

Daniel Bloch

Professor (Research) of Health Research and Policy, Emeritus

Health Research & Policy

CONTACT INFORMATION

- **Alternate Contact**

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Bio

BIO

I received my PhD. in Mathematical Statistics in 1967. I joined the research community at the Stanford University School of Medicine, Division of Immunology & Rheumatology, in 1984 as head statistician directing the biostatistics consulting and analytic support of the Arthritis Rheumatism Aging Medical Information System (ARAMIS) and Multipurpose Arthritis Center (MAC) grant-related research programs. In 1993 I was appointed Associate Professor with a joint appointment in the Departments of Medicine and of Health Research & Policy, and am currently Professor of Biostatistics at Stanford University, emeritus since 2007. My contributions to the statistics literature span numerous fields, including methods of sample size estimation, efficiency and bias of estimators, research methods for kappa statistics, non-parametric classification methods and methods of assessing multi-parameter endpoints. I have over 200 peer-reviewed publications. I have been directly involved with the development of numerous criteria rules for classification of diseases and with establishing guidelines for clinical trial research and in proposing responder criteria for osteoarthritis drugs. Since 1987, I have been a consultant on an ad hoc basis to pharmaceutical and biotechnical firms, including both start-up and established companies. I have extensive experience with devices, drugs and biologics and have participated in all aspects of applying statistics to implement investigational plans; e.g.: for protocol development, design of trials, database design. I've been a member of the FDA Statistical Advisors Panel, the statistical member on numerous data safety monitoring boards, and frequently represent companies at meetings with the FDA

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Health Research & Policy
- Member, Stanford Cancer Institute

Publications

PUBLICATIONS

- **Effects of Continuous Positive Airway Pressure on Neurocognitive Function in Obstructive Sleep Apnea Patients: The Apnea Positive Pressure Long-term Efficacy Study (APPLES) *SLEEP***
Kushida, C. A., Nichols, D. A., Holmes, T. H., Quan, S. F., Walsh, J. K., Gottlieb, D. J., Simon, R. D., Guilleminault, C., White, D. P., Goodwin, J. L., Schweitzer, P. K., Leary, E. B., Hyde, et al
2012; 35 (12): 1593-U40
- **Safety and efficacy of retreatment with a bioengineered hyaluronate for painful osteoarthritis of the knee: results of the open-label Extension Study of the FLEXX Trial *OSTEOARTHRITIS AND CARTILAGE***
Altman, R. D., Rosen, J. E., Bloch, D. A., Hatoum, H. T.
2011; 19 (10): 1169-1175
- **Safety issues in the development of treatments for osteoarthritis: recommendations of the Safety Considerations Working Group *OSTEOARTHRITIS AND CARTILAGE***
Strand, V., Bloch, D. A., Leff, R., Peloso, P. M., Simon, L. S.

2011; 19 (5): 493-499

- **Sham or Scam: A Critical Assessment of Recent Vertebroplasty Trials** *NEUROSURGERY*
Frankel, B., Bloch, D. A.
2010; 67 (2)
- **Plasma disc decompression compared with fluoroscopy-guided transforaminal epidural steroid injections for symptomatic contained lumbar disc herniation: a prospective, randomized, controlled trial** Clinical article *JOURNAL OF NEUROSURGERY-SPINE*
Gerszten, P. C., Smuck, M., Rathmell, J. P., Simopoulos, T. T., Bhagia, S. M., Mocek, C. K., Crabtree, T., Bloch, D. A.
2010; 12 (4): 357-371
- **A Double-Blind, Randomized, Saline-Controlled Study of the Efficacy and Safety of EUFLEXXA (R) for Treatment of Painful Osteoarthritis of the Knee, With an Open-Label Safety Extension (The FLEXX Trial)** *SEMINARS IN ARTHRITIS AND RHEUMATISM*
Altman, R. D., Rosen, J. E., Bloch, D. A., Hatoum, H. T., Korner, P.
2009; 39 (1): 1-9
- **A comparison of speculum and nonspeculum collection of cervicovaginal specimens for fetal fibronectin testing** *AMERICAN JOURNAL OF OBSTETRICS AND GYNECOLOGY*
Stafford, I. P., Garite, T. J., Dildy, G. A., Colon-Lucach, A., Williams, C. A., Bobritchi, B., Lapointe, J., Bloch, D. A.
2008; 199 (2)
- **A preliminary randomized, double-blind, placebo-controlled study of the safety and efficacy of ondansetron in the treatment of methamphetamine dependence** *INTERNATIONAL JOURNAL OF NEUROPSYCHOPHARMACOLOGY*
Johnson, B. A., Ait-Daoud, N., Elkashef, A. M., Smith, E. V., Kahn, R., Vocci, F., Li, S., Bloch, D. A.
2008; 11 (1): 1-14
- **Performance goals and endpoint assessments for clinical trials of femoropopliteal bare nitinol stents in patients with symptomatic peripheral arterial disease** *CATHETERIZATION AND CARDIOVASCULAR INTERVENTIONS*
Rocha-Singh, K. J., Jaff, M. R., Crabtree, T. R., Bloch, D. A., Ansel, G.
2007; 69 (6): 910-919
- **A combined superiority and non-inferiority approach to multiple endpoints in clinical trials** *STATISTICS IN MEDICINE*
Bloch, D. A., Lai, T. L., Su, Z., Tubert-Bitter, P.
2007; 26 (6): 1193-1207
- **Iliac fixation inhibits migration of both suprarenal and infrarenal aortic endografts** *60th Annual Meeting of the Society-for-Vascular-Surgery*
Benharash, P., Lee, J. T., Abilez, O. J., Crabtree, T., Bloch, D. A., Zarins, C. K.
MOSBY-ELSEVIER.2007: 250-57
- **Effect of non-steroidal anti-inflammatory medications on the risk of amyotrophic lateral sclerosis** *AMYOTROPHIC LATERAL SCLEROSIS*
Popat, R. A., Tanner, C. M., Van Den Eeden, S. K., Bernstein, A. L., Bloch, D. A., Leimpeter, A., McGuire, V., Nelson, L. M.
2007; 8 (3): 157-163
- **Candidate early predictors for progression to joint damage in systemic juvenile idiopathic arthritis** *JOURNAL OF RHEUMATOLOGY*
Sandborg, C., Holmes, T. H., Lee, T., Biederman, K., Bloch, D. A., Emery, H., McCurdy, D., Mellins, E. D.
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- **Fluoxetine and suicide rates: Suicide and the economy** *PLOS MEDICINE*
Camargo, C. A., Bloch, D. A.
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- **Endovascular aneurysm repair at 5 years: does aneurysm diameter predict outcome?** *30th Annual Meeting of the Southern-Association-for-Vascular-Surgery*
Zarins, C. K., Crabtree, T., Bloch, D. A., Arko, F. R., Ouriel, K., White, R. A.
MOSBY-ELSEVIER.2006: 920-29
- **A preliminary randomized, double-blind, placebo-controlled study of the safety and efficacy of ondansetron in the treatment of cocaine dependence** *DRUG AND ALCOHOL DEPENDENCE*
Johnson, B. A., Roache, J. D., Ait-Daoud, N., Javors, M. A., Harrison, J. M., Elkashef, A., Mojsiak, J., Li, S., Bloch, D. A.
2006; 84 (3): 256-263
- **The Apnea Positive Pressure Long-term Efficacy Study (APPLES): rationale, design, methods, and procedures.** *Journal of clinical sleep medicine*

- Kushida, C. A., Nichols, D. A., Quan, S. F., Goodwin, J. L., White, D. P., Gottlieb, D. J., Walsh, J. K., Schweitzer, P. K., Guilleminault, C., Simon, R. D., Leary, E. B., Hyde, P. R., Holmes, et al
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- **Mature results from a randomized phase II trial of cisplatin plus 5-fluorouracil and radiotherapy with or without tirapazamine in patients with resectable stage IV head and neck squamous cell carcinomas** *CANCER*
Le, Q. T., Taira, A. I., Budenz, S., Dorie, M. J., Goffinet, D. R., Fee, W. E., Goode, R., Bloch, D., Koong, A., Brown, J. M., Pinto, H. A.
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 - **Design and conduct of clinical trials in patients with osteoarthritis of the hand: recommendations from a task force of the Osteoarthritis Research Society International** *OSTEOARTHRITIS AND CARTILAGE*
Maheu, E., Altman, R. D., Bloch, D. A., Doherty, M., Hochberg, M., Mannoni, A., Punzi, L., Spector, T., Verbruggen, G., Carr, A., Cicuttini, F., Dreiser, R. L., Haraoui, et al
2006; 14 (4): 303-322
 - **Effect of reproductive factors and postmenopausal hormone use on the risk of amyotrophic lateral sclerosis** *NEUROEPIDEMIOLOGY*
Popat, R. A., Van Den Eeden, S. K., Tanner, C. M., Bernstein, A. L., Bloch, D. A., Leimpeter, A., McGuire, V., Nelson, L. M.
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 - **Responsiveness, effect size, and smallest detectable difference of Magnetic Resonance Imaging in knee osteoarthritis** *Workshop for Consensus on Osteoarthritis Imaging*
Hunter, D. J., Conaghan, P. G., Peterfy, C. G., Bloch, D., Guermazi, A., Woodworth, T., Stevens, R., Genant, H. K.
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 - **A comprehensive assessment of the safety of intravenous methamphetamine administration during treatment with selegiline** *PHARMACOLOGY BIOCHEMISTRY AND BEHAVIOR*
Newton, T. F., De la Garza, R., Fong, T., Chiang, N., Holmes, T. H., Bloch, D. A., Anderson, A., Elkashef, A.
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 - **Protective conditioning for acute graft-versus-host disease** *NEW ENGLAND JOURNAL OF MEDICINE*
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 - **Effect of reproductive factors and postmenopausal hormone use on the risk of Parkinson disease** *NEUROLOGY*
Popat, R. A., Van Den Eeden, S. K., Tanner, C. M., McGuire, V., Bernstein, A. L., Bloch, D. A., Leimpeter, A., Nelson, L. M.
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 - **Endovascular repair or surveillance of patients with small AAA** *NATO Advanced Research Workshop on Enhancing Urban Environment*
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 - **Meniscal tear and extrusion are strongly associated with progression of symptomatic knee osteoarthritis as assessed by quantitative magnetic resonance imaging** *ANNALS OF THE RHEUMATIC DISEASES*
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 - **Retrospective analyses of pooled data from CREST I and CREST II trials for treatment of cocaine dependence** *ADDICTION*
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 - **Cocaine Rapid Efficacy Screening Trial (CREST): a paradigm for the controlled evaluation of candidate medications for cocaine dependence** *ADDICTION*
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 - **A medication screening trial evaluation of reserpine, gabapentin and lamotrigine pharmacotherapy of cocaine dependence** *ADDICTION*
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- **Efficacy screening trials of paroxetine, pentoxifylline, riluzole, pramipexole and venlafaxine in cocaine dependence** *ADDICTION*
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2005; 100: 12-22
- **A placebo-controlled screening trial of tiagabine, sertraline and donepezil as cocaine dependence treatments** *ADDICTION*
Winhusen, T. M., Somoza, E. C., Harrer, J. M., Mezinskis, J. P., Montgomery, M. A., Goldsmith, R. J., Coleman, F. S., Bloch, D. A., Leiderman, D. B., Singal, B. M., Berger, P., Elkashef, A.
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- **Cocaine Rapid Efficacy Screening Trials (CREST): lessons learned** *ADDICTION*
Kampman, K. M., Leiderman, D., Holmes, T., LoCastro, J., Bloch, D. A., Reid, M. S., Shoptaw, S., Montgomery, M. A., Winhusen, T. M., Somoza, E. C., Ciraulo, D. A., Elkashef, A., Vocci, et al
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- **A nonparametric comparison of the effectiveness of treatments: A multivariate toxicity-penalized approach** *JOURNAL OF BIOPHARMACEUTICAL STATISTICS*
Tubert-Bitter, P., Letierce, A., Bloch, D. A., Kramar, A.
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- **Quantitative air-trapping analysis in children with mild cystic fibrosis lung disease** *PEDIATRIC PULMONOLOGY*
Bonnell, A. S., Song, S. M., Kesavaraju, K., Newaskar, M., Paxton, C. J., Bloch, D. A., Moss, R. B., Robinson, T. E.
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- **Misperceptions regarding the long-term safety of the AneuRx stent graft** *JOURNAL OF VASCULAR SURGERY*
Zarins, C. K., Bloch, D. A.
2004; 40 (3): 594-595
- **A two-year evaluation of disease progression by quantitative magnetic resonance imaging in a large primary osteoarthritic patient population. 68th Annual Scientific Meeting of the American-College-of-Rheumatology/39th Annual Scientific Meeting of the Association-of-Rheumatology-Health-Professionals**
Raynauld, J. P., Martel-Pelletier, J., Berthiaume, M. J., Beaudoin, G., Labonte, F., Bloch, D. A., Choquette, C., Haraoui, B., Altman, R. D., Hochberg, M., Beary, J., Cline, G., Meyer, et al
WILEY-BLACKWELL.2004: S349-S349
- **Explant analysis of AneuRx stent grafts: Relationship between structural findings and clinical outcome 18th Annual Meeting of the Western-Vascular-Society**
Zarins, C. K., Arko, F. R., Crabtree, T., Bloch, D. A., Ouriel, K., Allen, R. C., White, R. A.
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- **Measurement of structural progression in osteoarthritis of the hip: the Barcelona consensus group** *OSTEOARTHRITIS AND CARTILAGE*
Altman, R. D., Bloch, D. A., Dougados, M., Hochberg, M., Lohmander, S., Pavelka, K., Vignon, E.
2004; 12 (7): 515-524
- **A two-year evaluation of disease progression by quantitative magnetic resonance imaging in a large primary osteoarthritic patient population Annual European Congress of Rheumatology (EULAR 2004)**
Raynauld, J. P., Martel-Pelletier, J., Berthiaume, M., Beaudoin, G., Labonte, F., Bloch, D., Choquette, D., Haraoui, B., Altman, R., Hochberg, M., Beary, J., Cline, G., Meyer, et al
BMJ PUBLISHING GROUP.2004: 71-71
- **Quantitative magnetic resonance imaging evaluation of knee osteoarthritis progression over two years and correlation with clinical symptoms and radiologic changes** *ARTHRITIS AND RHEUMATISM*
Raynauld, J. P., Martel-Pelletier, J., Berthiaume, M. J., Labonte, F., Beaudoin, G., de Guise, J. A., Bloch, D. A., Choquette, D., Haraoui, B., Altman, R. D., Hochberg, M. C., Meyer, J. M., Cline, et al
2004; 50 (2): 476-487
- **Aneurysm enlargement following endovascular aneurysm repair: AneuRx clinical trial 26th Annual Meeting of the Midwestern-Vascular-Surgical-Society**
Zarins, C. K., Bloch, D. A., Crabtree, T., Matsumoto, A. H., White, R. A., Fogarty, T. J.
MOSBY-ELSEVIER.2004: 109-17
- **Stent graft migration after endovascular aneurysm repair: Importance of proximal fixation 27th Annual Meeting of the Southern-Association-for-Vascular-Surgery**
Zarins, C. K., Bloch, D. A., Crabtree, T., Matsumoto, A. H., White, R. A., Fogarty, T. J.
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- **Composite spirometric-computed tomography outcome measure in early cystic fibrosis lung disease** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*
Robinson, T. E., Leung, A. N., Northway, W. H., Blankenberg, F. G., Chan, F. P., Bloch, D. A., Holmes, T. H., Moss, R. B.
2003; 168 (5): 588-593
- **Meniscal damage is strongly associated with the progression of knee osteoarthritis as assessed by a quantification imaging system using magnetic resonance imaging.** *67th Annual Scientific Meeting of the American-College-of-Rheumatology/38th Annual Scientific Meeting of the Association-of-Rheumatology-Health-Professionals*
Pelletier, J. P., Raynauld, J. P., Beaudoin, G., Berthiaume, M. J., DeGuise, J., Bloch, D., Altman, R., Hochberg, M., Cline, G., Meyer, J., Martel-Pelletier, J.
WILEY-BLACKWELL.2003: S453-S453
- **Meniscal damage is strongly associated with the progression of knee osteoarthritis as assessed by a quantification imaging system using the magnetic resonance imaging** *Annual European Congress of Rheumatology*
Raynauld, J. P., Pelletier, J. P., Beaudoin, G., Berthiaume, M. J., DeGuise, J., Bloch, D. A., Altman, R. D., Hochberg, M. C., Cline, G., Meyer, J. M., Martel-Pelletier, J.
BMJ PUBLISHING GROUP.2003: 327-327
- **Incidence of Parkinson's disease: Variation by age, gender, and Race/Ethnicity** *AMERICAN JOURNAL OF EPIDEMIOLOGY*
Van den Eeden, S. K., Tanner, C. M., Bernstein, A. L., Fross, R. D., Leimpeter, A., Bloch, D. A., Nelson, L. M.
2003; 157 (11): 1015-1022
- **Comparison of the comet assay and the oxygen microelectrode for measuring tumor oxygenation in head-and-neck cancer patients** *Annual Meeting on Radiation Research*
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- **Reliability of a quantification imaging system using magnetic resonance images to measure cartilage thickness and volume in human normal and osteoarthritic knees** *OSTEOARTHRITIS AND CARTILAGE*
Raynauld, J. P., Kauffmann, C., Beaudoin, G., Berthiaume, M. J., de Guise, J. A., Bloch, D. A., Camacho, F., Godbout, B., Altman, R. D., Hochberg, M., Meyer, J. M., Cline, G., Pelletier, et al
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- **Modulation of bone ingrowth and tissue differentiation by local infusion of interleukin-10 in the presence of ultra-high molecular weight polyethylene (UHMWPE) wear particles.** *Journal of biomedical materials research. Part A*
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- **Modulation of bone ingrowth and tissue differentiation by local infusion of interleukin-10 in the presence of ultra-high molecular weight polyethylene (UHMWPE) wear particles** *JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A*
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- **Meniscal damage is strongly associated with the progression of knee osteoarthritis as assessed by a quantification imaging system using the magnetic resonance imaging** *4th European Congress on Clinical and Economic Aspects of Osteoporosis and Osteoarthritis (ECCEO 4)*
Pelletier, J. P., Raynauld, J. P., Beaudoin, G., Berthiaume, M. J., de Guise, J. A., Bloch, D. A., Altman, R. D., Hochberg, M., Cline, G., Meyer, J., Martel-Pelletier, J.
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- **Unexpectedly high prevalence of posttransplant anemia in pediatric and young adult renal transplant recipients** *AMERICAN JOURNAL OF KIDNEY DISEASES*
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- **Assessment of low-flow CSF drainage as a treatment for AD - Results of a randomized pilot study** *NEUROLOGY*
Silverberg, G. D., Levinthal, E., SULLIVAN, E. V., Bloch, D. A., Chang, S. D., Leverenz, J., Flitman, S., Winn, R., Marciano, F., Saul, T., Huhn, S., Mayo, M., McGuire, et al
2002; 59 (8): 1139-1145
- **A two-year study in osteoarthritis patients following the progression of the disease by magnetic resonance imaging using a novel quantification Imaging system.** *66th Annual Scientific Meeting of the American-College-of-Rheumatology/37th Annual Scientific Meeting of the Association-of-Rheumatology-Health-Professionals*

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- **Lifestyle habits and compression of morbidity** *JOURNALS OF GERONTOLOGY SERIES A-BIOLOGICAL SCIENCES AND MEDICAL SCIENCES*
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- **Risk estimation for classification trees** *JOURNAL OF COMPUTATIONAL AND GRAPHICAL STATISTICS*
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- **Long-term followup of patients treated with total lymphoid irradiation for lupus nephritis** *ARTHRITIS AND RHEUMATISM*
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2002; 46 (4): 1014-1018
- **Fetal ear length measurement: a useful predictor of aneuploidy?** *ULTRASOUND IN OBSTETRICS & GYNECOLOGY*
Chitkara, U., Lee, L., Oehlert, J. W., Bloch, D. A., Holbrook, R. H., El-Sayed, Y. Y., Druzin, M. L.
2002; 19 (2): 131-135
- **Postural balance in children with cerebral palsy** *DEVELOPMENTAL MEDICINE AND CHILD NEUROLOGY*
Rose, J., Wolff, D. R., Jones, V. K., Bloch, D. A., Oehlert, J. W., Gamble, J. G.
2002; 44 (1): 58-63
- **HIV risk in drug dependent population** *14th International AIDS Conference*
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MEDIMOND S R L.2002: 317-323
- **One-sided tests in clinical trials with multiple endpoints** *BIOMETRICS*
Bloch, D. A., Lai, T. L., Tubert-Bitter, P.
2001; 57 (4): 1039-1047
- **Spirometer-triggered high-resolution computed tomography and pulmonary function measurements during an acute exacerbation in patients with cystic fibrosis** *JOURNAL OF PEDIATRICS*
Robinson, T. E., Leung, A. N., Northway, W. H., Blankenberg, F. G., Bloch, D. A., Oehlert, J. W., Al-Dabbagh, H., Hubli, S., Moss, R. B.
2001; 138 (4): 553-559
- **The AneuRx stent graft: Four-year results and worldwide experience 2000** *JOURNAL OF VASCULAR SURGERY*
Zarins, C. K., White, R. A., Moll, F. L., Crabtree, T., Bloch, D. A., Hodgson, K. J., Fillinger, M. F., Fogarty, T. J.
2001; 33 (2): S135-S145
- **Response criteria for clinical trials on osteoarthritis of the knee and hip - A report of The Osteoarthritis Research Society International Standing Committee for Clinical Trials Response Criteria Initiative** *OSTEOARTHRITIS AND CARTILAGE*
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2000; 8 (6): 395-403
- **Reliability of proxy-reported and self-reported household appliance use** *EPIDEMIOLOGY*
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2000; 11 (5): 581-588
- **Ultrasonographic ear length measurement in normal second-and third-trimester fetuses** *AMERICAN JOURNAL OF OBSTETRICS AND GYNECOLOGY*
Chitkara, U., Lee, L., El-Sayed, Y. Y., Holbrook, R. H., Bloch, D. K., Oehlert, J. W., Druzin, M. L.
2000; 183 (1): 230-234
- **Assessing patients' views of clinical changes - Reply** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Holman, H., Bloch, D. A., Lorig, K., Laurent, D., Fischer, D., Stewart, A. L.
2000; 283 (14): 1825-1825
- **Prevalence of pelvic Paget's disease of bone in the United States** *JOURNAL OF BONE AND MINERAL RESEARCH*
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- **Falls in older Mexican-American women** *JOURNAL OF THE AMERICAN GERIATRICS SOCIETY*
Schwartz, A. V., Villa, M. L., Prill, M., Kelsey, J. A., Galinus, J. A., Delay, R. R., Nevitt, M. C., Bloch, D. A., Marcus, R., Kelsey, J. L.
1999; 47 (11): 1371-1378
- **Children's symptoms in the wake of Challenger: A field study of distant-traumatic effects and an outline of related conditions** *AMERICAN JOURNAL OF PSYCHIATRY*
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