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Scaphoid fractures: anatomy, diagnosis and treatment

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Scientific Output

Articles

Buijze GA, Weening AA, Poolman RW, Bhandari M, Ring D. Predictors of the accuracy of quotation of references in peer-reviewed orthopaedic literature in relation to publications on the scaphoid. *J Bone Joint Surg Br.* 2012;94(2):276-80.

Buijze GA, Wijffels MM, Guitton TG, Grewal R, van Dijk CN, Ring D; The Science of Variation Group. Interobserver Reliability of Computed Tomography to Diagnose Scaphoid Waist Fracture Union. *J Hand Surg Am.* 2012;37(2):250-254.

Buijze GA, Ochtman L, Ring D. Management of scaphoid nonunion. *J Hand Surg Am.* 2012;37(5):1095-100.

van Leeuwen DH, Buijze GA, Ring D. Ulnar to Radial Dorsal Fracture-Dislocations of the Wrist: A Report of 2 Cases. *J Hand Surg Am.* 2012;37(3):500-502.

Buijze GA, Guitton TG, van Dijk CN, Ring D; The Science of Variation Group. Training Improves Interobserver Reliability for the Diagnosis of Scaphoid Fracture Displacement. *Clin Orthop Relat Res.* 2012 Jan 31. [Epub ahead of print]

Buijze GA, Mallee WH, Beeres FJ, Hanson TE, Johnson WO, Ring D. Diagnostic performance tests for suspected scaphoid fractures differ with conventional and latent class analysis. *Clin Orthop Relat Res.* 2011;469(12):3400-7.

Kloen P, Buijze GA, Ring D. Management of forearm nonunions: current concepts. *Strategies Trauma Limb Reconstr.* 2012;7(1):1-11.

Buijze GA, Lozano-Calderon SA, Strackee SD, Blankevoort L, Jupiter JB. Osseous and Ligamentous Scaphoid Anatomy: Part I. A Systematic Literature Review Highlighting Controversies. *J Hand Surg Am.* 2011;36(12):1926-35.

Buijze GA, Dvinskikh NA, Strackee SD, Streekstra GJ, Blankevoort L. Osseous and Ligamentous Scaphoid Anatomy: Part II. Evaluation of Ligament Morphology Using Three-Dimensional Anatomical Imaging. *J Hand Surg Am.* 2011;36(12):1936-43.

Buijze GA, Poolman RW. Het belang van systematische reviews en meta-analyses. *Onze Lieve Wetenschap.* 2011;4(2):14-15.

Doornberg JN, Buijze GA, Ham SJ, Ring D, Bhandari M, Poolman RW. Non-operative Treatment for Acute Scaphoid Fractures: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. *J Trauma.* 2011;71(4):1073-81.

Souer JS, Buijze G, Ring D. A prospective randomized controlled trial comparing occupational therapy with independent exercises after volar plate fixation of a fracture of the distal part of the radius. *J Bone Joint Surg Am.* 2011;93(19):1761-6.

Buijze GA, Mudgal CS. Nondisplaced Fractures of the Proximal Carpal Row-Case Report. *J Hand Surg Am.* 2011;36(8):1310-2.

Buijze GA, Richardson S, Jupiter JB. Successful Reconstruction for Complex Mal and Nonunions of the Tibia and Femur. *J Bone Joint Surg Am.* 2011;93:485-492.

Leong NL, Buijze GA, Fu EC, Stockmans F, Jupiter JB, DiRaM Collaborative. Computer-Assisted versus Non-Computer-Assisted Preoperative Planning of Corrective Osteotomy for Extra-Articular Distal Radius Malunions: A Randomized Controlled Trial. *BMC Musculoskelet Disord.* 2010;11:282.

Buijze GA, Hanson TE, Johnson WO, Ring D. Latent Class Analysis to Determine the Accuracy of Diagnostic Tests in Orthopaedics. *Orthop J Harvard Med School.* 2010;12(1):106-108.

Buijze GA, Richardson S, Jupiter JB. Reconstructive Surgery for Complications after Lower Limb Trauma. *Orthop J Harvard Med School.* 2010;12(1):81-87.

Buijze GA, Jupiter, JB. Impact after plate fixation of distal radius fracture of a concomitant unrepaired ulnar styloid fracture versus no ulnar fracture: Clinical Note. *Orthop Trauma Directions.* 2010;8(4):19-20.

Buijze GA, Doornberg JN, Ham JS, Ring D, Bhandari M, Poolman RW. Surgical Compared with Conservative Treatment for Acute Nondisplaced or Minimally Displaced Scaphoid Fractures: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. *J Bone Joint Surg Am.* 2010;92(6):1534-1544.

Kloen P, Wiggers J, Buijze GA. Treatment of Diaphyseal Fracture Nonunion of the Ulna and Radius. *Arch Orthop Trauma Surg.* 2010;130(12):1439-45.

Buijze GA, Blankevoort L, Tuijthof GJ, Sierevelt IN, Kloen P. Biomechanical evaluation of fixation of comminuted olecranon fractures: one-third tubular versus locking compression plating. *Arch Orthop Trauma Surg.* 2010;130(4):459-64.

Buijze GA, Ring D. Clinical impact of united vs. ununited Fractures of the proximal half of the ulnar styloid following volar plate fixation of the distal radius. *J Hand Surg Am.* 2010;35(2):223-7.

Kloen P, Buijze GA. Treatment of complex olecranon or proximal ulna fractures by dorsal plating. *Oper Orthop Traumatol.* 2009;21(6):571-85.

Buijze G, Kloen P. Clinical evaluation of locking compression plate fixation for comminuted olecranon fractures. *J Bone Joint Surg Am.* 2009;91(10):2416-20.

Buijze GA, Snoep AWH, Brevoord J. Serogroup C Meningococcal Osteomyelitis: A Case Report and Review of the Literature. *Pediatr Infect Dis J.* 2009;28(10):929-930.

Buijze GA, Kok P, Botha-Scheepers SA, Smith SJ, Sleeboom HP. Fungal disease of the Western hemisphere: a patient with coccidioidomycosis. *Eur J Intern Med.* 2009;20(3):319-322.

Lindenhovius ALC, Buijze GA, Kloen P, Ring D. Correspondence between self-rated disability and objective physical impairment after elbow trauma. *J Bone Joint Surg Am.* 2008;90(10):2090-7.

Buijze GA, Keereweer S, Jennings GJ, Vorster W, de Beer JF. Musculotendinous transfer as a treatment option for irreparable posterolateral rotator cuff tears. Teres major or latissimus dorsi? *Clin Anat.* 2007;20(8):919-23.

Jennings GJ, Keereweer S, Buijze GA, de Beer J, Du Toit D. Transfer of segmentally split pectoralis major for the treatment of irreparable rupture of the subscapularis tendon. *J Shoulder Elbow Surg.* 2007;16(6):837-42.

Buijze GA, Maas M, Kloen P. Fixatie van complexe olecranonfracturen met de Locking Compression Plate. *Ned Tijdschr Traumatologie.* 2007;15(2):50-53.

Buijze GA, Phan C, Ring D, Souer JS, Gupta R. Application of High-Resolution Volumetric Computed Tomography in Hand Surgery. *Hand (NY)*, invited review.

Ochtman AEA, Guitton TG, Buijze GA, Zurakowski D, Mudgal C, Jupiter JB, Ring D. Trapeziometacarpal Arthritis: Predictors of a Second Visit and Surgery. Submitted.

Buijze GA, Pool LD, De Lange S, Thomassen BJW. Mid-Term Results After Revision Total Knee Arthroplasty. Submitted.

Koenis MMJ, Buijze GA, Ring D. Risk factors for surgical site infections after elective spine surgery. Submitted.

Van Leeuwen DH, Buijze GA, Doornberg JN, Marti RK, Kloen P, Jupiter JB. Corrective Osteotomy for Distal Humerus Malunion or Nonunion with Angulation. Submitted.

Buijze GA, Goslings JC, Rhemrev SJ, Weening AA, Van Dijkman B, Doornberg JN, Ring D, CAST Trial Collaboration. Cast Immobilization with and without Immobilization of the Thumb for Nondisplaced Scaphoid Waist Fractures: A Multi-Center Randomized Controlled Trial. *J Bone Joint Surg Am.*, in revision.

Buijze GA, Prommersberger K, Gonzalez-Del Pino J, Fernandez D, Jupiter JB. Corrective Osteotomy for Combined Intra- and Extra-articular Malunion of the Distal Radius. *J Hand Surg Am.*, in revision.

Ootes D, Buijze GA, Ring D. Predictors of Missed Appointments in Prospective Hand Surgery Research. *Hand (NY)*, in press.

Duckworth AD, Buijze GA, Aitken SA, Moran M, Gray A, Court-Brown CM, Ring D, McQueen MM. Predictors of fracture following suspected injury to the scaphoid. *J Bone Joint Surg Br.*, in press.

Buijze GA, Jørgsholm P, Thomsen NO, Björkman A, Besjakov J, Ring D. Factors associated with arthroscopically determined scaphoid fracture displacement and instability. *J Hand Surg Am.*, in press.

Buijze GA, Ring D. Scaphoid Nonunion: A Review of Diagnosis and Treatment. *Eur Muskuloskel Rev.*, in press.

Buijze GA, Jørgsholm P, Thomsen NO, Björkman A, Besjakov J, Ring D. The Diagnostic Performance Characteristics of Radiography for Diagnosis of Displacement and Instability of an Acute Scaphoid Waist Fracture. *J Bone Joint Surg Am.*, in press.

Book Chapter

Buijze GA, Doornberg JN, Ring D. Perilunate Dislocations. In: Bhandari M, editor. *Evidence Based Orthopedics*. Oxford: Wiley-Blackwell. 2011:437-442.

Meeting Presentations

Papers

Buijze GA, Goslings JC, Rhemrev SJ, Weening AA, Van Dijkman B, Doornberg JN, Ring D, CAST Trial Collaboration. Cast Immobilization with and without Immobilization of the Thumb for Nondisplaced Scaphoid Waist Fractures: A Multi-Center Randomized Controlled Trial.

American Society for Surgery of the Hand 2012, Annual Meeting, Chicago, USA
Orthopaedic Trauma Association 2012, Annual Meeting, Minneapolis, USA

Buijze GA, Jørgsholm P, Thomsen NO, Björkman A, Besjakov J, Ring D. Diagnosis of Displacement and Instability of an Acute Scaphoid Waist Fracture.

American Academy of Orthopedic Surgeons 2012 Annual Meeting, San Francisco, USA

Duckworth AD, Buijze GA, Aitken SA, Moran M, Gray A, Court-Brown CM, Ring D, McQueen MM. Predictors of fracture following suspected injury to the scaphoid.

Orthopaedic Trauma Association 2011, Annual Meeting, San Antonio, USA

Souer JS, Buijze GA, Ring D. A Prospective Randomized Controlled Trial Comparing Occupational Therapy with Independent Exercises After Volar Plate Fixation of a Fracture of the Distal Radius

American Society for Surgery of the Hand 2011 Annual Meeting, Las Vegas, USA

Orthopaedic Trauma Association 2011, Annual Meeting, San Antonio, USA

Nederlandse Orthopaedische Vereniging Jaarvergadering 2011, Groningen, The Netherlands

Buijze GA, Mallee WH, Beeres FJP, Rhemrev SJ, Hanson TE, Johnson WE, Van Dijk CN, Ring D. Latent Class Analysis to Determine the Accuracy of Diagnostic Tests for Suspected Scaphoid Fractures

11th Triennial Congress of the International Federation of Societies for Surgery of the Hand 2010, Seoul, South Korea

Buijze GA, Richardson S, Jupiter JB. Long-Term Outcome Following Reconstructive Surgery for Complex Post-Traumatic Lower Extremity Complications

AO North America "Challenges in Fracture Care Across Disciplines" meeting 2010, Phoenix, USA

Buijze GA, Van Dijk CN, Ring D. The Effect of Training on Inter-Observer Reliability for the Diagnosis of Scaphoid Fracture Displacement

American Society for Surgery of the Hand 2010 Annual Meeting, Residents and Fellows Conference, Boston, USA

Buijze GA, Prommersberger K, Gonzalez-Del Pino J, Fernandez D, Jupiter JB. Corrective Osteotomy for Combined Intra- and Extra-articular Malunion of the Distal Radius

Israel Society for Surgery of the Hand 2010 Annual Meeting, Jerusalem, Israel

11th Triennial Congress of the International Federation of Societies for Surgery of the Hand 2010, Seoul, South Korea

AO North America "Challenges in Fracture Care Across Disciplines" meeting 2010, Phoenix, USA

American Society for Surgery of the Hand 2010 Annual Meeting, Residents and Fellows Conference, Boston, USA

New England Hand Society 2010 Annual Meeting, Sturbridge, USA

21st Annual Richard J. Smith Residents/Fellows Conference 2010, Harvard Orthopedics, Boston, USA

Annual International Wrist Investigators Workshop 2010, Boston, USA

Buijze GA, Ring D. Nonunion of an Ulnar Styloid Base Fracture after Volar Plate Fixation of a Fracture of the Distal Radius

American Academy of Orthopedic Surgeons 2010 Annual Meeting, New Orleans, USA

American Society for Surgery of the Hand 2009 Annual Meeting, Residents and Fellows Conference, San Francisco, USA

Buijze GA, Ring D. Clinical Impact of United vs. Ununited Fractures of the Proximal Half of the Ulnar Styloid following Volar Plate Fixation of the Distal Radius

New England Hand Society 2009 Annual Meeting, Sturbridge, USA

Buijze GA, Doornberg JN, Ham JS, Ring D, Bhandari M, Poolman RW. Surgical versus Conservative Treatment for Acute Scaphoid Fractures: A Systematic Review and Meta-Analysis of Comparative Clinical Trials.

European Federation of National Associations of Orthopaedics and Traumatology Congress 2010, Madrid, Spain

American Society for Surgery of the Hand 2009 Annual Meeting, San Francisco, USA

Nederlandse Orthopaedische Vereniging Najaarsvergadering 2009, Veldhoven, The Netherlands

20th Annual Richard J. Smith Residents/Fellows Conference 2009, Harvard Orthopedics, Boston, USA

Lindhovius ALC, Buijze GA, Kloen P, Ring D. Correspondence between self-rated disability and objective physical impairment after elbow trauma.

Nordic Orthopaedic Federation 2008 Annual Meeting, Amsterdam, The Netherlands

Orthopaedic Trauma Association 2007 Annual Meeting, Boston, USA

Posters

Buijze GA, Jørgsholm P, Thomsen NO, Björkman A, Besjakov J, Ring D. Röntgenfoto's versus CT voor de Diagnostiek van Dislocatie en Instabiliteit van Scafoïdfrakturen.

Traumadagen 2011, Amsterdam, The Netherlands

Buijze GA, Weening AA, Poolman RW, Bhandari M, Ring D. Predictors of Reference Quotation Inaccuracy in Peer-Reviewed Orthopedic Literature Related to the Scaphoid

American Society for Surgery of the Hand 2011 Annual Meeting, Las Vegas, USA

Buijze GA, Jørgsholm P, Thomsen NO, Björkman A, Ring D. Is Radiographic Displacement of an Acute Scaphoid Waist Fracture an Accurate Measure to Diagnose Intra-Operative Displacement and Instability?

American Society for Surgery of the Hand 2011 Annual Meeting, Las Vegas, USA

Buijze GA, Mallee WH, Beeres FJP, Rhemrev SJ, Hanson TE, Johnson WE, Van Dijk CN, Ring D. Latent Class Analysis to Determine the Accuracy of Diagnostic Tests for Suspected Scaphoid Fractures

Orthopaedic Trauma Association 2010 Annual Meeting, Baltimore, USA

American Society for Surgery of the Hand 2010 Annual Meeting, Residents and Fellows Conference, Boston, USA

Buijze GA, Prommersberger K, Gonzalez-Del Pino J, Fernandez D, Jupiter JB. Corrective Osteotomy for Combined Intra- and Extra-articular Malunion of the Distal Radius

Orthopaedic Trauma Association 2012, Annual Meeting, Minneapolis, USA

American Association for Hand Surgery 2011 Annual Meeting, Cancun, Mexico

American Society for Surgery of the Hand 2010 Annual Meeting, Boston, USA

Buijze GA, Richardson S, Jupiter JB. Long-Term Outcome Following Reconstructive Surgery for Complex Post-Traumatic Lower Extremity Complications.

MGH Clinical Research Day 2010, Boston, USA

Buijze GA, Blankevoort L, Kloen P. Clinical and biomechanical evaluation of locking compression plate fixation in comminuted olecranon fractures.

European Orthopaedic Research Society 2008 Annual Meeting, Madrid, Spain

Nordic Orthopaedic Federation 2008 Annual Meeting, Amsterdam, The Netherlands

Buijze GA, Blankevoort L, Kloen P. Biomechanische en klinische evaluatie van Locking Compression Plate fixatie van complexe olecranonfracturen.

Symposium Experimenteel Onderzoek Heelkundige Specialismen 2007, Leiden, The Netherlands

Buijze GA., Kloen P. Analysis of diaphyseal nonunions of the forearm.

Nordic Orthopaedic Federation 2008 Annual Meeting, Amsterdam, The Netherlands

American Academy of Orthopaedic Surgeons 2007 Annual Meeting, San Diego, USA

Vorster W, Keereweer S, Buijze GA, Jennings GJ, de Beer JF. Musculotendinous transfer as a treatment option for irreparable rotator cuff tears. Segmental splitting of the pectoralis major tendon.

British Association of Clinical Anatomists 2006 Summer Meeting, Staffordshire, UK