

Ortho Search

Why And How We Built a Domain-based Subject Gateway

Michael Upshall, ISKO Annual Conference, 25 July 2023

Academic content discovery

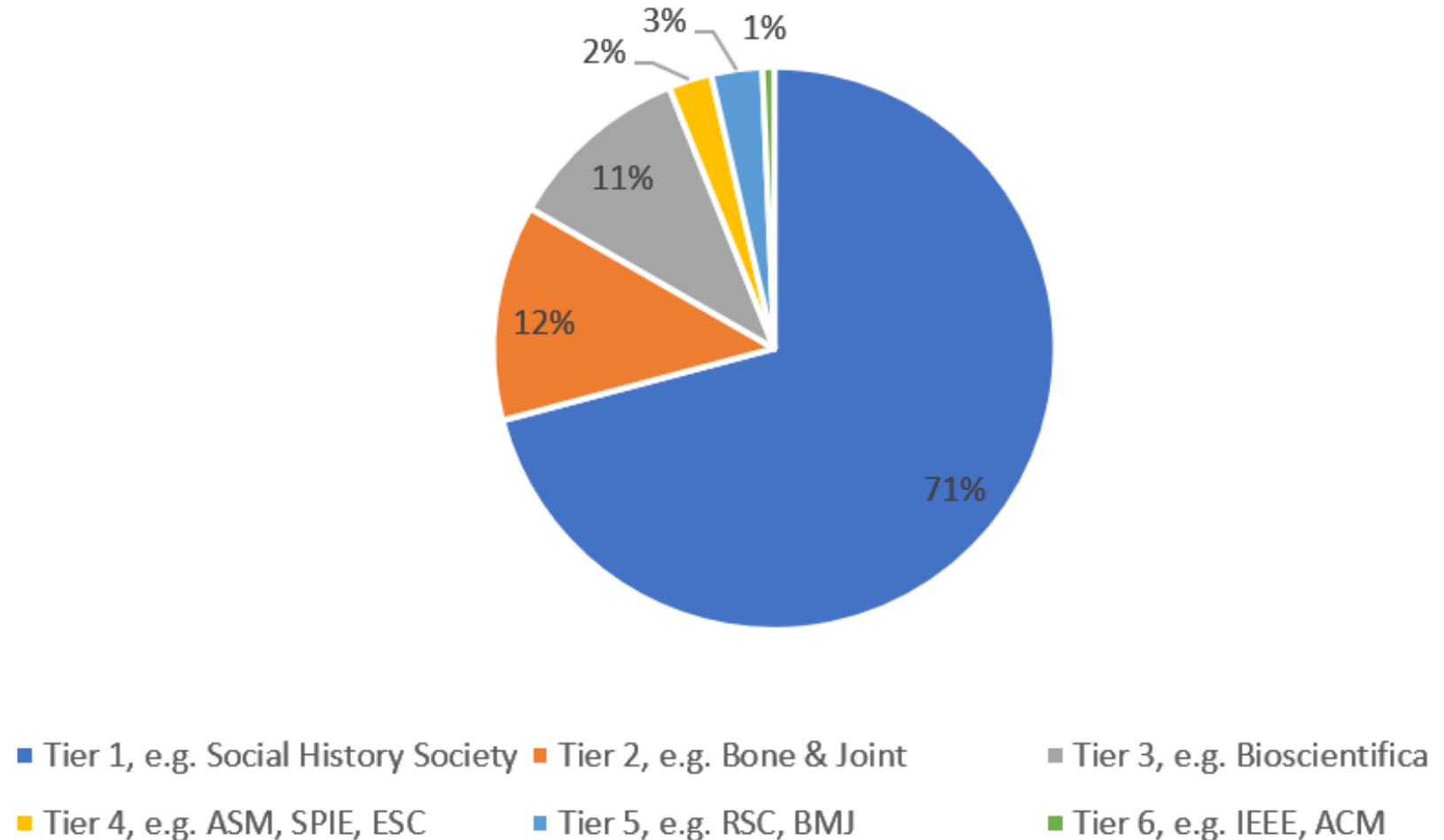
- Academic publishers and societies typically use a third-party platform for their content hosting and discovery
- The content universe is divided across many repositories – hundreds of publishers, societies, aggregators
- Most researchers start discovery via all-purpose, one-size fits all aggregations such as Scopus or Google Scholar

Scholarly Publishing

- Highly concentrated: 16 publishers have over 50% of the total market. One publisher (Wiley) publishes more than 50% of all society content
- Concentrated platform providers: academic societies tend to outsource content hosting to third parties (Silverchair, Atypion, Oxford, Cambridge)

The long tail of scholarly publishing

Most societies have fewer than four journals



Problems with third-party hosting

- Moving to another platform host is messy and expensive
- Little incentive for the platform provider to make changes
- Societies often request cosmetic rather than fundamental change

Problems with discovery

“I confess that I have given up searching databases and preprint servers. There is just too much content published and no easy way to find things that are both high quality and relevant, even using keywords”.

Archer V, Jones OAH, Sands D, et al. How can academics keep up with the literature? *Times Higher Education* (THE) 2019

The British Editorial Society of Bone and Joint Surgery

- Not-for-profit, founded 1953 “for the advancement of education in orthopaedic surgery”
- Four journals, one conference proceedings publication



Orthopedics

- Over 36 scholarly journals in this domain alone
-

Journal of the American Academy ...	Journal of Orthopaedic Surgery an...	Journal of Orthopaedic Trauma
Journal of Orthopaedic Research	Orthopedics	The American Journal of Sports Me...
Journal of Bone and Joint Surgery	Journal of Orthopaedic Science	Clinical Orthopaedics and Related ...
Spine	Geriatric Orthopaedic Surgery & R...	The Bone & Joint Journal
European Spine Journal	Knee Surgery, Sports Traumatology,...	EFORT Open Reviews
The Journal of Trauma and Acute C...	Archives of Orthopaedic and Trau...	Bone & Joint Research
Journal of Pediatric Orthopaedics B	The Spine Journal	Journal of Shoulder and Elbow Surg...
Acta Orthopaedica et Traumatologi...	Journal of Orthopaedic & Sports P...	Journal of Hand Surgery (American...
Research in Sports Medicine	Journal of Science and Medicine in ...	Medicine & Science in Sports & Exe...
Exercise and Sport Sciences Reviews	British Journal of Sports Medicine	Sports Health
Arthroscopy	Osteoarthritis and Cartilage	The Journal of Pediatrics
Scoliosis and Spinal Disorders	Skeletal Radiology	Calcified Tissue International
The Journal of Strength and Conditl...	Journal of Cachexia, Sarcopenia an...	The Physician and Sportsmedicine
Osteoporosis International	World Journal of Surgery	Journal of Neurosurgery-Spine

Can a small publisher influence the domain?

- Researchers will not use one publisher as a starting point
- Changing platform is slow and expensive
- The biggest subject-based content initiative is PubMed, but medicine is bigger than most domains
- Challenging to use domain knowledge with big platforms

David vs Goliath?



Plate from Constantinople, c629 BCE (photo: MU)

OrthoSearch

<https://orthosearch.org.uk/Home>

- Include all ortho content
- Omit other medical content
- E.g. 19,693 ortho-related articles from 269,144 articles in PLoS One
- Free access
- Content updated weekly

Content indexed

- 183 Journals
- 20,069 taxonomy terms (6773 synonyms)
- 299,128 articles, including preprints
- 36,233 conference abstracts
- 3259 podcasts
- 2000 videos
- 384 related standards
- 263 case studies

Subjects indexed

Covers:

- Anatomy
- Diseases
- Treatment
- Trauma
- Diagnostic techniques
- Medical specialists
- Orthopaedic drugs
- Sports medicine
- Devices

Benefits of this approach

- Use an external supplier (Molecular Connections): self-contained modules added in blocks
- Automated subject selection and tagging
- Sidestep the hosting platform
- Incorporate semantic developments in search and discovery
- Do for one domain what would not be feasible for all subjects
- Make use of in-house knowledge (such as the taxonomy)
- Use analytics to inform discovery tools

Combining full-text and semantic search

- Automatic concept extraction into specialties (including synonyms)
- “did you mean?”, British English (“orthopaedic”) or American English (“orthopedic”)
- Synonyms used to expand searches (common <> technical terms)
- Incorporating a 20,000-term taxonomy in search results – far more granular than MeSH

The Ortho Search Ontology

Built by Molecular Connections with human-in-loop. Twelve root concepts, 15 specialties, including:

- Anatomy
- Diseases
- Treatment
- Trauma
- Diagnostic techniques
- Medical specialists
- Orthopaedic drugs
- Sports medicine
- Devices

- Filter by article type, access type, impact factor, open-access, CiteScore ...

Filters

Access type

clear x

☐ Open access (605)

Specialty

clear x

- ☐ Trauma (1713)
- ☐ Basic science (1233)
- ☐ Hip (1102)
- ☐ Arthroplasty (754)
- ☐ Sports medicine (134)
- ☐ Knee (56)
- ☐ Children's orthopaedics (40)
- ☐ Spine (24)
- ☐ Oncology (13)
- ☐ Elbow (3)
- ☐ Shoulder (3)
- ☐ Ankle (2)

Article Type

clear x

☐ Clinical trial (416)

Impact factor



All Results

Articles

Preprints

Podcasts

Stand



Back

Cite

Total Results: 1892

Sort by:

Relevance

Most Recent

Relevance


Open access

CiteScore asc

CiteScore desc

☐ Cite all

☐ Effect analysis of medial by surgical hip dislocation:

combined with cannulated study. 

Author(s): Xin Sun, Gang Yi, Liang Ao, Xin Zhou, Tao Zhang, Tai-Yuan Guan

2023-07-14, Journal of orthopaedic surgery and research (CiteScore: 4.2), PMID:3745237

Keyword(s): Surgical hip dislocation, Femoral neck fractures, Cannulated screw, Cannulate Intra-operative blood loss, Intraoperative bleeding

Abstract 

Similar Articles 

☐ CORR Insights®: Assessing Leg Length Discrepancy Is Necessary I Crowe Type IV Hip Dislocation.

Author(s): Kathieen A McHale

2023-07-12, Clinical orthopaedics and related research (CiteScore: 5.6), PMID:37436083,

Keyword(s): Leg length discrepancy, Hip dislocations, Arthroplasty

Similar Articles 

☐ Surgeon Accuracy in Prediction of Stability of Posterior Wall Acet: Trauma Surgeons.

Author(s): Lohith Vatti, Theodore Schoenfeldt, Carlo Eikani, Brooke Dickens, Joseph Coher

2023-07-01, Journal of orthopaedic trauma (CiteScore: 4.2), PMID:36862988, DOI: 10.109

Keyword(s): Acetabular fractures, Orthopaedic trauma-trained surgeons, Trauma surgeons Anesthesia procedures, Computed tomography

Abstract 

Similar Articles 

Common terms link to technical terms

Home > Search

Enter your query to find articles, authors, podcasts and more

MRI for back pain

Advanced Search Reset

Showing results for: MRI for back pain

All Results Articles Preprints Podcasts Standards Videos Techniques Case Catalogue

Back Cite

Total Results: 1071 Sort by: Relevance Display results per page: 10

☐ Cite all

☐ Innovative quantitative magnetic resonance tools to detect early intervertebral disc degeneration changes: a systematic review.

Author(s): Fabrizio Russo, Luca Ambrosio, Eugenio Giannarelli, Ferruccio Vorini, Carlo A Mallio, Carlo C Quattrocchi, Gianluca Vadalà, Rocco Papalia, Vincenzo Denaro
2023-05-27, The spine journal : official journal of the North American Spine Society (CiteScore: 6.9), PMID:37247638, DOI: 10.1016/j.spinee.2023.05.011

Keyword(s): Degenerative disc disease, Quantitative magnetic resonance imaging, Magnetic resonance imaging, Intervertebral disc, Cochrane database, Glycosaminoglycans, Conventional magnetic resonance imaging, Low back pain, Proteoglycan, Biomarkers

Abstract

Similar Articles

☐ Investigation of Vitamin D Levels and the Effects of Being an Agricultural Worker on Etiology and Night Pain in Children and Adolescents With Chronic Low Back Pain.

Author(s): Banş Erdoğan, Bilgehan Kolutek Ay
2023-03-01, Cureus, PMID:36968676, DOI: 10.7759/cureus.36601

Keyword(s): Chronic low back pain, Vitamin D, Aetiology, Low back pain, Vitamin D deficiency, Body mass index, Magnetic resonance imaging, Computed tomography, Mechanical low back pain, Physical examination test

Abstract

Similar Articles

☐ Modic changes as seen on MRI are associated with nonspecific chronic lower back pain and disability.

Author(s): Lloyd G Czaplewski, Otis Rimmer, Duncan McHale, Mark Laslett
2023-05-12, Journal of orthopaedic surgery and research (CiteScore: 3.2), PMID:37170132, DOI: 10.1186/s13018-023-03839-w

Keyword(s): Chronic low back pain, Magnetic resonance imaging, Randomized controlled trials, Ablation therapies, Nerve, Low back pain, Oedema, Clinical tests

Abstract

Similar Articles

Filters:

Access type

Open access (459)

Specialty

Basic science (1070)

Spine (445)

Trauma (134)

Sports medicine (91)

Oncology (24)

Arthroplasty (13)

Hip (10)

Knee (6)

Children's orthopaedics (5)

Shoulder (5)

Ankle (2)

Elbow (1)

Article Type

Clinical trial (174)

Common terms link to technical terms

Home > Search

Enter your query to find articles, authors, podcasts and more

hip replacement

Advanced Search Reset

Showing results for: hip replacement

All Results Articles Preprints Podcasts Standards Videos Techniques Cases

Back Cite

Total Results: 17262 Sort by: Relevance Display results per page: 10

☐ Cite all

☐ Ambulatory status after revision total hip arthroplasty in elective versus fracture indications.

Author(s): Christian T Oakley, Elizabeth R Stiles, Emily M Ronan, Ittai Shichman, Joshua C Rozell, Ran Schwarzkopf

2023-07-05, Archives of orthopaedic and trauma surgery (CiteScore: 4.5), PMID:37405463, DOI: 10.1007/s00402-023-04965-0

Keyword(s): Revision total hip arthroplasty, Periprosthetic fractures, Acetabular fractures, Measures, scales and indices in orthopaedics, Acute rehabilitation, Functional outcome score, Prognosis, Other infections, Walkers

Abstract Similar Articles

☐ The influence of biological DMARDs on aseptic arthroplasty loosening-a retrospective cohort study.

Author(s): Markus M Schreiner, Jennifer Straub, Sebastian Apprich, Kevin Staats, Reinhard Windhager, Daniel Aletaha, Christoph Böhler

2023-07-04, Rheumatology (Oxford, England) (CiteScore: 8.2), PMID:37402609, DOI: 10.1093/rheumatology/kead304

Keyword(s): Arthroplasty, Retrospective cohort study, Total knee arthroplasty, Aseptic loosening, Cox regression, Knee, Hip, Total joint arthroplasty, Total hip arthroplasty, Rheumatoid arthritis

Abstract Similar Articles

Filters

Access type clear x

☐ Open access (5183)

Specialty clear x

☐ Arthroplasty (17183)

☐ Basic science (11019)

☐ Hip (6423)

☐ Trauma (4472)

☐ Knee (1195)

☐ Sports medicine (711)

☐ Spine (209)

☐ Oncology (93)

Arthroplasty

Explore

Arthroplasty is an orthopaedic surgical procedure where the articular surface of a musculoskeletal joint is replaced, remodelled, or realigned by osteotomy or some other

Feedback

Identifying symptoms

Home > Search

Enter your query to find articles, authors, podcasts and more

abdominal bloating

Did you mean: [abdominal blocking](#) [abdominal boosting](#)

Showing results for: abdominal bloating

< All Results Articles Preprints Podcasts Standards Videos Techniques Case Catalogue >

Back Cite

Total Results: 12 Sort by: Relevance Display results per page: 10

☐ Cite all

☐ Occurrence and Impacts of Gastrointestinal Symptoms in Team-Sport Athletes: A Preliminary Survey.

Author(s): Patrick B Wilson, Robert Fearn, Jamie Pugh
2022-12-07, Clinical journal of sport medicine : official journal of the Canadian Academy of Sport Medicine (CiteScore: 4.8), PMID:36476634, DOI: 10.1097/JSM.0000000000001113
Keyword(s): Gastrointestinal symptoms, Anxiety, Body mass index
Abstract
Similar Articles

☐ Sclerosing Mesenteritis: A Rare Cause of Abdominal Pain.

Author(s): Said Sharawi, Vincent Graffeo, Lynne J Goebel
2022-08-01, Cureus, PMID:36185930, DOI: 10.7759/cureus.28573
Keyword(s): Abdominal pain, Computed tomography, Biopsy, Clinicians, Lymphoma, Melanoma, Lesions, Clinical manifestations, Prostate cancer, Fibromyalgia
Abstract
Similar Articles

☐ Iatrogenic Parasitic Leiomyomas: A Late and Uncommon Complication After Laparoscopic Morcellation.

Author(s): Harrypal Panesar, Harjit S Dhaliwal
2022-05-01, Cureus, PMID:35676984, DOI: 10.7759/cureus.24718
Keyword(s): Leiomyomas, Pelvic mass, Computed tomography, Abdominal pain, Myxomatous Tumor, Bladder

Filters:

Access type clear x

☐ Open access (10)

Specialty clear x

☐ Basic science (6)
☐ Oncology (2)
☐ Trauma (2)
☐ Shoulder (1)
☐ Sports medicine (1)

Article Type clear x

No results found

Impact factor clear x

Taxonomy links displayed with search results

Home > Search

Enter your query to find articles, authors, podcasts and more

osteoporosis

Advanced Search Reset

Showing results for: osteoporosis

All Results Articles Preprints Podcasts Standards Videos Techniques Case

Back Cite

Total Results: 8047 Sort by: Relevance Display results per page: 10

Filters:

Access type clear x

☐ Open access (3127)

Specialty clear x

☐ Basic science (5439)

☐ Trauma (3555)

☐ Spine (1020)

☐ Hip (1009)

☐ Arthroplasty (391)

☐ Sports medicine (166)

☐ Oncology (139)

☐ Knee (91)

☐ Hand (67)

☐ Cite all

☐ **Neuropsychiatric adverse reactions in patients treated with denosumab: two case reports and a review of data from the FDA Adverse Event Reporting System (FAERS).**

Author(s): Ángel Oteo-Álvarez, Carlos Goicoechea García, Alejandra Inocencio Sánchez, Cario Alemany Santamaria, Javier de Diego-Adeliño

2023-07-05, Osteoporosis international : a journal established as result of cooperation between the European Foundation for Osteoporosis and the National Osteoporosis Foundation of the USA (CiteScore: 7.6), PMID:37405407, DOI: 10.1007/s00198-023-06838-z

Keyword(s): Denosumab, Monoclonal antibodies, Mild cognitive impairment, Healthcare professionals, Nervous system diseases, Cognitive impairment, Calcium phosphate, Bone resorption, Osteoporosis, Osteoclast

Abstract Similar Articles

☐ **Investigating the impact of a national educational program on patient adherence to osteoporosis medications.**

Author(s): Thu Vuong, Matthew Peters, Alistair Merrifield, Marnie Firipis, Josephine Belcher, Zain Elgebaly

2023-07-05, Archives of osteoporosis (CiteScore: 3.6), PMID:37405619, DOI: 10.1007/s11657-023-01301-2

Keyword(s): Osteoporosis, Bisphosphonate, Denosumab, General practitioner

Abstract Similar Articles

Osteoporosis

Explore

Medical Specialty

Related Topics

Secondary osteoporosis (116)

Hypothyroidism (158)

Periprosthetic bone loss (47)

Feedback

Taxonomy drill down available with search results

ion < > Specialties > Foot and ankle compartment syndrome

Compartment syndrome

Showing results under "Compartment syndrome"

Enter your search query...

Advanced Search Reset

Back Cite

Total Results: 1075 Sort by: Relevance Display results per page: 10

☐ Cite all

☐ Isolated medial foot compartment syndrome after ankle sprain.

Author(s): Josep Cortina, Carles Amat, Jordi Selga, Pablo Salvador Corona
2014-03-01, Foot and ankle surgery : official journal of the European Society of Foot and Ankle Surgeons (CiteScore: 4.3), PMID:24480507, DOI: 10.1016/j.fas.2013.08.006

Keyword(s): Foot compartment syndrome, Ankle sprains, Vascular injuries, Compartment syndrome, Exertional compartment syndrome, Acute compartment syndrome, Deltoid ligament, Crash injuries, Crush injury, Fasciotomy

Abstract Similar Articles

☐ A Case Report of Acute Exertional Compartment Syndrome with Peroneal Nerve Palsy in an Adolescent Athlete.

Author(s): Andrew Jimenez, Barton R Branam, Kimberly A Hasselfeld, Kathryn A Hasselfeld
2019-01-01, Journal of orthopaedic case reports, PMID:32547967, DOI: 10.13107/jocr.2019.v10.i01.1610

Keyword(s): Exertional compartment syndrome, Peroneal nerve palsy, Peroneal nerve, Chronic exertional compartment syndrome, Acute compartment syndrome, Compartment syndrome, Fasciotomy, Neurolysis

Abstract Similar Articles

☐ Endoscopic-assisted Fascial Decompression for Forearm Exertional Compartment Syndrome: A Case Report and Review of the Literature.

Author(s): John Hijawi, Daniel J Nagle
2010-12-01, Hand (New York, N.Y.) (CiteScore: 2.9), PMID:22131927, DOI: 10.1007/s11552-010-9261-0

Keyword(s): Exertional compartment syndrome, Forearm, Forearm compartment syndrome, Hand surgeries, Chronic exertional compartment syndrome, Compartment syndrome, Morbidity, Wounds

Abstract Similar Articles

Filters

Access type clear x

☐ Open access (303)

Specialty clear x

☐ Trauma (625)

☐ Basic science (448)

☐ Knee (54)

☐ Sports medicine (52)

☐ Arthroplasty (38)

☐ Ankle (26)

☐ Elbow (22)

☐ Children's orthopaedics (21)

☐ Hip (13)

☐ Foot (12)

☐ Spine (11)

☐ Hand (10)

☐ Wrist (7)

☐ Oncology (6)

☐ Shoulder (5)

Article type clear x

Compartment syndrome

Explore

Medical Specialty

Related Topics

- Chronic compartment syndrome (16)
- Forearm compartment syndrome (55)
- Acute compartment syndrome (257)
- Anterior compartment syndrome (16)
- Muscle-crush compartment syndrome (1)
- Posterior compartment syndrome (10)

Feedback

Combine search results with filters

The screenshot displays the Ortho Search interface. At the top, the search bar contains the query 'anterior'. Below the search bar, the results are categorized by 'All Results', 'Articles', 'Preprints', 'Podcasts', 'Standards', 'Videos', 'Techniques', and 'Case Catalogue'. The 'All Results' tab is selected, showing 1237 total results. The results are sorted by 'Relevance' and displayed in a list format. On the left side, there are filters for 'Access type' (Open access: 1037) and 'Specialty' (Sports medicine: 1257). Red arrows point to these filters, indicating they are being applied to the search results. The first result is 'Anterior Shoulder Instability with Concomitant Superior Labrum from Anterior to Posterior (SLAP) Lesion Compared to Anterior Instability without SLAP Lesion'. The second result is 'Effect of Anterior Glenoid Chondrolabral Defects on Anterior Glenohumeral Stability: A Biomechanical Study'. The third result is 'Direct Anterior Total Hip Arthroplasty'. The fourth result is 'Update on anterior ankle impingement'.

Ortho Search

Home > Search

Enter your query to find articles, authors, podcasts and more

anterior

Advanced Search Reset

Showing results for: anterior

Back Cite

Total Results: 1237 Sort by: Relevance Display results per page: 10

Filters:

Access type: Open access (1037)

Specialty: Sports medicine (1257)

Article Type: Clinical trial (300)

☐ Cite all

☐ Anterior Shoulder Instability with Concomitant Superior Labrum from Anterior to Posterior (SLAP) Lesion Compared to Anterior Instability without SLAP Lesion

Author(s): Claire Marie C Durban, Je Kyun Kim, Sae Hoon Kim, Joo Han Oh

2016-06-01, Clinics in orthopedic surgery (CiteScore: 4.1), PMID:27247742, DOI: 10.4055/cios.2016.8.2.168

Keyword(s): Anterior shoulder instability, Anterior instability, Slap lesion, Labrum, Anterior stabilization, Rowe score, Postoperative pain score, High-energy trauma, Visual analogue scale, Arthroscopic stabilization

Abstract

Similar Articles

☐ Effect of Anterior Glenoid Chondrolabral Defects on Anterior Glenohumeral Stability: A Biomechanical Study

Author(s): Jun Kawakami, Heath B Henninger, Tyler W Knighton, Nobuyuki Yamamoto, Robert Z Tashjian, Eiji Itoi, Peter N Chalmers

2012-10-01, Orthopaedic journal of sports medicine (CiteScore: 3.5), PMID:36338354, DOI: 10.1177/23259671221130700

Keyword(s): Glenohumeral joint, Glenoid, Biomechanical studies, Shoulder, Anterior dislocations, Frozen shoulder, Labral tear, Labral repair, Humeral head, Abduction

Abstract

Similar Articles

☐ Direct Anterior Total Hip Arthroplasty

Author(s): Patrick F Bergin, Anthony S Unger

2011-10-01, JBJS essential surgical techniques (CiteScore: 3.8), PMID:31321120, DOI: 10.2106/JBJS.ST.K.00015

Keyword(s): Direct anterior total hip arthroplasty, Total hip arthroplasty, Hip, Fascia, Direct anterior approach, Greater trochanter, Acetabulum, Abduction, Femur

Abstract

Similar Articles

☐ Update on anterior ankle impingement

Author(s): Tanawat Vaseenon, Annunziato Amendola

Compare with PubMed Central

The image displays two overlapping screenshots of the Europe PMC (Public Medline Central) website. The top screenshot shows the search interface with the query 'Anterior cruciate' entered in the search bar. A red arrow points to the search bar. The bottom screenshot shows the search results for the query '10.1302/2058-5241.1.160032', displaying the article 'The Anterior Cruciate Ligament: Principles of Treatment' by Shom P, Varma AR, and Prasad R. The article is a review published in Cureus, 11 Jun 2023, 15(6):e40269. The abstract is visible, discussing ACL reconstruction and its principles.

Europe PMC About Tools Developers Help Europe PMC plus

Search life-sciences literature (42,674,793 articles, preprints and more)

Anterior cruciate

Advanced search

Search Save & create alert

The Anterior Cruciate Ligament: Principles of Treatment.

Shom P¹, Varma AR², Prasad R³

Author information

Cureus, 11 Jun 2023, 15(6):e40269
DOI: 10.7759/cureus.40269 PMID: 37448400

Review

Share this article

Abstract

The anterior cruciate ligament (ACL) is a crucial connective tissue in the knee joint

10.1302/2058-5241.1.160032

Enter your query to find articles, authors, podcasts and more

10.1302/2058-5241.1.160032

Advanced Search Reset

Showing results for: 10.1302/2058-5241.1.160032

All Results Articles Preprints Podcasts Standards Videos Techniques Case Catalogue

Back Cite

Total Results: 1 Sort by: Relevance Display results per page: 10

Filters

Access type **clear x**

Open access (1)

Specialty **clear x**

Basic science (1)
Sports medicine (1)
Trauma (1)

Article Type **clear x**

Clinical trial (1)

Impact factor **clear x**

4 to 59 (1)

Published in **clear x**

Cite all

Anterior cruciate ligament reconstruction: principles of treatment

Author(s): Nikolaos K. Paschos, Stephen M. Howell
2016-01-01 EFORT Open Reviews (CiteScore: 8.1), PMID:28461918, DOI: 10.1302/2058-5241.1.160032
Keyword(s): Anterior cruciate ligament reconstruction, Anterior cruciate ligament ruptures, Randomized controlled trials, Hamstring, Autograft, Allograft, Sports medicine, Patellar tendon, Anterior cruciate ligament injuries, Osteoarthritis
Abstract

Abstract

Anterior cruciate ligament (ACL) reconstruction is one of the most common procedures in sports medicine. Several areas of controversy exist in ACL tear management which have engaged surgeons and researchers in debates towards identifying an ideal approach for these patients. This instructional review discusses the principles of ACL reconstruction in an attempt to provide guidelines and initiate a critical thinking approach on the most common areas of controversy regarding ACL reconstruction. Using high-level evidence from the literature, as presented in randomised controlled trials, systematic reviews, and meta-analyses, operative versus conservative treatment, timing of surgery, and rehabilitation are discussed. Also, the advantages and disadvantages of the most common types of autografts, such as patellar tendon and hamstrings as well as allografts are presented. Key considerations for the anatomical, histological, biomechanical and clinical data ('IDEAL') graft positioning are reviewed. Cite this article: Paschos NK, Howell SM. Anterior cruciate ligament reconstruction: principles of treatment. EFORT Open Rev 2016;398-408. DOI: 10.1302/2058-5241.1.160032.

Similar Articles

For the future: Better metadata

- Identify article type, such as research paper”, “review article”, or “clinical trial”. Article type (@article-type) still only an optional component of NISO-JATS
- Distinguish author’s accepted manuscript, version of record, preprint copy, etc (requires additional tools to JATS)

Conclusions

- Small publishers can make a difference if they make use of their domain knowledge
- Work around infrastructure limitations rather than confront them head-on
- General discovery platforms (Google Scholar, Scopus) have no interest in developing domain-based solutions
- AI tools can discreetly enhance the metadata and provide better navigation
- Better navigation beats more hits

More information

Michael@consultmu.co.uk (for the case study)

krishna@molecularconnections.com (for the software build)

R.Hollingsworth@boneandjoint.org.uk (for the domain expertise)