

# Is the Segond's fracture a reliable sign of anterior cruciate ligament (ACL) tear? A case report without associated ACL rupture

European Journal of Orthopaedic Surgery & Traumatology

April 2009, Volume 19, Issue 3, pp 203–206 | Cite as

- D. Ollat (1) Email author (didier.ollat@gmail.com)
- J. P. Marchaland (1)
- L. Mathieu (1)
- O. Barbier (1)
- G. Versier (1)

1. Service de Chirurgie Orthopédique et Traumatologie, Hopital d'instruction des Armees Begin, , Saint-Mande, France

Case Report

First Online: 19 November 2008

- 197 Downloads

## Abstract

Segond's fracture is an avulsion fracture of the lateral rim of the tibial plateau. It is described as a "capsular sign" of associated anterior cruciate ligament (ACL) tears. The clinical examination of a traumatically painful knee is often difficult. For this reason the Segond's fracture is considered a helpful sign for the diagnosis of ACL ruptures. We report an uncommon case of an isolated Segond's fracture without ACL rupture (or other internal derangement) associated. With this report we have reviewed literature to know the real occurrence of the Segond's fracture with ACL tears. The question to be answered is if this lesion really is a sign of association of ACL tears. Most of the cases published are isolated and only one paper has analyzed this occurrence precisely. The scientific literature concludes that the Segond's fracture is a strong indirect sign of ACL's tear associated in injured knee.

## Keywords

Segond's fracture Knee, ligaments and menisci Knee, injuries

Anterior cruciate ligament

This is a preview of subscription content, [log in](#) to check access.

## Notes

### Conflict of interest statement

No funds were received in support of this study.

## References

1. Milch H (1936) Cortical avulsion fracture of the lateral tibial condyle. *J Bone Joint Surg* 18:159–164  
[Google Scholar](#) ([http://scholar.google.com/scholar\\_lookup?title=Cortical%20avulsion%20fracture%20of%20the%20lateral%20tibial%20condyle&author=H.%20Milch&journal=J%20Bone%20Joint%20Surg&volume=18&pages=159-164&publication\\_year=1936](http://scholar.google.com/scholar_lookup?title=Cortical%20avulsion%20fracture%20of%20the%20lateral%20tibial%20condyle&author=H.%20Milch&journal=J%20Bone%20Joint%20Surg&volume=18&pages=159-164&publication_year=1936))
2. Segond P (1879) Recherches cliniques et experimentales sur les épanchements sanguins du genou par entorse. *Prog Med* 7:297–299, 319–321, 340–341  
[Google Scholar](#) ([http://scholar.google.com/scholar\\_lookup?title=Recherches%20cliniques%20et%20experimentales%20sur%20les%20%C3%A9panchements%20sanguins%20du%20genou%20par%20entorse&author=P.%20Segond&journal=Prog%20Med&volume=7&pages=297-299&publication\\_year=1879](http://scholar.google.com/scholar_lookup?title=Recherches%20cliniques%20et%20experimentales%20sur%20les%20%C3%A9panchements%20sanguins%20du%20genou%20par%20entorse&author=P.%20Segond&journal=Prog%20Med&volume=7&pages=297-299&publication_year=1879))
3. Scharf W, Schabus R, Wagner M (1981) Lateral capsular sign. X-ray clue to the anterolateral rotatory instability of the knee (author's transl). *Unfallheilkunde* 84(12):518–523  
[PubMed](#) ([http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list\\_uids=6895677](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=6895677))  
[Google Scholar](#) ([http://scholar.google.com/scholar\\_lookup?title=Lateral%20capsular%20sign.%20X-ray%20clue%20to%20the%20anterolateral%20rotatory%20instability%20of%20the%20knee%20%28author%E2%80%99s%20transl%29&author=W.%20Scharf&author=R.%20Schabus&author=M.%20Wagner&journal=Unfallheilkunde&volume=84&issue=12&pages=518-523&publication\\_year=1981](http://scholar.google.com/scholar_lookup?title=Lateral%20capsular%20sign.%20X-ray%20clue%20to%20the%20anterolateral%20rotatory%20instability%20of%20the%20knee%20%28author%E2%80%99s%20transl%29&author=W.%20Scharf&author=R.%20Schabus&author=M.%20Wagner&journal=Unfallheilkunde&volume=84&issue=12&pages=518-523&publication_year=1981))
4. Dietz GW, Wilcox DM, Montgomery JB (1986) Segond tibial condyle fracture: lateral capsular ligament avulsion. *Radiology* 159(2):467–469  
[PubMed](#) ([http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list\\_uids=3961179](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=3961179))  
[Google Scholar](#) ([http://scholar.google.com/scholar\\_lookup?title=Segond%20tibial%20condyle%20fracture%3A%20lateral%20capsular%20ligament%20avulsion&author=GW.%20Dietz&author=DM.%20Wilcox&author=JB.%20Montgomery&journal=Radiology&volume=159&issue=2&pages=467-469&publication\\_year=1986](http://scholar.google.com/scholar_lookup?title=Segond%20tibial%20condyle%20fracture%3A%20lateral%20capsular%20ligament%20avulsion&author=GW.%20Dietz&author=DM.%20Wilcox&author=JB.%20Montgomery&journal=Radiology&volume=159&issue=2&pages=467-469&publication_year=1986))

5. Irvine GB, Dias JJ, Finlay DB (1987) Segond fractures of the lateral tibial condyle: brief report. *J Bone Joint Surg Br* 69(4):613–614  
[PubMed](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=3611168) (http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list\_uids=3611168)  
[Google Scholar](http://scholar.google.com/scholar_lookup?title=Segond%20fractures%20of%20the%20lateral%20tibial%20condyle%3A%20brief%20report&author=GB.%20Irvine&author=JJ.%20Dias&author=DB.%20Finlay&journal=J%20Bone%20Joint%20Surg%20Br&volume=69&issue=4&pages=613-614&publication_year=1987) (http://scholar.google.com/scholar\_lookup?title=Segond%20fractures%20of%20the%20lateral%20tibial%20condyle%3A%20brief%20report&author=GB.%20Irvine&author=JJ.%20Dias&author=DB.%20Finlay&journal=J%20Bone%20Joint%20Surg%20Br&volume=69&issue=4&pages=613-614&publication\_year=1987)
6. Goldman AB, Pavlov H, Rubenstein D (1988) The Segond fracture of the proximal tibia: a small avulsion that reflects major ligamentous damage. *AJR Am J Roentgenol* 151(6):1163–1167  
[PubMed](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=3263770) (http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list\_uids=3263770)  
[Google Scholar](http://scholar.google.com/scholar_lookup?title=The%20Segond%20fracture%20of%20the%20proximal%20tibia%3A%20a%20small%20avulsion%20that%20reflects%20major%20ligamentous%20damage&author=AB.%20Goldman&author=H.%20Pavlov&author=D.%20Rubenstein&journal=AJR%20Am%20J%20Roentgenol&volume=151&issue=6&pages=1163-1167&publication_year=1988) (http://scholar.google.com/scholar\_lookup?title=The%20Segond%20fracture%20of%20the%20proximal%20tibia%3A%20a%20small%20avulsion%20that%20reflects%20major%20ligamentous%20damage&author=AB.%20Goldman&author=H.%20Pavlov&author=D.%20Rubenstein&journal=AJR%20Am%20J%20Roentgenol&volume=151&issue=6&pages=1163-1167&publication\_year=1988)
7. Kerr HD (1990) Segond fracture, hemarthrosis, and anterior cruciate ligament disruption. *J Emerg Med* 8(1):29–33  
[PubMed](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=2351796) (http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list\_uids=2351796)  
[CrossRef](https://doi.org/10.1016/0736-4679(90)90383-7) (https://doi.org/10.1016/0736-4679(90)90383-7)  
[Google Scholar](http://scholar.google.com/scholar_lookup?title=Segond%20fracture%2C%20hemarthrosis%2C%20and%20anterior%20cruciate%20ligament%20disruption&author=HD.%20Kerr&journal=J%20Emerg%20Med&volume=8&issue=1&pages=29-33&publication_year=1990) (http://scholar.google.com/scholar\_lookup?title=Segond%20fracture%2C%20hemarthrosis%2C%20and%20anterior%20cruciate%20ligament%20disruption&author=HD.%20Kerr&journal=J%20Emerg%20Med&volume=8&issue=1&pages=29-33&publication\_year=1990)
8. Weber WN, Neumann CH, Barakos JA, Petersen SA, Steinbach LS, Genant HK (1991) Lateral tibial rim (Segond) fractures: MR imaging characteristics. *Radiology* 180(3):731–734  
[PubMed](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=1871286) (http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list\_uids=1871286)  
[Google Scholar](http://scholar.google.com/scholar_lookup?title=Lateral%20tibial%20rim%20%28Segond%29%20fractures%3A%20MR%20imaging%20characteristics&author=WN.%20Weber&author=CH.%20Neumann&author=JA.%20Barakos&author=SA.%20Petersen&author=LS.%20Steinbach&author=HK.%20Genant&journal=Radiology&volume=180&issue=3&pages=731-734&publication_year=1991) (http://scholar.google.com/scholar\_lookup?title=Lateral%20tibial%20rim%20%28Segond%29%20fractures%3A%20MR%20imaging%20characteristics&author=WN.%20Weber&author=CH.%20Neumann&author=JA.%20Barakos&author=SA.%20Petersen&author=LS.%20Steinbach&author=HK.%20Genant&journal=Radiology&volume=180&issue=3&pages=731-734&publication\_year=1991)
9. Ligny Y, Roubas A, Chevalier L (1996) Lésion du ligament croisé antérieur et fracture de Segond. *Ann Réadaptation Méd Phys* 39:51–53  
[CrossRef](https://doi.org/10.1016/0168-6054(96)88051-2) (https://doi.org/10.1016/0168-6054(96)88051-2)  
[Google Scholar](http://scholar.google.com/scholar_lookup?title=L%3A%20lésion%20du%20ligament%20croisé%3A%20ant%3A%20érieur%20et%20fracture%20de%20Segond&author=Y.%20Ligny&author=A.%20Roubas&author=L.%20Chevalier&journal=Ann%20R%3A%20adaptation%20M%3A%20Phys&volume=39&pages=51-) (http://scholar.google.com/scholar\_lookup?title=L%3A%20lésion%20du%20ligament%20croisé%3A%20ant%3A%20érieur%20et%20fracture%20de%20Segond&author=Y.%20Ligny&author=A.%20Roubas&author=L.%20Chevalier&journal=Ann%20R%3A%20adaptation%20M%3A%20Phys&volume=39&pages=51-

53&publication\_year=1996)

10. Andersen KH, Winge S (1998) Segond fracture in acute knee injuries. *Ugeskr Laeger* 160(24):3567–3568  
[PubMed](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=9641045) (http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list\_uids=9641045)  
[Google Scholar](http://scholar.google.com/scholar_lookup?title=Segond%20fracture%20in%20acute%20knee%20injuries&author=K.H.%20Andersen&author=S.%20Winge&journal=Ugeskr%20Laeger&volume=160&issue=24&pages=3567-3568&publication_year=1998) (http://scholar.google.com/scholar\_lookup?title=Segond%20fracture%20in%20acute%20knee%20injuries&author=K.H.%20Andersen&author=S.%20Winge&journal=Ugeskr%20Laeger&volume=160&issue=24&pages=3567-3568&publication\_year=1998)
11. Olree M, van Gils AP (2001) Diagnostic image (33). Segond fracture with anterior cruciate ligament rupture. *Ned Tijdschr Geneesk* 145(15):740  
[PubMed](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=11332257) (http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list\_uids=11332257)  
[Google Scholar](http://scholar.google.com/scholar_lookup?title=Diagnostic%20image%20%2833%29.%20Segond%20fracture%20with%20anterior%20cruciate%20ligament%20rupture&author=M.%20Olree&author=AP.%20Gils&journal=Ned%20Tijdschr%20Geneesk&volume=145&issue=15&pages=740&publication_year=2001) (http://scholar.google.com/scholar\_lookup?title=Diagnostic%20image%20%2833%29.%20Segond%20fracture%20with%20anterior%20cruciate%20ligament%20rupture&author=M.%20Olree&author=AP.%20Gils&journal=Ned%20Tijdschr%20Geneesk&volume=145&issue=15&pages=740&publication\_year=2001)
12. Campos JC, Chung CB, Lektrakul N, Pedowitz R, Trudell D, Yu J, Resnick D (2001) Pathogenesis of the Segond fracture: anatomic and MR imaging evidence of an iliotibial tract or anterior oblique band avulsion. *Radiology* 219(2):381–386  
[PubMed](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=11323461) (http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list\_uids=11323461)  
[Google Scholar](http://scholar.google.com/scholar_lookup?title=Pathogenesis%20of%20the%20Segond%20fracture%3A%20anatomic%20and%20MR%20imaging%20evidence%20of%20an%20iliotibial%20tract%20or%20anterior%20oblique%20band%20avulsion&author=JC.%20Campos&author=CB.%20Chung&author=N.%20Lektrakul&author=R.%20Pedowitz&author=D.%20Trudell&author=J.%20Yu&author=D.%20Resnick&journal=Radiology&volume=219&issue=2&pages=381-386&publication_year=2001) (http://scholar.google.com/scholar\_lookup?title=Pathogenesis%20of%20the%20Segond%20fracture%3A%20anatomic%20and%20MR%20imaging%20evidence%20of%20an%20iliotibial%20tract%20or%20anterior%20oblique%20band%20avulsion&author=JC.%20Campos&author=CB.%20Chung&author=N.%20Lektrakul&author=R.%20Pedowitz&author=D.%20Trudell&author=J.%20Yu&author=D.%20Resnick&journal=Radiology&volume=219&issue=2&pages=381-386&publication\_year=2001)
13. Sferopoulos NK, Rafailidis D, Traios S, Christoforides J (2006) Avulsion fractures of the lateral tibial condyle in children. *Injury* 37(1):57–60  
[PubMed](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=16246341) (http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list\_uids=16246341)  
[CrossRef](https://doi.org/10.1016/j.injury.2005.05.021) (https://doi.org/10.1016/j.injury.2005.05.021)  
[Google Scholar](http://scholar.google.com/scholar_lookup?title=Avulsion%20fractures%20of%20the%20lateral%20tibial%20condyle%20in%20children&author=NK.%20Sferopoulos&author=D.%20Rafailidis&author=S.%20Traios&author=J.%20Christoforides&journal=Injury&volume=37&issue=1&pages=57-60&publication_year=2006) (http://scholar.google.com/scholar\_lookup?title=Avulsion%20fractures%20of%20the%20lateral%20tibial%20condyle%20in%20children&author=NK.%20Sferopoulos&author=D.%20Rafailidis&author=S.%20Traios&author=J.%20Christoforides&journal=Injury&volume=37&issue=1&pages=57-60&publication\_year=2006)
14. Bathala EA, Bancroft LW, Ortiguera CJ, Peterson JJ (2007) Radiologic case study. Segond fracture. *Orthopedics* 30(9):689, 797–798  
[Google Scholar](http://scholar.google.com/scholar_lookup?title=Radiologic%20case%20study&author=EA.%20Bathala&author=LW.%20Bancroft&author=CJ.%20Ortiguera&author=JJ.%20Peterson&journal=Segond%20fracture.%20Orthopedics&volume=30&issue=9&pages=689-798&publication_year=2007) (http://scholar.google.com/scholar\_lookup?title=Radiologic%20case%20study&author=EA.%20Bathala&author=LW.%20Bancroft&author=CJ.%20Ortiguera&author=JJ.%20Peterson&journal=Segond%20fracture.%20Orthopedics&volume=30&issue=9&pages=689-798&publication\_year=2007)

15. Hess T, Rupp S, Hopf T, Gleitz M, Liebler J (1994) Lateral tibial avulsion fractures and disruptions to the anterior cruciate ligament. A clinical study of their incidence and correlation. *Clin Orthop Relat Res* 6(303):193–197  
[Google Scholar](http://scholar.google.com/scholar_lookup?title=Lateral%20tibial%20avulsion%20fractures%20and%20disruptions%20to%20the%20anterior%20cruciate%20ligament.%20A%20clinical%20study%20of%20their%20incidence%20and%20correlation&author=T.%20Hess&author=S.%20Rupp&author=T.%20Hopf&author=M.%20Gleitz&author=J.%20Liebler&journal=Clin%20Orthop%20Relat%20Res&volume=6&issue=303&pages=193-197&publication_year=1994) ([http://scholar.google.com/scholar\\_lookup?title=Lateral%20tibial%20avulsion%20fractures%20and%20disruptions%20to%20the%20anterior%20cruciate%20ligament.%20A%20clinical%20study%20of%20their%20incidence%20and%20correlation&author=T.%20Hess&author=S.%20Rupp&author=T.%20Hopf&author=M.%20Gleitz&author=J.%20Liebler&journal=Clin%20Orthop%20Relat%20Res&volume=6&issue=303&pages=193-197&publication\\_year=1994](http://scholar.google.com/scholar_lookup?title=Lateral%20tibial%20avulsion%20fractures%20and%20disruptions%20to%20the%20anterior%20cruciate%20ligament.%20A%20clinical%20study%20of%20their%20incidence%20and%20correlation&author=T.%20Hess&author=S.%20Rupp&author=T.%20Hopf&author=M.%20Gleitz&author=J.%20Liebler&journal=Clin%20Orthop%20Relat%20Res&volume=6&issue=303&pages=193-197&publication_year=1994))
16. Bock GW, Bosch E, Mishra DK, Daniel DM, Resnick D (1994) The healed Segond fracture: a characteristic residual bone excrescence. *Skeletal Radiol* 23(7):555–556  
[PubMed](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=7824986) ([http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list\\_uids=7824986](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=7824986))  
[CrossRef](https://doi.org/10.1007/BF00223090) (<https://doi.org/10.1007/BF00223090>)  
[Google Scholar](http://scholar.google.com/scholar_lookup?title=The%20healed%20Segond%20fracture%3A%20a%20characteristic%20residual%20bone%20excrescence&author=GW.%20Bock&author=E.%20Bosch&author=DK.%20Mishra&author=DM.%20Daniel&author=D.%20Resnick&journal=Skeletal%20Radiol&volume=23&issue=7&pages=555-556&publication_year=1994) ([http://scholar.google.com/scholar\\_lookup?title=The%20healed%20Segond%20fracture%3A%20a%20characteristic%20residual%20bone%20excrescence&author=GW.%20Bock&author=E.%20Bosch&author=DK.%20Mishra&author=DM.%20Daniel&author=D.%20Resnick&journal=Skeletal%20Radiol&volume=23&issue=7&pages=555-556&publication\\_year=1994](http://scholar.google.com/scholar_lookup?title=The%20healed%20Segond%20fracture%3A%20a%20characteristic%20residual%20bone%20excrescence&author=GW.%20Bock&author=E.%20Bosch&author=DK.%20Mishra&author=DM.%20Daniel&author=D.%20Resnick&journal=Skeletal%20Radiol&volume=23&issue=7&pages=555-556&publication_year=1994))
17. Woods GW, Stanley RF, Tullos HS (1979) Lateral capsular sign: x-ray clue to a significant knee instability. *Am J Sports Med* 7(1):27–33  
[PubMed](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=420385) ([http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list\\_uids=420385](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=420385))  
[CrossRef](https://doi.org/10.1177/036354657900700107) (<https://doi.org/10.1177/036354657900700107>)  
[Google Scholar](http://scholar.google.com/scholar_lookup?title=Lateral%20capsular%20sign%3A%20x-ray%20clue%20to%20a%20significant%20knee%20instability&author=G.W.%20Woods&author=RF.%20Stanley&author=HS.%20Tullos&journal=Am%20J%20Sports%20Med&volume=7&issue=1&pages=27-33&publication_year=1979) ([http://scholar.google.com/scholar\\_lookup?title=Lateral%20capsular%20sign%3A%20x-ray%20clue%20to%20a%20significant%20knee%20instability&author=G.W.%20Woods&author=RF.%20Stanley&author=HS.%20Tullos&journal=Am%20J%20Sports%20Med&volume=7&issue=1&pages=27-33&publication\\_year=1979](http://scholar.google.com/scholar_lookup?title=Lateral%20capsular%20sign%3A%20x-ray%20clue%20to%20a%20significant%20knee%20instability&author=G.W.%20Woods&author=RF.%20Stanley&author=HS.%20Tullos&journal=Am%20J%20Sports%20Med&volume=7&issue=1&pages=27-33&publication_year=1979))
18. Norwood LA Jr, Andrews JR, Meisterling RC, Glancy GL (1979) Acute anterolateral rotatory instability of the knee. *J Bone Joint Surg Am* 61(5):704–749  
[PubMed](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=582318) ([http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list\\_uids=582318](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=582318))  
[Google Scholar](http://scholar.google.com/scholar_lookup?title=Acute%20anterolateral%20rotatory%20instability%20of%20the%20knee&author=LA.%20Norwood&author=JR.%20Andrews&author=RC.%20Meisterling&author=GL.%20Glancy&journal=J%20Bone%20Joint%20Surg%20Am&volume=61&issue=5&pages=704-749&publication_year=1979) ([http://scholar.google.com/scholar\\_lookup?title=Acute%20anterolateral%20rotatory%20instability%20of%20the%20knee&author=LA.%20Norwood&author=JR.%20Andrews&author=RC.%20Meisterling&author=GL.%20Glancy&journal=J%20Bone%20Joint%20Surg%20Am&volume=61&issue=5&pages=704-749&publication\\_year=1979](http://scholar.google.com/scholar_lookup?title=Acute%20anterolateral%20rotatory%20instability%20of%20the%20knee&author=LA.%20Norwood&author=JR.%20Andrews&author=RC.%20Meisterling&author=GL.%20Glancy&journal=J%20Bone%20Joint%20Surg%20Am&volume=61&issue=5&pages=704-749&publication_year=1979))
19. DeLee J, Riley M, Rockwood C (1983) Acute straight lateral instability of the knee. *Am J Sports Med* 11:404–411  
[PubMed](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=6650718) ([http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list\\_uids=6650718](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=6650718))  
[CrossRef](https://doi.org/10.1177/036354658301100605) (<https://doi.org/10.1177/036354658301100605>)

[Google Scholar](http://scholar.google.com/scholar_lookup?title=Acute%20straight%20lateral%20instability%20of%20the%20knee&author=J.%20DeLee&author=M.%20Riley&author=C.%20Rockwood&journal=Am%20J%20Sports%20Med&volume=11&pages=404-411&publication_year=1983) ([http://scholar.google.com/scholar\\_lookup?title=Acute%20straight%20lateral%20instability%20of%20the%20knee&author=J.%20DeLee&author=M.%20Riley&author=C.%20Rockwood&journal=Am%20J%20Sports%20Med&volume=11&pages=404-411&publication\\_year=1983](http://scholar.google.com/scholar_lookup?title=Acute%20straight%20lateral%20instability%20of%20the%20knee&author=J.%20DeLee&author=M.%20Riley&author=C.%20Rockwood&journal=Am%20J%20Sports%20Med&volume=11&pages=404-411&publication_year=1983))

## Copyright information

© Springer-Verlag 2008

## About this article

Cite this article as:

Ollat, D., Marchaland, J.P., Mathieu, L. et al. Eur J Orthop Surg Traumatol (2009) 19: 203.  
<https://doi.org/10.1007/s00590-008-0395-5>

- Received 06 October 2008
- Accepted 30 October 2008
- First Online 19 November 2008
- DOI <https://doi.org/10.1007/s00590-008-0395-5>
- Publisher Name Springer-Verlag
- Print ISSN 1633-8065
- Online ISSN 1432-1068
- [About this journal](#)
- [Reprints and Permissions](#)

## Personalised recommendations

1. [Reverse Segond Fracture Associated with Anteromedial Tibial Rim and Tibial Attachment of Anterior Cruciate Ligament Avulsion Fractures](#)  
Bedeir, Yehia H.  
*Case Reports in Orthopedics* (2017)
2. [The Influence of Segond Fracture on Outcomes After Anterior Cruciate Ligament Reconstruction](#)  
Yoon, Kyoung Ho... Park, Sang Eon  
*Arthroscopy: The Journal of Arthroscopic & Related Surgery* (2018)

We use cookies to personalise content and ads, to provide social media features and to analyse our traffic. We also share information about your use of our site with our social media, advertising and analytics partners in accordance with our Privacy Statement. You can manage your preferences in Manage Cookies.

[> Manage Cookies](#)

✓ OK