

PROPUNERE DE TEMATICA SI BIBLIOGRAFIE PENTRU EXAMENUL DE ADMITERE LA DOCTORAT

UMFCD – SP.FOISOR – Prof Dr. Stoica Ioan Cristian

Campbell's Operative Orthopaedics, Set. Elsevier, 14th December 2020

1. TRATAMENTUL CHIRURGICAL AL BOLILOR DEGENERATIVE ALE COLOANEI LOMBARE

BIBLIOGRAFIE

- ✓ Campbell's Operative Orthopaedics, Set. Elsevier, 14th December 2020
- ✓ Forsth, P., Ólafsson, G., Carlsson, T., Frost, A., Borgström, F., Fritzell, P., ... Sandén, B. (2016). A Randomized, Controlled Trial of Fusion Surgery for Lumbar Spinal Stenosis. *New England Journal of Medicine*, 374(15), 1413–1423. doi:10.1056/nejmoa1513721
- ✓ Resnick DK, Choudhri TF, Dailey AT, et al. Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 8: lumbar fusion for disc herniation and radiculopathy. *J Neurosurg Spine*. 2005;2:673–8
- ✓ Deyo RA, Nachemson A, Mirza SK. Spinal-fusion surgery - the case for restraint. *N Engl J Med* 2004;350:722–6.
- ✓ Deyo RA, Gray DT, Kreuter W, et al. United States trends in lumbar fusion surgery for degenerative conditions. *Spine (Phila Pa 1976)* 2005;30:1441–5; discussion 1446-7.
- ✓ Errico TJ, Gatchel RJ, Schofferman J, et al. A fair and balanced view of spine fusion surgery. *Spine J* 2004;4 (5 suppl):S129–38.
- ✓ Resnick DK, Watters WC 3rd, Mummaneni PV, et al. Guideline update for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 10: Lumbar fusion for stenosis without spondylolisthesis. *J Neurosurg Spine* 2014;21:62–6.
- ✓ Forsth P, Olafsson G, Carlsson T, et al. A randomized, controlled trial of fusion surgery for lumbar spinal stenosis. *N Engl J Med* 2016;374:1413–23.
- ✓ Martin BI, Mirza SK, Franklin GM, et al. Hospital and surgeon variation in complications and repeat surgery following incident lumbar fusion for common degenerative diagnoses. *Health Serv Res* 2013;48:1–25.
- ✓ Lurie JD, Birkmeyer NJ, Weinstein JN. Rates of advanced spinal imaging and spine surgery. *Spine (Phila Pa 1976)* 2003;28: 616–20.
- ✓ Deyo RA, Mirza SK, Martin BI, Kreuter W, Goodman DC, Jarvik JG. Trends, major medical complications, and charges associated with surgery for lumbar spinal stenosis in older adults. *JAMA* 2010;303: 1259-65.
- ✓ Ghogawala Z, Dziura J, Butler WE, et al. Decompression plus fusion versus laminectomy alone for lumbar spondylolisthesis. *N Engl J Med* 2016;374:1424-34.
- ✓ Martin, Brook I. PhD, MPH et al. - Trends in Lumbar Fusion Procedure Rates and Associated Hospital Costs for Degenerative Spinal Diseases in the United States, 2004 to 2015, *Spine*: March 1, 2019-VOLUME 44-ISSUE 5-p 369-376

2. CORECTIA CHIRURGICALA SI NECHIRURGICALA A DIFORMITATILOR VERTEBRALE

Bibliografie

- ✓ Campbell's Operative Orthopaedics, Set. Elsevier, 14th December 2020
- ✓ Three-dimensional analysis of spinal deformity correction in adolescent idiopathic scoliosis: comparison of two distinct techniques - Sikora Klak J., Upasani V., Ilharreborde B., Cross M., rezultatele studiului vor fi publicate in acest an in Child's Nervous System
- ✓ Correction of hypokyphosis in thoracic adolescent idiopathic scoliosis using sublaminar bands: a 3 D multicenter study - Pesenti S., Ferrero E., Mazda K.- European Spine Journal DOI 10.1007/s 00586-017-5166-8, June 2017
- ✓ The use of metal sublaminar wires in modern growth guidance scoliosis surgery- Bogie R., Arts J. J., Willems P.C. - International Journal Spine Surgery 2020 Apr 14 (2) 182-188
- ✓ Use of sublaminar bands for adolescent idiopathic scoliosis - a systematic review - Filho R., De Matos Abe G., Evangelista Silva B., Columna ISSN 1808-1851
- ✓ Sublaminar banding as an adjunct to pedicle screw rod constructs: a review and technical note on novel hybrid constructs in spinal deformity surgery- Viswanathan V., Minnema A., Viljoen S., Farhadi F., - Journal of Neurosurgery: Spine doi.org/10371/2018.11 SPINE181154
- ✓ Correlation of preoperative deformity magnitude and pulmonary function tests in adolescent idiopathic scoliosis.Johnston CE, Richards BS, Sucato DJ, Bridwell KH, Lenke LG, Erickson M, Spinal Deformity Study Group (2011). Spine (Phila Pa 1976) 36(14):1096-1102
- ✓ Increasing hospital charges for adolescent idiopathic scoliosis in the United States. Martin CT, Pugely AJ, Gao Y, Mendoza-Lattes SA, Ilgenfritz RM, Callaghan JJ, Weinstein SL (2014). Spine (Phila Pa 1976) 39:1676-1682
- ✓ Preservation of thoracic kyphosis is critical to maintain lumbar lordosis in the surgical treatment of adolescent idiopathic scoliosis. Newton PO, Yaszay B, Upasani VV, Pawelek JB, Bastrom TP, Lenke LG, Lowe T, Crawford A, Betz R, Lonner B, Harms study group (2010) . Spine. (Phila Pa 1976) 35:1365-1370
- ✓ Defining the "Three-dimensional sagittal plane" Newton PO, Fujimori T, Doan J, Reighard FG, Bastrom TP, Misaghi A (2015) J Bone Jt Surg Am 97:1694-1701
- ✓ Adolescent idiopathic scoliosis treated with posteromedial translation: radiologic evaluationwith a 3 D low dose system, Ilhareborde B, Sebag G, Skalli W, Mazda K (2013), Eur Spine J 22: 2382-2391
- ✓ Reliability of cervical lordosis and global sagittal spinal balance measurements in adolescent idiopathic scoliosis. Vidal C,Ilhareborde B, Azoulay R, Sebag G, Mazda C (2013) Eur Spine J 22: 1362-1367
- ✓ Vertebral derotation in adolescent idiopathic scoliosis causes hypokyphosis of the thoracic spine. Watanabe K, Nakamura T, Iwanami A, Hosogane N, Tsuji T, Ishii K, Nakamura M, Toyama Y, Chiba K, Matsumoto M (2012) BMC Musculoskeletal Disorders 12(13) :99

3. APORTUL DE FACTORI DE CREȘTERE, CYTOKINE SI CELULE STEM MESENCHIMALE RECOLTATE DE LA PACIENT IN ARTRODEZA CHIRURGICALA DE COLOANA

BIBLIOGRAFIE:

- ✓ Campbell's Operative Orthopaedics, Set. Elsevier, 14th December 2020
- ✓ McCarthy IM, Hostin RA, Ames CP, et al. Total hospital costs of surgical treatment for adult spinal deformity: an extended followup study. *Spine J.* 2014;14:2326-2333.
- ✓ Kim YJ, Bridwell KH, Lenke LG, Rhim S, Cheh G. Pseudarthrosis in long adult spinal deformity instrumentation and fusion to the sacrum: prevalence and risk factor analysis of 144 cases. *Spine*
(Phila Pa 1976). 2006;31:2329-2336.
- ✓ Khan SN, Cammisa FP Jr, Sandhu HS, Diwan AD, Girardi FP, Lane JM. The biology of bone grafting. *J Am AcadOrthop Surg.* 2005;13:77-86.
- ✓ Boden SD. Overview of the biology of lumbar spine fusion and principles for selecting a bone graft substitute. *Spine (Phila Pa1976)*. 2002;27(16 suppl 1):S26-S31.
- ✓ Olabisi R. Cell-based therapies for spinal fusion. *Adv Exp Med Biol.* 2012;760:148-173.
- ✓ Hernigou, P. et al. Allografts supercharged with bone-marrow-derived mesenchymal stem cells possess equivalent osteogenic capacity to that of autograft: a study with long-term follow-ups of human biopsies. *Int. Orthop.* 41(1), 127–132 (2017).
- ✓ Salamanna, F. et al. Mesenchymal Stem Cells for the Treatment of Spinal Arthrodesis: From Preclinical Research to Clinical Scenario. *Stem Cell Int.* 2017, 3537094 (2017).
- ✓ EvangelosM.Fragkakis, Jehan Jomaa El-Jawhari, Robert A.Dunsmuir, Peter A.Millner, Abhay S.Rao, KarenT. Henshaw, IppokratisPountos, Elena Jones, Peter V.Giannoudis Vertebral body versus iliac crest bone marrow as a source of multipotential stromal cells: Comparison of processing techniques, trilineage differentiation and application on a scaffold for spine fusion,PLOSONE <https://doi.org/10.1371/journal.pone.0197969> May, 2018
- ✓ F. Salamanna, D. Contartese, G. Giavaresi, L. Sicuro , G. BarbantiBrodano, A. Gasbarrini& M. Fi Ni, A Rationale for the Use of clotted Vertebral Bone Marrow to Aid tissue Regeneration following Spinal Surgery, *Nature Scientific Reports* | (2020) 10:4115 | <https://doi.org/10.1038/s41598-020-60934-2>
- ✓ Khashan M, Inoue S, Berven SH. Cell based therapies as compared to autologous bone grafts for spinal arthrodesis. *Spine (Phila Pa 1976)*. 2013;38:1885-1891.
- ✓ Michael A. Robbins, MD, Dominik R. Haudenschild, PhD, Adam M. Wegner, MD, and Eric O. Klineberg, MD, Stem Cells in Spinal Fusion, *Global Spine J.* 2017 Dec; 7(8): 801–810.

4. FORMA, POZITIONAREA SI ORIENTAREA ACETABULARA ROL IN ENDOPROTEZAREA SOLDULUI

Bibliografie

- ✓ 0.Campbell's Operative Orthopaedics, Set. Elsevier, 14th December 2020
- ✓ 1. Anda S, Svenningsen S, Dale LG, Benum B. The acetabular sector angle of the adult hip determined by computed tomography. *Acta Radiol Diagn.* 1986;27:443–447.
- ✓ 2. Anda S, Svenningsen S, Grontved T, Benum B. Pelvic inclination and spatial orientation of the acetabulum: a radiographic, computed tomographic and clinical investigation. *Acta Radiol.* 1990;31:389–394.
- ✓ 3. Beck M, Leunig M, Parvizi J, Boutier V, Wyss D, Ganz R. Anterior femoral impingement: part II. Midterm results of surgical treatment. *Clin OrthopRelat Res.* 2004;418:67–73.
- ✓ 4. Beck M, Kalhor M, Leunig M, Ganz R. Hip morphology influences the pattern of damage to the acetabular cartilage. *J Bone Joint Surg Br.* 2005;87:12–18.
- ✓ 5. Bullough P, Goodfellow J, Greenwald AS, O'Connor J. Incongruent surfaces in the human hip joint. *Nature.* 1968;217:1290.
- ✓ 6. Byers PD, Contepomi A, Farkas TA. A post-mortem study of the hip joint. *Ann Rheum Dis.* 1970;29:15–31.
- ✓ 7. Clark JM, Freeman MAR, Witham D. The relation of neck orientation to the shape of the proximal femur. *J Arthroplasty.* 1987;2:99–109.
- ✓ 8. Cohen J. Statistical power analysis for the behavioral sciences. Hillsdale, N.J.: L. Erlbaum Associates, 1988: 16–18.
- ✓ 9. Daskalogiannaki ME, Gourtsoyannis NC. Variation in the appearance of the normal sacroiliac joint on pelvic CT. *Clin Radiol.* 1998;53:742–746.
- ✓ 10. DiGioia A, Hafez MA, Jaramaz B, Levinson TJ, Moody JE. Functional pelvic orientation measured from lateral standing and sitting radiographs. *Clin OrthopRelat Res.* 2006;453:272–276.
- ✓ 11. Dora C, Zurbach J, Hersche O, Ganz R. Pathomorphological characteristics of posttraumatic acetabular dysplasia. *J Orthop Trauma.* 2000;14:483–489.
- ✓ 12. Eckman K, Hafez MA, Ed F, Jaramaz B, Levison TJ, DiGioia AM 3rd. Accuracy of pelvic flexion measurements from lateral radiographs. *Clin OrthopRelat Res.* 2006;451:154–160.
- ✓ 13. Eckstein F, von Eisenhart-Rothe R, Landgraf J, Adam C, Loehe F, Müller-Gerbl M, Putz R. Quantitative analysis of incongruity, contact areas and cartilage thickness in the human hip joint. *Acta Anatomica.* 1997;158:192–204.
- ✓ 14. Effenberger H, Koebke J, Wilke R, Hautmann J, Witzel U, Imhof M, Richolt J. Acetabular shape and cementless cups. Comparison of osteoarthritic hips and implant design [in German]. *Orthopäde.* 2004;33:1042–1050.
- ✓ 15. Eijer H, Myers SR, Ganz R. Anterior femoroacetabular impingement after femoral neck fractures. *J Orthop Trauma.* 2001;15:475–481.
- ✓ 16. Faflia CP, Prassopoulos PK, Daskalogiannaki ME, Gourtsoyannis NC. Variation in the appearance of the normal sacroiliac joint on pelvic CT. *Clin Radiol.* 1998;53:742–746.
- ✓ 17. Falliner A, Hahne HJ, Hassenpflug J. Sonographic investigation of anatomic specimens of infant hip joints. *J PediatrOrthop Br.* 2002;11:192–203.

- ✓ 18. Ganz R, Gill TJ, Gauthier E, Ganz K, Krugel N, Berlemann U. Surgical dislocation of the adult hip: a technique with full access to the femoral head and acetabulum without the risk of avascular necrosis. *J Bone Joint Surg Br.* 2001;83:1119–1124.
- ✓ 19. Ganz R, Klaue K, Vinh TS, Mast JW. A new periacetabular osteotomy for the treatment of hip dysplasia: Technique and preliminary results. *Clin OrthopRelat Res.* 1988;232:26–36.
- ✓ 20. Ganz R, Leunig M, Leunig-Ganz K, Harris WH: The etiology of osteoarthritis of the hip. *Clin Orthop Rel Res.* 2008;466:264–272.
- ✓ 21. Ganz R, Parvizi J, Beck M, Leunig M, Nötzli H, Siebenrock KA. Femoroacetabular impingement-a cause for osteoarthritis of the hip. *Clin OrthopRelat Res.* 2003;417:112–120.
- ✓ 22. Gekeler J. Coxarthrosis with a deep acetabulum (proceedings) [in German]. *Z OrthopIhreGrenzgeb.* 1978;116:454–459.
- ✓ 23. Giori NJ, Trousdale RT. Acetabular retroversion is associated with osteoarthritis of the hip. *Clin OrthopRelat Res.* 2003;417:263–269.
- ✓ 24. Goodman DA, Feighan JF, Smith AD, Latimer B, Buly RL, Cooperman DR. Subclinical slipped capital femoral epiphysis: relation to osteoarthritis of the hip. *J Bone Joint Surg Am.* 1997;79:1489–1497.
- ✓ 25. Gu D, Dai K, Wang Y, Hu X, Xi J. Morphologic features of the acetabulum bone joint area [in Chinese]. *J Biomed Eng.* 2003;20:618–621.
- ✓ 26. Ito K, Leunig M, Ganz R. Histopathologic features of the acetabular labrum in femoroacetabular impingement. *Clin OrthopRelat Res.* 2004;429:262–271.
- ✓ 27. Ito K, Minka MA 2nd, Leunig M, Werlen S, Ganz R. Femoro-acetabular impingement and the cam effect: an MRI-based quantitative anatomic study of the femoral head-neck offset. *J Bone Joint Surg Br.* 2001;83:171–176.
- ✓ 28. Jamali AA, Mladenov K, Meyer DC, Martinez A, Beck M, Ganz R, Leunig M. Anteroposterior pelvic radiographs to assess acetabular retroversion: high validity of the “cross-over-sign”. *J Orthop Res.* 2007;25:758–765.
- ✓ 29. Kalberer F, Sierra RJ, Madan SS, Ganz R, Leunig M. Projection of the ischial spine into the pelvic cavity: a new sign for acetabular retroversion on plain radiographs. *Clin OrthopRelat Res.* 2008;466:677–683.
- ✓ 30. Kloen P, Leunig M, Ganz R. Early lesions of the labrum and the acetabular cartilage in osteonecrosis of the femoral head. *J Bone Joint Surg Br.* 2002;84:66–69.
- ✓ 31. Lavigne M, Parvizi J, Beck M, Siebenrock K, Ganz R, Leunig M. Anterior femoroacetabular impingement: part I. Techniques of joint preserving surgery. *Clin Orthop Rel Res.* 2004;418:61–66.
- ✓ 32. Lazennec JY, Charlot N, Gorin M, Roger B, Arafat N, Bissery A, Saillant G. Hip spine relationship: a radio-anatomical study for optimization in acetabular cup positioning. *Surg Radiol Anat.* 2004;26:136–144.
- ✓ 33. Lembeck B, Mueller O, Reize P, Wuelker N. Pelvic tilt makes acetabular cup navigation inaccurate. *Acta Orthop.* 2005;76:517–523.
- ✓ 34. Lequesne M. Mesure des angles fondamentaux de la hanche radiographique de l'adulte par un rapporteur combine. *Rev Rhum.* 1963;30:479–485.
- ✓ 35. Leunig M, Beck M, Woo A, Dora C, Kerboull M, Ganz R. Acetabular rim degeneration: a constant finding in the aged hip. *Clin OrthopRelat Res.* 2003;413:201–207.

- ✓ 36. Leunig M, Cássillas MM, Hamlet M, Herrsche O, Nötzli T, Ganz R. Slipped capital femoral epiphysis: early mechanical damage to the acetabular cartilage by a prominent femoral metaphysis. *Acta Orthop Scand*. 2000;71:370–375.

5. ROLUL IMAGISTICII 3-D IN STUDIUL SI TRATAMENTUL INSTABILITATILOR DE GENUNCHI

BIBLIOGRAFIE

- ✓ Campbell's Operative Orthopaedics, Set. Elsevier, 14th December 2020
- ✓ 1. Svoboda SJ. ACL injury and posttraumatic osteoarthritis. *Clin Sports Med*. 2014 Oct;33(4):633-40. doi: 10.1016/j.csm.2014.06.008. PMID: 25280613 2. Nessler T, Denney L, Sampley J. ACL Injury Prevention: What Does Research Tell Us? *Curr Rev Musculoskelet Med*. 2017 Sep;10(3):281-288. doi: 10.1007/s12178-017-9416-5. PMID: 28656531; PMCID: PMC5577417. 3. Gokeler A, Neuhaus D, Benjaminse A, Grooms DR, Baumeister J. Principles of Motor Learning to Support Neuroplasticity After ACL Injury: Implications for Optimizing Performance and Reducing Risk of Second ACL Injury. *Sports Med*. 2019 Jun;49(6):853-865. doi: 10.1007/s40279-019-01058-0. Erratum in: *Sports Med*. 2019 Feb 21;; PMID: 30719683; PMCID: PMC6548061. 4. Heard WM, Chahal J, Bach BR Jr. Recognizing and managing complications in ACL reconstruction. *Sports Med Arthrosc Rev*. 2013 Jun;21(2):106-12. doi: 10.1097/JSA.0b013e318290070c. PMID: 23649158.
- ✓ 5. T Vermersch 1, S Lustig 2, O Reynaud 2, C Debette 2, E Servien 2, P Neyret 2 CT assessment of femoral tunnel placement after partial ACL reconstruction . DOI: 10.1016/j.otsr.2015.12.012. PMID: 26922042
- ✓ 6. Daniel Hensler , Zachary M Working, Kenneth D Illingworth, Scott Tashman, Freddie H Fu Correlation between femoral tunnel length and tunnel position in ACL reconstruction.DOI: 10.2106/JBJS.L.01315. PMID: 24257661
- ✓ 7. B Parkinson , R Gogna , C Robb , P Thompson , T Spalding Anatomic ACL reconstruction: the normal central tibial footprint position and a standardised technique for measuring tibial tunnel location on 3D CT . DOI: 10.1007/s00167-015-3683-8. PMID: 26130426 8. Kenneth David Illingworth 1, Daniel Hensler, Zachary Mark Working, Jeffrey Alexander Macalena, Scott Tashman, Freddie H Fu A simple evaluation of anterior cruciate ligament femoral tunnel position: the inclination angle and femoral tunnel angle. DOI: 10.1177/0363546511420128.PMID: 21908719
- ✓ 9. Tiago LazzarettiFernandes ,Nuno Miguel Morais Fonseca Martins Felipe de Andrade WataiCyro Albuquerque Neto André Pedrinelli Arnaldo José Hernandez Institute of Orthopedics and Traumatology, Hospital das Clínicas, University of São Paulo, Medical School. Brazil, - 3D computer tomography for measurement of femoral position in acl reconstruction
- ✓ 10. Jonathan H Bird , Michael R Carmont, Manpreet Dhillon, Nick Smith, Charlie Brown, Peter Thompson, Tim Spalding . Validation of a new technique to determine midbundle femoral tunnel position in anterior cruciate ligament reconstruction using 3-dimensional computed tomography analysis. DOI: 10.1016/j.arthro.2011.03.077.PMID: 21741796

- ✓ 11. Luigi Sirleo , Massimo Innocenti , Matteo Innocenti , Roberto Civinini , Christian Carulli , Fabrizio Matassi. Post-operative 3D CT feedback improves accuracy and precision in the learning curve of anatomic ACL femoral tunnel placement. DOI: 10.1007/s00167-017-4614-7. PMID: 28631143
- 12. Faizal Rayan, Shashi Kumar Nanjayan, Conal Quah, Darryl Ramoutar, Sujith Konan, and Fares S Haddad . Review of evolution of tunnel position in anterior cruciate ligament reconstruction World J Orthop. 2015 Mar 18; 6(2): 252–262. Published online 2015 Mar 18. doi: 10.5312/wjo.v6.i2.252 PMID: 25793165

6. TEHNICI DE STABILIZARE SI REZOLVARE A INSTABILITATII DE GENUNCHI PRIN LEZIUNE DE LIGAMENT INCRUCISAT ANTERIOR

BIBLIOGRAFIE:

- ✓ Campbell's Operative Orthopaedics, Set. Elsevier, 14th December 2020
- ✓ [1] Kim Y-M, Joo Y-B, Lee K-Y, Hwang S-J. Femoral Footprint for Anatomical Single-Bundle Anterior Cruciate Ligament Reconstruction: A Cadaveric Study. Knee Surg Relat Res 2018;30:128–32. <https://doi.org/10.5792/ksrr.17.057>.
- ✓ [2] Chae I-J, Bae J-H, Wang J-H, Jeon J, Park J-H. Double-bundle anterior cruciate ligament reconstruction with split Achilles allograft and single tibia tunnel for small ACL tibial footprint : technical note with clinical results. Arch Orthop Trauma Surg 2013;133:819–25. <https://doi.org/10.1007/s00402-013-1734-5>.
- ✓ [3] Buoncristiani AM, Tjoumakaris FP, Starman JS, Ferretti M, Fu FH. Anatomic Double-Bundle Anterior Cruciate Ligament Reconstruction. Arthroscopy: The Journal of Arthroscopic & Related Surgery 2006;22:1000–6. <https://doi.org/10.1016/j.arthro.2006.06.005>.
- ✓ [4] Kim SH, Jung YB, Song MK, Lee SH, Jung HJ, Lee HJ, et al. Comparison of double-bundle anterior cruciate ligament (ACL) reconstruction and single-bundle reconstruction with remnant pull-out suture. Knee Surg Sports TraumatolArthrosc 2014;22:2085–93. <https://doi.org/10.1007/s00167-013-2619-4>.
- ✓ [5] Mogos S, Sendrea B, Stoica IC. Combined Anatomic Anterior Cruciate Ligament and Anterolateral Ligament Reconstruction n.d.:7.
- ✓ [6] Ra HJ, Kim J-H, Lee D-H. Comparative clinical outcomes of anterolateral ligament reconstruction versus lateral extra-articular tenodesis in combination with anterior cruciate ligament reconstruction: systematic review and meta-analysis. Arch Orthop Trauma Surg 2020;140:923–31. <https://doi.org/10.1007/s00402-020-03393-8>.
- ✓ [7] Geeslin AG, Chahla J, Moatshe G, Muckenhirn KJ, Kruckeberg BM, Brady AW, et al. Anterolateral Knee Extra-articular Stabilizers: A Robotic Sectioning Study of the Anterolateral Ligament and Distal Iliotibial Band Kaplan Fibers. Am J Sports Med 2018;46:1352–61. <https://doi.org/10.1177/0363546518759053>.

- ✓ [8] Spencer L, Burkhart TA, Tran MN, Rezansoff AJ, Deo S, Caterine S, et al. Biomechanical Analysis of Simulated Clinical Testing and Reconstruction of the Anterolateral Ligament of the Knee. *Am J Sports Med* 2015;43:2189–97. <https://doi.org/10.1177/0363546515589166>.
- ✓ [9] Zaffagnini S, Signorelli C, Grassi A, Yue H, Raggi F, Urrizola F, et al. Assessment of the pivot shift using inertial sensors. *Curr Rev Musculoskelet Med* 2016;9:160–3. <https://doi.org/10.1007/s12178-016-9333-z>.

7. ROLUL PANTEI POSTERIOARE TIBIALE IN INSTABILITATILE DE GENUNCHI

Bibliografie:

- ✓ Campbell's Operative Orthopaedics, Set. Elsevier, 14th December 2020
- ✓ Zeng C, Cheng L, Wei J, et al. The influence of the tibial plateau slopes on injury of the anterior cruciate ligament: a meta-analysis. *Knee Surg Sports TraumatolArthrosc.* 2014;22(1):53-65.
- ✓ Kessler MA, Behrend H, Henz S, Stutz G, Rukavina A, Kuster MS (2008) Function, osteoarthritis and activity after ACL-rupture: 11 years follow-up results of conservative versus reconstructive treatment. *Knee Surg Sports TraumatolArthrosc* 16:442–448
- ✓ Arendt EA (2001) Anterior cruciate ligament injuries. *Curr Women's Health Rep* 1:211–217
- ✓ Fride'n T, Jonsson A, Erlandsson T, Jonsson K, Lindstrand A (1993) Effect of femoral condyle configuration on disability after an anterior cruciate ligament rupture. 100 patients followed for 5 years. *Acta OrthopScand* 64:571–574
- ✓ Christensen JJ, Krych AJ, Engasser WM, Vanhees MK, Collins MS, Dahm DL. Lateral tibial posterior slope is increased in patients with early graft failure after anterior cruciate ligament reconstruction. *Am J Sports Med.* 2015;43(10):2510-2514.
- ✓ Napier RJ, Garcia E, Devitt BM, Feller JA, Webster KE. Increased Radiographic Posterior Tibial Slope Is Associated With Subsequent Injury Following Revision Anterior Cruciate Ligament Reconstruction. *Orthop J Sports Med.* 2019;7(11):2325967119879373. Published 2019 Nov 5.
- ✓ Voos JE, Suero EM, Citak M, et al. Effect of tibial slope on the stability of the anterior cruciate ligament-deficient knee. *Knee Surg Sports TraumatolArthrosc.* 2012;20(8):1626-1631.
- ✓ Dejour D, Saffarini M, Demey G, Baverel L. Tibial slope correction combined with second revision ACL produces good knee stability and prevents graft rupture. *Knee Surg Sports TraumatolArthrosc.* 2015;23(10):2846-2852.
- ✓ Hees T, Petersen W. Anterior Closing-Wedge Osteotomy for Posterior Slope Correction. *Arthrosc Tech.* 2018;7(11):e1079-e1087.
- ✓ Bernholz DL, Kennedy MI, Crawford MD, DePhillipo NN, LaPrade RF. Combined Anterior Cruciate Ligament Reconstruction and Lateral Extra-Articular Tenodesis. *Arthrosc Tech.* 2019;8(8):e855-e859. Published 2019 Jul 19.
- ✓ Webb JM, Salmon LJ, Leclerc E, Pinczewski LA, Roe JP. Posterior tibial slope and further anterior cruciate ligament injuries in the anterior cruciate ligament-reconstructed patient. *Am J Sports Med.* 2013;41(12):2800-2804.
- ✓ Jesani S, Getgood A. Modified Lemaire Lateral Extra-Articular Tenodesis Augmentation of Anterior Cruciate Ligament Reconstruction. *JBJS Essent Surg Tech.* 2019;9(4):e41.1-7.
- ✓ Joseph L, Demey G, Chamu T, et al. Adding a modified Lemaire procedure to ACLR in knees with severe rotational knee instability does not compromise isokinetic muscle recovery at the time

of return-to-play. *J Exp Orthop.* 2020;7(1):84. Published 2020 Oct 30. Williams A, Ball S, Stephen J, White N, Jones M, Amis A. The scientific rationale for lateral tenodesis augmentation of intra-articular ACL reconstruction using a modified 'Lemaire' procedure. *Knee Surg Sports TraumatolArthrosc.* 2017;25(4):1339-1344.

- ✓ Williams A, Ball S, Stephen J, White N, Jones M, Amis A. The scientific rationale for lateral tenodesis augmentation of intra-articular ACL reconstruction using a modified 'Lemaire' procedure. *Knee Surg Sports TraumatolArthrosc.* 2017;25(4):1339-1344.
- ✓ Kennedy MI, LaPrade CM, Geeslin AG, LaPrade RF. An Overview of Clinically Relevant Biomechanics of the Anterolateral Structures of the Knee. *Tech Orthop.* 2018;33(4):213-218. j
- ✓ DePhillipo NN, Cinque ME, Chahla J, Geeslin AG, LaPrade RF. Anterolateral Ligament Reconstruction Techniques, Biomechanics, and Clinical Outcomes: A Systematic Review. *Arthroscopy.* 2017;33(8):1575-1583.
- ✓ Dodds AL, Halewood C, Gupte CM, Williams A, Amis AA. The anterolateral ligament: Anatomy, length changes and association with the Segond fracture. *Bone Joint J.* 2014;96-B(3):325-331.
- ✓ Lemaire M: Ruptures anciennes du ligament croiseanterieur du genou. *J Chir (Paris)* 93: 311-20, 1967.
- ✓ Losee RE, Johnson TR, Southwick WO: Anterior subluxation of the lateral tibial plateau. A diagnostic test and operative repair. *J Bone Joint Surg Am* 60: 1015-30, 1978
- ✓ Ellison AE: Distal iliotibial-band transfer for anterolateral rotatory instability of the knee. *J Bone Joint Surg Am* 61: 330-7, 1979
- ✓ Ireland J, Trickey EL: Macintosh tenodesis for anterolateral instability of the knee. *J Bone Joint Surg Br* 62: 340-5, 1980.
- ✓ Andrews JR, Sanders R: A "mini-reconstruction" technique in treating anterolateral rotatory instability (ALRI). *Clin OrthopRelat Res:* 93-6, 1983
- ✓ Duthon VB, Magnussen RA, Servien E, Neyret P. ACL reconstruction and extra-articular tenodesis. *Clin Sports Med.* 2013;32(1):141-153
- ✓ Hiroshima Y, Hoshino Y, Miyaji N, et al. No difference in postoperative rotational laxity after ACL reconstruction in patients with and without anterolateral capsule injury: quantitative evaluation of the pivot-shift test at 1-year follow-up. *Knee Surg Sports TraumatolArthrosc.* 2020;28(2):489-494.
- ✓ Sheean AJ, Shin J, Patel NK, Lian J, Guenther D, Musahl V. The Anterolateral Ligament is Not the Whole Story: Reconsidering the Form and Function of the Anterolateral Knee and its Contribution to Rotatory Knee Instability. *Tech Orthop.* 2018;33(4):219-224
- ✓ Dejour D, Pungitore M, Valluy J, Nover L, Saffarini M, Demey G. Tibial slope and medial meniscectomy significantly influence short-term knee laxity following ACL reconstruction. *Knee Surg Sports TraumatolArthrosc.* 2019;27(11):3481-3489.
- ✓ Bernhardson AS, Aman ZS, Dornan GJ, et al. Tibial Slope and Its Effect on Force in Anterior Cruciate Ligament Grafts: Anterior Cruciate Ligament Force Increases Linearly as Posterior Tibial Slope Increases. *Am J Sports Med.* 2019;47(2):296-302.
- ✓ Bargagliotti, Marco & Benazzo, Francesco & Bellemans, Johan & Truijen, Jan & Pietrobono, Luigi & Formagnana, Mario & Zero, Enrico & Zanon, Giacomo. (2020). The Role of the Posterolateral Tibial Slope in the Rotational Instability of the Knee in Patients Affected by a Complete Isolated Anterior Cruciate Ligament Injury: Its Value in the Decision-Making Process during the Anterolateral Ligament Reconstruction. *Joints.* 10.1055/s-0040-1710386.

- ✓ Rahnemai-Azar AA, Abebe ES, Johnson P, et al. Increased lateral tibial slope predicts high-grade rotatory knee laxity pre-operatively in ACL reconstruction. *Knee Surg Sports TraumatolArthrosc.* 2017;25(4):1170-1176.
- ✓ Bayer S, Meredith SJ, Wilson KW, et al. Knee Morphological Risk Factors for Anterior Cruciate Ligament Injury: A Systematic Review. *J Bone Joint Surg Am.* 2020;102(8):703-718.
- ✓ Frederick Azar S, Terry Canale James Beaty. *Campbell's Operative Orthopaedics*, 4-Volume Set. Elsevier, 14th December 2020
- ✓ W Norman Scott; David R Diduch; Richard Iorio; William J Long. *Insall& Scott surgery of the knee*. Philadelphia, PA : Elsevier, [2018]
- ✓ Hoshino Y, Araujo P, Ahlden M, et al. Standardized pivot shift test improves measurement accuracy. *Knee Surg Sports TraumatolArthrosc.* 2012;20(4):732-736.
- ✓ Jakob RP, Stäubli HU, Deland JT. Grading the pivot shift. Objective tests with implications for treatment. *J Bone Joint Surg Br.* 1987;69(2):294-299.
- ✓ Musahl V, Hoshino Y, Ahlden M, et al. The pivot shift: a global user guide [published correction appears in *Knee Surg Sports TraumatolArthrosc.* 2013 Mar;21(3):749]. *Knee Surg Sports TraumatolArthrosc.* 2012;20(4):724-731.
- ✓ Florescu, S., Vermesan, D., Haragus, H. et al. Cross-cultural adaptation and validation of the Romanian knee disability and osteoarthritis outcome score for joint replacement (KOOSJR). *BMC MusculoskeletDisord* 21, 155 (2020)
- ✓ <https://clincalc.com/stats/samplesize.aspx>

8. PLANNINGUL PREOPERATOR SI REZULTATELE POSTOPERATORII SI IN TIMP IN ENDOPROTEZAREA SOLDULUI

- ✓ BIBLIOGRAFIE: COMUNA CU TEMA NR.9

9. PLANNINGUL PREOPERATOR SI REZULTATELE POSTOPERATORII SI IN TIMP IN ENDOPROTEZAREA GENUNCHIULUI

BIBLIOGRAFIE:

- ✓ Campbell's Operative Orthopaedics, Set. Elsevier, 14th December 2020
- ✓ 1.OECD. Hip and knee replacement. In: OECD, editor. *Health at a Glance 2015: OECD Publishing*; 2015. pp. 112–113. https://doi.org/10.1787/health_glance-2015-36-en
- ✓ 2.Pivec R, Johnson AJ, Mears SC, Mont MA. Hip arthroplasty. *The Lancet.* 2012; 380: 1768–1777.
- ✓ View ArticleGoogle Scholar
- ✓ 3.Kurtz SM, Ong KL, Schmier J, Mowat F, Saleh K, Dybvik E, et al. Future clinical and economic impact of revision total hip and knee arthroplasty. *J Bone Joint Surg Am.* 2007; 89 Suppl 3: 144–151. pmid:17908880
- ✓ View ArticlePubMed/NCBIScholar
- ✓ 4.Patil S, Garbuz DS, Greidanus NV, Masri BA, Duncan CP. Quality of life outcomes in revision vs primary total hip arthroplasty. A prospective cohort study. *J Arthroplasty.* 2008; 23: 550–553. pmid:18514873
- ✓ View ArticlePubMed/NCBIScholar

- ✓ 5.Vanhegan IS, Malik AK, Jayakumar P, Ul Islam S, Haddad FS. A financial analysis of revision hip arthroplasty. The economic burden in relation to the national tariff. *J Bone Joint Surg Br.* 2012; 94: 619–623. pmid:22529080
 - ✓ View ArticlePubMed/NCBIScholar
- ✓ 6.Maloney WJ. National Joint Replacement Registries. Has the time come. *J Bone Joint Surg Am.* 2001; 83-A: 1582–1585. pmid:11679613
 - ✓ View ArticlePubMed/NCBIScholar
- ✓ 7.MacInnes SJ, Gordon A, Wilkinson MJ. Risk Factors for Aseptic Loosening Following Total Hip Arthroplasty. In: Fokter S, editor. *Recent Advances in Arthroplasty:* InTech; 2012.
 - ✓ View ArticleGoogle Scholar
- ✓ 8.Pedersen DR, Callaghan JJ, Brown TD. Activity-dependence of the "safe zone" for impingement versus dislocation avoidance. *Med Eng Phys.* 2005; 27: 323–328. pmid:15823473
 - ✓ View ArticlePubMed/NCBIScholar
- ✓ 9.Hsu J, La Fuente Md, Radermacher K. Multi-Dimensional Range-of-Motion-Based Safe Zone for Patient-Specific Total Hip Arthroplasty. In: Radermacher K, Baena FRY, editors. *CAOS 2017. 17th Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery: EasyChair;* 2017. pp. 175–180.
- ✓ 10.Bergmann G, Bender A, Dymke J, Duda G, Damm P. Standardized Loads Acting in Hip Implants. *PLoS One.* 2016; 11: e0155612. pmid:27195789
 - ✓ View ArticlePubMed/NCBIScholar
- ✓ 11.Mellon SJ, Grammatopoulos G, Andersen MS, Pandit HG, Gill HS, Murray DW. Optimal acetabular component orientation estimated using edge-loading and impingement risk in patients with metal-on-metal hip resurfacing arthroplasty. *Journal of Biomechanics.* 2015; 48: 318–323. pmid:25482661
 - ✓ View ArticlePubMed/NCBIScholar
- ✓ 12.Pierrepon JW, Stambouzou CZ, Miles BP, O'Connor PB, Walter L, Ellis A, et al. Patient Specific Component Alignment in Total Hip Arthroplasty. *JISRF.* 2016; 6.
 - ✓ View ArticleGoogle Scholar
- ✓ 13.Stops A, Wilcox R, Jin Z. Computational modelling of the natural hip: a review of finite element and multibody simulations. *Comput Methods Biomed Engin.* 2012; 15: 963–979. pmid:21574077
 - ✓ View ArticlePubMed/NCBIScholar
- ✓ 14.Eschweiler J, Fieten L, Dell'Anna J, Kabir K, Gravius S, Tingart M, et al. Application and evaluation of biomechanical models and scores for the planning of total hip arthroplasty. *Proc Inst Mech Eng H.* 2012; 226: 955–967. pmid:23636959
 - ✓ View ArticlePubMed/NCBIScholar
- ✓ 15.Kinney AL, Besier TF, D'Lima DD, Fregly BJ. Update on grand challenge competition to predict in vivo knee loads. *J Biomech Eng.* 2013; 135: 21012. pmid:23445057
 - ✓ View ArticlePubMed/NCBIScholar
- ✓ 16.Hicks JL, Uchida TK, Seth A, Rajagopal A, Delp SL. Is my model good enough? Best practices for verification and validation of musculoskeletal models and simulations of movement. *J Biomech Eng.* 2015; 137: 20905. pmid:25474098
 - ✓ View ArticlePubMed/NCBIScholar

- ✓ 17.Damm P, Graichen F, Rohlmann A, Bender A, Bergmann G. Total hip joint prosthesis for in vivo measurement of forces and moments. *Med Eng Phys.* 2010; 32: 95–100. pmid:19889565
✓ View ArticlePubMed/NCBIScholar
- ✓ 18.Heller MO, Bergmann G, Deuretzbacher G, Dürselen L, Pohl M, Claes L, et al. Musculoskeletal loading conditions at the hip during walking and stair climbing. *Journal of Biomechanics.* 2001; 34: 883–893. pmid:11410172
✓ View ArticlePubMed/NCBIScholar
- ✓ 19.Stansfield BW, Nicol AC, Paul JP, Kelly IG, Graichen F, Bergmann G. Direct comparison of calculated hip joint contact forces with those measured using instrumented implants. An evaluation of a three-dimensional mathematical model of the lower limb. *Journal of Biomechanics.* 2003; 36: 929–936. pmid:12757801
✓ View ArticlePubMed/NCBIScholar
- ✓ 20.Modenese L, Phillips ATM, Bull AMJ. An open source lower limb model: Hip joint validation. *Journal of Biomechanics.* 2011; 44: 2185–2193. pmid:21742331
✓ View ArticlePubMed/NCBIScholar
- ✓ 21.Zhang X, Chen Z, Wang L, Yang W, Li D, Jin Z. Prediction of hip joint load and translation using musculoskeletal modelling with force-dependent kinematics and experimental validation. *Proc Inst Mech Eng H.* 2015; 229: 477–490. pmid:26063118
✓ View ArticlePubMed/NCBIScholar
- ✓ 22.Bergmann G, Deuretzbacher G, Heller M, Graichen F, Rohlmann A, Strauss J, et al. Hip contact forces and gait patterns from routine activities. *Journal of Biomechanics.* 2001; 34: 859–871. pmid:11410170
✓ View ArticlePubMed/NCBIScholar
- ✓ 23.Morlock M, Schneider E, Bluhm A, Vollmer M, Bergmann G, Müller V, et al. Duration and frequency of every day activities in total hip patients. *Journal of Biomechanics.* 2001; 34: 873–881. pmid:11410171
✓ View ArticlePubMed/NCBIScholar
- ✓ 24.Babisch J, Layher F, Ritter B, Venbrocks RA. Computer-assisted Biomechanically Based Two-dimensional Planning of Hip Surgery. *Translation from Orthopädische Praxis.* 2001; 37.
✓ View ArticleGoogle Scholar
- ✓ 25.Babisch J, Layher F, Venbrocks RA. Computer-Assisted Planning and Navigation of Total Hip Arthroplasty Using the Navitrack and mediCAD System. In: Stiehl JB, Konermann WH, Haaker RG, editors. *Navigation and robotics in total joint and spine surgery.* Berlin, Heidelberg: Springer; 2013. pp. 82–89. https://doi.org/10.1007/978-3-642-59290-4_10
- ✓ 26.Johnston RC, Brand RA, Crowninshield RD. Reconstruction of the hip. A mathematical approach to determine optimum geometric relationships. *J Bone Joint Surg Am.* 1979; 61: 639–652. pmid:457709
✓ View ArticlePubMed/NCBIScholar
- ✓ 27.Bonnin MP, Archbold PHA, Basiglini L, Selmi TA, Beverland DE. Should the acetabular cup be medialised in total hip arthroplasty. *Hip Int.* 2011; 21: 428–435. pmid:21818743
✓ View ArticlePubMed/NCBIScholar
- ✓ 28.Winter DA. *Biomechanics and motor control of human movement.* 4th ed. New York, N.Y. [etc.]: Wiley; 2009.

- ✓ 29. Damsgaard M, Rasmussen J, Christensen ST, Surma E, de Zee M. Analysis of musculoskeletal systems in the AnyBody Modeling System. *Simulation Modelling Practice and Theory*. 2006; 14: 1100–1111.
✓ View ArticleGoogle Scholar
- ✓ 30. Crowninshield RD, Brand RA. A physiologically based criterion of muscle force prediction in locomotion. *Journal of Biomechanics*. 1981; 14: 793–801. pmid:7334039
✓ View ArticlePubMed/NCBI Google Scholar
- ✓ 31. Della Valle AG, Padgett DE, Salvati EA. Preoperative planning for primary total hip arthroplasty. *J Am AcadOrthop Surg* 2005;13:455–462. [PubMed] [Google Scholar]
- ✓ 32. Scheerlinck T. Primary hip arthroplasty templating on standard radiographs: a stepwise approach. *Acta OrthopBelg* 2010;76:432–442. [PubMed] [Google Scholar]
- ✓ 33. Knight JL, Atwater RD. Preoperative planning for total hip arthroplasty: quantitating its utility and precision. *J Arthroplasty* 1992;7:403–409. [PubMed] [Google Scholar]
- ✓ 34. Conn KS, Clarke MT, Hallett JP. A simple guide to determine the magnification of radiographs and to improve the accuracy of preoperative templating. *J Bone Joint Surg Br* 2002;84:269–272. [PubMed] [Google Scholar]
- ✓ 35. Yoon YS, Hodgson AJ, Tonetti J, Masri BA, Duncan CP. Resolving inconsistencies in defining the target orientation for the acetabular cup angles in total hip arthroplasty. *Clin Biomech (Bristol, Avon)* 2008;23:253–259. [PubMed] [Google Scholar]
- ✓ 36. Petretta R, Strelzow J, Ohly NE, Misur P, Masri BA. Acetate templating on digital images is more accurate than computer-based templating for total hip arthroplasty. *Clin OrthopRelat Res* 2015;473:3752–3759. [PMC free article] [PubMed] [Google Scholar]
- ✓ 37. Stigler SK, Müller FJ, Pfau S, Zellner M, Füchtmeier B. Digital templating in total hip arthroplasty: additional anteroposterior hip view increases the accuracy. *World J Orthop* 2017;8:30–35. [PMC free article] [PubMed] [Google Scholar]
- ✓ 38. Shaarani SR, McHugh G, Collins DA. Accuracy of digital preoperative templating in 100 consecutive uncemented total hip arthroplasties: a single surgeon series. *J Arthroplasty* 2013;28:331–337. [PubMed] [Google Scholar]
- ✓ 39. Wako Y, Nakamura J, Miura M, Kawarai Y, Sugano M, Nawata K. Interobserver and intraobserver reliability of three-dimensional preoperative planning software in total hip arthroplasty. *J Arthroplasty* 2018;33:601–607. [PubMed] [Google Scholar]
- ✓ 40. Viceconti M, Lattanzi R, Antonietti B, et al. CT-based surgical planning software improves the accuracy of total hip replacement preoperative planning. *Med Eng Phys* 2003;25:371–377. [PubMed] [Google Scholar]
- ✓ 41. Osmani FA, Thakkar S, Ramme A, Elbuluk A, Wojack P, Vigdorchik JM. Variance in predicted cup size by 2-dimensional vs 3-dimensional computerized tomography-based templating in primary total hip arthroplasty. *Arthroplast Today* 2017;3:289–293. [PMC free article] [PubMed] [Google Scholar]
- ✓ 42. Kuroda K, Kabata T, Maeda T, et al. The value of computed tomography based navigation in revision total hip arthroplasty. *Int Orthop* 2014;38:711–716. [PMC free article] [PubMed] [Google Scholar]
- ✓ 43. Kanawade V, Dorr LD, Banks SA, Zhang Z, Wan Z. Precision of robotic guided instrumentation for acetabular component positioning. *J Arthroplasty* 2015;30:392–397. [PubMed] [Google Scholar]

- ✓ 44. Nakahara I, Kyo T, Kuroda Y, Miki H. Effect of improved navigation performance on the accuracy of implant placement in total hip arthroplasty with a CT-based navigation system. *J Artif Organs* 2018;21:340–347. [PubMed] [Google Scholar]
- ✓ 45. Kuroda Y, Akiyama H, Nankaku M, So K, Goto K, Matsuda S. A report on three consecutive cases using computer tomography 3D preoperative planning for conversion of arthrodesed hips to total hip replacements. *HSS J* 2015;11:76–83. [PMC free article] [PubMed] [Google Scholar]
- ✓ 46. Snijders TE, Willemsen K, van Gaalen SM, Castelein RM, Weinans H, de Gast A. Lack of consensus on optimal acetabular cup orientation because of variation in assessment methods in total hip arthroplasty: a systematic review. *Hip Int* 2019;29:41–50. [PubMed] [Google Scholar]
- ✓ 47. Rivière C, Lazić S, Villet L, Wiart Y, Muirhead Allwood S, Cobb J. Kinematic alignment technique for total hip and knee arthroplasty: the personalized implant positioning surgery. *EFORT Open Rev* 2018;3:98–105. [PMC free article] [PubMed] [Google Scholar]
- ✓ 48. Rivière C, Lazić S, Dagneaux L, Van Der Straeten C, Cobb J, Muirhead-Allwood S. Spine–hip relations in patients with hip osteoarthritis. *EFORT Open Rev* 2018;3:39–44. [PMC free article] [PubMed] [Google Scholar]
- ✓ 49. Beverland D. The transverse acetabular ligament optimizing version. *Orthopedics* 2010;33(9):631. [PubMed] [Google Scholar]
- ✓ 50. Beverland DE, O'Neill CKJ, Rutherford M, Molloy D, Hill JC. Placement of the acetabular component. *Bone Joint J* 2016;98-B:37–43. [PubMed] [Google Scholar]
- ✓ 51. Cram P, Lu X, Kates SL, Singh JA, Li Y, Wolf BR. Total knee arthroplasty volume, utilization, and outcomes among Medicare beneficiaries, 1991–2010. *JAMA* 2012;308(12):1227–1236.
- ✓ 52. Kurtz S, Ong K, Lau E, Mowat F, Halpern M. Projections of primary and revision hip and knee arthroplasty in the United States from 2005 to 2030. *J Bone Joint Surg Am* 2007;89(4):780–785.
- ✓ 53. Bozic KJ, Kurtz SM, Lau E, et al. The epidemiology of revision total knee arthroplasty in the United States. *Clin Orthop Relat Res* 2010;468(1):45–51.
- ✓ 54. Kniesel B, Konstantinidis L, Hirschmüller A, Südkamp N, Helwig P. Digital templating in total knee and hip replacement: An analysis of planning accuracy. *Int Orthop* 2014;38(4):733–739.
- ✓ 55. Belmont PJ Jr, Goodman GP, Waterman BR, Bader JO, Schoenfeld AJ. Thirty-day postoperative complications and mortality following total knee arthroplasty: Incidence and risk factors among a national sample of 15,321 patients. *J Bone Joint Surg Am* 2014;96(1):20–26.
- ✓ 56. Macaulay W, Geller JA, Brown AR, Cote LJ, Kiernan HA. Total knee arthroplasty and Parkinson disease: Enhancing outcomes and avoiding complications. *J Am Acad Orthop Surg* 2010;18(11):687–694.
- ✓ 57. Mullaji A, Shetty GM. Persistent hindfoot valgus causes lateral deviation of weightbearing axis after total knee arthroplasty. *Clin Orthop Relat Res* 2011;469(4):1154–1160.
- ✓ 58. Garbedian S, Sternheim A, Backstein D. Wound healing problems in total knee arthroplasty. *Orthopedics* 2011;34(9):e516–e518.
- ✓ 59. Gandhi R, de Beer J, Leone J, Petruccielli D, Winemaker M, Adili A. Predictive risk factors for stiff knees in total knee arthroplasty. *J Arthroplasty* 2006;21(1):46–52.
- ✓ 60. Fehring TK, Odum S, Griffin WL, Mason JB, Nadaud M. Early failures in total knee arthroplasty. *Clin Orthop Relat Res* 2001;392:315–318.
- ✓ 61. Tanzer M, Miller J. The natural history of flexion contracture in total knee arthroplasty: A prospective study. *Clin Orthop Relat Res* 1989;248:129–134.

- ✓ 62. Quah C, Swamy G, Lewis J, Kendrew J, Badhe N: Fixed flexion deformity following total knee arthroplasty: A prospective study of the natural history. *Knee* 2012;19(5):519-521.
- ✓ 63. Malo M, Vince KG: The unstable patella after total knee arthroplasty: Etiology, prevention, and management. *J Am Acad Orthop Surg* 2003;11(5):364-371.
- ✓ 64. Merican AM, Ghosh KM, Baena FR, Deehan DJ, Amis AA: Patellar thickness and lateral retinacular release affect patellofemoral kinematics in total knee arthroplasty. *Knee Surg Sports Traumatol Arthrosc* 2014;22(3):526-533.
- ✓ 64. Bae DK, Song SJ, Yoon KH, Noh JH, Moon SC: Comparative study of tibial posterior slope angle following cruciate-retaining total knee arthroplasty using one of three implants. *Int Orthop* 2012;36(4):755-760.
- ✓ 66. Singh G, Tan JH, Sng BY, Awiszus F, Lohmann CH, Nathan SS: Restoring the anatomical tibial slope and limb axis may maximise post-operative flexion in posterior-stabilised total knee replacements. *Bone Joint J* 2013;95-B(10):1354-1358

10. Exoproteza de brat comandata neuro-muscular in cazul amputatiilor de necesitate;

BIBLIOGRAFIA: comună cu subiectul/tematicanr.11

11. Exoprotezarea mainii prin dispozitive cu comanda neuro-musculară în cazul amputatiilor de necesitate

Bibliografie:

- ✓ (0) Campbell's Operative Orthopaedics, Set. Elsevier, 14th December 2020
- ✓ [1] J. L. Flaubert, C. Mason Spicer, and A. M. Jette "The Promise of Assistive Technology to Enhance Activity and Work Participation," Washington (DC): National Academies Press (US); May 2017, ISBN-13: 978-0-309-45784-2 ISBN-10: 0-309-45784-X, Editors:.
- ✓ [2] O&P Almanac. "Amputation data from community hospitals," O&P Almanac, April 2016
- ✓ [3] K. A. Raichle, M. A. Hanley, I. Molton, N. J. Kadel, K. Campbell, E. Phelps, D. Ehde, and D. G. Smith, "Prosthesis use in persons with lower- and upper-limb amputation," *Journal of Rehabilitation Research & Development*. 2008; 45(7):961-972.
- ✓ [4] National Informatics Centre, Ministry of Electronics & Information Technology, Government of India, <https://innovate.mygov.in/wp-content/uploads/2018/08/mygov1534863628147178.pdf>
- ✓ [5] L. Osborn, A. Dragomir, J. Betthauser, C. Hunt, H. Nguyen, R. Kaliki, and N. Thakor, "Prosthesis with neuromorphic multilayered e-dermis perceives touch and pain," *Science Robotics*, vol. 3, no. 19, eaat3818, 2018.
- ✓ [6] P. L. Milea, M. Dascălu, E. D. Franță, A. Barbilian, I. C. Stoica, "Tactile Feedback Experiments for Forearm Prosthesis with Myoelectric Control," *ROMJIST Volume 20, No. 2, 2017, pp. 101-114*
- ✓ [7] M. N. Nemah, O. H. Aldulaymi, C. Yee Low, and P. Ong, "A Review of Non-Invasive Haptic Feedback stimulation Techniques for Upper Extremity Prostheses", *International Journal of Integrated Engineering Vol. 11 NO. 1, 2019, pp. 299-326*

- ✓ [8] J. Huarotó, E. Suarez, H. I. Krebs, P. D. Marasco, and E. Vela, "A Soft Pneumatic Actuator as a Haptic Wearable Device for Upper Limb Amputees: Towards a Soft Robotic Liner," *IEEE Robotics and Automation Letters*, Volume: 4, Issue:1, 2019, pp. 17-24, DOI: 10.1109/LRA.2018.287437
- ✓ [9] J. Kim, et al. "Stretchable silicon nanoribbon electronics for skin prosthesis," *Nature Communications*. 2014;5:5747. DOI: 10.1038/ncomms6747.
- ✓ [10] I. Delgado-Martínez, J. Badia, A. Pascual-Font, A. Rodríguez-Baeza, and X. Navarro, "Fascicular Topography of the Human Median Nerve for Neuroprosthetic Surgery," *Front Neurosci*. 2016 Jul 1;10:286. doi: 10.3389/fnins.2016.00286. eCollection 2016.
- ✓ [11] T. S. Davis, et al. "Restoring motor control and sensory feedback in people with upper extremity amputations using arrays of 96 microelectrodes implanted in the median and ulnar nerves," *J. Neural Eng.* 13, 36001, 2016
- ✓ [12] 6V High-Power (HP) Micro Metal Gearmotors, <https://www.pololu.com/category/173/6v-high-power-hp-micro-metal-gearmotors>
- ✓ [13] DRV8838 Single Brushed DC Motor Driver Carrier, <https://www.pololu.com/product/2990>
- ✓ [14] Magnetic Encoder Pair Kit with Top-Entry Connector for Micro Metal Gearmotors, 12 CPR, 2.7-18V, <https://www.pololu.com/product-info-merged/4760>
- ✓ [15] A. Martinaitis, and K. Daunoraviciene, "Low cost self-made pressure distribution sensors for ergonomic chair: Are they suitable for posture monitoring?" *Technology and Health Care*, vol.26, nr.S2, pp.655-663, 2018
- ✓ [16] MICS-Band RF Miniaturized Standard Implant Module (MiniSIM), <https://www.microsemi.com/existing-parts/parts/137900>
- ✓ [17] ZL70103 Medical Implantable RF Transceiver, www.microsemi.com
- ✓ [18] ZL70123 MICS-Band RF Base Station Module (BSM), www.microsemi.com
- ✓ [19] A. C. Daly, D. J. Gavaghan, C. Holmes, and J. Cooper, "Hodgkin-Huxley Revisited: Reparametrization and Identifiability Analysis of the Classic Action Potential Model With Approximate Bayesian Methods," *R Soc Open Sci.* 2015 Dec 23;2(12):150499. doi: 10.1098/rsos.150499. eCollection 2015 Dec
- ✓ [1] J. L. Flaubert, C. Mason Spicer, and A. M. Jette "The Promise of Assistive Technology to Enhance Activity and Work Participation," Washington (DC): National Academies Press (US); May 2017, ISBN-13: 978-0-309-45784-2ISBN-10: 0-309-45784-X, Editors:.
- ✓ [2] O&P Almanac. "Amputation data from community hospitals," O&P Almanac, April 2016
- ✓ [3] K. A. Raichle, M. A. Hanley, I. Molton, N. J. Kadel, K. Campbell, E. Phelps, D. Ehde, and D. G. Smith, "Prostheses use in persons with lower- and upper-limb amputation," *Journal of Rehabilitation Research & Development*. 2008; 45(7):961–972.
- ✓ [4] National Informatics Centre, Ministry of Electronics & Information Technology, Government of India, <https://innovate.mygov.in/wp-content/uploads/2018/08/mygov1534863628147178.pdf>
- ✓ [5] L. Osborn, A. Dragomir, J. Betthauser, C. Hunt, H. Nguyen, R. Kaliki, and N. Thakor, "Prostheses with neuromorphic multilayered e-dermis perceives touch and pain," *Science Robotics*, vol. 3, no. 19, eaat3818, 2018.

- ✓ [6] P. L. Miléa, M. Dascălu, E. D. Franță, A. Barbilian, I. C. Stoica, "Tactile Feedback Experiments for Forearm Prosthesis with Myoelectric Control," ROMJIST Volume 20, No. 2, 2017, pp. 101-114
- ✓ [7] M. N. Nemah, O. H. Aldulaymi, C. Yee Low, and P. Ong, "A Review of Non-Invasive Haptic Feedback stimulation Techniques for Upper Extremity Prostheses", International Journal of Integrated Engineering Vol. 11 NO. 1, 2019, pp. 299-326
- ✓ [8] J. Huaroto, E. Suarez, H. I. Krebs, P. D. Marasco, and E. Vela, "A Soft Pneumatic Actuator as a Haptic Wearable Device for Upper Limb Amputees: Towards a Soft Robotic Liner," IEEE Robotics and Automation Letters, Volume: 4, Issue:1, 2019, pp. 17-24, DOI: 10.1109/LRA.2018.287437
- ✓ [9] J. Kim, et al. "Stretchable silicon nanoribbon electronics for skin prosthesis," Nature Communications. 2014;5:5747. DOI: 10.1038/ncomms6747.
- ✓ [10] I. Delgado-Martínez, J. Badia, A. Pascual-Font, A. Rodríguez-Baeza, and X. Navarro, "Fascicular Topography of the Human Median Nerve for Neuroprosthetic Surgery," Front Neurosci. 2016 Jul 1;10:286. doi: 10.3389/fnins.2016.00286. eCollection 2016.
- ✓ [11] T. S. Davis, et al. "Restoring motor control and sensory feedback in people with upper extremity amputations using arrays of 96 microelectrodes implanted in the median and ulnar nerves," J. Neural Eng. 13, 36001, 2016
- ✓ [12] 6V High-Power (HP) Micro Metal Gearmotors,
<https://www.pololu.com/category/173/6v-high-power-hp-micro-metal-gearmotors>
- ✓ [13] DRV8838 Single Brushed DC Motor Driver Carrier,
<https://www.pololu.com/product/2990>
- ✓ [14] Magnetic Encoder Pair Kit with Top-Entry Connector for Micro Metal Gearmotors, 12 CPR, 2.7-18V, <https://www.pololu.com/product-info-merged/4760>
- ✓ [15] A. Martinaitis, and K. Daunoraviciene, "Low cost self-made pressure distribution sensors for ergonomic chair: Are they suitable for posture monitoring?" Technology and Health Care, vol.26, nr.S2, pp.655-663, 2018
- ✓ [16] MICS-Band RF Miniaturized Standard Implant Module (MiniSIM),
<https://www.microsemi.com/existing-parts/part/137900>
- ✓ [17] ZL70103 Medical Implantable RF Transceiver, www.microsemi.com
- ✓ [18] ZL70123 MICS-Band RF Base Station Module (BSM), www.microsemi.com
- ✓ [19] A. C. Daly, D. J. Gavaghan, C. Holmes, and J. Cooper, "Hodgkin-Huxley Revisited: Reparametrization and Identifiability Analysis of the Classic Action Potential Model With Approximate Bayesian Methods," R Soc Open Sci. 2015 Dec 23;2(12):150499. doi: 10.1098/rsos.150499. eCollection 2015 Dec