## Studying the doctor-patient relationship: Assessing patient perceptions of health care

#### Ron D. Hays, Ph.D. UCLA Department of Medicine

#### May 8, 2008

Challenges in Clinical Health Services (HS 265)

## Schedule

- 8:15-9:00am
  - Patient perspective on quality of care
- 9:00-9:15am
  - Rate Wenger (clinical ethics)
- 9:15-9:50am
  - Patient perspective on quality of care

http://www.last.fm/music/Michael+Lloyd



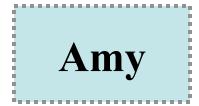














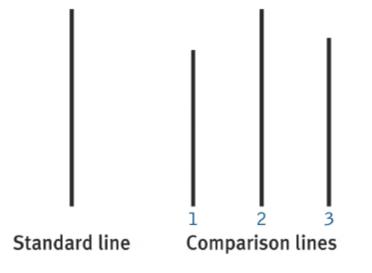




Asch-board

3

# Which comparison line is the same length as the standard line?



## Watch

http://www.youtube.com/watch?v=DKivdMAgdeA

## 3 Paracute/4 People Dilemma

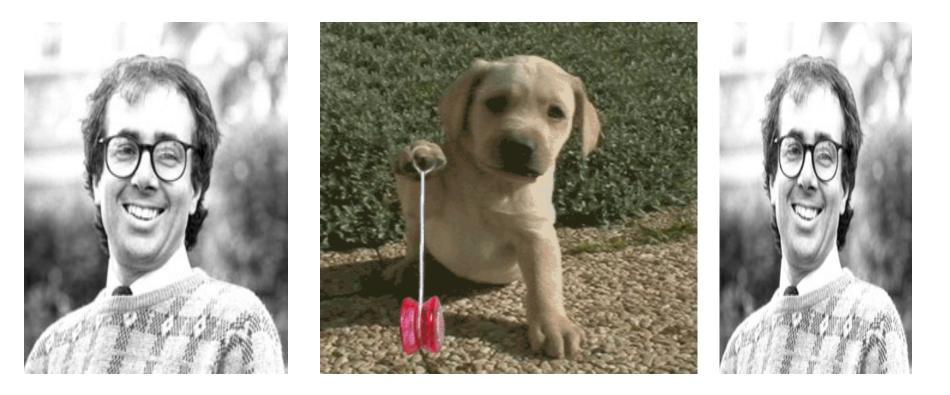
• World's Smartest Man



- George Bush
- Pope
- Nova Southeastern University student



## The doctor is happy but what about the patient?



### CAHPS®

- Public domain surveys, reports, and QI tools focused on quality of care from the patient's perspective
- Information patients want and need to help select plans, groups, and providers
- Core items applicable to everyone, supplemented by items targeted to specific groups

<u>https://www.cahps.ahrq.gov/</u>

## CAHPS is the Standard

- Consumer Assessment of Healthcare Providers and Systems
- NCQA, CMS, State Medicaid, etc.
- Many spheres
  - Plan, clinician/group, dialysis, hospital, nursing home, home health
  - American Indian, chiropractic, dental, behavioral health, PWMI, health information technology, medical home, pharmacy, health literacy/cultural competency

https://www.cahps.ahrq.gov/content/products/PDF/ PocketGuide.pdf

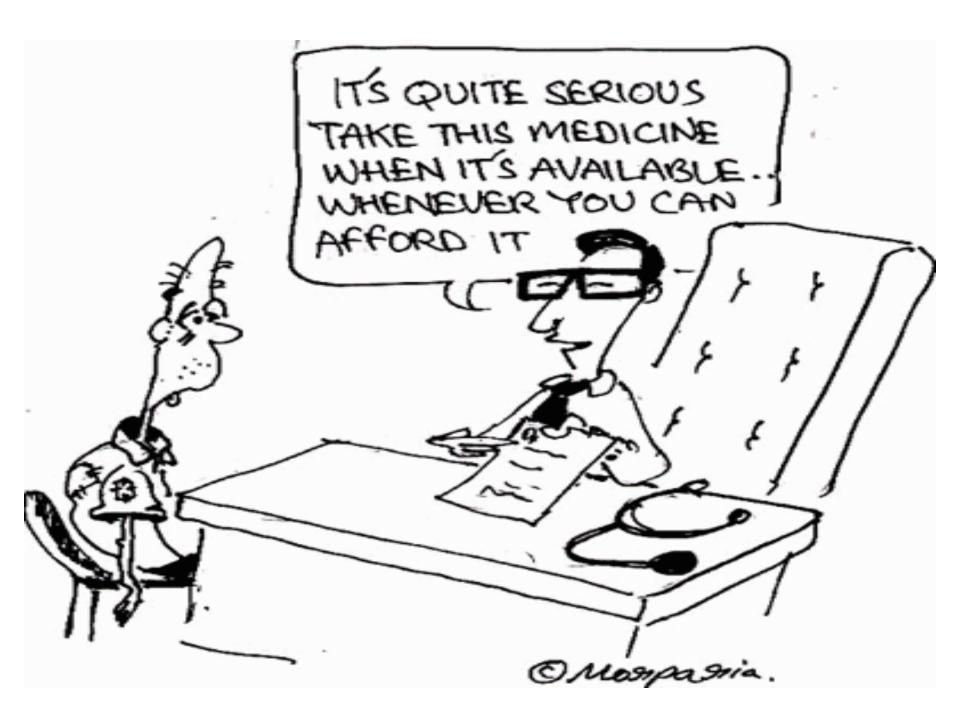
## Survey Development

- Review literature
- Focus groups
- Cognitive interviews
- Readability
- Field test
- Translate

http://www.chime.ucla.edu/measurement/qualitativemethods.htm

## Important Issues

- Domains (technical quality?)
- Periodic or visit-specific?
- Items
  - How many?
  - Global ratings versus reports
- Response options
  How many?
- Mode
- Casemix adjustment



#### **Other Important Issues**

- Sample size
- Response rate
- Race/ethnic differences



"What fits your busy schedule better, exercising one hour a day or being dead 24 hours a day?"

#### CAHPS Articles (2007 and 2006)

- Zaslavsky, A. M. (2007). Using hierarchical models to attribute sources of variation in consumer assessments of health care. Stat Med., 26, 1885-1900.
- Beavais, B., Wells. R., Vasey, J., & Dellifraine, J. L. (2007). Does money really matter? The effects of fiscal margin on quality of care in military treatment facilities. <u>Hosp Top</u>, <u>85</u>, 2-15.
- Caldis, T. (2007). Composite health plan quality scales. <u>Health Care</u> <u>Financing Review</u>, <u>28</u>, 95-107.
- Isetts, B. J., et al. (2006). Effects of collaborative drug therapy management on patients' perceptions of care and health-related quality of life.Res Social Adm Pharm. 2(1), 129-42.
- Kang, N. M., et al. (2006). The evaluation criteria of internet health information. Stud Health Technol Inform. 122:886
- Gillies, R. R., et al. (2006). The impact of health plan delivery system organization on clinical quality and patient satisfaction. Health Serv Res. 41(4 Pt 1):1181-99
- Otani, K. (2006). Enrollees' global rating process of health care with the national CAHPS Benchmarking Database. Health Care Management Review, 31 (3), 205-212.
- Darby, C. et al. (2006). Consumer Assessment of Health Providers and Systems (CAHPS): evolving to meet stakeholder needs. Am J Med Qual. 21(2),144-147

## CAHPS Articles (2005-2006)

- Delnoij, D. M. et al. (2006). Made in the USA: the import of American Consumer Assessment of Health Plan Surveys (CAHPS) into the Dutch social insurance system. Eur J Public Health. 16(6),652-9.
- Arah, O. A. et al. (2006). Psychometric properties of the Dutch version of the Hospital-level Consumer Assessment of Health Plans Survey instrument. Health Serv Res. 41(1), 284-301.
- Bann, C. M. et al. (2005). Evaluating the effect of translation on Spanish speakers' ratings of Medicare. Health Care Financ Review, 26(4), 51-65.
- Gary, T. L. et al. (2005). Patient satisfaction, preventive services, and emergency room use among African-Americans with type 2 diabetes. Dis Manag., 8 (6), 361-71.
- Crofton, C. et al. (2005). The CAHPS Hospital Survey: development, testing, and use. Jt Comm J Qual Patient Saf., 31(11), 655-9.
- Robins, C. S. et al. (2005). Financial vulnerability among Medicare managed care enrollees. Health care Financing Review, 26 (3), 81-92.

## CAHPS Articles (2005)

- Sofaer, S. et al. (2005). What do consumers want to know about the quality of care in hospitals? Health Serv Res., 40(6 Pt 2):2018-36.
- Goldstein, E. et al. (2005). Measuring hospital care from the patients' perspective: an overview of the CAHPS Hospital Survey development process. Health Serv Res., 40(6 Pt 2), 1977-95.
- Fredrickson, D. D., et al. (2005). Optimal design features for surveying low-income populations. J Health Care Poor Underserved, 16(4), 677-90.
- Scholle, S. H. et al. (2005). The relationship between quality and utilization in managed care. Am J Manag Care, 11(8), 521-7.
- Scanlon, D. P., et al. (2005). Competition and health plan performance: evidence from health maintenance organization insurance markets. Med Care, 43(4), 338-46.
- Shea, J. A. et al. (2005). Developing an illustrated version of the Consumer Assessment of Health Plans (CAHPS). Jt Comm J Qual Patient Safety, 31(1), 32-42.
- Kim, M. et al. (2005). Adjusting Pediatric Consumer Assessment of Health Plans Study (CAHPS) Scores to Ensure Fair Comparison of Health Plan Performances. Med Care, 43(1), 44-52.

## **RAND** Coauthored

- Brown, J. A., Nederend, S. E., Hays, R. D., Short, P. F., & Farley, D. O. (1999). Special issues in assessing care of Medicaid recipients. <u>Medical Care</u>, <u>37</u>, MS79-88.
- Carman, K. L., Short, P. F., Farley, D. O., Schnaier, J. A., Elliott, D. B., & Gallagher, P. M. (1999). Epilogue: Early lessons from CAHPS demonstrations and evaluations. <u>Medical Care</u>, <u>37</u>, MS97-105.
- Fowler, F. J., Gallagher, P. M., & Nederend, S. (1999). Comparing telephone and mail responses to the CAHPS survey instrument. <u>Medical Care, 37</u>, MS41-49.
- Harris-Kojetin, L. D., Fowler, F. J., Brown, J. A., Schnaier, J. A., & Sweeney, S. F. (1999). The use of cognitive testing to develop and evaluate CAHPS 1.0 core survey items. <u>Medical Care</u>, <u>37</u>, MS10-21.
- Hays, R. D., Shaul, J. A., Williams, V. S. L., Lubalin, J. S., Harris-Kojetin, L., Sweeny, S. F., & Cleary, P. D. (1999). Psychometric properties of the CAHPSTM 1.0 Survey measures. <u>Medical Care</u>, <u>37</u>, MS22-31.
- McGee, J., Kanouse, D. E., Sofaer, S., Hargraves, J. L., Hoyt, E. & Kleimann, S. (1999). Making survey results easy to report to consumers: How reporting needs guided survey design in CAHPS. <u>Medical Care</u>, <u>37</u>, MS32-40.

- Schnaier, J. A., Sweeny, S. F., Williams, V.S.L., Kosiask, B., Lubalin, J. S., Hays, R. D., & Harris-Kojetin, L. (1999). Special issues addressed in the CAHPSTM Survey of Medicare managed care beneficiaries. <u>Medical Care</u>, <u>37</u>, MS69-78.
- Weidmer, B., Brown, J., & Garcia, L. (1999). Translating the CAHPS 1.0 survey instruments into Spanish. <u>Medical Care</u>, <u>37</u>, MS89-96.
- Coulter, I.D., Hurwitz, E. L., Spritzer, K., Genovese, B. J., & Hays, R. D. (2000). A chiropractic supplemental item set for the Consumer Assessment of Health Plans Study. <u>Topics in Clinical Chiropractic</u>, <u>7</u>, 50-56.
- Spranca, M., Kanouse, D. E., Elliott, M., Short, P. F., Farley, D. O., & Hays, R. D. (2000). Do consumer reports of health plan quality affect health plan selection? <u>Health Services Research</u>, <u>35</u>, 933-947.
- Elliott, M. N., Swartz, R., Adams, J., Spritzer, K. L., & Hays, R. D. (2001). Casemix adjustment of the National CAHPS® Benchmarking Data 1.0: A violation of model assumptions? <u>Health Services Research</u>, <u>36</u>, 555-573.
- Kimmerling, M., Spranca, M., Kanouse, D., & Phillips, S. (2001). Testing the usability and usefulness of the CAHPS® Decision Helper, version 2.0. Santa Monica, CA: RAND, DRU-2330-AHRQ.

- Marshall, G. N., Morales, L. S., Elliott, M., Spritzer, K., & Hays, R. D. (2001). Confirmatory factor analysis of the Consumer Assessment of Health Plans Study (CAHPS®) 1.0 core survey. <u>Psychological</u> <u>Assessment</u>, <u>13</u>, 216-229.
- Morales, L. S., Elliott, M. N., Weech-Maldonado, R., Spritzer, K.L., & Hays, R. D. (2001). Differences in CAHPS® adult survey ratings and reports by race and ethnicity: An analysis of the National CAHPS® Benchmarking Data 1.0. <u>Health Services Research</u>, <u>36</u>, 595-617.
- Morales, L. S., Weidmer, B., & Hays, R. D. (2001). Readability of CAHPS 2.0 child and adult core surveys. In M. L. Cynamon & R. A. Kulka (eds), <u>Seventh Conference on Health Survey Research</u> <u>Methods</u> (pp. 83-90). DHSS Publications No. (PHS) 01-1013, Hyattsville, Maryland.
- Weech-Maldonado, R., Morales, L. S., Spritzer, K., Elliott, M., & Hays, R. D. (2001). Racial and ethnic differences in parents' assessments of pediatric care in Medicaid managed care. <u>Health</u> <u>Services Research</u>, <u>36</u>, 575-594.
- Weech-Maldonado, R., Weidmer, B., Morales, L., Schoeff, D., & Hays, R. D. (2001). Cross-cultural adaptation of survey instruments: The CAHPS experience. In M. L. Cynamon & R. A. Kulka (eds), <u>Seventh Conference on Health Survey Research Methods</u> (pp. 75-82). DHSS Publications No. (PHS) 01-1013, Hyattsville, Maryland.
- Damiano, P.C., Willard, J.C., Tyler, M.C., Momany, E. T., Hays, R.D., Kanouse, D.E., & Farley, D.O. (2002). CAHPS in practice: The Iowa demonstration. <u>Journal of Ambulatory Care Management</u>, <u>25</u>, 32-42.

- Farley, D. O., Elliott, M. N., Short, P. F., Damiano, P., Kanouse, D. E., & Hays, R. D. (2002). Impact of CAHPS performance information on health plan choices by Iowa Medicaid beneficiaries. <u>Medical Care Research and Review</u>, <u>59</u>, 319-336.
- Farley, D.O., Short, P. F., Elliott, M. N., Kanouse, D. E., Brown, J. A., & Hays, R. D. (2002). Effects of CAHPS health plan performance on plan choices by New Jersey Medicaid beneficiaries. <u>Health</u> <u>Services Research</u>, <u>37</u>, 985-1007.
- Harris-Kojetin, L.D., Jaël, E.M.F., Smith, F., Kosiask, B. & Brown, J. (2002). What does voluntary disenrollment from Medicare+choice plans mean to beneficiaries? <u>Health Care Financing Review</u>, <u>24</u>, 117-132.

Short, P. F., McCormack, L., Hibbard, J., Shaul, J. A., Harris-Kojetin, L., Fox, M. H., Damiano, P., Uhrig, J. D. & Cleary, P. D. (2002). Similarities and differences in choosing health plans. <u>Medical Care, 40</u>, 289-302.

- Weidmer, B., Weech-Maldonado, R., Darby, C. & Morales, L.S. (2002). Letter to the Editor: Health risks of Latino children. <u>JAMA</u>, 288(16): 1982-1983.
- Elliott, M.N. (2003). <u>Case-mix adjustment. Implementation of</u> <u>Medicare CAHPS® Fee-for-Service survey</u>. Final report for the 2001 Survey, pps. 39-42.

- Elliott, M.N. (2003). <u>Problem-oriented reporting</u>. <u>Implementation of</u> <u>Medicare CAHPS® Fee-for-Service survey</u>. Final report for the 2001 Survey, pps. 69-72.
- Elliott, M.N., Hambarsoomians, K., Edwards, C., & Solomon, M. (2003). <u>Analysis of case-mix strategies and recommendations for 2000 Medicare Fee-For-Service CAHPS®</u>. DRU-2937-CMS.
- Hargraves, J. L., Hays, R.D., & Cleary, P.D. (2003). Psychometric properties of the Consumer Assessment of Health Plans Study (CAHPS®) 2.0 adult core survey. <u>Health Services Research</u>, <u>38</u>, 1509-1527.
- Hays, R.D., Chong, K., Brown, J., Spritzer, K.L., & Horne, K. (2003). Patient reports and ratings of individual physicians: An evaluation of the DoctorGuide and CAHPS provider-level surveys. <u>American</u> <u>Journal of Medical Quality</u>, <u>18</u> (5), 190-196.
- Iannachione, V.G., Elliott, M.N., Campbell, L.N., & Lance T. (2003). <u>Sample selection and weighting</u>. Implementation of Medicare <u>CAHPS® Fee-for-Service survey</u>. Final report for the 2001 Survey, pps. 23-28.
- Morales, L. S., Weech-Maldonado, R., Elliott, M.N., Weidmer, B., & Hays, R. D. (2003). Psychometric properties of the Spanish Consumer Assessment of Health Plans Survey (CAHPS). <u>Hispanic</u> Journal of Behavioral Sciences., <u>25</u> (3), 386-409.

- Weech-Maldonado, R., Morales, L. S., Elliott, M., Spritzer, K., Marshall, G. & Hays, R. D. (2003). Race/ethnicity, language and patients' assessments of care in Medicaid managed care. <u>Health</u> <u>Services Research</u>, <u>38</u> (3), 789-808.
- Damiano, P.C., Elliott, M., Tyler, M. C., & Hays, R D. (2004). Differential use of the CAHPS 0-10 global rating scale by Medicaid and commercial populations. <u>Health Services and Outcomes</u> <u>Research Methodology</u>, <u>5</u>, 193-205.
- Kanouse, D.E., Spranca, M,. & Vaiana, M. (July 2004). Reporting about health care quality: A guide to the galaxy. <u>Health Promotion and Practice</u>, <u>5</u> (3), pp. 222-231(10).
- Morales, L., Elliott, M., Brown, J., Rahn, C., & Hays, R. D. (2004). The applicability of the Consumer Assessments of Health Plans Survey (CAHPS) to Preferred Provider Organizations in the United States: A discussion of industry concerns. <u>International Journal of</u> <u>Quality in Health Care</u>, <u>16</u>, 219-227.
- Weech-Maldonado, R., Elliott, M., Morales, L. S., Spritzer, K. L., Marshall, G., & Hays, R. D. (2004) Health plan effects on patient assessments of Medicaid managed care among racial/ethnic minorities. Journal of General Internal Medicine, <u>19</u>, 136-145.
- Castle, N., Brown, J., Hepner, K.A., & Hays, R.D. (Dec 2005). Review of the literature on survey instruments used to collect data on hospital patients' perception of care. <u>Health Services Research</u>, vol 40, issue 6p2, pp. 1996-2017.

- Darby, C., Hays, R.D., & Kletke, P. (2005). Development and evaluation of the CAHPS® Hospital Survey. <u>Health Services</u> <u>Research</u>, vol 40, issue 6p2, pp. 1973-1976.
- deVries, H., Elliott, M.N., Hepner, K.A., Keller, S.D., & Hays, R.D. (2005). Equivalence of mail and telephone responses to the CAHPS® Hospital Survey. <u>Health Services Research</u>, vol 40, issue 6p2, pp. 2120-2139.
- Elliott, M.N., Edwards, C., Angeles, J., Hambarsoomians, K., & Hays, R.D. (2005). Patterns of unit and item nonresponse in the CAHPS® Hospital Survey. <u>Health Services Research</u>, vol 40, issue 6p2, pp. 2096-2119.
- Elliott, M.N., Farley, D., Hambarsoomians, K., & Hays, R.D. (2005). Do Medicaid and commercial CAHPS scores correlate within plans? A New Jersey case study. <u>Medical Care</u>, <u>43</u>, 1027-1033.
- Hepner, K.A., Brown, J.A., Hays, R.D. (2005). Comparison of mail and telephone in assessing patient experiences in receiving care from medical group practices. <u>Evaluation and the Health</u> <u>Professions</u>, 28, 377-389.
- Hurtado, M., Angeles, J., Blahut, S. & Hays, R.D. (2005). Assessment of the equivalence of the Spanish and English versions of the CAHPS® Hospital Survey on the quality of inpatient care. <u>Health Services Research</u>, vol 40, issue 6p2, pp. 2140-2161.

- Keller, S., O'Malley, J., Hays, R.D., Mathew, R.A., Zaslavsky, A.M., Hepner, K.A., & Cleary, P.D. (2005). Methods used to streamline the CAHPS® Hospital Survey. <u>Health Services Research</u>, vol 40, issue 6p2, pp. 2057-2077.
- Levine, R.E., Fowler, F.J. Jr., & Brown, J.A. (2005). Role of cognitive testing in the development of the CAHPS® Hospital Survey. <u>Health Services Research</u>, vol 40, issue 6p2, pp. 2037-2056.
- O'Malley, A.J., Zaslavsky, A.M., Elliott, M.N., Zaborski, L. & Cleary, P.D. (2005). Case-mix adjustment of the CAHPS® Hospital Survey. <u>Health Services Research</u>, vol 40, issue 6p2, pp. 2162-2181.
- O'Malley, A.J., Zaslavsky, A.M., Hays, R.D., Hepner, K.A., Keller, S., & Cleary, P.D. (2005). Exploratory factor analyses of the CAHPS® pilot survey responses across and within medical, surgical, and obstetric services. <u>Health Services Research</u>, vol 40, issue 6p2, pp. 2078-2095.
- Solomon, L., Hays, R. D., Zaslavsky, A., & Cleary, P. D. (2005). Psychometric properties of the Group-Level Consumer Assessment of Health Plans Study (G-CAHPS) instrument. <u>Medical Care</u>, <u>43</u>, 53-60.
- Morales, L. S., Elliott, M. N., Weech-Maldonado, R., & Hays, R. D. (2006). The impact of interpreters on parents' experiences with ambulatory care for their children. <u>Medical Care Research and</u> <u>Review</u>, <u>63</u>, 110-128.

- Elliott, M.N., Zaslavsky, A.M., & Cleary, P.D. (2006). Are finite population corrections appropriate in profiling institutions? <u>Health</u> <u>Services and Outcomes Research Methodology</u>, <u>6</u>, 153-156.
- Fongwa, M.N., Cunningham, W., Weech-Maldonado, R., Gutierrez, P.R., & Hays, R.D. (2006). Comparison of data quality for reports and ratings of ambulatory care by African Americans and White Medicare Managed Care enrollees. <u>Journal of Aging and Health</u>, <u>18</u> (5), 707-721.
- Ngo-Metzger, Q., Telfair, J., Sorkin, D.H., Weidmer, B., Weech-Maldonado, R., Hurtado, M., & Hays, R. (October 2006).
  <u>Cultural Competency and Quality of Care: Obtaining the Patient's</u> <u>Perspective</u>, The Commonwealth Fund.
- Reise, S. P., Meijer, R. R., Ainsworth, A T., Morales, L S., & Hays, R D. (2006). Application of group-level item response models in the evaluation of consumer reports about health plan quality. <u>Multivariate Behavioral Research</u>, <u>41</u>, 85-102.
- Hays, R.D., Brown, J., Brown, L.U., Spritzer, K.L., and Crall, J.J. (2006). Classical test theory and item response theory analyses of multi-item scales assessing parents' perceptions of their children's dental care. <u>Medical Care</u>, <u>44</u> (11 Suppl 3), S60-S68.
- Derose, K., Kanouse, D.E., Weidmer, B., Weech-Maldonado, R., Garcia, R., Hays, R.D. (2007). Developing a Spanish-language sample report for CAHPS. <u>Joint Commission Journal on Quality and</u> <u>Patient Safety</u>, <u>33</u>, 681-688.
- Elliott, M. N., Beckett, M K., Kanouse, D. E., Hambarsoomians, K., & Bernard, S. (2007). Problem-oriented reporting of consumer evaluations of health care. <u>Medical Care Research and Review</u>, 64(5): 600-614.

- Sangl, J., Buchanan, J., Cosenza, C., Bernard, S., Keller, S., Mitchell, N., Brown, J., Castle, N., Sekscenski, E., & Larwood, D. (2007). The development of a CAHPS instrument for nursing home residents (NHCAHPS). J Aging Soc Policy, 19(2), 63-82.
- Reise, S. P., Morizot, J., & Hays, R. D. (2007). The role of the bifactor model in resolving dimensionality issues in health outcomes measures. <u>Quality of Life Research</u>, <u>16</u> (supplement 1), 19-31.
- Spranca, M. D., Elliott, M.N., Shaw, R. & Kanouse, D. E. Disenrollment information and Medicare plan choice: Is more information better? (2007). <u>Health Care Financing Review, 28(3)</u>: 47-59.
- Teleki, S., Kanouse, D. E., Elliott, M. N., Hiatt, L., de Vries, H, & Quigley D. D. (2007). Understanding the reporting practices of CAHPS sponsors. <u>Health Care Financing Review</u>, <u>28(3)</u>, 17-30
- Weech-Maldonado, R., Fongwa, MN., Gutierrez, P., & Hays, R. D. (2008). Language and regional differences in evaluations of Medicare managed care by Hispanics. <u>Health Services Research</u>., 43 (2), 552-568.
- Elliott, M. N., Beckett, M. K., Chong, K., Hambarsoomians, K., & Hays, R. D. (2008). How do proxy responses and proxy-assisted responses differ from what Medicare beneficiaries might have reported about their health care? <u>Health Services Research</u>, <u>43</u>, 833-848.
- McCaffrey, D. F., & Elliott, M. N. (2008). Power of tests for a dichotomous independent variable measured with error. <u>Health Services</u> <u>Research</u>, <u>43</u>, 1085-1101.
- Weech-Maldonado, R., Elliott, M. N., Oluwole, A., Schiller, K. C., & Hays, R. D. (in press). Survey response style and differential use of CAHPS rating scales by Hispanics. <u>Medical Care</u>.
- Quigley, D., Elliott, M. N., Hays, R. D., Klein, D., & Farley, D. (in press). Building a bridge: Continuity in measuring patient experiences of care when converting to the CAHPS® hospital survey. <u>Medical Care</u>.

## Thank you and remember to





