

REFERENCES

- Albright, J.S.; Johnson, T.R. and Saha, S. (1978):**
 Principles of internal fixation. In Gtlista, D.N., and Root, R.^F
 (eds) : Orthopaedic Mechanics : procedures and Devices,
 [PP. 124 - 222. New York, Academic Press].
- Allen, W.C.; Heiple, K.G. and Burstein, A.H. (1978):**
 A fluted femoral intramedullary Rod.
 [J. Bone and Joint Surg. 60 A : 506 - 515].
- Allen, W.C.; Piotrowski, G.; Burstein, A.H. and Frankel, W.H. (1968):**¹⁹⁸⁶
 Biomechanical principles of Intramedullary Fixation.
 [Clinical Orthop, 60 : 13 - 20].
- Alonso, J.; Geissler, W. and Hughers, J.L. (1989):**
 External fixation of femoral fractures. Indications and limitations.
 [Clin. Orthop. 241 : 83 - 88].
- Anderson, J.T. and Gustiol, R.B. (1980):**
 Immediate internal fixation in open fractures.
 [Orthop. Clin. North. Am., 11 (3) : 569 - 578].
- Anderson, R.L. (1967):**
 Conservative treatment of fractures of the femur.
 [J. Bone Joint Surg. 49 - A, 1371].
- Bach, A.W. and Hansen, S.T. Jr. (1989):**
 Plate versus external fixation in severe open tibial shaft fractures.
 [Clin. Orthopl., 241 : 89 - 94].
- Bassett, C.A.; Mitchell, S.N. and Gaston, S.R. (1982):**
 Pulsating electro - magnetic fields treatment in un - united
 fractures and failed arthrodesis.
 [JAMA, 247, pp. 623].
- Beals, N.; Durham, G. and Lynch, G. (1988) :**
 Mechanical characterizations of interlocking intramedullary
 Nails.
 [Material Research Report ML - 88 - 38, Richards Medical
 Company, Memphis, May].

Bone, L. and Bucholz, R. (1986):

The management of fractures in the patient with multiple trauma.
[J. Bone Joint. Surg. 68 A, 945].

Bone, L.; Johnson, K.; Weigelt, T. (1987):

Prospective randomized study of femoral fractures : Early versus delayed stabilization.
[Presented at American Academy of Orthop. Surgeons Annual Meeting, San. Francisco].

Bone, L.B.; Johnson, K.D.; Weigelt, J. and Scheinberg, R. (1989):

Early versus delayed stabilization of femoral fractures. A prospective randomized study.
[J. Bone and Joint. Surg. 71 - A (March 336 - 340)].

Bonney, G. (1963):

Thrombosis of the femoral artery complicating fractures of the femur. Treatment by enarterectomy.
[J. Bone and Joint surg., 45 - B, No. 2: 344 - 345].

Brookers, M.; Elkin, A.C.; Harrison, R.G. and Healed, C.B. (1961):

A new concept of capillary circulation in bone cortex.
[Lancet, May, 20, 1078 - 1081].

Brookers, M. (1971):

The blood supply of the bone,
[London, Butterworth].

Browner, B.D. (1984):

The Grosse - Khepf locking Nail.
[Contemporary Orthopaedics, 8, No. 3].

Browner, B.D.; Boyle, M.; Morvant, R. and Smith, T.K. (1984):

Grosse - Kempt nailing of unstable femoral fractures :
[Initial North American Experience. AAOS, ATLANTA].

Browner, B. (1986):

Pitfalls, Errors and complications in the use of locking kuntscher Nails.
[Clin. Orthop, 212 : 192 - 208].

Brooker, A.F., Jr. (1988):

Brooker - Wills nailing of femoral shaft fractures.
[Technique of orthopaedic, 3 : 41 - 46].

Brooker, A.F., Jr. and Brumback, R.J. (1988):

Brooker - Wills Nails in treatment of intra isthmal injuries of the femur.
[J. Trauma, 28 : 688 - 691].

Brumback, R.J.; Reilly, J.P.; Poka, A.; Lakatos, R.P.; Bathon, G.H. and Burgess, A.R. (1988):

Intramedullary Nailing of femoral shaft fractures : Part I.
Decision - Making Errors with interlocking fixation.
[J. Bone and Joint Surg. 70 - A : 1441 - 1452].

Brumback, R.J.; Uwagie - Ero, S.; Lakatos, R.P.; Poka, A.; Bathon, G.H. and Burgess, A.R. (1988) :

Intramedullary Nailing of femoral shaft fractures : Part II.
Fracture - healing with static interlocking fixation.
[J. Bone and Joint Surg., 70 - A : 1453 - 1462].

Brumback, Robert, J.; Ellison, Scott, Poka, Attila, Bathon, Howard and Burgess, Anderow, R. (1992):

"I.M. nailing of the femoral shaft fractures. Part III : Long - term effects of static interlocking fixation".
[The Journal of bone and Joint Surg. 74 - A : 106 - 111].

Brumback, Robert, J.; Ellison, Scott, Poka, Attila, Bathon, Howard and Burgess and Anderow, R. (1992) :

I.M. nailing of the femoral shaft fractures. Part III : Long - term effects of static interlocking fixation".
[The Journal of bone and Joint surg. 74 - A : 106 - 111].

Bucholz, R.W.; Ross, S.E. and Lowrance, K.L. (1987):

Fatigue factors of the interlocking nail in the treatment of fractures of distal part of the femoral shaft.
[J. Bone and Joint Surg. 69 - A : 1391 - 1399].

Chapman, M.W. and Mahoney, M. (1979):

The role of early internal fixation in the management of open fractures.
[Clinical Orthop. 138 : 120 - 131].

Chapman, M.W. (1980):

The use of immediate internal fixation in open fractures.
[Orthop. Clin. North. Am. 11 (3) : 579 - 591].

Chapman, M.W. (1982):

Closed intramedullary nailing of femoral shaft fractures.
Technique and rationale.
[Contemp. Orthop., 4 (2) : 213].

Chapman, M.W. (1986):

The role of intramedullary fixation in open fractures.
[Clin. Orthop., 212 : 26 - 34].

Cheng, T.C.Y.; Tse, P.Y.T. and Chow, Y.Y.N. (1985):

The place of the dynamic compression plate in femoral shaft fractures.
[Injury (16), 529].

Christie, J.; Court - Brown, C.; Kinnin month, A.W.G. and Howie, C.R. (1988):

Intramedullary locking nails in the management of femoral shaft fractures.
[J. Bone and Joint Surg., 70 - B. No. 2, 206 - 210].

Clawson, D.K.; Smith, R.F. and Hansen, S.T. (1971):

Closed intramedullary nailing of the femur.
[J. Bone and Joint Surg. 53 - A 681 - 692].

Connolly, J.F.; Dehne, E. and Laffette, B. (1973):

Closed Reduction and early cast - bracing ambulation in the treatment of femoral fractures. Part II. Results in 143 fracture.
[J. Bone and Joint. Surg. 55 A, 1581].

DeBastiani, G.; Aldegheri, R. and Brivio, L.R. (1984):

The treatment of fractures with dynamic axial Fixator.
[J. Bone, Joint. Surg. 66 B : 538 - 545].

Dencker, H. (1965):

Technical problems of medullary nailing. A study of 435 nailed shaft fractures of the femur.
[Acta Chir. Scand., 130, 185 - 189].

Donald, G.D. and Pope, M.H. (1985):

Designs of intramedullary nails. In concepts in intramedullary nailing edited by selingson D. Grune and stratton. Inc. First Ed. PP. 69.

Donald, G.D. and Pope, M.H. (1985):

Designs of intramedullary nails. In concepts in intramedullary nailing edited by selingson D. Grune and Stratton. Inc. First, Ed. pp. 69.

Ender, H.G. (1978):

Treatment of pertrochanteric and Subtrochanteric fractures of the femur with Ender pins. In the hip, st. Louis, Mosby - year book, Inc.

Frost, H.M. (1973):

Bone Remodelling and its Relationship to Metabolic bone Diseases, Spring field, Illinois. Charles, C. Thomas.

Grundy, M. (1970):

Fractures of the femur in pajet's disease of bone : their etiology and treatment.
[J. Bone and Joint Surg., 52 B 252].

Gustilo, R.B. and Anderson, J.T. (1976):

Prevention of infection in the treatment of one thousand and twinty - five open fractures of long bones : Retrospective and prospective analysis.
[J. Bone, Joint, Surg. (Am) 53 : 453 - 458].

Hajek, P.D.; Bicknell, J.R. and Bronson (1993):

The use of one compared with two bital screws in the treatment of femoral shaft fractures with interlocking intramedullary Nailing. A clinical and Biomechanical study.
[J. Bone & Jont, Surg. Vol., 75 - A No. 4 April, 519 - 525].

Harper, M.C. and Henstorf, J. (1986):

Fractures of the femoral neck associated with technical errors in closed intramedullary nailing of the femur.
[J. Bone and Joint Surg., 68 -A No. 4, 624 - 626].

Hegazy, O.M. (1991):

Biomechanics of Intramedullary fixation in tibial ^a sho^u fract ures.
[Personal communication].

Holst - Nielson, F. (1972):

Dynamic intramedullary osteosynthesis in fractures of the femoral shaft.
[Acta Orthop. Scand, 43 : 411 - 420].

Hooper, G.J. and Lyon, D.W. (1988):

Closed unlocked nailing for comminuted femoral fractures.
[J. Bone Joint Surg. 70 B : 619 - 621].

Hunger, T. (1982):

Die verspannung des Tibiamarknages in Knochen, Inaugural -
Dissertation University of Basel, Switzerland.

Hunter, S.G. (1982):

Deformation of femoral intramedullary nails : A clinical study.
[Clin. orthop. 171 : 83 - 86].

Johnson, K.D.; Johnston, D.W. C. and Parker, B. (1984):

Comminuted femoral shaft fractures : treatment by roller traction, cerclage wires and ^{on} on intramedullary nail, or an interlocking intramedullary nail.
[J. Bone and Joint Surg. 66 - A No. 8].

Johnson, K.D.; Johnston, D.W.C. and Parker, B. (1984):

Comminuted femoral shaft fractures : treatment by roller traction, cerclage wires and an Intramedullary nail or an interlocking intramedullary nail.
[J. Bone and Joint Surg. 66 -A, 1222].

Johnson, K.D. (1985):

Indications, Instrumentation and experience with locked tibial nails.
[Orthopedics (8) : 1377, 1383].

Johnson, K.D.; Tencer, A.F.; Blumenthal, S.; August, A. and Johnston, D.W.C. (1986):

Biomechanical performance of locked intramedullary Nail system in comminuted femoral shaft fractures.
[Clin. Orthop. 206 : 151 - 161].

- Jensen, J.S.; Johansen, J. and Morch, A. (1977):**
Middle third femoral fractures treatment with medullary Nailing or AO compression plates.
[Injury, 8 : 174 - 181].
- James, W.H.; William, C.R. and Bijan, A. (1984):**
Principles of fractures and dislocations.
[Edited by : Rockwood, C.A. and Green, D.P.; J.B. Lippincott Co. Philadelphia, London].
- Karlstrom, G.; Berg, P. and Lilliestrom, G.D. (1984):**
Interlocking intramedullary nailing of femur and Tibia.
[Acta Orthop. Scand. 55, 697-698].
- Kempf, L.; Karger, C.; Willinger, R.; Francois, J.M.; Cornet, A.; Renault, D. and Bonnel, F. (1984):**
"Locked intramedullary nailing - improvement of mechanical properties". Forth meeting of european society of Biomechanics, Davos, Switzerland, September 24 - 26.
- Kempf, I.; Grosse, A. and Beck, G. (1985):**
Closed locked intramedullary nailing : its application to comminuted fractures of the femur.
[J. Bone and Joint Surg. 67-A : 709 - 720].
- Kessler, S.B.; Hallifield, K.K.J. and Perren, S.M. (1986):**
The effect of Reaming and intramedullary fixation on fracture Healing.
[Clin. Orthop and Related REsearch. No. 212, 18 - 25].
- King, K.F. and Rush, J. (1981):**
Closed I.M. Nailing of the femoral shaft fracture : a review of 112 cases treated by the Kuntscher technique.
[J. Bone and Joint surg. 63 A, 1319].
- Klemm, K.W. and Borner, M. (1986):**
Interlocking Nailing of Complex Fractures of the femur and Tibia. [Clin. Orthop., 212 : 89 - 100].
- Klemm, K. and Borner, M. (1985):**
Interlocking Nailing. Extended scope of application for Kuntscher nails.
[The international trade Journal for medical laboratory and hospital supplies].

Kotb, S.Z. (1973):

A study in the results of early internal fixation of compound fracture shaft femur.

[A thesis for the degree of M.D. Mansoura University].

Kuntscher, G. (1968): *a*

The intramedullary nailing of fractures.

[Clinical Orthop., 60 : 5 - 12].

Lafollett, B.; Griffith, T.; Roach, J. and Alberston, C. (1974):

Management of femoral shaft fractures in a cast - brace with immediate ambulation.

[American Academy of orthop. Surg. Scientific. Exhibit, San. Francisco].

Laing, P.G. (1953):

The blood supply of the femoral shaft. An anatomical study.

[J. Bone and Joint Surg., 35 - B No. 3, 462 - 466].

Lam, S.J. (1964):

The place of delayed internal fixation in the treatment of fractures of long bones.

[J. Bone, Joint. Surg., 46 B : pp, 393].

Last, R.J. (1984):

Anatomy Regional and applied. Seventh Edition. The English language book society and churchill living stone.

Levin, P.E.; Schoen, R.W.; Jr. and Browner, D.M. (1987):

Radiation Exposure to the surgeon during closed interlocking Nailing.

[J. Bone and Joint Surgery, 69 A : 761 - 766].

Levine, A.; Taylor, Russell, T.A. and Lavelle, D.G. (1989):

The treatment of metastatic lesions of the femur with locked intramedullary rod fixation. Presented at AAOS.

Linder, H.H. (1989):

Clinical anatomy. A LANGE medical book.

Prentice - Hall International Inc. pp. 593.

Luthi, U. (1981):

Auflageflächen von Osteosynthese platten und intrakortikale Durchblutungsstörung.

Inaugural - Dissertation University of Basel, Switzerland.

McLover, J.; Ross, P.; Landry, G. and Davis, L. (1984):

- Treatment of femoral fractures with the cast brace.
[Can. J. Surg., 27 : 592 - 594].

Meggitt, B.; Juett, D.; Smith, J.D. (1981):

Cast - bracing for fractures of the femoral shaft.
[J. Bone. Joint - Surg. 63 B : 12].

Merck, H.; Schulze, S. and Laren, E. (1988):

Metastasis size in pathologic femoral fractures.
[Acta. Orthop. Scand. 59 : 151 - 154].

Mladi, Scott and Lombert, Ricky (1992):

"Mechanical testing of IM Nail samples Made of various materials".

[Smith and Nephew Richards orthopaedic research report, OR - 92 - 104].

Molster, A.O.; Gjerdet, N.R.; Alho, A. and Bang, G. (1983):

Fractures healing after rigid intramedullary nailing in rats.
[Acta orthop. Scand. 54, 366 - 373].

Molster, A.O. (1986):

Bio-mechanical Effects of intramedullary Reaming and Nailing on Intact Femora in Rats.
[Clin. Orthop., 202 : 278 - 285].

Molster, A.O. (1984):

Effects of Rotational instability on Healing of femoral osteotomies in Rats.
[Acta Orthop. Scand., 55 : 636, 1984].

Mooney, V. and Claudi, B. (1984):

Fractures of the shaft of the femur. In : Fractures.
[Edited by : Rockwood, C.A. and Green, D.L.P., J.B. Lippincott, Co. Philadelphia, London].

Muller, M.E.; Allgower, M. and Scheneider, R. (1991):

Manual of internal fixation.

[Springer - verlag Berlin Heidelberg New York Third Ed].

Murphy, C.P.; D'Ambrosia, R.D.; Dabezies, E.J.; Acker, J.H.; Shoji, H. and Chuinard, R.G. (1988):

Complex femur fractures : Treatment with the ^Wagner External Fixation Device or the Grosse - Kempf interlocking Nail.

[J. Trauma, 28 : 1553 - 1561].

Olerud, S. and Stromberg, L. (1986):

Intramedullary Reaming and nailing: Its early Effects on Cortical bone Vascularization.

[Orthopaedics, 9 : 1204 - 1208].

Owen, M.; Melick, R. and Triffit, J. (1972):

Plasma proteins and bone tissue fluid. Ninth European symposium on calcified Tissues.

[Abstracts. Vienna. Verlag der Wiener Medizinischen Akademie].

Reinders, J. and Mockwitz, J. (1984):

Technical faults and Complications in interlocking nailing of femoral and tibial fractures.

[Acta Orthop. Belg, Tome 50, Fasc. 5, 577 - 590].

Rhineland, F.W. (1980):

 Vascular proliferation and Blood supply during fracture Healing. In Unthoff, H.K. (ed). current concepts of internal fixation of fractures. New York, Springer - Verlag.

Rhineland, F.W. (1968):

^o The normal microcirculation of diaphyseal cortex and its response to fracture.

[J. Bone and Joint Surg., 50 A 784 - 800].

Robert, B.A. and Provan, J.L. (1965):

^A Late thrombosis of femoral artery complicating fracture of the femur.

[J. Bone and Joint Surg. 47 A, 510 - 513].

Riska, E.B.; Von Bonsdorff, H.; Hakkinen, S.; Jaroma, H.; Kiviluoto, O. and Paavolainen, T. (1977):

Primary operative fixation of long bone fractures in patients with multiple injuries.

[J. Trauma, 17 : 111 - 121].

Ruedi, Th. P., and Luscher, J.N. (1979):

Results after internal fixation of comminuted fractures of the femoral shaft with DC plates.

[Clin. orthop., 138 : 74 - 76].

Russell, T.A. and Taylor, J.G. (1986):

Interlocking intramedullary Nailing of the femur.

[Current Concepts. Semin. Orthop, 1 : 217 - 231].

Russell, T.A. (1991):

Biomechanical Concepts of femoral intramedullary nailing.

[Int. Jour. of orthop. Trauma, (1)].

Russell, T.A.; Taylor, J.C.; Lavelle, D.G.; Beals, N.B.; Brumfield, D.L. and Durham, A.G. (1991):

Mechanical characterization of femoral interlocking intramedullary nailing systems.

[J. Orthop Trauma, 5 (3) : 332 - 340].

Perren, S.M. (1981) :

Die Resorption der Knochenkon - taktflächen in der Frakturheilung.

[Chir. Chir. Acta., 48 : 657].

Pratt, D.J.; Papagiannopoulos, G.; Rees, P.H. and Quinnet, R. (1987):

The effects of the medullary reaming on the torsional strength of the femur. [Injury, 18 : 177].

Sarmiento, A. (1974):

Fracture Bracing.

[Clin. Orthop., 102 : 152 - 158].

Schenk, R.K. (1978):

History of fracture repair and nonunion, Bern, AO - Bulletin, Official publication of the Swiss Association for the study of internal fixation, P. 27.

Schneider, M. (1973):

I.M. Nailing of long - bone fractures, current concepts. Part III. Closed I.M. Nailing of the shaft fractures using kuntscher's method.

[AAOS Instr. Course Lect., 22 : 188].

Schotzker, J. (1980):

Open intramedullary Nailing of the femur.

[orthop. Clin. North. Am., (11) : 623 - 631].

 **Schneider, M. (1973):**

XX Intramedullary Nailing of long - bone fractures - current concepts. Part III. Closed IM nailing of shaft fractures using kuntscher's method.

[AAOS Instr. Course Lect. 22 : 188].

Shifflett, M.W. and Bray, T.J. (1987):

Preventing complications of Interlocking Nailing in Intramedullary fixation of the femur.

[Complic. Fract Monnegm, 2 : 116 - 122].

Sisk, D. (1987):

Fractures of lower extremity : In Campbell's operative orthopaedics Edited by Greshaw, A.H. The C.V. Mosby Company, Seventh. Ed. Vol. 3, pp. 1680.

Smith, J.E.M. (1964):

The results of Early and Delayed internal fixation of fractures of the shaft of the femur.

[J. Bone and Joint Surg., 46 B : 28 - 31].

Street, D. (1951):

100 Fractures of the femur treated by means of the diamond - shaped medullary nail.

[J. Bone and Joint, Surg., 33 A : 659].

Tarr, R.R. and Wiss, D.A. (1986):

The Mechanics and Biology of Intramedullary fracture fixation.

[Clin. Orthop., 212 : 10 - 17].

- Taylor, J.C.; Russell, T.A.; Lovelle, D.G.; Callondruccio, R.A. (1987):**
Clinical results of 100 femoral shaft fractures treated with the russel - Taylor interlocking nail system. Read at the annual meeting of the American Academy of Orthop.
[Surgeons, Son Francisco, Jan., 26].
- Taylor, J.C.; Russell, T.A. and Lovelle, D.G. (1990):**
Treatment of complex subtrochanteric femoral fractures with the Russell - Taylor - Reconstruction IM nail.
[Presented at AAOS].
- Taylor, Charles; Lavelle, David, G. and Walker, Beverly, J. (1991):**
"Long bone fracture manegment at compbell clinic experience
Gained from 1700 fracture treated with R-T interlocking Nail systems compbell clinic."
- Tencer, A.F.; Johnson, K.D.; Johnston, D.W.C. and Gill, K. (1984):**
A Biomechanical comparison of various methods of stabilization of subtroch. Fractures of the femur.
[J. Orthop. Research, 2 (3) : 297 - 305].
- Thomas, T.L. and Meggitt, B.F. (1981):**
A comparative study of methods for treating fractures of the distal half of the femur.
[J. Bone and Joint. Surg., 63 - B, 3.].
- Thompson, F.; O'Beirne, J. and Gallagher, J. (1985):**
Fractures of the femoral shaft treating by plating.
[Injury 16 : 535].
- Trueta, J. and Cavadias, A.X. (1964):**
A study of the blood supply of the long bones. Surg. Gynecol. Obstet., 118 : 4859.
- Thoresen, B.O.; Houkebo, A.; Ekeland, A.; Stromsoe, K.; Folleras, G. and Alho, A. (1984):**
Interlocking intramedullary nailing of Femoral and Tibial shaft fractures : A retrospective review of 93 cases.
[AAOS, Atlanta].
- Thoresen, B.O.; Alho, A. and Ekeland, A. (1985):**
Interlocking IM nailing in femoral shaft fractures.
[J. Bone and Joint Surg., 67 A (9) : 1313 - 1320].

Uhthoff, H.K.; Bardos, D.I. and Iiskova - Kiar, M. (1981):

The advantages of titanium alloy over stainless steel plates for the internal fixation of fractures.

[An experimental study in dogs, J. Bone & Joint Surg. 63 B, 427 - 434].

 **Viano, D.C. and Stalnaker, R.L. (1980):**

 Mechanics of Femoral fractures.
[J. Biomech. 13. PP. 701].

Viano, D.C. and Stalnaker, B.L. (1980):

Mechanics of Femoral fractures.

[J. Biomech., 13, pp. 701.]

Webb, L.X.; Winquist, R.A. and Hansen, S.T. (1986):

Intramedullary Nailing and Reaming for delayed union or non union of the femoral shaft. A Report of 105 consecutive cases.
[Clin. Orthop., 212 : 133 - 141].

Webb, L.X.; Gristina, A.G. and Fowler, H.L. (1988):

Unstable femoral shaft fractures : A comparison of interlocking nailing versus Traction and Casting Methods.

[J. Orthop. Trauma, 2 : 10 - 12].

Weber, M.S. and Cech, F.M. (1973):

Infection in Intramedullary nail fixation.

[Acta. Chir. Scand., 139, pp : 185].

White, G.M.; Healy, W.L.; Brumback, R.J.; Burgess, A.R.; Brooker, A.F. (1986):

The treatment of fractures of the femoral shaft with the Brooker - Wills distal locking IM nail.

[J. Bone & Joint Surg. 68 A : 865 - 876].

Whittle, A.P.; Russell, T.A.; Taylor, J.G. (1991):

Femoral fractures with vascular injuries.

[Presented at the orthop. Trauma Assoc.].

Wieck, J.A.; Russell, T.A.; Taylor, J.C. and Lavelle, D.G. (1990):

Results of treatment of 100 femur fractures using 10 and 11mm diameter Russell - Taylor Delta Femoral IM nails.

[Presented at the Tennessee Orthop. Society, Nashville].

Winqvist, R.A. and Hansen, S.T. Jr (1980):

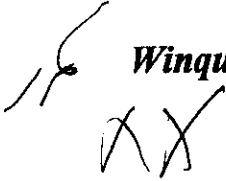
Comminuted fractures of the femoral shaft treated by intramedullary nailing.

[Orthop. Clin. North. Am. (11): 633 - 648].

Winqvist, R.A.; Hansen, S.T., Jr and Clawson, D.K. (1984):

Closed IM Nailing of femoral fractures.

[J. Bone & Joint Surg., 66 A (4) : 529 - 539].

 **Winqvist, R.A.; Hansen, S.T., Jr. (1980):**

Comminuted fractures of the femoral shaft treated by IM nailing.

[Orthop. Clin. North. Am., (11) 633 : 648].

Wiss, D.A.; Fleming, C.H.; Matta, J.M. and Clark, D. (1986):

Comminuted and Rotationally unstable fractures of the femur treated with interlocking nail.

[Clin. Orthop., 212 (Nov): 35 - 47].

Wright, T.M. and Hayes, W.C. (1980) :

Mechanics of fracture and fracture propagation. In scientific foundation of orthopaedics and traumatology. Edited by Owen.

[R. : Good fellow. J. and Bullough. P. William. Heinemann Medical Books Limited first ed. pp. 252].

Zickel, R.E. and Mouradion, W.H. (1976):

IM. Fixation of Pathological fractures and lesions of the subtrochanteric region of the femur.

[J. Bone and Joint Surg., 58 A 1961].

Zuckerman, J.D.; Vieth, R.G.; Johnson, K.D.; Bach, A.W.; Hansen, S.T. J.R. and Solvik, Steven (1987):

Treatment of unstable femoral shaft fractures with closed interlocking IM Nailing.

[J. Orthop., 1 (3): 209 - 218].