

Stanford



James F. Fries

Professor of Medicine (Immunology and Rheumatology), Emeritus

 Curriculum Vitae available Online

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Medicine

HONORS AND AWARDS

- Master of Rheumatology, American College of Rheumatology (2003)
- Clinical Research Award, American College of Rheumatology (2005)
- Research Hero, Arthritis Foundation (2000)
- ISI Highly Cited, Web of Science (2009)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research uses large longitudinal data banks of patients with chronic diseases, particularly rheumatic diseases, and senior individuals undergoing the aging process and related infirmities to perform studies of natural history of disease, toxicity of medications, identification of subsets of patients with special characteristics, prediction of high risk individuals, elaboration of treatment strategies, computation and the costs of care for chronic diseases, development of risk factor models for osteoarthritis and musculoskeletal aging, and other clinical epidemiologic subjects. The central resource is ARAMIS (Arthritis Rheumatism and Aging Medical Information System) which involves 17 centers in the United States and Canada and has just been refunded by the National Institutes of Health for years 26-30. Fellows are trained for academic positions in rheumatology or clinical epidemiology. Approximately 60 projects are underway at any given time and an excess of 900 peer reviewed publications have been published from the ARAMIS group of investigators. Related to the ARAMIS endeavors is the Post-Marketing Surveillance Program, which works with the AHCPR, the FDA, and industry to provide information on drug toxicities and drug benefits which were not well-documented or understood at the time of drug release. The studies employ pharmacoeconomic and pharmacoepidemiologic techniques. Information science applications are pursued by a technical computer programming staff. The ARAMIS staff include clinicians, epidemiologists, biostatisticians, health economists, and health service researchers.

CLINICAL TRIALS

- Initial Validation of PROMIS Physical Function/Disability Scales in Rheumatoid Arthritis (RA), Not Recruiting

Publications

PUBLICATIONS

- **Responsiveness and minimally important difference for the Patient-Reported Outcomes Measurement Information System (PROMIS) 20-item physical functioning short form in a prospective observational study of rheumatoid arthritis** *ANNALS OF THE RHEUMATIC DISEASES*
Hays, R. D., Spritzer, K. L., Fries, J. F., Krishnan, E.

2015; 74 (1): 104-107

- **The PROMIS Physical Function item bank was calibrated to a standardized metric and shown to improve measurement efficiency** *JOURNAL OF CLINICAL EPIDEMIOLOGY*
Rose, M., Bjorner, J. B., Gandek, B., Bruce, B., Fries, J. F., Ware, J. E.
2014; 67 (5): 516-526
- **Extending the floor and the ceiling for assessment of physical function.** *Arthritis & rheumatology*
Fries, J. F., Lingala, B., Siemons, L., Glas, C. A., Cella, D., Hussain, Y. N., Bruce, B., Krishnan, E.
2014; 66 (5): 1378-1387
- **Item Response Theory, Computerized Adaptive Testing, and PROMIS: Assessment of Physical Function** *JOURNAL OF RHEUMATOLOGY*
Fries, J. F., Witter, J., Rose, M., Cella, D., Khanna, D., Morgan-Dewitt, E.
2014; 41 (1): 153-158
- **Upper-Extremity and Mobility Subdomains From the Patient-Reported Outcomes Measurement Information System (PROMIS) Adult Physical Functioning Item Bank** *ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION*
Hays, R. D., Spritzer, K. L., Amtmann, D., Lai, J., DeWitt, E. M., Rothrock, N., DeWalt, D. A., Riley, W. T., Fries, J. F., Krishnan, E.
2013; 94 (11): 2291-2296
- **Propensity-Adjusted Association of Methotrexate With Overall Survival in Rheumatoid Arthritis** *ARTHRITIS AND RHEUMATISM*
Wasko, M. C., Dasgupta, A., Hubert, H., Fries, J. F., Ward, M. M.
2013; 65 (2): 334-342
- **Development and assessment of floor and ceiling items for the PROMIS physical function item bank.** *Arthritis research & therapy*
Bruce, B., Fries, J., Lingala, B., Hussain, Y. N., Krishnan, E.
2013; 15 (5): R144-?
- **Osteoarthritis, Exercise, and Knee Replacement** *JOURNAL OF RHEUMATOLOGY*
Fries, J. F., Bruce, B., Shoor, S.
2012; 39 (4): 669-671
- **Disability outcomes and dose escalation with etanercept, adalimumab, and infliximab in rheumatoid arthritis patients: a US-based retrospective comparative effectiveness study** *CURRENT MEDICAL RESEARCH AND OPINION*
Schabert, V. F., Bruce, B., Ferrufino, C. F., Globe, D. R., Harrison, D. J., Lingala, B., Fries, J. F.
2012; 28 (4): 569-580
- **Disability in rheumatoid arthritis in the era of biological treatments** *ANNALS OF THE RHEUMATIC DISEASES*
Krishnan, E., Lingala, B., Bruce, B., Fries, J. F.
2012; 71 (2): 213-218
- **Lifestyle Risk Factors Predict Disability and Death in Healthy Aging Adults** *AMERICAN JOURNAL OF MEDICINE*
Chakravarty, E. F., Hubert, H. B., Krishnan, E., Bruce, B. B., Lingala, V. B., Fries, J. F.
2012; 125 (2): 190-197
- **The theory and practice of active aging.** *Current gerontology and geriatrics research*
Fries, J. F.
2012; 2012: 420637-?
- **Comparative risks of non-prescription analgesics: a structured topic review and research priorities** *EXPERT OPINION ON DRUG SAFETY*
Lavonas, E. J., Fries, J. F., Furst, D. E., Rothman, K. J., Stergachis, A., Vaida, A. J., Zelterman, D., Reynolds, K. M., Green, J. L., Dart, R. C.
2012; 11 (1): 33-44
- **Cross-Sectional Validation of the Patient Reported Outcome Measurement Information System Pediatric Scales in Juvenile Idiopathic Arthritis, Childhood Systemic Lupus Erythematosus, and Juvenile Dermatomyositis** *75th Annual Scientific Meeting of the American-College-of-Rheumatology/46th Annual Scientific Meeting of the Association-of-Rheumatology-Health-Professionals (ARHP)*
DeWitt, E. M., Gross, H., Stucky, B. D., Liu, Y., Thissen, D., Lovell, D. J., Wallace, C. A., Fries, J. F., Bruce, B., Rabinovich, E. C., Schanberg, L. E., DeWalt, D.
WILEY-BLACKWELL.2011: S735-S735
- **The PROMIS of Better Outcome Assessment: Responsiveness, Floor and Ceiling Effects, and Internet Administration** *JOURNAL OF RHEUMATOLOGY*
Fries, J., Rose, M., Krishnan, E.

2011; 38 (8): 1759-1764

- **Patient Perspective Workshop: Moving Towards OMERACT Guidelines for Choosing or Developing Instruments to Measure Patient-Reported Outcomes** *JOURNAL OF RHEUMATOLOGY*
Kirwan, J. R., Fries, J. F., Hewlett, S. E., Osborne, R. H., Newman, S., Ciciriello, S., van de Laar, M. A., Dures, E., Minnock, P., Heiberg, T., Sanderson, T. C., Flurey, C. A., Leong, et al
2011; 38 (8): 1711-1715
- **Compression of morbidity 1980-2011: a focused review of paradigms and progress.** *Journal of aging research*
Fries, J. F., Bruce, B., Chakravarty, E.
2011; 2011: 261702-?
- **Improved responsiveness and reduced sample size requirements of PROMIS physical function scales with item response theory** *ARTHRITIS RESEARCH & THERAPY*
Fries, J. F., Krishnan, E., Rose, M., Lingala, B., Bruce, B.
2011; 13 (5)
- **Progress in Assessing Physical Function in Arthritis: PROMIS Short Forms and Computerized Adaptive Testing** *9th International Consensus Conference on Outcome Measures in Rheumatology Clinical Trails (OMERACT 9)*
Fries, J. F., Cella, D., Rose, M., Krishnan, E., Bruce, B.
J RHEUMATOL PUBL CO.2009: 2061-66
- **What constitutes progress in assessing patient outcomes?** *JOURNAL OF CLINICAL EPIDEMIOLOGY*
Fries, J. F., Krishnan, E.
2009; 62 (8): 779-780
- **Items, Instruments, Crosswalks, and PROMIS** *JOURNAL OF RHEUMATOLOGY*
Fries, J. F., Krishnan, E., Bruce, B.
2009; 36 (6): 1093-1095
- **Comparison of the Health Assessment Questionnaire disability index and the Short Form 36 physical functioning subscale using Rasch analysis: comment on the article by Taylor and McPherson** *ARTHRITIS & RHEUMATISM-ARTHRITIS CARE & RESEARCH*
Fries, J. F., Bruce, B., Rose, M.
2008; 59 (4): 598-599
- **Hydroxychloroquine and risk of diabetes in patients with rheumatoid arthritis** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Wasko, M. C., Hubert, H. B., Lingala, V. B., Elliott, J. R., Luggen, M. E., Fries, J. F., Ward, M. M.
2007; 298 (2): 187-193
- **Health status disparities in ethnic minority patients with rheumatoid arthritis: A cross-sectional study** *JOURNAL OF RHEUMATOLOGY*
Bruce, B., Fries, J. F., Murtagh, K. N.
2007; 34 (7): 1475-1479
- **Improving patient reported outcomes using item response theory and computerized adaptive testing** *8th International Consensus Conference on Outcome Measures in Rheumatology Clinical Trails (OMERACT 8)*
Chakravarty, E. F., Bjorner, J. B., Fries, J. F.
J RHEUMATOL PUBL CO.2007: 1426-31
- **The Patient-Reported Outcomes Measurement Information System (PROMIS) Progress of an NIH roadmap cooperative group during its first two years** *MEDICAL CARE*
Cella, D., Yount, S., Rothrock, N., Gershon, R., Cook, K., Reeve, B., Ader, D., Fries, J. F., Bruce, B., Rose, M.
2007; 45 (5): S3-S11
- **A low tension between individual and societal time aspects in health improved outcomes** *JOURNAL OF CLINICAL EPIDEMIOLOGY*
Ortendahl, M., Fries, J. F.
2006; 59 (11): 1222-1227
- **More relevant, precise, and efficient items for assessment of physical function and disability: moving beyond the classic instruments** *8th International Symposium on Advances in Targeted Therapies*
Fries, J. F., Bruce, B., Bjorner, J., Rose, M.
B M J PUBLISHING GROUP.2006: 16-21

- **Hydroxychloroquine reduces diabetes risk in RA.** *70th Annual Scientific Meeting of the American-College-of-Rheumatology/41st Annual Scientific Meeting of the Association-of-Rheumatology-Health-Professionals*
Wasko, M. C., Luggen, M., Sibley, J., Lingala, B., Ward, M., Fries, J. F., Hubert, H. B.
WILEY-BLACKWELL.2006: S785-S786
- **The arthritis, rheumatism and aging medical information system (ARAMIS): Still young at 30 years** *CLINICAL AND EXPERIMENTAL RHEUMATOLOGY*
Bruce, B., Fries, J. F.
2005; 23 (5): S163-S167
- **Antigen microarray profiling of autoantibodies in rheumatoid arthritis** *ARTHRITIS AND RHEUMATISM*
Hueber, W., Kidd, B. A., Tomooka, B. H., Lee, B. J., Bruce, B., Fries, J. F., Sonderstrup, G., Monach, P., Drijfhout, J. W., van Venrooij, W. J., Utz, P. J., Genovese, M. C., Robinson, et al
2005; 52 (9): 2645-2655
- **HLA-DRB1, increased disease severity, and improved treatment response over two years in a rheumatoid arthritis (RA) inception cohort.** *68th Annual Scientific Meeting of the American-College-of-Rheumatology/39th Annual Scientific Meeting of the Association-of-Rheumatology-Health-Professionals*
Zatarain, E., Fries, J. F., Bennett, M., Hubert, H., Apple, R., Erlich, H., Bruce, B.
WILEY-BLACKWELL.2004: S400-S400
- **Progression of knee osteoarthritis in senior runners and controls: An 18-year longitudinal study** *68th Annual Scientific Meeting of the American-College-of-Rheumatology/39th Annual Scientific Meeting of the Association-of-Rheumatology-Health-Professionals*
Zatarain, E., Fries, J. F., Bennett, M., Lingala, B.
WILEY-BLACKWELL.2004: S144-S145
- **The rise and decline of nonsteroidal antiinflammatory drug-associated gastropathy in rheumatoid arthritis** *ARTHRITIS AND RHEUMATISM*
Fries, J. F., Murtagh, K. N., Bennett, M., Zatarain, E., Lingala, B., Bruce, B.
2004; 50 (8): 2433-2440
- **Attrition bias in rheumatoid arthritis databanks: A case study of 6346 patients in 11 databanks and 65,649 administrations of the health assessment questionnaire** *JOURNAL OF RHEUMATOLOGY*
Krishnan, E., Murtagh, K., Bruce, B., Cline, D., Singh, G., Fries, J. F.
2004; 31 (7): 1320-1326
- **Measuring and monitoring success in compressing morbidity** *8th Regenstrief Conference*
Fries, J. F.
AMER COLL PHYSICIANS.2003: 455-59
- **IMPACT OF RUNNING ON LUMBAR BONE-DENSITY - A 5-YEAR LONGITUDINAL-STUDY** *JOURNAL OF RHEUMATOLOGY*
Michel, B. A., Lane, N. E., BJORKENGREN, A., Bloch, D. A., Fries, J. F.
1992; 19 (11): 1759-1763
- **THE COMPARATIVE TOXICITY OF NONSTEROIDAL ANTIINFLAMMATORY DRUGS (NSAIDS) IN RHEUMATOID-ARTHRITIS (RA) - 1992**
Fries, J. F., Singh, G., Ramey, D. R., MORFELD, D., WILLIAMS, C. A., Bloch, D. A.
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- **PREDICTORS OF DISABILITY IN A LONGITUDINAL SAMPLE OF PATIENTS WITH RHEUMATOID-ARTHRITIS** *ANNALS OF THE RHEUMATIC DISEASES*
Leigh, J. P., Fries, J. F.
1992; 51 (5): 581-587
- **ASSESSING AND UNDERSTANDING PATIENT RISK** *MEETING ON NEW CONSIDERATIONS IN ARTHRITIS CARE, IN ASSOCIATION WITH (EUROPEAN LEAGUE AGAINST RHEUMATISM EULAR 91)*
Fries, J. F.
SCANDINAVIAN UNIVERSITY PRESS.1992: 21-24
- **LIVER-ENZYME LEVELS IN ARTHRITIS PATIENTS TREATED WITH LONG-TERM BOLUS METHOTREXATE - REPLY** *ARTHRITIS AND RHEUMATISM*
Fries, J. F., Singh, G.
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- **RUNNING, OSTEOARTHRITIS, AND BONE-DENSITY - INITIAL 2-YEAR LONGITUDINAL-STUDY** *AMERICAN JOURNAL OF MEDICINE*

- Lane, N. E., Bloch, D. A., Hubert, H. B., Jones, H., SIMPSON, U., Fries, J. F.
1990; 88 (5): 452-459
- **TOWARD AN EPIDEMIOLOGY OF GASTROPATHY ASSOCIATED WITH NONSTEROIDAL ANTIINFLAMMATORY DRUG-USE** *GASTROENTEROLOGY*
Fries, J. F., Miller, S. R., SPITZ, P. W., WILLIAMS, C. A., Hubert, H. B., Bloch, D. A.
1989; 96 (2): 647-655
 - **Prednisone Use and Risk of Mortality in Patients With Rheumatoid Arthritis: Moderation by Use of Disease-Modifying Antirheumatic Drugs** *ARTHRITIS CARE & RESEARCH*
Wasko, M. C., Dasgupta, A., Sears, G. I., Fries, J. F., Ward, M. M.
2016; 68 (5): 706-710
 - **Prednisone Use and Risk of Mortality in Patients With Rheumatoid Arthritis: Moderation by Use of Disease-Modifying Antirheumatic Drugs.** *Arthritis care & research*
Chester Wasko, M., Dasgupta, A., Ilse Sears, G., Fries, J. F., Ward, M. M.
2016; 68 (5): 706-710
 - **Validity of PROMIS physical function measured in diverse clinical samples** *JOURNAL OF CLINICAL EPIDEMIOLOGY*
Schalet, B. D., Hays, R. D., Jensen, S. E., Beaumont, J. L., Fries, J. F., Cella, D.
2016; 73: 112-118
 - **PROMIS measures of pain, fatigue, negative affect, physical function, and social function demonstrated clinical validity across a range of chronic conditions** *JOURNAL OF CLINICAL EPIDEMIOLOGY*
Cook, K. F., Jensen, S. E., Schalet, B. D., Beaumont, J. L., Arntmand, D., Czajkowski, S., DeWalt, D. A., Fries, J. F., Pilkonis, P. A., Reeve, B. B., Stone, A. A., Weinfurt, K. P., Cella, et al
2016; 73: 89-102
 - **Validation of the PROMIS physical function measures in a diverse US population-based cohort of cancer patients** *QUALITY OF LIFE RESEARCH*
Jensen, R. E., Potosky, A. L., Reeve, B. B., Hahn, E., Cella, D., Fries, J., Smith, A. W., Keegan, T. H., Wu, X., Paddock, L., Moynour, C. M.
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 - **Establishing a Common Metric for Physical Function: Linking the HAQ-DI and SF-36 PF Subscale to PROMISA (R) Physical Function** *JOURNAL OF GENERAL INTERNAL MEDICINE*
Schalet, B. D., Revicki, D. A., Cook, K. F., Krishnan, E., Fries, J. F., Cella, D.
2015; 30 (10): 1517-1523
 - **Extending the floor and the ceiling for assessment of physical function.** *Arthritis & rheumatology (Hoboken, N.J.)*
Fries, J. F., Lingala, B., Siemons, L., Glas, C. A., Cella, D., Hussain, Y. N., Bruce, B., Krishnan, E.
2014; 66 (5): 1378-1387
 - **Patient Perspective: Choosing or Developing Instruments** *JOURNAL OF RHEUMATOLOGY*
Kirwan, J. R., Fries, J. F., Hewlett, S., Osborne, R. H.
2011; 38 (8): 1716-1719
 - **The Patient-Reported Outcomes Measurement Information System (PROMIS) developed and tested its first wave of adult self-reported health outcome item banks: 2005-2008** *JOURNAL OF CLINICAL EPIDEMIOLOGY*
Cella, D., Riley, W., Stone, A., Rothrock, N., Reeve, B., Yount, S., Amtmann, D., Bode, R., Buysse, D., Choi, S., Cook, K., DeVellis, R., DeWalt, et al
2010; 63 (11): 1179-1194
 - **A first step to assess harm and benefit in clinical trials in one scale** *JOURNAL OF CLINICAL EPIDEMIOLOGY*
Boers, M., Brooks, P., Fries, J. F., Simon, L. S., Strand, V., Tugwell, P.
2010; 63 (6): 627-632
 - **How to Ascertain Drug Safety in the Context of Benefit. Controversies and Concerns** *9th International Consensus Conference on Outcome Measures in Rheumatology Clinical Trails (OMERACT 9)*
Simon, L. S., Strand, C. V., Boers, M., Brooks, P. M., Tugwell, P. S., Bombardier, C., Fries, J. F., Henry, D., Goldkind, L., Guyatt, G., Laupacis, A., Lynd, L., MacDonald, et al
J RHEUMATOL PUBL CO.2009: 2114-21
 - **Rheumatologist Perceptions of Sources of Health Care Disparities in Minority Rheumatoid Arthritis Patients** *JCR-JOURNAL OF CLINICAL RHEUMATOLOGY*

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- Bruce, B., Fries, J. F.
2009; 15 (3): 145-147
- **Better assessment of physical function: item improvement is neglected but essential** *ARTHRITIS RESEARCH & THERAPY*
Bruce, B., Fries, J. F., Ambrosini, D., Lingala, B., Gandek, B., Rose, M., Ware, J. E.
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 - **Reduced disability and mortality among aging runners - A 21-year longitudinal study** *ARCHIVES OF INTERNAL MEDICINE*
Chakravarty, E. F., Hubert, H. B., Lingala, V. B., Fries, J. F.
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 - **Long distance running and knee osteoarthritis - A prospective study** *AMERICAN JOURNAL OF PREVENTIVE MEDICINE*
Chakravarty, E. F., Hubert, H. B., Lingala, V. B., Zatarain, E., Fries, J. F.
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 - **Regular vigorous physical activity and disability development in healthy overweight and normal-weight seniors: A 13-year study** *AMERICAN JOURNAL OF PUBLIC HEALTH*
Bruce, B., Fries, J. F., Hubert, H.
2008; 98 (7): 1294-1299
 - **The potential perils of informed consent.** *McGill journal of medicine : MJM : an international forum for the advancement of medical sciences by students*
Loftus, E. F., Fries, J. F.
2008; 11 (2): 217-218
 - **Evaluation of a preliminary physical function item bank supported the expected advantages of the Patient-Reported Outcomes Measurement Information System (PROMIS)** *JOURNAL OF CLINICAL EPIDEMIOLOGY*
Rose, M., Bjomer, J. B., Becker, J., Fries, J. F., Ware, J. E.
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 - **Primary knee and hip arthroplasty among nonagenarians and centenarians in the United States** *ARTHRITIS & RHEUMATISM-ARTHRITIS CARE & RESEARCH*
Krishnan, E., Fries, J. F., Kwok, C. K.
2007; 57 (6): 1038-1042
 - **Proteomic analysis of secreted proteins in early rheumatoid arthritis: anti-citrulline autoreactivity is associated with up regulation of proinflammatory cytokines** *ANNALS OF THE RHEUMATIC DISEASES*
Hueber, W., Tomooka, B. H., Zhao, X., Kidd, B. A., Drijfhout, J. W., Fries, J. F., van Venrooij, W. J., Metzger, A. L., Genovese, M. C., Robinson, W. H.
2007; 66 (6): 712-719
 - **Standardizing assessment and reporting of adverse effects in rheumatology clinical trials II: the rheumatology common toxicity criteria v.2.0** *8th International Consensus Conference on Outcome Measures in Rheumatology Clinical Trials (OMERACT 8)*
Woodworth, T., Furst, D. E., Alten, R., Bingham, C., Yocum, D., Sloan, V., Tsuji, W., Stevens, R., Fries, J., Witter, J., Johnson, K., Lassere, M., Brooks, et al
*J RHEUMATOL PUBL CO.*2007: 1401-14
 - **The irreversible component of the disability index of the Health Assessment Questionnaire: comment on the article by Aletaha et al** *ARTHRITIS AND RHEUMATISM*
Fries, J. F.
2007; 56 (4): 1368-1369
 - **Arthritis therapies and risk of myocardial infarction.** *70th Annual Scientific Meeting of the American-College-of-Rheumatology/41st Annual Scientific Meeting of the Association-of-Rheumatology-Health-Professionals*
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 - **Science as experiment; science as observation** *NATURE CLINICAL PRACTICE RHEUMATOLOGY*
Chakravarty, E. F., Fries, J. F.
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 - **Discounting and risk characteristics in clinical decision-making** *MEDICAL SCIENCE MONITOR*
Ortendahl, M., Fries, J. F.
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- **Midlife body mass index and hospitalization and mortality in older age** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
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2006; 295 (2): 190-198
- **Associations of changes in exercise level with subsequent disability among seniors: A 16-year longitudinal study** *JOURNALS OF GERONTOLOGY SERIES A-BIOLOGICAL SCIENCES AND MEDICAL SCIENCES*
Berk, D. R., Hubert, H. B., Fries, J. F.
2006; 61 (1): 97-102
- **Frailty, heart disease, and stroke - The compression of morbidity paradigm** *AMERICAN JOURNAL OF PREVENTIVE MEDICINE*
Fries, J. F.
2005; 29 (5): 164-168
- **Standardized assessment of adverse events in rheumatology clinical trials: Summary of the OMERACT 7 Drug Safety Module update** *7th International Consensus Conference on Outcome Measures in Rheumatology Clinical Trials*
Lassere, M. N., Johnson, K. R., Boers, M., Carlton, K., Day, R. O., de Wit, M., Edwards, I. R., Fries, J. F., Furst, D. E., Kirwan, J. R., Tugwell, P. S., Woodworth, T. G., Brooks, et al
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- **Challenges and progress in adverse event ascertainment and reporting in clinical trials** *7th International Consensus Conference on Outcome Measures in Rheumatology Clinical Trials*
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2005; 23 (5): S14-S18
- **The promise of PROMIS: Using item response theory to improve assessment of patient-reported outcomes** *CLINICAL AND EXPERIMENTAL RHEUMATOLOGY*
Fries, J. F., Bruce, B., Cella, D.
2005; 23 (5): S53-S57
- **Framing health messages based on anomalies in time preference** *MEDICAL SCIENCE MONITOR*
Ortendahl, M., Fries, J. F.
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- **Powering our way to the elusive side effect: A composite outcome 'basket' of predefined designated endpoints in each organ system should be included in all controlled trials** *JOURNAL OF CLINICAL EPIDEMIOLOGY*
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Bruce, B., Fries, J. F., Lubeck, D. P.
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- **Rheumatoid arthritis: Radiographic progression is getting milder** *JOURNAL OF RHEUMATOLOGY*
Krishnan, E., Fries, J. F.
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- **Longitudinal comparison of the Health Assessment Questionnaire (HAQ) and the Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC)** *ARTHRITIS & RHEUMATISM-ARTHRITIS CARE & RESEARCH*
Bruce, B., Fries, J.
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- **New instruments for assessing disability: Not quite ready for prime time** *ARTHRITIS AND RHEUMATISM*

- Fries, J. F.
2004; 50 (10): 3064-3067
- **Vigorous exercise and reduced medical care costs: The disability link** *68th Annual Scientific Meeting of the American-College-of-Rheumatology/39th Annual Scientific Meeting of the Association-of-Rheumatology-Health-Professionals*
Fries, J. F., Bennett, M., Lingala, B., Hubert, H.
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