

**CURRICULUM VITAE**

**Name** Liana Fraenkel, M.D., M.P.H., F.R.C.P.(C)

**Address** 12 Winton Farm Rd  
Newtown, CT 06470

**Education**

08/1983-05/1986 B.Sc. in Occupational Therapy, McGill University, Montreal, Quebec  
08/1986-05/1990 Medical School (M.D.C.M.), McGill University, Montreal, Quebec  
08/1995-05/1997 Masters of Public Health, Boston University, Boston, MA

**Career/Academic Appointments/ Administrative Positions**

07/1990-06/1993 Internal Medicine Residency, McGill University, Montreal, Quebec  
07/1993-06/1994 Chief Medical Resident, McGill University, Montreal, Quebec  
07/1994-06/1998 Rheumatology Fellowship, Boston University School of Medicine, Boston, MA  
09/1998-06/1999 Instructor, Yale School of Medicine, New Haven, CT  
07/1999-06/2004 Assistant Professor, Yale School of Medicine, New Haven, CT  
07/1999-present Section Chief Rheumatology, VA CT Healthcare System  
07/2002-present Co-Director: VA Bone and Joint Center; West Haven, CT  
07/2004-06/2014 Associate Professor, Yale School of Medicine, New Haven, CT  
07/2004-present Clinical Epidemiologic Research Center Investigator  
07/2004-present Associate Program Director, Section of Rheumatology, Yale School of Medicine  
07/2008-present Pain Research Informatics Medical Comorbidity and Education Investigator  
07/2014-present Professor of Medicine, Yale School of Medicine

**Board Certification**

1993 Internal Medicine, American Board of Internal Medicine  
1994 Internal Medicine, Royal College of Physicians and Surgeons of Canada  
Internal Medicine, College des Medecins du Quebec  
1997 Rheumatology, American Board of Internal Medicine  
1997 Rheumatology, Royal College of Physicians and Surgeons of Canada  
Rheumatology, College des Medecins du Quebec  
2003 Internal Medicine, American Board of Internal Medicine  
Rheumatology, American Board of Internal Medicine  
2012 Internal Medicine, American Board of Internal Medicine  
2016 Rheumatology, American Board of Internal Medicine

**Professional Positions, Honors or Recognition**

7/1993-6/1994 McGill University; Montreal, Canada, Chief Medical Resident  
1996 Rheumatology Research Fellowship, Arthritis Society of Canada  
1996 Rheumatology Scholar Award, American College of Rheumatology  
7/1999 Arthritis Foundation Investigator Award  
7/1999 VA Career Development Award  
7/2002 Advanced VA Career Development Award  
6/2002 Alpha Omicron Pi Foundation Award  
7/2003 NIAMS K23 Award  
7/2004 Yale Department of Medicine Research Award  
5/2005 Horwitz Lecturer  
2004-2007 Member, ACR Guideline Subcommittee  
2006-2010 VA HSR&D Career Development Scientific Review Panel  
2006-2010 Arthritis Foundation Scientific Review Panel  
2006 SMDM Faculty: Preference Assessment Models for MDM

2007-2010 Chair, ACR Guideline Subcommittee  
 2007-2010 Member, ACR Quality Measures Committee  
 2007-present Editorial Board *The Patient - Patient Centered Outcomes Research*  
 2007 SMDM Faculty: Preference Assessment Models for MDM  
 2007 Distinguished Scholar National Academies of Practice  
 2008-2011 Editorial Board *Medical Decision Making*  
 2008-present Pain Research Informatics Medical co morbidity and Education Investigator  
 6/2009 Faculty, Summer Institute on Informed Patient Choice  
 2009 ACR Abstract Category Chair for Epidemiology and Health Services Res  
 2009 ACR REF RA: Within Our Reach Award  
 2009 ACR Henry Kunkel Young Investigator Award  
 2010-13 Editorial Board *Arthritis Care and Research*  
 2010 ACR REF Scientific Review Panel  
 2010 ACR Abstract Category Chair for Epidemiology and Health Services Res  
 2010-16 DSMB for NIAMS: Effect of IA Steroids on Structural Progression of Knee OA  
 2011-present FDA Special Government Employee Consultant (Risk Communication)  
 2011 US Bone and Joint Faculty/Mentor  
 2011-12 ACR REF Board Member  
 2011-16 NIAMS K24 Award  
 2011 ACR Abstract Category Chair for Epidemiology and Health Services Res  
 2011 Scientific Review Committee Annual Conjoint Analysis in Health Conference  
 2011-12 Co-Chair Planning Committee Annual SMDM Meeting  
 5/2012 Invited Consultant: FDA Arthritis Advisory Committee  
 2012 ACR REF: Disease Targeted Research Award  
 2012-13 Member, ACR Quality Measures Committee  
 2012-present Advisory Editor Arthritis & Rheumatism  
 2012-13 Ad Hoc Member VA Clinical Trials Merit Review Panel  
 2013 Ad Hoc Member NIH AMS NIAMS Review Panel  
 2013-17 Standing Member NIH AMS NIAMS Review Panel  
 2013-16 Chair, ACR Quality Measures Committee  
 2014-present Founding Member: International Academy of Health Preference Research  
 2014-present Arthritis Patient-Powered Research Network Research Advisory Board  
 2015-17 RRF Innovative Research Award  
 2016 Phyllis T. Bodel Lectureship  
 2016-21 NIAMS K24 Award (Renewal)  
 2017-19 RRF Innovative Research Award  
 2017-19 ACR State-of-the-Art Clinical Symposium Planning Committee  
 2017-19 ACR Abstract Category Chair: Patient Outcomes, Preferences, and Attitudes  
 2017 Ad Hoc Member NIH AMS NIAMS Review Panel  
 2017 FDA Patient Preference Collaborative Workshop Planning Committee/  
 Speaker  
 2017- present Chair Data Monitoring Committee for VA Cooperative Study, CSP # 594:  
 Comparative Effectiveness in Gout: Allopurinol vs. Febuxostat.  
 2018-2019 PI: ACR Rheumatoid Arthritis Clinical Practice Guidelines  
 2018-2021 Rheumatology Research Foundation Scientific Advisory Committee  
 2018-present *Arthritis Today* Medical Advisory Panel  
 2018-present Co-Chair ACR Task Force: Improving Access to Rheumatology  
 2018-present ACR Quality Measure Development Advisory Panel

### Professional Service

#### Peer Review Groups/Grant Study Sections

2013-present Standing Member NIH AMS NIAMS Review Panel  
 2013 Ad Hoc Member NIH AMS NIAMS Review Panel

2012-2013 Ad Hoc Member VA Clinical Trials Merit Review Panel  
2011 US Bone and Joint Scientific Review Panel  
2010-2012 ACR REF (now RRF) Scientific Review Panel  
2006-2010 VA Health Services Research & Development Scientific Review Panel  
2006-present Arthritis Foundation Scientific Review Panel

### Journal Service

2012-present Advisory Editor *Arthritis & Rheumatism*  
2010-13 Editorial Board *Arthritis Care and Research*  
2008-2011 Editorial Board *Medical Decision Making*  
2007-present Editorial Board *The Patient - Patient Centered Outcomes Research*

Reviewer: New England Journal of Medicine, Journal of the American Medical Association (JAMA), Annals of Internal Medicine, Archive of Internal Medicine (now JAMA Internal Medicine), Arthritis and Rheumatism, Arthritis Care and Research, Journal of Rheumatology, Medical Decision Making, Medical Care, Journal of General Internal Medicine, Journal of Clinical Epidemiology, Health Values, Patient Education and Counseling, and others.

### Yale University Service

#### Departmental/Sectional Committees

1999-2000 Steering Committee: Principles of Clinical Reasoning  
2000-present Fellowship Committee  
2001 Steering Committee: Development of Joint MD/Masters Degree in Biomedical Research  
2003-2004 Assessment of Clinical Curriculum Working Group  
2004-2006 Clinical Assessment Subcommittee  
2017-2018 Director of Clinical Research Search Committee

### Hospital Committees

1999 Canadian Osteoarthritis Registry Instrument Committee  
2002 Search Committee for VA Section Chief General Internal Medicine  
2006 VA Advanced Clinical Access Committee  
2008 VA Medication Reconciliation Committee  
2010-2011 Search Committee Yale Rheumatologist  
2011 Search Committee for VA Physiatrists  
2014 Search Committee Yale/VA Rheumatologist

### Other

2006-2007 Donaghue Research Ethics Working Group

### Peer-Reviewed Publications

1. Fraenkel L, Mackenzie T, Joseph L, Kashgarian M, Hayslett JP, Esdaile JM: Response to treatment as a predictor of long-term outcome in patients with lupus nephritis. *J Rheumatol* 1994;21:2052-7.
2. Fortin P, Abrahamowicz M, Neville C, Du Berger R, Fraenkel L, Clarke A, Danoff D: Impact of disease activity and cumulative damage on the health of lupus patients. *Lupus* 1998;7:101-7.
3. Fraenkel L, LaValley M, Felson D: The use of radiographs to evaluate shoulder pain in the emergency department. *Am J Emer Med* 1998;16:560-3.
4. Fraenkel L, LaValley M, McAlindon T, Chaisson C, Roubenoff R, C Dinarello, Harris T, Felson D: The association of peripheral monocyte derived interleukin 1beta and tumor necrosis factor alpha with osteoarthritis. *J Rheumatol* 1998;25:1820-6.

5. Fraenkel L, Zhang YQ, Evans S, Chaisson C, Felson DT: The association of estrogen replacement therapy and raynaud's phenomenon. *Ann Intern Med* 1998;129:208-11.
6. Fraenkel L, Zhang YQ, McAlindon T, LaValley M, Trippel S, Assif A, Adams K, Felson DT: Longitudinal analysis of the relationship between serum insulin-like growth factor-1 and radiographic knee osteoarthritis. *Osteoarthr Cartilage* 1998;6:362-7.
7. Fraenkel L, Zhang YQ, Evans S, Maricq HR, Felson DT: Risk factors associated with raynaud's phenomenon are different in men and women. *Arthritis Rheum* 1999;42:306-10.
8. Fraenkel L, Shearer P, Mitchell P, LaValley M, Feldman J, Felson D: Improving the selective use of plain radiographs. *J Rheumatol* 2000;27:200-4.
9. Fraenkel L, Tofler GH, Zhang YQ, Silbershatz H, D'Agostino RB, Wilson PWF, Felson DT: The Association of von willebrand factor and fibrinogen with Raynaud's Phenomenon in men and women. *Am J Med* 2000;108:583-6.
10. Fortin P, Abrahamowicz M, Clarke A, Neville C, Du Berger R, Fraenkel L, Liang M: Do lupus disease activity measures detect clinically important change? *J Rheumatol* 2000;27:1421-8.
11. Fraenkel L, Felson DT: Rheumatologists' attitudes towards routine screening for hydroxychloroquine retinopathy: the influence of risk aversion, fear of legal liability, and patient insistence. *J Rheumatol* 2001;28:1218-21.
12. Fraenkel L, Bogardus ST, Concato J, Felson DT. Preference for disclosure of information among patients with rheumatoid arthritis. *Arthritis Rheum* 2001;45:136-9.
13. Fraenkel L, Bogardus ST, Wittink DR. Understanding patient preferences for the treatment of lupus nephritis using adaptive conjoint analysis. *Med Care* 2001;39:1203-16.
14. Fraenkel L, Bogardus ST, Concato J, Felson DT. Unwillingness of rheumatoid arthritis patients to risk adverse effects. *Rheumatology* 2002;41:253-61.
15. Fraenkel L, Bogardus ST, Concato J. Patient preferences for treatment of lupus nephritis. *Arthritis Rheum* 2002;47:421-8.
16. Fraenkel L. Epidemiology and risk factors associated with raynaud's phenomenon. *Curr Rheum Rep* 2002;4:123-8.
17. Fraenkel L, Bogardus ST, Wittink DR. Risk attitude and patient preferences. *Lupus* 2003;12:370-376.
18. Fraenkel L, Bogardus ST, Concato J, Felson DT. Does decreasing the likelihood of toxicity make patients more likely to use medications? *J Rheumatol* 2003;30:443-8.
19. Fraenkel L, Wittink DR, Concato J, Fried T. Are preferences for Cox-2 inhibitors influenced by the certainty effect? *J Rheumatol* 2004;31:591-3.
20. Fraenkel L, Wittink DR, Concato J, Fried T. Informed choice and the widespread use of anti-inflammatory drugs. *Arthritis Rheum* 2004;51: 210-14.
21. Fraenkel L, Bogardus ST, Felson DT, Wittink DR. Treatment options in knee osteoarthritis: The patient's perspective. *Arch Intern Med* 2004;164:1299-1304.
22. Fraenkel L, Bogardus ST, Concato J, Felson DT, Wittink DR. Treatment options for rheumatoid arthritis. *Ann Rheum Dis* 2004;63:1372-8. PMC1754807
23. Suter LG, Murabito JM, Felson DT, Fraenkel L. The incidence and natural history of Raynaud's phenomenon in the community. *Arthritis Rheum* 2005;52:1259-63.
24. Fraenkel L, Constantinescu F, Oberto-Medina M, D. Wittink. Women's preferences for prevention of bone loss. *J Rheumatol* 2005;32:1086-92.

25. Boutros NN, [Fraenkel L](#), Feingold A. A four step approach for developing diagnostic tests in psychiatry; EEG and ADHD as a test-case. *J Neuropsychiatry Clin Neurosci* 2006;17:455-64.
26. [Fraenkel L](#), McGraw S, Wongcharatrawee S, Garcia-Tsao G. What do patients consider when making decisions about treatment for hepatitis C? *Am J Med* 2005;118:1387-91.
27. Suter LG, [Fraenkel L](#), Holmboe ES. What factors account for referral delays for patients with suspected rheumatoid arthritis? *Arthritis Rheum* 2006;55:300-5.
28. [Fraenkel L](#), McGraw S, Wongcharatrawee S, Garcia-Tsao G. Patients' experiences related to anti-viral treatment for hepatitis C. *Patient Educ Counsel* 2006; 62:148-55.
29. [Fraenkel L](#), Gulanski B, Wittink D. Preference for hip protectors among older adults at high risk for osteoporotic fractures. *J Rheumatol* 2006;33:2064-8. PMID1615711.
30. [Fraenkel L](#), Gulanski B, Wittink D. Patient treatment preferences for osteoporosis. *Arthritis Rheum* 2006;55:729-35. PMID1626097.
31. [Fraenkel L](#), Rabidou N, Dhar R. Are rheumatologists' treatment decisions influenced by patients' age? *Rheumatology* 2006;45:1555-7. PMID1660557.
32. [Fraenkel L](#), Gulanski B, Wittink D. Patient willingness to take teriparatide. *Patient Educ Counsel* 2007;65:23-44. PMID1769517.
33. Suter LG, Murabito JM, Felson DT, [Fraenkel L](#). The relationship of smoking, alcohol consumption and raynaud's phenomenon. *Am J Med* 2007;120:264-71.
34. [Fraenkel L](#), McGraw S. What are the essential elements to enable patient participation in medical decision-making? *J Gen Intern Med* 2007;22:614-19. PMID1855272.
35. [Fraenkel L](#), McGraw S. Participation in medical decision making: the patients' perspective. *Med Decis Making* 2007;27:533-38.
36. Fried TR, O'Leary J, [Fraenkel L](#). Inconsistency over time in the preferences of older persons for life-sustaining treatment. *J Am Geriatr Soc* 2007;55:1007-14. PMID1948955
37. [Fraenkel L](#), Rabidou N, Wittink D, Fried T. Improving informed decision-making for patients with knee pain. *J Rheumatol* 2007;34:1894-8.
38. [Fraenkel L](#), Wittink DR. Measuring patient treatment preferences. In *Pain management: evidence, outcomes, and quality of life, a sourcebook*. Elsevier. November 2007.
39. Longacre AV, Imaeda A, Garcia-Tsao G, [Fraenkel L](#). A pilot project examining the predicted preferences of patients and physicians in the primary prophylaxis of variceal hemorrhage. *Hepatology* 2008;47:169-76. PMID2674014.
40. Janke AE, McGraw S, Garcia-Tsao G, [Fraenkel L](#). Psychosocial correlates of hepatitis c: interaction and impact on quality of life. *Psychosomatics* 2008;49:494-501. PMID2743862.
41. Berman L, Dardik, A, Bradley E, Gusberg R, [Fraenkel L](#). What is informed consent for AAA repair? Assessing variations in expert opinion through a national survey. *J Vasc Surg* 2008;47:287-95. PMID2659171.
42. Tinetti ME, McAvay GJ, Fried TR, Foody JM, Bianco L, Ginter S, [Fraenkel L](#). Development of a tool for eliciting patient priority from among competing cardiovascular disease, medication-symptoms, and fall injury outcomes. *J Am Geriatr Soc* 2008;56:730-6.
43. [Fraenkel L](#), Fried T. If you want patients to exercise, tell them about NSAIDS. *Patient* 2008;1:21-26. PMID2771928.
44. Tinetti ME, McAvay GJ, Fried TR, Allore HG, Salmon JC, Foody JM, Bianco L, Ginter S, [Fraenkel L](#). Health outcome priorities among competing cardiovascular, fall injury, and medication-related symptom outcomes. *J Am Geriatr Soc* 2008; 56:1409-16.

45. [Fraenkel L](#). Conjoint analysis at the individual patient level: issues to consider as we move from a research to a clinical tool. *Patient* 2008;1:251-3. PMC2855199.
46. Berman L, Curry L, Gusberg R, Dardik A, [Fraenkel L](#). Informed consent for AAA repair: the patient perspective. *J Vasc Surg* 2008; 48:296-302. PMC2659171.
47. [Fraenkel L](#). Conjoint analysis at the individual patient level. *Patient* 2008;1:251-3. PMC2855199.
48. Constantinescu F, Goucher, S, Weinstein A, [Fraenkel L](#). Racial disparities in treatment preferences for rheumatoid arthritis. *Med Care* 2009;47:350-5. PMC3682220.
49. Constantinescu F, Goucher, S, Weinstein A, Smith W, [Fraenkel L](#). Understanding why rheumatoid arthritis patient treatment preferences differ by race. *Arthritis Care Res* 2009;61:413-8.
50. [Fraenkel L](#), Chodkowski D, Lim J, Garcia-Tsao G. Patients' preferences for treatment of hepatitis C. *Med Decis Making* 2010;30:45-57. PMC2812601.
51. Suter LG, [Fraenkel L](#), Losina E, Katz JN, Gomoll A, Paltiel D. Medical decision making in patients with knee pain, meniscal tear and osteoarthritis. *Arthritis Care Res* 2009;61:1531-8. PMC2804854.
52. [Fraenkel L](#). Feasibility of using modified Adaptive Conjoint Analysis importance questions. *Patient* 2010;3:209-15. [PMC2949086](#).
53. [Fraenkel L](#), Peters E. Patient responsibility for medical decision making and risky treatment options. *Arthritis Care Res* 2009;61:1674-6. [PMC2794915](#).
54. [Fraenkel L](#), Fried T. Individualized medical decision making: Necessary, achievable, but not yet attainable. *Arch Intern Med* 2010;170:566-69. PMC2845319.
55. Makris U, Kohler M, [Fraenkel L](#). Adverse effects of topical NSAIDS in older adults with osteoarthritis: a systematic review of the literature. *J Rheumatol* 2010;37:1236-1243. PMC2880214.
56. Kievit W, van Hulst L, van Riel P, [Fraenkel L](#). Factors that influence rheumatologists' decision to escalate care in RA: Results from a choice-based conjoint analysis. *Arthritis Care Res* 2010;62:842-7. PMC3682224
57. Imaeda A, Bender D, Fraenkel L. What is most important to patients when deciding about colorectal screening? *J Gen Intern Med* 2010;25:688-93. PMC2881957.
58. [Fraenkel L](#). Uncertainty and patients' preferred role in decision making. *Pt Educ Couns* 2011;82:130-2. PMC3006646.
59. [Fraenkel L](#). Unpacking the effects of acupuncture. *Arthritis Care Res* 2010;62:1203-5. PMC2939932
60. [Fraenkel L](#). The downsides of a major medical advance. *Arthritis Care Res* 2010;62:1679-81. PMC2990795.
61. [Fraenkel L](#), Peters E. Patients' reaction to the disclosure of rare dreaded adverse events. *Patient Educ Counsel* 2011;84:e1-e4. PMC3033459.
62. Berman L, Curry L, Goldberg C, Gusberg R, [Fraenkel L](#). Pilot-testing of a decision tool for patients with abdominal aortic aneurysm. *J Vasc Surg* 2011;53:285-92. PMC3058927.
63. Solomon D, Rabidou N, Kulkarni S, Formica R, [Fraenkel L](#). Accepting a donor kidney: an evaluation of patients' and transplant surgeons' priorities. *Clin Transplant* 2010;25:786-96.
64. Peters E, Hart S, [Fraenkel L](#). Informing patients: The influence of numeracy, framing, and format of side-effect information on risk perceptions. *Med Decis Making* 2011;31:432-6.
65. Suter LG, [Fraenkel L](#), Braithwaite, R. The role of magnetic resonance imaging in the diagnosis and prognosis of rheumatoid arthritis. *Arthritis Care Res* 2010;63:675-88.

66. Womack JA, Goulet J, Gibert C, Brandt C, Chang CC, Gulanski B, Fraenkel L, Mattocks K, Rimland D, Rodriguez-Barradas MC, Tate J, Yin MT, Justice AC. Increased risk of fragility fractures among HIV infected compared to uninfected male Veterans. PLoS ONE 2011;6:e17217. PMC3040233.
67. Makris, UE, Fraenkel L, Han L, Leo-Summers L, Gill TM. Epidemiology of restricting back pain in community-living older persons. J Am Geriatr Soc 2011;59:610-4. PMC3098613.
68. Suter LG, Fraenkel L, Braithwaite, R. The cost-effectiveness of adding MRI to early rheumatoid arthritis management. Arch Intern Med 2011;171 657-67. PMC4047037
69. van Hulst L; Kievit W Bommel R; van Riel PL, Fraenkel L. Rheumatoid arthritis patients and rheumatologists approach the decision to escalate care differently. Arthritis Care Res 2011;63:1407-14. PMC3698485
70. Fraenkel L, Street RL Jr, Fried TR. Development of a tool to improve the quality of decision making in atrial fibrillation. BMC Med Informatics Decis Making 2011;11:59. PMC3207873.
71. Sofia de Achaval, Fraenkel L, Volk RJ, Cox V, Suarez-Almazor ME. Impact of a patient decision aid with an interactive values component on decisional conflict associated with total knee arthroplasty. Arthritis Care Res 2012;64:229-37. PMC3634330
72. Fraenkel L, Falzer P, Fried TR, Kohler M, Peters E, Kerns R, Leventhal H. Measuring pain impact versus pain severity using a numeric rating scale. J Gen Intern Med 2012;27:555-60. PMC3326111.
73. Clark BT, Garcia-Tsao G, Fraenkel L. Patterns and predictors of treatment initiation and completion in patients with chronic hepatitis C virus infection. Patient Pref Adherence 2012;6:285-95. PMC3333810.
74. Fraenkel L, Peters E, Charpentier P, Olsen B, Errante L, Schoen RT, Reyna V. A decision tool to improve the quality of care in rheumatoid arthritis. Arthritis Care Res 2012;64:977-85. PMC3375390
75. Fraenkel L, Street, Jr, RL, Towle V, O'Leary JR, Iannone, L, Van Ness PH, Fried, TR. A pilot randomized controlled trial of a decision support tool to improve the quality of communication and decision making in patients with prevalent atrial fibrillation. J Am Geriatr Soc 2012;60:1434-41. PMC3419306
76. Falzer PR, Leventhal HL, Peters E, Fried TR, Kerns R, Michalski M, Fraenkel L. The practitioner proposes a treatment change and the patient declines: What to do next? Pain Practice 2013;13:215-26. PMC3668345
77. Rochon, D, Eberth JM, Fraenkel L, Volk RJ, Whitney S. Elderly patients' experiences using Adaptive Conjoint Analysis software as a decision aid for osteoarthritis of the knee. Health Expectations 2014;17:840-51. PMC3883995.
78. Fraenkel L. Incorporating patients' preferences into medical decision making. Med Care Res Rev 2013;70(Suppl 1):80S-93S. PMC3653614
79. Hodgson EJ, Collier C, Hayes L, Curry L, Fraenkel L. Family planning and contraceptive decision-making by economically disadvantaged, African-American women. Contraception 2013;88:289-296. PMC3722254
80. Kohler MJ, Amezaga M, Drodz J, Crowley ST, Gulanski B, Anderson DR, Fraenkel L. Use of a computerized order set to increase prescription of calcium and vitamin d supplementation in patients receiving glucocorticoids. J Gen Intern Med 2013;28:825-9. PMC3663954
81. Becker WC, Fraenkel L, Edelman, EJ, Holt S; Glover J, Kerns R; Fiellin D. Instruments to assess patient-reported safety, efficacy or misuse of current opioid therapy for chronic pain: A systematic review. Pain 2013;154:905-16. PMC3683236
82. Becker WC, Fraenkel L, Kerns R; Fiellin D. A research agenda for enhancing appropriate opioid prescribing in primary care. J Gen Intern Med 2013;28:1364-67. PMC3785661

83. Cozmuta R, Merkel P, [Fraenkel L](#). Variability in experts' opinions regarding risks and treatment choices in patients with ANCA-associated vasculitis. *J Clin Rheum* 2013;19:426-31. PMC3838999
84. Grayson PC, Amudala NA, McAlear CA, Leduc RL, Shereff D, Richesson R, [Fraenkel L](#), Merkel PA. Illness perceptions and fatigue in systemic vasculitis. *Arthritis Care Res (Hoboken)* 2013;65:1835-43. PMC3962511
85. [Fraenkel L](#), Cunningham M. High disease activity may not be sufficient to escalate care. *Arthritis Care Res (Hoboken)* 2014;66:197-203. PMC4072663
86. Peters E, Hart S, Tusler M, [Fraenkel L](#). Numbers matter to informed patient choices: A randomized design across age and numeracy levels. *Med Decis Making* 2014;34:430-42. PMC3991753
87. Makris UE, [Fraenkel L](#), Han L, Leo-Summers L, Gill TM. Risk factors for restricting back pain in community-living older persons. *J Am Med Dir Assoc* 2014;15:62-67. PMC3872215.
88. [Fraenkel L](#), Suter L, Weis L, Hawker G. Variability in recommendations for total knee arthroplasty among rheumatologists and orthopedic surgeons. *J Rheumatol* 2014;41:47-52. PMC3880398.
89. Craig BM, Donovan KA, [Fraenkel L](#), Watson V, Hawley S, Quinn G. A generation of childless women: Lessons from the United States. *Women's Health Issues* 2014;24-1:e21-e27.
90. Grayson PC, Amudala NA, McAlear CA, Leduc RL, Shereff D, Richesson R, [Fraenkel L](#), Merkel PA. Causal attributions about disease onset and relapse in patients with systemic vasculitis. *J Rheumatol* 2014;41:923-30. PMC4008683.
91. Solomon DH, Bitton A, Brown E, Tsao P, Katz JN, [Fraenkel L](#). Treat to target in rheumatoid arthritis: Fact, fiction or hypothesis? *Arthritis Rheumatol* 2014;66:775-82. PMC4012860
92. Solomon DH, Bitton A, [Fraenkel L](#), Brown E, Tsao P, Katz JN. The roles of nurse practitioners and physician assistants in rheumatology practices in the US. *Arthritis Care Res* 2014;66:1108-13. PMC4051869
93. [Fraenkel L](#), Suter L, Cunningham CE, Hawker G. Understanding preferences for disease modifying drugs in osteoarthritis. *Arthritis Care Res* 2014;66:1186-92. PMC4112164
94. Makris U, Melhado TV, Lee SC, Hamann HA, Walke LM, Gill TM, [Fraenkel L](#). Illness representations of restricting back pain: The older person's perspective. *Pain Med* 2014;15:938-946 PMC4116640
95. [Fraenkel L](#), Cunningham M, Peters. Subjective numeracy and preference to stay with the status quo. *Med Decis Making* 2015;35:6-11. PMC4207724
96. Cozmuta R, Wahl ER, Merkel PA, [Fraenkel L](#). Variability of the impact of adverse events on physicians' decision making. *BMC Med Informatics and Decis Making* 2014 Sep 25;14:86. PMC4236563
97. [Fraenkel L](#), Seng E, Cunningham M, Mattocks K. Understanding how patients (vs physicians) approach the decision to escalate treatment: A proposed conceptual model. *Rheumatology* 2015;54:278-85. PMC4301710
98. Makris UE, [Fraenkel L](#), Han L, Leo-Summers L, Gill TM. Restricting back pain and subsequent mobility disability in community-living older persons. *J Am Geriatr Soc* 2014;62:2142-7.
99. Hsieh E, [Fraenkel L](#), Xia W, Hu Y, Han Y, Insogna K, Yin MT, Xie J Zhu T, Li T. Increased bone resorption during tenofovir plus lopinavir/ritonavir therapy in Chinese individuals with HIV. *Osteop Int* 2015;26:1035-44.
100. Hsieh E, [Fraenkel L](#), Xia W, Hu Y, Han Y, Insogna K, Yin MT, Xie J Zhu T, Li T. Osteoporosis knowledge, self-efficacy, and health beliefs among Chinese individuals with HIV. *Arch Osteop* 2014;9:201.



101. Toupin-April K; Barton J; [Fraenkel L](#); Li L; et al. Development of a draft core set of domains for measuring shared decision making in osteoarthritis: An OMERACT working group on shared decision making. *J Rheumatol* 2015;42:2442-7.
102. Sinayev A, Peters E, Tusler M, Fraenkel L. Presenting numeric information with percentages and descriptive risk labels: A randomized trial. *Med Decis Making* 2015;35:937-47.
103. Yan K, Birdges JFP, Augustin S, Laine L, Garcia-Tsao G, [Fraenkel L](#). Factors impacting physicians' decisions to prevent variceal hemorrhage. *BMC Gastroenterology* 2015,15:55.
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### Chapters/Books/Reviews

1. **Fraenkel L**, Simms R: The clinical significance of liver disease in systemic lupus erythematosus. *J Clin Rheumatol* 1996;2:23-8.
2. **Fraenkel L**. Epidemiology and risk factors associated with Raynaud's phenomenon. *Curr Rheum Rep* 2002;4:123-8.
3. **Fraenkel L**, D. Felson. Osteoarthritis. In: *Principles of Geriatric Medicine and Gerontology*. 5<sup>th</sup> Edition. McGraw-Hill Professional.
4. **Fraenkel L**. Using conjoint analysis to facilitate doctor-patient communication. In: *Getting Started with Conjoint Analysis*. Research Publishers LLC. 1<sup>st</sup> Edition 2006.
5. **Fraenkel L**, D.R. Wittink. Measuring patient preferences. In *Pain management, outcomes, and quality of life*. Elsevier. 1<sup>st</sup> Edition 2007.
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8. Dolan JG, **Fraenkel L**. Shared Decision-Making. In: Marsh K, Goetghebeur M, Thokala P, Baltussen R, editors. *Multi-criteria decision analysis to support healthcare decisions*. First. Springer International Publishing;2017:199-215.

**Recent and Current Grants:**

Agency: NIAMS K24 07/01/11 - 06/30/21  
 ID# 5 K24 AR060231-02 (Ended 11/12/2018 with new appointment at BMC)  
 Title: Improving Decision Making in Patients with Rheumatic Disease  
 Role: PI  
 Objective: This award supports the PI's continued development and impact as a mentor, the establishment of a research training program for patient oriented research in rheumatology, and her research program.

Agency: VA Health Services and Research IIR 07/01/13 - 10/31/18  
 ID#: IIR 11-113  
 Title: Discontinuing NSAIDs in Veterans with knee OA.  
 Role: PI  
 Objective: To perform a randomized withdrawal trial to examine whether cognitive behavioral therapy is a viable alternative to NSAIDs in Veterans with knee pain.

Agency: VA Health Services and Research IIR 07/01/17 – 06/30/21  
 ID#: 1 I01 HX002315-01  
 Title: Aligning policy and healthcare services with veterans' values and preferences  
 Role: Consultant  
 Objective: To develop population-based information on Veterans' values and preferences for return of results from Whole Genome Sequencing.

Agency: ACR RRF 07/01/17 - 06/30/19  
 Title: Development of a global outcome measure for RA clinical trials  
 Role: PI  
 Objective: To develop a new patient-reported outcome measure that encompasses both benefits and harms of treatment at the individual patient level.

Agency: VA Health Services and Research IIR 01/01/17 - 12/31/20  
 ID#: IIR HX001898-01A2  
 Title: Incorporating Veterans preferences into lung cancer screening decisions  
 Role: Co-Investigator  
 Objective: To develop and evaluate a preference-based patient decision aid for Veterans eligible for lung cancer screening.

Agency: VA Health Services and Research IIR 11/01/18 - 10/30/22  
ID#: 1 I01 HX002509-01A1  
Title: Development and pilot testing of a multicomponent tool to support opioid tapering  
Role: PI  
Objective: To develop an interactive, theory-informed, multi-component mobile website program to enable veterans to safely taper opioids.