech, and Hearing items]

Ramage-Morin, Pamela L., "Chronic Pain in Canadian Seniors." *Health Reports*, Vol. 19, No. 1, March, 2008, pp 1-16. [HUI3; Construct validity of HUI3 pain and HUI3 emotion]

Ramage-Morin, Pamela L., Margot Shields, and Laurent Martel, "Health-promoting Factors and Good Health among Canadians in mid- to late Life." *Health Reports*, Vol. 21, No. 3, September, 2010. [HUI3; Construct Validity of HUI3 Attributes]

Ramage-Morin, Pamela L., and Heather Gilmour, "Chronic Pain at Ages 12 to 44." *Health Reports*, Vol. 21, No. 4, December, 2010. [HUI3; Construct Validity of HUI3 pain]

Ramage-Morin, Pamela L., Julie Bernier, Jason T. Newsom, Nathalie Huguet, Bentson H. McFarland, and Mark S. Kaplan, "Adopting leisure-time physical activity after diagnosis of a vascular condition." *Health Reports*, Vol. 23, No. 1, March, 2012, pp 17-29. [HUI3 disability categories; Construct Validity]

Ramage-Morin, Pamela L., and Heather Gilmour, "Urinary Incontinence and loneliness in Canadian seniors." *Health Reports*, Vol. 24, No. 10, October, 2013, pp 3-10. [HUI3; Use of HUI3 Disability Classification; Construct Validity]

Ratcliffe, Julie, Katherine Stevens, Terry Flynn, John Brazier, and Michael Sawyer, "An assessment of the construct validity of the CHU9D in the Australian adolescent general population." *Quality of Life Research*, Vol. 21, No. 4, May, 2012, pp 717-725; published online August 12, 2011. [HUI2; Construct Validity]

Rehm Jurgen, and Ulrich Frick, "Valuation of Health States in the US Study to Establish Disability Weights: Lessons from the Literature." *International Journal of Methods in Psychiatric Research*,

Vol. 19, No. 1, March, 2010, pp 18-33. [HUI3; Review Article]

Richardson, Chris G., and Bruno D. Zumbo, "A Statistical Examination of the Health Utilities Index - Mark III As a Summary Measure of Health Status for a General Population Health Survey." *Social Indicators Research*, Vol. 51, No. 2, 2000, pp 171-191. [HUI3; Construct Validity]

Rizzo, John A., Steven Pashko, Rebecca Friedkin, John Mullahy, and Jody L. Sindelar, "Linking the Health Utilities Index to National Medical Expenditure Survey Data." *PharmacoEconomics*, Vol. 13, No. 5, Part 1, May, 1998, pp 531-541. [HUI1; Construct Validity]

Rizzo, John A. and Jody L. Sindelar, "Linking Health-Related Quality-of-Life Indicators to Large National Data Sets." *PharmacoEconomics*, Vol. 16, No. 5, Part 1, November, 1999, pp 473-482. [HUI1; Construct Validity]

Roberge, Roger, Jean-Marie Berthelot, and Michael Wolfson, "Health and Socio-economic Inequalities." *Canadian Social Trends* No. 37, Summer, 1995, pp 15-19 (also available in French). [HUI3; Construct Validity]

Roberge, Roger, Jean-Marie Berthelot, and Michael Wolfson, "The Health Utility Index: Measuring Health Differences in Ontario by Socioeconomic Status." *Health Reports*, Vol. 7, No. 2, November, 1995, pp 25-32 (also available in French). [HUI3; Construct Validity]

Roberge, Roger, Jean-Marie Berthelot, and K. Cranswick, "Linking Disability-Adjusted Life Expectancy with Health Adjusted Life Expectancy: Calculations for Canada," Presented at the 9th meeting of the Health Expectancy Network (REVES 9), Rome, Italy, December 1996. [HUI3; Construct Validity]

Roberge, Roger, Jean-Marie Berthelot, and Michael C. Wolfson, "Adjusting Life Expectancy to Account for Morbidity in a National Population." *Quality of Life Newsletter*, No. 17, March, 1997 - August, 1997, pp 12-13. [HUI3; Scoring]

Roberge, Roger, Jean-Marie Berthelot, and K. Cranswick, "Adjusting Life Expectancy to Account for Disability in a Population: A Comparison of Three Techniques." *Social Indicators Research*, Vol. 48, 1999, pp 217-243. [HUI3; Scoring]

Robert, Stephanie A., Dasha Cherepanov, Mari Palta, Nancy Cross Dunham, David Feeny, and Dennis G. Fryback, "Socioeconomic Status and Age Variations in Health-Related Quality of Life: Results from the National Health Measurement Study." *Journal of Gerontology: Social Sciences*, Vol. 64B, No. 3, May, 2009, pp 378-389; E-pub March 23, 2009. [HUI3; Construct Validity]

Ross, Nancy A., Stéphane Tremblay, and Katie Graham, "Neighbourhood Influences on Health in Montreal, Canada." *Social Science & Medicine*, Vol. 59, No. 7, October, 2004, pp 1485-1494. [HUI3; Construct Validity]

Ross, Nancy A., Rochelle Garner, Julie Bernier, David H. Feeny, Mark S. Kaplan, Bentson H. McFarland, Heather M. Orpana, and Jillian Oderkirk, "Trajectories of Health-Related Quality of

Life by Socioeconomic Status in a Nationally Representative Canadian Cohort.” *Journal of Epidemiology and Community Health*, Vol. 66, No. 7, July, 2012, pp 593-598; published on-line March 24, 2011. [HUI3; Construct Validity]

Sanmartin, Claudia, and Kathy White, “Joint Canada/United States Survey of Health, 2002-03.” *Au Courant*, Statistics Canada Catalogue 82-005-XIE, October, 2004, pp 2-3. [HUI3; Construct Validity]

Sanmartin, Claudia, Edward Ng, Debra Blackwell, Jane Gentleman, Michael Martinez, and Catherine Simile, “Joint Canada/United States Survey of Health, 2002-03,” Statistics Canada Catalogue 82M0022-XIE, Ottawa, Minister of Industry, 2004. [HUI3; Construct Validity]

Sanmartin, Claudia, Jean-Marie Berthelot, Edward Ng, Kellie Murphy, Debra L. Blackwel, Jane F. Gentleman, Michael E. Martinez, and Catherine M. Simile, “Comparing health and health care use in Canada and the United States.” *Health Affairs*, Vol. 25, No. 4, July/August, 2006, pp 1133-1142. [HUI3; Construct Validity]

Sanmartin, Claudia, Kimberlyn McGrail, Mike Dunbar, and Eric Bohm, “Using Population Health Data to Measure Outcomes of Care: The Case of Hip and Knee Replacements.” *Health Reports*, Vol. 21, No. 2, June, 2010. [HUI3; Construct Validity]

Sarma, Sisira, and Wayne Simpson, “A Microeconomic Analysis of Canadian Health Care Utilization.” *Health Economics*, Vol. 15, No. 3, March, 2006, pp 219-239. [HUI3; Construct Validity]

Sawka, A. M., L. Thabane, A. Papionannou, A. Gafni, G. Ioannidis, E. A. Papadimitropoulos, W. M. Hopman, A. Crannery, D. A. Hanley, L. Pickard, and J. D. Adachi, “Health-Related Quality of Life Measurements in Elderly Canadians with Osteoporosis Compared to Other Chronic Medical Conditions: A Population-Based Study from the Canadian Multicentre Osteoporosis Study (CaMOS).” *Osteoporosis International*, Vol. 16, No. 12, December 2005, pp 1836-1840. [HUI3; Construct Validity]

Sawatzky, Richard, Teresa Liu-Ambrose, William C. Miller, and Carlo A. Marra, “Physical Activity as a Mediator of the Impact of Chronic Conditions on Quality of Life in Older Adults.” *Health and Quality of Life Outcomes*, Vol. 5, No. 68, December 19, 2007; <http://www.hqlo.com/content/5/1/68> (electronic journal) [HUI3; Construct Validity]

Schultz, Susan E., and Jacek A. Kopec, “Impact of Chronic Conditions.” *Health Reports*, Vol. 14, No. 4, August, 2003, pp 41-53 (also available in French). [HUI3; Construct Validity]

Sellers, Sherrill, Dasha Cherepanov, Janel Hanmer, Dennis G. Fryback, and Mari Palta, “Interpersonal discrimination and health-related quality of life among black and white men and women in the United States.” *Quality of Life Research*, Vol. 22, No. 6, August, 2013, pp 1307-1312; published online September 2, 2012; Erratum, Vol. 22, No. 6, August, 2013, pp 1313-1318; published online January 10, 2013. [HUI3; Construct Validity]

Shaw, Amanda K., Howard I. Morrison, Kathy N. Speechley, Elizabeth Maunsell, Maru Barrera, Dena Schanzer, Lisa Pogany, and Marie Desmeules, "The Late Effects Study: Design and Subject Representativeness of a Canadian Multi-centre Study of Late Effects of Childhood Cancer." *Chronic Diseases in Canada*, Vol. 25, No. 3, Summer, 2004, pp 1-8. [HUI3]

Shields, Margot, "Proxy Reporting of Health Information." *Health Reports*, Vol. 15, No. 3, May, 2004, pp 21-33. [HUI3]

Shields, Margot, "Use of Wheelchairs and other Mobility Support Devices." *Health Reports*, Vol. 15, No. 3, May, 2004, pp 37-41. [HUI3 ambulation; Construct Validity]

Shields, Margot, and Laurent Martel, "Health Living Among Seniors." *Health Reports*, Vol. 16, Supplement, March, 2006, pp 7-20. Statistics Canada Catalogue 82-003. [HUI3; construct validity]

Shields, Margot, Rochelle E. Garner, and Kathryn Wilkins, "Dynamics of smoking cessation and health-related quality of life among Canadians." *Health Reports*, Vol. 24, No. 2, February, 2013. [HUI3; Construct Validity; Smoking]

Shooshtari, Shahin, Verena Menec, and Robert Tate, "Comparing Predictors of Positive and Negative Health Between Younger (25-54) and Older (55+) Canadian Adults: A Longitudinal Study of Well-Being." *Research on Aging*, Vol. 29, No. 6, November, 2007, pp 512-554. [HUI3; Construct Validity of HUI3 Cognition, Hearing, and Pain]

Sikdar, Khokan C., Peizhong Peter Wang, Don MacDonald, and Veerabhadra G. Gadag, "Diabetes and Its Impact on Health-Related Quality of Life: A Life Table Analysis." *Quality of Life Research*, Vol. 19, No. 6, August, 2010, pp 781-787. [HUI3; Construct Validity; Health-Adjusted Life Expectancy]

Statistics Canada, *The 1991 General Social Survey - Cycle 6: Health - Public Use Microdata File Documentation and User's Guide*. Ottawa: Statistics Canada, June, 1992. [Description]

Statistics Canada, *Health Status of Canadians: Report of the 1991 General Social Survey*. Ottawa: Statistics Canada, Catalogue 11-612E, No. 8, March, 1994.

Statistics Canada, *Statistical Report on the Health of Canadians*. Ottawa: Statistics Canada, Catalogue 82-570-X1E, September, 1999. Available from <http://www.hc-sc.gc.ca/hppb/phdd/report/eng/report.html>

Steensma, Colin, Lidia Loukine, Heather Orpana, Ernest Lo, Bernard Choi, Chris Waters, and Sylvie Martel, "Comparing life expectancy and health-adjusted life expectancy by body mass index category in adult Canadians: a descriptive study." *Population Health Metrics*, Vol. 11: 21, published online November 19, 2013 [HUI3; Construct Validity] <http://www.pophealthmetrics.com/content/pdf/1478-7954-11-21.pdf>

Sun, Jian, "Adjusting Distributions of the Health Utilities Index Mark 3 Utility Scores of Health-Related Quality of Life." *Quality of Life Research*, Vol. 12, No. 1, February, 2003, pp 11-20.

[HUI3; Construct Validity]

Sutton, Deborah A., Harvey Moldofsky, and Elizabeth M. Badley, "Insomnia and Health Problems in Canadians." *Sleep*, Vol. 24, no. 6, September 15, 2001, pp 665-670. [HUI3 pain; Construct Validity]

Tambay, Jean-Louis and Gary Catlin, "Sample Design of the National Population Health Survey." *Health Reports*, Vol. 7, No. 1, 1995, pp 29-38. [HUI3; Survey Design]

Terriff, D. L., J. V. A. Williams, S. B. Patten, D. H. Lavorato, and A. G. M. Bulloch, "Patterns of disability, care needs, and quality of life in people with Parkinson's disease in a general population sample." *Parkinsonism and Related Disorders*, Vol. 18, No. 7, August, 2012, pp 828-832. [HUI3; Construct Validity]

Thomas, Vince Salazar, Sultan Darvesh, Chris MacKnight, and Kenneth Rockwood, "Estimating the Prevalence of Dementia in Elderly People: A Comparison of the Canadian Study of Health and Aging and National Population Health Survey Approaches." *International Psychogeriatrics*, Vol. 13, Supplement 1, 2001, pp 169-175. [HUI3; Construct Validity]

Trakas, Kostas, Kate Lawrence, and Neil H. Shear, "Utilization of Health Care Resources by Obese Canadians." *Canadian Medical Association Journal*, Vol. 160, No. 10, May 18, 1999, pp 1457-1462. [HUI3; Construct Validity]

Trakas, Kostas, P. I. Oh, S. Singh, N. Risebrough, and Neil H. Shear, "The Health Status of Obese Individuals in Canada." *International Journal of Obesity*, Vol. 25, No. 5, May, 2001, pp 662-668. [HUI3; Construct Validity; Interpretation]

Trottier Helen, Laurent Martel, Christian Houle, Jean-Marie Berthelot, and J. Légaré, "Living at Home or in an Institution: What Makes the Difference for Seniors." *Health Reports*, Vol. 11, No. 4, Spring 2000, pp 49-61; Statistics Canada Catalog # 82-003-XPB. [HUI3; Construct Validity]

Tully, P. and C. Mohl, "Older Residents of Health Care Institutions." *Health Reports*, Vol. 7, No. 3, 1995, pp 27-30. [HUI3; Description]

van Doorslaer, Eddy, and Andrew M. Jones, "Inequalities in Self-Reported Health: Validation of a New Approach to Measurement." *Journal of Health Economics*, Vol 22, No. 1, January, 2003, pp 61-87. [HUI3; Construct Validity]

van Doorslaer, Eddy, and Xander Koolman, "Explaining the Differences in Income-Related Health Inequalities Across European Countries." *Health Economics*, Vol. 13, No. 7, July, 2004, pp 609-628. [HUI3; Construct Validity]

Vasiliadis, Helen-Maria, Alain Lesage, Carol Adair, Philip S. Wang, and Ronald C. Kessler, "Do Canada and the United States Differ in Prevalence of Depression and Utilization of Services?" *Psychiatric Services*, Vol. 58, No. 1, January, 2007, pp 63-71. [HUI3; Construct validity of HUI3 emotion item]



Verrips, G. H. W., M. C. Stuifbergen, A. L. den Ouden, G. J. Bonsel, R. J. B. J. Gemke, N. Paneth, and S. P. Verloove-Vanhorick, "Measuring Health Status Using the Health Utilities Index: Agreement Between Raters and Between Modalities of Administration." *Journal of Clinical Epidemiology*, Vol. 54, No. 5, May, 2001, pp 475-481. [HUI3; Inter-rater Reliability; Inter-mode Reliability; Child Health]

Vozoris, Nicholas T., and Valerie S. Tarasuk, "The Health of Canadians on Welfare." *Canadian Journal of Public Health*, Vol. 95, No. 2, March-April, 2004, pp 115-120. [HUI3; Construct Validity]

Wagstaff, Adam, and Eddy van Doorslaer, "Overall versus Socioeconomic Health Inequality: A Measurement Framework and Two Empirical Illustrations." *Health Economics*, Vol. 13, No. 3, March, 2004, pp 297-301. [HUI3]

Wall, Ron, and Robyn Foster, "Using Canada's Health Data: Beyond Life Expectancy." *Health Policy Research Bulletin*, Vol. 1, Issue 3, March, 2002, pp 32-33; 39. [HUI3; Descriptive]

Wang, Qinan, and Geraldine Chen, "The Health Status of the Singaporean Population As Measured by the Health Utilities Index Mark III System." *Singapore Medical Journal*, Vol. 40, No. 6, 1999, pp 389-396. [Cross-Cultural Validation; Description]

Wee, Hwee-Lin, Yin-Bun Cheung, Wai-Chong Loke, Chee-Bank Tan, Mun-Hong Chow, Shu-Chuen Li, Kok-Yong Fong, David Feeny, David Machin, Nan Luo, and Julian Thumboo, "The Association of Body Mass Index with Health-Related Quality of Life: An Exploratory Study in a Multi-Ethnic Asian Population," *Value in Health*, Vol. 11, Supplement 1, March, 2008, pp S105-S114. [HUI2; HUI3; Construct Validity]

Wilkins, Kathryn, "Predictors of Death in Seniors." *Health Reports*, Supplement to Vol. 16, 2006, pp 57-67, in *How Healthy are Canadians? Annual Report 2005*, Statistics Canada Catalogue 82-003. [HUI3; Construct Validity; Predictive Validity]

Wolfson, Michael C., "Health-Adjusted Life Expectancy." *Health Reports*, Vol. 6, No. 1, Summer, 1996, pp 41-46. [HUI3; Construct Validity; Health-Adjusted Life Expectancy]

Wolfson, Michael, and Geoff Rowe, "Disability and Informal Support: Prospects for Canada," in Steven B. Cohen and James M. Lepkowski, eds., *Eighth Conference on Health Survey Research Methods*. Hyattsville, MD, National Center for Health Statistics, July, 2005, DHHS Publication No. (PHS) 04-1013, pp 15-22. [HUI3; Construct Validity]

Woodcock, Kathryn, and Jason D. Pole, "Health profile of deaf Canadians: Analysis of the Canada Community Health Survey." *Canadian Family Physician*, Vol. 53, No. 12, December, 2007, pp e1-e7. [HUI3 hearing; Construct Validity]

Woodcock, Kathryn, and Jason D. Pole, "Educational attainment, labour force status and injury: a comparison of Canadians with and without deafness and hearing loss." *International Journal of*

*Rehabilitation Research*, Vol. 31, No. 4, December, 2008, pp 297-304. [HUI3 hearing; Construct Validity]

Xi, Guoliang, Ian McDowell, Rama Nair, and Robert Spasoff, "Income Inequality and Health in Ontario: A Multilevel Analysis." *Canadian Journal of Public Health*, Vol. 96, No. 3, May/June, 2005, pp 206-211. [HUI3; Construct Validity]