



**Associate Professor Paul Bird
MD, PhD, GD MRI, FRACP**

Paul Bird has over twenty years' experience in treating rheumatic disease, with particular expertise in Rheumatoid arthritis, Psoriatic arthritis and Ankylosing spondylitis. A/Professor Bird received his medical degree with Honours from the University of Newcastle, and he completed his physician and rheumatology training in Sydney. Pursuing research alongside clinical medicine and patient care, he completed a PhD in 2005 examining MRI in Rheumatoid arthritis, and a Graduate Diploma in MRI. He continues to undertake arthritis research with fellow Australian rheumatologists and with international colleagues.

Internationally recognised as a specialist in rheumatic disease and imaging, he is the current Chair of the International Magnetic Resonance Imaging Research association and actively participates in national and international rheumatology research.

He has an extensive track record in MRI research and was a key contributor to the development of the RAMRIS MRI RA score, the PsAMRIS PsA MRI score, the MRI RA JSN score and the MRI hand OA assessment tool.

Providing consultation imaging services to Synarc, Bioclinica, Imorphics, and Boston Imaging Core Lab, he continues to participate in image interpretation and analyses in rheumatology clinical trials.

As a clinical researcher, he is Director of Optimus Clinical Research, a trial centre undertaking Phase 2,3 and 4 clinical trials in rheumatology. He has been Principal Investigator in over sixty clinical trials and continue to undertake Investigator Initiated Trials. In 2016, his collaborative research on Vertebroplasty was published in the Lancet.

Personal Profile

Associate Professor Paul Bird

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Associate Professor
St George Clinical School
University of New South Wales
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Professional Qualifications

- | | |
|------|---|
| 2005 | PhD University of New South Wales
Assessment of the feasibility, reliability and validity of
Magnetic Resonance Imaging as an Outcome measure in
Rheumatoid Arthritis
NHMRC Post Doctoral Research Scholarship 2000-2004 |
| 2004 | MRI Graduate Diploma RMIT University |
| 2001 | MRI Graduate Certificate RMIT University (Distinction) |
| 1999 | Admitted to Fellowship of the Royal Australasian College of
Physicians (FRACP) |
| 1993 | Bachelor Of Medicine (Hons)
University of Newcastle NSW |

Appointments

2016 - current	Co-Chair OMERACT MRI Inflammatory Arthritis Group
2015- current	Associate Professor University of New South Wales Sydney Australia
2013 – current	Director Rheumatology Specialist care
2007-current	Director Optimus Clinical Research Phase 2, 3 and 4 Rheumatology Clinical Trials www.optimusresearch.com.au
2010-2011	Staff Specialist Rheumatology Department Prince of Wales Hospital Sydney NSW Australia
2005-current	Conjoint Senior Lecturer University of New South Wales
2003-2007	Chair Professional Affairs Committee Australian Rheumatology Association
2003-2006	Director of Physician Training Royal Australasian College of Physicians St George Physician Training Network
2003-2006	Staff Specialist Rheumatology Department St George Hospital
2002-2005	Conjoint Lecturer University of New South Wales

PART I: RESEARCH

MRI OMERACT INTERNATIONAL RESEARCH GROUP

2016 - current Co-Chair OMERACT MRI Inflammatory Arthritis Group

Development of an MRI based scoring method for assessing RA in clinical trials (RAMRIS)

Development of an MRI based scoring system for Psoriatic Arthritis (PsAMRIS)

Development of a JSN based scoring system for RA

Development of an MRI based scoring system for OA hand

Assessment of computerized scoring methods for assessment of erosions in RA

Collaboration with SPARCC Canada – development of automated methods for assessment of OA hip and knee

Development of a whole body MRI based scoring system.

Key contributor from inception in 1998. The OMERACT MRI group has developed tools for MRI analysis in rheumatology clinical trials. These include the RAMRIS score, PsAMRIS score, MRI JSN score for RA trials, computerized methods for image analysis, whole body MRI scoring, hand OA MRI scoring.

Major Phase three studies 2012-2017

Director
Optimus Clinical Research
Principal Investigator

Bird, Paul Principal Investigator

RAD201677 A multicenter, randomized, double blind, placebo-controlled, Parallel group study to evaluate the efficacy and safety of Sirukumab in the treatment of patients with giant cell arteritis

IN457F2336 A phase III, randomized, double-blind, placebo-controlled multicentre study of subcutaneous se syringe, with or without loading regimen, to demonstrate efficacy, safety and tolerability up to 2

AIN457F2312 A Phase III randomized, double-blind, placebo-controlled multicenter study of subcutaneous se demonstrate the efficacy at 24 weeks and to assess the long term efficacy, safety and tolerability Psoriatic Arthritis.

Trial Registration Number: NCT01752634

AIN457F2318 A phase III, randomized, double-blind, placebo-controlled multicenter study of subcutaneous se demonstrate efficacy at 24 weeks and to assess the long term safety, tolerability and efficacy up Psoriatic Arthritis

Trial Registration Number: NCT01989468

C-10004-PSA-04 A Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Efficacy of Apremilast (Cc-10004) In Subjects With Active Psoriatic Arthritis And A Qualifying Psoriasis Trial Registration Number: NCT01212770

C-10004-PSA-05 A phase 3, multicenter, randomized, Double-blind, placebo-controlled, parallel group, Efficacy of Apremilast (cc-10004) in subjects with active Psoriatic arthritis who have not been Previouslylyt Antirheumatic drugs

Trial Registration Number: NCT01307423

114-465 A Phase 3, Randomized, Double-Blind Study Comparing ABT 494 to Placebo and to Adalimumab in Subjects with Moderately to Severely Active Rheumatoid Arthritis Who are on a Stable Background of Methotrexate (MTX) and Who Have an Inadequate Response to MTX (MTX-IR)

ML28703: Evaluating Non-Progression of Structural Joint Damage of Subcutaneous Tocilizumab in Rheumatoid Arthritis

A long-term, open-label follow-up study of cp-690,550, a moderately selective janus-kinase-3 inhibitor, for treatment of rheumatoid arthritis

Apremilast in the Treatment of DMARD-Naïve Psoriatic Arthritis Patients: A Phase III Randomized, Placebo-Controlled Trial (PALACE 4)

Apremilast in the Treatment of TNF unresponsive Psoriatic Arthritis Patients: A Phase III Randomized, Placebo-Controlled Trial (PALACE 5)

A Multicenter, Randomized, Double-Blind, Study Comparing the Efficacy and Safety of Continuing Versus Withdrawing Adalimumab Therapy in Maintaining Remission in Subjects with Non-Radiographic Axial Spondyloarthritis M13-375

A Randomized, Double-Blind, Placebo-Controlled, Phase 3 Study to Evaluate the Efficacy and Safety of Baricitinib (LY3009104) in Patients With Inadequate Response to Conventional Disease-Modifying Antirheumatic Drugs With Moderately to Severely Active Rheumatoid Arthritis

A Randomized, Double-Blind, Placebo-Controlled, Phase 3 Study Evaluating the Efficacy and Safety of Baricitinib (LY3009104) in Patients With Moderately to Severely Active Rheumatoid Arthritis Who Have Had an Inadequate Response to Tumor Necrosis Factor Inhibitors

A Phase III, Randomized, Double-blind, Placebo-controlled Study of Subcutaneous Secukinumab in Autoinjectors, to Demonstrate Efficacy at 24 Weeks and Long Term Safety and Efficacy up to 3 Years in Subjects With Active Psoriatic Arthritis

A Multicenter, Single-blind, Randomized Parallel-group Study to Assess the Short- and Long-term Efficacy of Certolizumab Pegol Plus Methotrexate Compared to Adalimumab Plus Methotrexate in Subjects With Moderate to Severe Rheumatoid Arthritis Responding Inadequately to Methotrexate

Publications

Bird P, Diamond T, Clark WA.

Vertebroplasty for acute painful osteoporotic fracture.

Med J Aust. 2017 Sep 2;207(7):279-281.

Østergaard M, Peterfy CG, Bird P, Gandjbakhch F, Glinatsi D, Eshed I, Haavardsholm EA, Lillegraven S, Bøyesen P, Ejbjerg B, Foltz V, Emery P, Genant HK, Conaghan PG. The OMERACT Rheumatoid Arthritis Magnetic Resonance Imaging (MRI) Scoring System: Updated Recommendations by the OMERACT MRI in Arthritis Working Group.

Østergaard M, Peterfy CG, Bird P, Gandjbakhch F, Glinatsi D, Eshed I, Haavardsholm EA, Lillegraven S, Bøyesen P, Ejbjerg B, Foltz V, Emery P, Genant HK, Conaghan PG. J Rheumatol. 2017 Nov;

Brown MA, Bird PA, Robinson PC, Mease PJ, Bosch FVD, Surian C, Jones H, Szumski A, Marshall L, Wiid Z, Dougados M.

Evaluation of the effect of baseline MRI sacroiliitis and C reactive protein status on etanercept treatment response in non-radiographic axial spondyloarthritis: a post hoc analysis of the EMBARK study.

Ann Rheum Dis. 2017 Jul 3. pii: annrheumdis-2017-211313. doi: 10.1136/annrheumdis-2017-211313.

Jaremko JL, Azmat O, Lambert RGW, Bird P, Haugen IK, Jans L, Weber U, Winn N, Zubler V, Maksymowych WP.

Validation of a Knowledge Transfer Tool According to the OMERACT Filter: Does Web-based Real-time Iterative Calibration Enhance the Evaluation of Bone Marrow Lesions in Hip Osteoarthritis?

J Rheumatol. 2017 Nov;44(11):1713-1717. doi: 10.3899/jrheum.161101. Epub 2017 Jul 1.

Roberts L, Tymms K, de Jager J, Littlejohn G, Griffiths H, Nicholls D, Bird P, Young J, Hill J, Zochling J.

The CEDAR Study: A Longitudinal Study of the Clinical Effects of Conventional DMARDs and Biologic DMARDs in Australian Rheumatology Practice.

Int J Rheumatol. 2017;2017:1201450. doi: 10.1155/2017/1201450. Epub 2017 May 23.

Østergaard M, Eshed I, Althoff CE, Poggenborg RP, Diekhoff T, Krabbe S, Weckbach S, Lambert RGW, Pedersen SJ, Maksymowych WP, Peterfy CG, Freeston J, Bird P, Conaghan PG, Hermann KA.

Whole-body Magnetic Resonance Imaging in Inflammatory Arthritis: Systematic Literature Review and First Steps Toward Standardization and an OMERACT Scoring System.

J Rheumatol. 2017 Nov;44(11):1699-1705. doi: 10.3899/jrheum.161114. Epub 2017 Jun 15.

Clark W, Bird P, Diamond T, Gonski P, Barnes E, Gebiski V.

Criticisms of the VAPOUR trial in a recent commentary are unsubstantiated and incorrect.

Evid Based Med. 2017 Jun;22(3):116-117. doi: 10.1136/ebmed-2017-110737. Epub 2017 May 25. No abstract available.

Glinatsi D, Bird P, Gandjbakhch Development and Validation of the OMERACT Rheumatoid Arthritis Magnetic Resonance Tenosynovitis Scoring System in a Multireader Exercise.

F, Haavardsholm EA, Peterfy CG, Vital EM, Emery P, Conaghan PG, Østergaard M. *J Rheumatol*. 2017 Nov;44(11):1688-1693. doi: 10.3899/jrheum.161097. Epub 2017 May 1.

Jaremko JL, Azmat O, Lambert Validation of a Knowledge Transfer Tool for the Knee Inflammation MRI Scoring System for Bone Marrow Lesions According to the OMERACT Filter: Data from the Osteoarthritis Initiative.

RG, Bird P, Haugen IK, Jans L, Weber U, Winn N, Zubler V, Maksymowych WP. *J Rheumatol*. 2017 Nov;44(11):1718-1722. doi: 10.3899/jrheum.161102. Epub 2017 Apr 1.

Bird P, Nicholls D, Barrett R, de Jager J, Griffiths H, Roberts L, Tymms K, McCloud P, Littlejohn G; OPAL consortium.. Longitudinal study of clinical prognostic factors in patients with early rheumatoid arthritis: the PREDICT study. *Int J Rheum Dis*. 2017 Feb 16. doi: 10.1111/1756-185X.13036. [Epub ahead of print]

Consensus statements on the imaging of axial spondyloarthritis in Australia and New Zealand.

Truong SL, Saad NF, Robinson PC, Cowderoy G, Lim I, Schachna L, Stebbings S, Stuckey S, Taylor AL, Whittle SL, Zochling J, Bird P, Brown MA.

J Med Imaging Radiat Oncol. 2017 Feb;61(1):58-69. doi: 10.1111/1754-9485.12573. No abstract available.

Patient-reported outcomes from a randomised phase III study of baricitinib in patients with rheumatoid arthritis and an inadequate response to biological agents (RA-BEACON).

Smolen JS, Kremer JM, Gaich CL, DeLozier AM, Schlichting DE, Xie L, Stoykov I, Rooney T, Bird P, Sánchez Bursón JM, Genovese MC, Combe B.

Ann Rheum Dis. 2016 Oct 31. pii: annrheumdis-2016-209821. doi: 10.1136/annrheumdis-2016-209821. [Epub ahead of print]

Safety and efficacy of vertebroplasty for acute painful osteoporotic fractures (VAPOUR): a multicentre, randomised, double-blind, placebo-controlled trial.

Clark W, Bird P, Gonski P, Diamond TH, Smerdely P, McNeil HP, Schlaphoff G, Bryant C, Barnes E, Gebiski V.

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Apremilast, an oral phosphodiesterase 4 inhibitor, in patients with psoriatic arthritis and current skin involvement: a phase III, randomised, controlled trial (PALACE 3).

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Ann Rheum Dis. 2016 Jun;75(6):1065-73. doi: 10.1136/annrheumdis-2015-207963.

Validation of the OMERACT Psoriatic Arthritis Magnetic Resonance Imaging Score

(PsAMRIS) for the Hand and Foot in a Randomized Placebo-controlled Trial.
Glinatsi D, Bird P, Gandjbakhch F, Mease PJ, Bøyesen P, Peterfy CG, Conaghan PG, Østergaard M.
J Rheumatol. 2015 Dec;42(12):2473-9. doi: 10.3899/jrheum.141010.

Evaluation of Magnetic Resonance Imaging Responsiveness in Active Psoriatic Arthritis at Multiple Timepoints during the First 12 Weeks of Antitumor Necrosis Factor Therapy.
Feletar M, Hall S, Bird P.
J Rheumatol. 2016 Jan;43(1):75-80. doi: 10.3899/jrheum.150347.

The Longitudinal Reliability and Responsiveness of the OMERACT Hand Osteoarthritis Magnetic Resonance Imaging Scoring System (HOAMRIS).
Haugen IK, Eshed I, Gandjbakhch F, Foltz V, Østergaard M, Bøyesen P, Bird P, Genant HK, Peterfy CG, Conaghan PG.
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Patients with Rheumatoid Arthritis in the Australian OPAL Cohort Show Significant Improvement in Disease Activity over 5 Years: A Multicenter Observational Study.
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Secukinumab, a human anti-interleukin-17A monoclonal antibody, in patients with psoriatic arthritis (FUTURE 2): a randomised, double-blind, placebo-controlled, phase 3 trial.
McInnes IB, Mease PJ, Kirkham B, Kavanaugh A, Ritchlin CT, Rahman P, van der Heijde D, Landewé R, Conaghan PG, Gottlieb AB, Richards H, Pricop L, Ligozio G, Patekar M, Mpdfu S; FUTURE 2 Study Group.
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The OMERACT MRI in Arthritis Working Group - Update on Status and Future Research Priorities.
Østergaard M, Bird P, Gandjbakhch F, Eshed I, Haugen IK, Haavardsholm EA, Lillegraven

S, Foltz V, Glinatsi D, Peterfy C, Ejbjerg B, Bøyesen P, Mease PJ, Hermann KG, Emery P, Genant HK, Conaghan PG.
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How well do patients understand written instructions?: health literacy assessment in rural and urban rheumatology outpatients.

Wong PK, Christie L, Johnston J, Bowling A, Freeman D, Joshua F, Bird P, Chia K, Bagga H.

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Methotrexate in Rheumatoid Arthritis: Efficacy and Safety

Review. Bird P*, Griffiths H and Littlejohn G

Journal of Pharmacovigilance

Bird P, Griffiths H, Littlejohn G (2014) Methotrexate in Rheumatoid Arthritis: Efficacy and Safety. J Pharmacovigilance 2: 127. doi: 10.4172/2329-6887.1000127

Ultrasound versus high-field magnetic resonance imaging in rheumatoid arthritis.

Tan Y, Ostergaard M, Bird P, Conaghan P. *Clin Exp Rheumatol* 2014; 32 (Suppl. 80): S99-S105.

Determining a magnetic resonance imaging inflammatory activity acceptable state without subsequent radiographic progression in rheumatoid arthritis: results from a followup MRI study of 254 patients in clinical remission or low disease activity.

Gandjbakhch F, Haavardsholm EA, Conaghan PG, Ejbjerg B, Foltz V, Brown AK, Døhn UM, Lassere M, Freeston JE, Olsen IC, Bøyesen P, Bird P, Fautrel B, Hetland ML, Emery P, Bourgeois P, Hørslev-Petersen K, Kvien TK, McQueen FM, Ostergaard M.

J Rheumatol. 2014 Feb;41(2):398-406. doi: 10.3899/jrheum.131088. Epub 2013 Dec 15.

Update on the OMERACT Magnetic Resonance Imaging Task Force: Research and Future Directions.

Conaghan PG, McQueen FM, Bird P, Peterfy C, Haavardsholm E, Gandjbakhch F, Eshed I, Haugen IK, Lillegraven S, Døhn UM, Ejbjerg B, Foltz V, Coates L, Bøyesen P, Hermann KG, Freeston J, Lassere M, O'Connor P, Emery P, Genant H, Ostergaard M.

J Rheumatol. 2014 Feb;41(2):383-5. doi: 10.3899/jrheum.131085. Epub 2013 Dec 1.

Iterative Development and Reliability of the OMERACT Hand Osteoarthritis MRI Scoring System.

Haugen IK, Ostergaard M, Eshed I, McQueen FM, Bird P, Gandjbakhch F, Foltz V, Genant H, Peterfy C, Lillegraven S, Haavardsholm EA, Bøyesen P, Conaghan PG.

J Rheumatol. 2014 Feb;41(2):386-91. doi: 10.3899/jrheum.131086. Epub 2013 Dec 1.

The OMERACT-RAMRIS Rheumatoid Arthritis Magnetic Resonance Imaging Joint Space Narrowing Score: Intrareader and Interreader Reliability and Agreement with Computed Tomography and Conventional Radiography.

Døhn UM, Conaghan PG, Eshed I, Boonen A, Boyesen P, Peterfy CG, Lillegraven S, Ejbjerg B, Gandjbakhch F, Bird P, Foltz V, Genant HK, Haavardsholm E, McQueen FM, Ostergaard M.

J Rheumatol. 2014 Feb;41(2):392-7. doi: 10.3899/jrheum.131087. Epub 2013 Dec 1.

No overall damage progression despite persistent inflammation in adalimumab-treated psoriatic arthritis patients: results from an investigator-initiated 48-week comparative magnetic resonance imaging, computed tomography and radiography trial.

Poggenborg RP, Wiell C, Bøyesen P, Boonen A, Bird P, Pedersen SJ, Sørensen IJ, Madsen OR, Slot O, Møller JM, Hasselquist M, Kubassova O, Ostergaard M.

Rheumatology (Oxford). 2013 Dec 24. [Epub ahead of print]

Pattern of bone erosion and bone proliferation in psoriatic arthritis hands: a high-resolution computed tomography and radiography follow-up study during adalimumab therapy.

Poggenborg RP, Bird P, Boonen A, Wiell C, Pedersen SJ, Sørensen IJ, Madsen OR, Slot O, Møller JM, Bøyesen P, Hasselquist M, Østergaard M.

Scand J Rheumatol. 2014;43(3):202-8. doi: 10.3109/03009742.2013.835865. Epub 2013 Dec 19.

A multi-center, observational study shows high proportion of Australian rheumatoid arthritis patients have inadequate disease control.

Littlejohn G, Roberts L, Arnold M, Bird P, Burnet S, de Jager J, Griffiths H, Nicholls D, Scott J, Zochling J, Tymms KE.

Int J Rheum Dis. 2013 Oct;16(5):532-8. doi: 10.1111/1756-185X.12163.

PMID: 24164840 [PubMed - in process]

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Select item 23983001

Barriers to optimal disease control for rheumatoid arthritis patients with moderate and high disease activity.

Tymms K, Zochling J, Scott J, Bird P, Burnet S, de Jager J, Griffiths H, Nicholls D, Roberts L, Arnold M, Littlejohn G.

Arthritis Care Res (Hoboken). 2014 Feb;66(2):190-6. doi: 10.1002/acr.22108.

PMID: 23983001 [PubMed - in process]

Related citations

Select item 23322457

The SMILE study -- safety of methotrexate in combination with leflunomide in rheumatoid arthritis.

Bird P, Griffiths H, Tymms K, Nicholls D, Roberts L, Arnold M, Burnet S, de Jager J, Scott J, Zochling J, Littlejohn G.

J Rheumatol. 2013 Mar;40(3):228-35. doi: 10.3899/jrheum.120922. Epub 2013 Jan 15.

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Reliability and longitudinal validity of computer-assisted methods for measuring joint damage progression in subjects with rheumatoid arthritis.

Poh MQ, Lassere M, Bird P, Edmonds J.

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New Applications of imaging techniques for monitoring progression of rheumatoid arthritis and predicting outcome. Bird P and Joshua F

Imaging in Medicine 2011 3(1) : 107 -122.

Development and preliminary validation of a magnetic resonance imaging joint space narrowing score for use in rheumatoid arthritis: potential adjunct to the OMERACT RA MRI scoring system.

Ostergaard M, Bøyesen P, Eshed I, Gandjbakhch F, Lillegraven S, Bird P, Foltz V, Boonen A, Lassere M, Hermann KG, Anandarajah A, Døhn UM, Freeston J, Peterfy CG, Genant HK, Haavardsholm EA, McQueen FM, Conaghan PG.

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J Rheumatol. 2011 Sep;38(9):2034-8. doi: 10.3899/jrheum.110420.

PMID: 21885513 [PubMed - indexed for MEDLINE]

Related citations

Select item 21885512

Update on research and future directions of the OMERACT MRI inflammatory arthritis group.

Conaghan PG, McQueen FM, Bird P, Peterfy CG, Haavardsholm EA, Gandjbakhch F, Bøyesen P, Coates L, Ejbjerg B, Eshed I, Foltz V, Hermann KG, Freeston J, Lillegraven S, Lassere M, Wiell C, Anandarajah A, Duer-Jensen A, O'Connor P, Genant HK, Emery P, Ostergaard M.

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The OMERACT psoriatic arthritis magnetic resonance imaging scoring system (PsAMRIS): definitions of key pathologies, suggested MRI sequences, and preliminary scoring system for PsA Hands.

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Emery P, Genant H, Conaghan PG.
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PMID: 19671819 [PubMed - indexed for MEDLINE]
Related citations
Select item 19671818

Testing an OMERACT MRI scoring system for peripheral psoriatic arthritis in cross-sectional and longitudinal settings.
McQueen F, Lassere M, Duer-Jensen A, Wiell C, Conaghan PG, Gandjbakhch F, Hermann KG, Bird P, Bøyesen P, Peterfy C, Ejbjerg B, Haavardsholm EA, Coates L, Ostergaard M. J Rheumatol. 2009 Aug;36(8):1811-5. doi: 10.3899/jrheum.090351.
PMID: 19671818 [PubMed - indexed for MEDLINE]
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The OMERACT MRI inflammatory arthritis group: advances and future research priorities.
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Tendency towards erosive regression on magnetic resonance imaging at 12 months in rheumatoid arthritis patients treated with rituximab.
Døhn UM, Ostergaard M, Bird P, Boonen A, Johansen JS, Møller JM, Hansen MS. Ann Rheum Dis. 2009 Jun;68(6):1072-3. doi: 10.1136/ard.2008.098962. No abstract available.
PMID: 19435723 [PubMed - indexed for MEDLINE]
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The role of MRI in rheumatoid arthritis: research and clinical issues.

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Curr Opin Rheumatol. 2009 Mar;21(2):95-101. doi: 10.1097/BOR.0b013e32832498f0.

Review.

PMID: 19339918 [PubMed - indexed for MEDLINE]

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