

References



References

Aisen, N. : Differential diagnosis of spinal cord disease . In Barclay, (ed.). Clinical Geriatric Neurology. Philadelphia: Lea and Febiger, 1993.

Albert T.J., Levine M J, Balderston RA, and Cotler J M: Gastrointestinal complication in SCI . Spine :16: 8522 – 25, 1991.

Alderman , C.P. and Hill, C.L.: Abnormal bone mineral metabolism after long – term anticonvulsant treatment . Ann. Pharmacother. 28:47-48, 1994 .

American Spinal Injury Association (ASIA) : Standards for neurological classification of spinal injury patients, 1989.

Anderson, P. A.: Spine. In Orthopedic Trauma Protocols, PP. 193-198 Edited by S.T. Honsen, M.F. Swiontkowski. New York, Raven press, 1993.

Apple, D.F.: Spinal cord injury rehabilitation . In the spine Eds.: Rothman, R.H. and Simeone, F.A., PP. 1247-76. W. B. Saunders Company, Philadelphia, 1992.

Awbrey, B.J. Jacobson, P.C. and Grubb, S.A.: Bone density in women: A modified procedure for measurement of distal radial density. J. Orthop. Res. 2:314 – 321, 1984.

Backe HA , Betz RR, Beck T, and Clancy M: Post traumatic spinal cord cysts evaluated by magnetic resonance imaging . Paraplegia, 29; 607 – 612 , 1991.

Balentine J.D.: Hypothesis in spinal cord trauma research In : Becker, D.P. and Povlishock, J.T. (eds.) : CNS Trauma status Report. Bethesda, National Institute of Neurological and



Communicative Disorders and stroke , National institutes of health, PP. 455 - 461 ,1985.

Banks L.M.,Stevenson, J.C.;
Modifed method of spinal computed tomography for trabecular bone mineral measurements.
J. Comp. Assis. Tomog. 10:463-467,1986.

Baran, D.T., Kelly , A.M.,Karellas, A.,et al .:
Ultrasound attenuation of the os calcis in women with osteoporosis&hip fractures .
Cal .Tissue Int. 43:138-142, 1988

Barnett , E. and Nordin,B.E.C.:
The radiological diagnosis ofosteoporosis:a new approach.
Clin.Radiol.11:166 -174,1960 .

Baskin D.S.,Azordigan P. :Non-neurological complication of SCI In : Piepmeir J M , ed. The outcome following traumatic SCI . Mount Kisco, Futura; 119 – 138, 1992.

Bedbrook G.M.: Injuries of the thoracolumbar spine with neurological symptoms. In: Vincken, P. and Bruyn G . (eds.): Handbook of Clinical Neurology, PP.437 –466 . New York, American Elsevier Poblishing Co. 1976.

Benes V.: Diagnosis . Spinal Cored Injury, PP. 22 – 59. Williams and Wilkins Co.Baltimore, 1968.

Biering S.F. and Bohr H.: Bone mineral content of the lumber spine,forearm and the lower extremities years after SCI .Paraplagia. 26:293 – 301 ,1988.

Biering S.F., Bohr H.,and Schaadto.: Longitudinal study of bone mineral content in the lumber spine,forearm and the lower extremities after SCI. Eur. J. Clin. Invest. 20:330 – 335 ,1990.



Black,D.M., Bauer,D.C., Lu,Y., Tabor,H., Genant, H.K. and Cummings,S.R.F.: Should BMD be measured at multiple sites to predict fracture risk in elderly women? *J.Bone Miner.* 10 :72 - 75 ,1995 .

Bohlman H.H . and Ducker T.B.: Spine and spinal cord injuries. In .: Rothman, R.H. and Simeone, F.A.(eds.). *The Spine* PP.973-1104. W. B.Saunders Company, Philadelphia,1992.

Bohlman H.H.: Trauma to the cervical spine and cord . American Academy of f Orthopedic Surgeons update II, PP.276 – 280, 1987.

Bolesta M.J., Viere R.G., Montessano P.X., and Benson, D. R.:Fractures and dislocations of the thoracolumbar spine. In;Rockwood C.A.,Green, D.P., Robert,W.B. and Heckman J.D., *Rockwood and Green's Fractures in Adults*,4th ed.,pp. 1529-1371. Philadelphia, Lipincott-Raven Publishers, 1996.

Bonde M ., Fledelius C., Riis BJ., and Chistiansen C. Application of an enzyme immunoassay for a new marker of bone resorption (CrossLaps) :follow-up on hormone replacement therapy and osteoporosis risk assessment. *J.Clin. Endocrinol.Metabo.* 80.864 – 868 ,1995.

Bonjour, J., Carrie,A.,Claven,H., et al.:Calcium-fortified aliments selectively increase radial and femoral bone mass in perpubertal girls :A double-blind ,placebo-controlled randomized trial .*J.Bone Miner.Res.* 10 :152, 1995.

Bosch, A., Stauffer E.S., and Nickels, V.L.: Incomplete traumatic quadri-plegia. A ten-year review. *J. Am. Med. Assn.*, 216:473-478,1971.



Braakman R., and Penning L.:Injuries of the cervical spine. In:Vincken P.J.and Bruyn G.W. (eds.): Handbook of Clinical Neurology.,PP.266 – 380. New York, American Elsevier Publishing Co. 1976.

Bracken, M.B., Shepard, M.J., Collins. W.F., et al.: A randomized, controlled trial of MP or naloxone in the treatment of ASCI. N. Eng. J. Medicine, 322: 1405,1990.

Buchanan , L., and Ditunno, J.: Acute care: medical and surgical management. In L. Buchanan and D. Nawczenski (Eds.), Spinal Cord Injury: Concept and Management Approaches, pp. 35-60. Baltimore, Williams and Wilkins, 1987.

Buchanan, L.:An overview. In L. Buchanan and D. Nawczenki (Eds), Spinal Cord Injury:Concepts and Management Approaches, pp. 1-19., Baltimore, Williams and Wilkins, 1987(a).

Bullock, B. and Rosendahle, P.: Pathophysiology: Adaptations and Alterations in Function(2nd ed.) Boston: scott, Foresman and Company, 1988.

Bullock, B.L.: Traumatic alterations in the nervous system. SCI:Adaptions and Alterations in Function, pp. 1044-1049. Philadelphia, Lipincott-Raven Publishers, 1996.

Caliguiri, P., Giger,M.L., Fauus,M.J.,et al.: Computerized radiographic analysis of osteoporosis :Preliminary Evaluation. Radiology , 186:471-474,1993.

Cameron,J.H. and Sorensor,J.: Measurements of bone mineral in vivo: an improved method . Science , 142 :230 -232 ,1964.

Cann, G.E.: Low-dose CT scanning for quatitative spinal analysis. Radiology 140:813-815,1981.



Changlai S.P.,and Kao C.H.: Bone mineral density in patients with spinal cord injuries. *Nuclear Medicine* 17,385-388,1996.

Chantrain A, Nusgens B, Lapiere Ch M .
Bone remodeling during the development of osteoporosis in paraplegia .*Calcif. Tissue Int.*, 38: 323 – 327. 1986.

Chapman,J.A.:
Randomized controlled trial to determine the effects of weight-bearing non aerobic exercise programme on the BMD and morbidity on postmenopausal women with osteoporosis. *Physiotherapy Canada* 42 (suppl 3) : 14 ,1990.

Cheng,C.L.,Ma,J.Wu,P.C.,Mason,R.S.and Posen,S.:
Osteomalacia secondary to osteosarcoma.
J.Bone Joint Surg. 71A :288:92,1989.

Chntraine A., Heynen G. and Franchimot P.: Bone metabolism , parathyroid hormone and calcitonin in paraplegia . *Calcif. Tissue Int.* :27. 199 - 206,1979.

Cole, J.: The pathophysiology of the autonomic nervous system in SCI .In L. Illis (ed), *Spinal Cord Dysfunction: Assessment*, pp 201-235. New York, Oxford University Press, 1988.

Colley D. P. and Dunsker, S.B.: Traumatic narrowing of the dorsolumbar spinal canal demonstrated by C.T.Rad., 129: 95-98,1978.

Dauty M.,Perrouin B., Maugars Y., Dubois C. and Mathe J.: Supralesional and sublesional bone mineral density in spinal cord injured patient. *Bone* (8) 308 – 309, 2000.

De Bruin ED., Dierz V., Dambacher MA., and Stussi E.: Longitudinal changes in bone in men with SCI. *Clin. Rehabil.* 14 (2) 145 – 152 ,2000.



De Groot, J. and Chusid, J.G.: Spinal cord and spine. Correlative Neuroanatomy, pp.27-54. Appleton and Lange, California, 1992.

De Leo V., Ditto A., Lanzetta D. and Massafrac C.: BMD and biochemical markers of bone turnover in peri and postmenopausal women. *Calcif. Tissue Int.* 66 (4). 263 – 267 , 2000.

Demiral G., Yilmaz H., Paker N., and Onel S.: Osteoporosis after spinal cord injury. *Spinal Cord* 36(12):822-825, 1998.

Donovan, W.H. and Cotler, H.B.: Traumatic spinal injuries. In Hochschular. S. H., Cotler, H.B. and Guyer, R.D. (eds.), *Rehabilitation of the spine: Science and Practice*, pp.301-323. NY, Mosby, 1993.

Donovan, W.H. and Bedbrook, G.M.: Comprehensive management of SCI *Clin. Symp.*, 34:1-36, 1982.

Douglas E., Garland M., Rodney H., Charles A. and Doniel V. Regional osteoporosis in women who have a complete SCI. *J. Bone and Joint Surgery* 83: 1195 – 1200 , 2001.

Dresner-Pollak R., Parker., Thompson J., and Seibel M.: Biochemical markers of bone turnover reflect femoral bone loss in elderly women. *Calcif. Tissue Int.* :59(5)328-33, 1998.

Ducker T.B. Russo G.L. Bellegarique R. and Lucas J.T.: Complete sensorimotor paralysis after SCI.: Mortality, recovery and therapeutic implication *J. Trauma*, 19: 837 – 840, 1979.

Duda, R.J., Peterson, J. M., Mann, J.G. and Riggs, B.L.:



Concurrent assays of circulating bone Gla-protein and bone alkalinephosphatase . Effects of sex,age and metabolic bone disease. J.Clin. Endocrinol. Metab. 66: 951 – 957 ,1988 .

El-Hajj Fuleihan,G.,Testa,M.A.,Angell,J.E.,Porrino, N.and Le Boff,M.S.: Reproducibility of DEXA absorptiometry : A model of bone loss estimates.J.BoneMiner.Res. 10 :1004 - 1014, 1995 .

Ettinger,B.,et al:

Long-term estrogen replacement therapy prevent bone loss &fractures. Ann.Intern . Med.102:319,1985.

Faden A.I.: Pharmacological treatment of CNS trauma. Pharmacology and Toxicology,78 (1): 12 – 17 ,1996.

Feber,J.,Cochat, P. and Braillon,P.:

Bone mineral density after renal trasplantation in children. J.Pediatr. 125:870- 875,1994 .

Felson , D.T.,Zhang ,Y., Hannan,M.T., et al.:

The effect of postmenopausal estrogen therapy on bone density in elderly women. N.Engl. Med. 329:1141 – 1146, 1993. .

Finkelstein, J.S.,Klisbanski ,A.,Schaeffer ,E.H.,et al .:

Parathyroid hormone for the pervention of bone loss induced by estrogen deficiency. N. Engl. J . Med.331:1618-1623,1994.

Finsen V., Indredavik B., and Fougner K. J.: Bone mineral and hormone status in paraplegic. Paraplegia :30(5)343-7,1992.

Firoozina, H.,Golimbu C., Rafii M., et al:

Rate of spinal trabecular bone loss in normal perimenopausal women:CT measurement.

Radiology 161: 735-738, 1986.

Flanders A.E., Tartaglino L.M., Freidman D.P., et al.: MRI in acute spinal injury . Semin. Roentgenl.,27: 271 – 298, 1992.



Freehafer AA, Mast W.

Lower Extremity fractures in patients with SCI .
Paraplegia .,19:367-372.1981.

Funke,M., Kopka, L., Vosschenrich, R., et al.:

broadband Ultrasound Attenuation in the Diagnosis of
Osteoporosis: Correlation with Osteodesitometry and Fracture.
Radiology, 194: 77-81, 1995.

**Fulkner , K.G, Giuer , C.E. Majumader, S long, P., Englke ,
k , and Geopnt , H.K .** Noninvasice measuremnt of bone mass ,
stucture & Strength : Current methods and experimental
Technique A.J.R.157; 1229-1237-1991 .

Garland DE., Stewart CA., Adkins R H., et al .: osteoporosis
after SCI. J Orthop: Res. 10: 371 – 378 , 1992.

Garland DE.:Clinical observation on fracture &hetrerotopic
lesions .Clin.Orthop., 233:87-101.1988.

Garnero P., Sornay-Rendu E., Chapuy M., and Delmas P.
Increased bone turenover in late postmenopausal women is a
major determinant of osteoporosis . J. Bone Miner. Res. 11. 337
- 349,1996.

Genant H.K., Block J.E., Steiger P., et al:

Quantitative computed tomography in assessment of
osteoporosis. Sem. Nucl. Med., 17: 4, 316-333, 1987.

Genant H.K., Cann C.E., Ettinger B.:

Quantitative computed tomography of vertebral spongiosa: A
sensitive method for detecting early bone loss after
oophorectomy. Ann. Intern. Med., 97: 699-705, 1982.

Genant, H.K., Block, H., Steiger P.,et al.:

Appropriate use of bone desitometry.



Radiology, 170:817, 1989.

Genant, H.K., Gluer C.C., Steiger P., Faulkner K.G.:

Quantitative computed tomography for the assesement of osteoporosis. In Moss A.A., Gamsu G., Genant H.K. (eds):

Computed Tomography of the Body.

Philadelphia WB Saunders, p 523,1992.

Gevers,G.,Devos,P., DeRoo,M. and Dequeker,J.:

Increased levels of osteocalcine (serum Gla protein)in rheumatoid arthritis. Br. Rheumatol. 25: 260-62, 1986.

Giannini, S., Angelo,. Aand Malvasi,L.:

Effect of one year cyclical treatment with clodronate on post-menopasal bone loss . Bone 14 :137 – 41 , 1993 .

Gibbons ,W.E.,Judd, H.L., Moyer ,D., et al.:

Evaluation of sequential versus estrogen /progestin replacement therapy on utrine bleeding patterns endometrial histology .

Multiuniversity National Upjohn Study Collaborative (abstr).

Soc.Gynecol. Invest.,1991.

Giulain D.: The consequences of inflammation after injury to the CNS . In . The neurobiology of CNS trauma.(eds.): Salzman S., and Faden A.I.,PP. 145 - 154. Oxford University Press, New York ,1994.

Gluer, C.C., Cummings, S.R.,Rauer, O.C., et al.

Osteoporosis: association of recent fractures with auqntitqtive US findings: Radiology, 199(3): 725-137., 1996.

Gomez B., Ardakni S ., Jenkins D.,and Kung VT.

Monoclonal antibody assay for measuring bone specific alkaline phosphatase in serum. Clin. Chem. 41. 1560 – 1566 , 1995.



Grampp, S., Jergas, M., Gluer, C.:

Radiologic diagnosis of osteoporosis, current methods and perspectives. *Radiol. Clin. North. Am.*, 31(5): 1133-1145, 1993.

Hangartner T.N. Osteoporosis due to disuse .In Matkovic (eds.),*physical Medicin and Rehabilitation Clinics of North America :Osteoporosis*.6(3);579 – 594 , Philadelphia : W.B. Saunder Company ,1995.

Hanley , D.A.

Osteoporosis : Introduction .J . *Rheumatol . (Suppl.)* 44: 1 - 22,1996.

Hanson DA., Weis MA., Bollen AM., Maslan SL., and Eyre DR. Aspecific immunoassay for monitoring humen bone resorption :quantitation of type I collagen Cross-Linked N-Telopeptides inurine.*J. Bone Miner.Res.* 7.1251 – 1258 ,1992.

Hardin S., Hastings J., and Saltzstein R.: Osteoprosis in spinal cord injury using an index of mobility and relationship to bone density.*J. Am. Paraplegia* 25:232-234,1998.

Hardy A.G.,and Rossier A.B.: *SCI .* George Thiem Publishers, Stuttgart, 1975.

Hassager C., Jensen LT., Podenphant J., and Thomsen K. The carboxyterminal pyridiline cross-linked telopeptide of type I collagen in serume as a marker of bone resorption .*Calci. Tissue int.* 54: 30 – 33, 1994.

Heikkinen A.M., Markku P., Leo N.,Marjo K., Marjo T.,and Sappo S.:Biochemical bone markers and bone mineral density during postmenopausal hormone replacement therapy with and without vitamin D3. *J.Clinical End and Metab.* 82(8):2476-2482,1998.



Hodgkinson, A. and Thompson, T.:

Measurement of the fasting urinary hydroxyproline :creation ratio normal variation with age and sex.

J.Clin.Path.:35:807 -11, 1982 .

Horsman A.,Nordin C. and Simpson,M.:Cortical and trabecular bone status in elderly women with femoral neck .Clin. Orthop., 166: 143 , 1982.

Hughes J.: Pathological changes aftetr SCI .In L. Illis (ed.)spinal cord dysfunction . Assessment (PP. 34 – 40). New York , Oxofoed university press, 1990.

Janes G., Collopy D., and Price R.: Bone density after rigid plate fixation of tibial fracturees .Bone Joint Surgery, 75. B, 914 1993.

Janssen L.,and Hansebout R.: Pathogenesis of SCI and newer treatment .Spine, 14: 23 – 32 , 1989.

Jelsma R., Rice J., jelsma L., and Kitsch P.: The demonstration and significance of neural compression after spinal injury . Surg. Neurol., 18: 79-92 , 1982.

Jenny K,R.

Immobilization osteopenia in osteoporosis P833-853..Edited by Robert Marcus , David Feldman, Jennifer Kelsey. United K. ngdom Eitition published by Academic press limited. Val Road, London. 1995.

Jergas,M.and Genant,J.K.:

Revieow current methods and recent advances in the diagnosis of osteoporosis . Arthritis Rheum.36 :1649 – 1662 ,1993.

Joel C.M.: Nerve conduction study and electromyography . Neurosurgery Wilkins and Rengachary .17 : 191- 210 ,1996.



Johnston,C.C.,Melton, L.J.,Lindsay, and Eddy,D.M.:

Clinical indications for bone mass measurements.

J. Bone Miner.Res. 4(suppl 2), 1989 .

Johnston,C.C.,Slemenda,C.W.and Melton,L.J.:

Clinical use of bone densitometry.

N.Engl.J.Med. 324: 1105 – 1109, 1991.

Johnston,C.C.,Miller, J.Z.,Slemenda,C.W.et al.:

Calcium supplementation and increase in BMD in children.

N.Engl.J.Med. 327: 82 - 87, 1992.

Kakulas B.A.: Pathology of spinal injuries.

Cent.Nerv.Syst.Trauma. 1 :117- 129 ,1984.

Kalender W.A., Suess C.,:

A new calibration phantom for quantitative computed tomography. Med. Phys., 14: 863-866, 1987.

Kami T , Aoyagi K.,Matsumoto T., Ishidar., Inwata K., Kato Y.Age-related bone loss:relationship between age and regional mineral density. Tohoku J. Exp. Med. 187(2):141 – 147. 1999.

Kanis , J.A.,Melton, K.L.,Christiansen, C.,Jonston,C.C.and Khaltaeu,N.: Perspective: The diagnosis of osteoporosis .J. Bone Miner.Res. 9: 1137 -1141, 1994.

Kannisto M., Alaranta H., Kroger H., and Karkkainen J.: Bone mineral status after pediatric SCI. Spinal Cord 36(9):641-646,1998.

Kaplan P.E , Gandbavadi B, Richards L., and Goldschmidt J. Calcium balance in paraplegic patients : Influence of injury and ambulation . Arch. Physical. Med. Rehabil. 59 : 447 – 450 , 1978.



Kaufman,J.J.and Einhorn,T.A.: Ultrasound assessment of bone . J. Bone Miner.Res. 8: 515 -517, 1993.

Keating JF., Kerr M ., Delargy M. Minimal trauma causing fractures in patients with SCI. Disabil. Rehabil. 14: 108 – 109 .1992.

Keen R., Nguyen T., Sobnack R., Perry L., and Thompson P.: Can biochemical markers predict bone loss at the hip and spine?. Osteoporosis Int. 6(5):399-406,1996.

Kelly D., Lossiter k., and Calogero J.: Effects of local hypothermia and tissue oxygen studies in experimental paraplegia. J. Neurosurgery., 36: 425 – 429 ,1970.

Kenneth,G.F.,Claus,C.G.,Sharmila,M.,et al.:
Noninvasive measurements of bone mass, structure and strength:
Current methods and experimental techniques.
A.J.R. 157: 1229 – 1237, 1991.

Kenny A.M.,Gallagher J.C.,Prestwood K.M., and Raisz L.G.:Bone density, bone turnover , and hormone level in older men and women. J. Bio. Med Sci 53(6):419-25,1998.

Khosla S., Joseph M., Elizabeth J., and George G. Relationship of serum sex steroid level and bone turnover markers with BMD in men and women. J. Clin. Endo. Met. 83,(7).2266 – 2274 ,1998.

Kimmel, P.L.
Radiologic methods to evaluate bone mineral content.
Ann. Intern. Med., 100:908, 1984.

Kiratli BJ., Smith AE., Nauenberg T. and Perlash I. Bone mineral and geometric change through the femur with



immobilization due to SCI. J .Rehab. Res. 37(2) 225 – 233 ,2000.

Klatzo I.: Presidential address-neuropathological aspects of brain edema. J. Neuropathol. Exp. Neurol., 26 : 1 – 4, 1967.

Kleerekoper,M.,Ibels,L.S.Ingham,J.P.,et al.:
Hyperparathyroidism after renal trasplantation .
Br. Med. J.2: 680 -82, 1975.

Klue R.: Beitrag zur pathologi schen Anatomic der Verlet zungen des Ruckenmarkes mit besonderer Berucksichtigung der Rucknmark skontusion. Ein Vergleich zwischen Ruckenmarks- und Hirnverletzungen. Arch. Psychiat. Nervenkr.,180: 206 – 270 ,1969.

Kollerup,G.,Thamsbarg,G.,Bhatia,H.and Sorenson,O.H.:
Quantitation of urinary hydroxypyridinium cross-links from collagen by high-performance liquid chronatography.
Scan.J.Clin.Lab.Invest. 52:657 – 62, 1992.

Krane,S.M.and Simon,L.S.:
Metabolic consequence of bone turnover in Pagets disease of bone. Clin.Orthop.Rel.Res. 217:26 -36,1987.

Kricum M.E.: Imaging Modalities in Spinal Disorders.
Philadelphia, W. B. Saunders, 1988.

Kushida K., Takahashi M., Kawana K., and Inoue T.
Comparison of markers for bone formation and resorption in premenopausal and postmenopausal subjects and osteoporosis patients. J. Clin. Endocrinol. Metab. 80:2447 – 2450 ,1995.

La Croix,A.Z.,Wienpahl,J.,White,L.R., et al.:
Thiazide diuretic agents and the incidence of hip fracture.
N.Engl.J.Med. 322: 286 -90 ,1990.



Lang, P., Steinger, P., Faulkner, K., et al.:

Current techniques and recent developments in quantitative bone densitometry. *Radiology Clin. North. Am.*, 29(1):49-76, 1991.

Lazo M.G., Shirazi P., Sam M., Giobbi-Hurder A., and Blacconiere M.: Osteoporosis and risk of fracture in men with SCI. *Spinal Cord* 39(4):208-214, 2001.

Le Blanc A., Schneider V., Krebs J., et al. Spine bone mineral after five week of bed rest . *Calcif. Tissue Int.* :41, 259 – 266 ,1990.

Le Boff , M.S.

Metabolic bone disease in : Kelly .W.W Harris E.D Ruddy , and Sledge , C.B (eds) : *Textbook of Rheumatology* Philadelphia W . B Sownders company 6th edition 1563 – 1580 – 2001.

Lemann J. The collection, preservation and analysis of urine in the evaluation of mineral metabolism of bone disease and nephropathiasis . In Favus M. J.(ed.) *Primer on metabolic bone disease & disorders of mineral metabolism* .Amercan socity for bone & mineral research.60 – 62 , 1990.

Lesil WJ., Nance PW., Dissociated hip & spine demineralization aspacific finnding in SCI. *Arch. Ph. Med. Rehab.* 74: 960 - 964 , 1993.

Liberman, U.A., Wriss, S.R., Broll, J., et al.:

Effect of oral alendronate on BMD and the incidence of fractures in postmenopausal osteoporosis. *N.Engl.J.Med.* 333: 1437 – 43 ,1995 .

Lindsay, R. and Tohme, J.F.:

Estrogen treatment of patients with established postmenopausal osteoporosis. *Obstet. Gynecol.* 67:290 – 295, 1990 .



Lloyd,T., Rollings,n.,Chinchilli,V., et al.:

The effect of starting calcium supplementation at age 12 or at age 14 on bone acquisition in teen age girls.

J.Bone Miner.Res. 10 :152, 1995.

Louis O., Van den Winckel P., Covens P., et al.:

Dual-energy x-ray absorptiometry of lumbar vertebrae; relative contribution of body and posterior elements and accuracy in relation with neutron activation analysis. Bone, 13:317, 1992.

Maiman D., Barolat G.,and Larsons.:Management of bilaterl locked facets of the cervical spine . Neurosurgery .18 :542 – 547 ,1986.

Maimoun L.,Couret I., Micallef JP., Peruchon E. and Ohanna F. Use of bone biochemical markers with DEXA for early determination of bone loss in person with SCI. Metabolism. 51(8) 958 – 963 , 2002.

Martinez – Arizala A.,Green B., and Bunge R.: Experimental spinal cored injuries, pathophysiology and treatment . In:The Spine .(eds.): Rothman R, and Simeone F., PP.1247 – 1276. W.B. Saunders Co., Philadelphia .1992.

Matkovic,V., et al.:

Osteoporosis. In :Krusen's Handbook of Physical Medicine and Rehabilitation. Ed. By Kottko, F.J., Lehmann, J.F., 4th ed.

Philadelphia, W.B. Saunders Company, pp. 1170-1208, 1990.

Maynard F M:

Immobilization hypercalcemia following SCI

Arch.Phys.Med.Rehab.,67: 41- 44 , 1986 .

Mazess, R.B. and Vetter J.:

Comparison of dual-photon absorptiometry and dual-energy computed tomography for vertebral mineral.

J.of Comp. Assist. Tomog., 9:624-625, 1985.



Mazess, R.B., Vetter J., Weaver D.S.:

Bone changes in oophorectomized monkeys: CT findings.

J. Comput. Assist. Tomogr., 11: 302-305, 1987.

Mazess, R.B., Barden H., Ettinger, M., et al.:

Bone density of the radius, spine and proximal femur in osteoporosis. J. Bone. Min. Res., 3: 13-18, 1988.

Mazess, R.B.:

Bone densitometry of the axial skeleton.

Orthop. Clin. North. Am., 21(1):51-63, 1990.

McCool F., Pichusko B., Slutsky A., et al.: Changes in lung volume and rib cage configuration with abdominal binding in quadriplegia. J. Applied Physiol., 60: 1198 – 1202, 1986.

McKinley WO, Jackson AB, Cardenas DD.

Long term medical complication after traumatic SCI

Arch.Phys.Med.Rehab., 80: 1402-1410, 1999 .

McLeod J. and Lance J.: Introductory Neurology (3rd. ed.).

Boston : Blackwell Scientific Publication. 1989.

Melton L.J., Kholsa S., Atkinson E.J., and Riggs B.L.:

Relationship of bone turnover to bone density and fractures. J.

Bone Miner. Res. 12(7):1083-7, 1997.

Melton, L.J., Atkinson, E.J., O'Fallon, W.M., Wahner, H.W. and

Riggs, B.L.: Long term fracture prediction by bone mineral assessed at different skeletal sites. J. Bone Miner. Res. 8 (10) : 1227 -1233 , 1997.

Meyer P., and Cotler H.: Fusion technologies in traumatic injuries. In Cotler J., and Cotler H., (eds.): Spinal Fusion :



Science and Technique, PP, 189 – 246 .New York, Springer-Verlag, 1990.

Meyer S., and Wiener S.: MRI features of fractures using the short tau inversion recovery sequence ,correlation with radiographing findings . Skeletal Radiol., 20: 499 – 507 , 1991.

Michaelis L. and Braakman R.: Current terminology and classification of injuries of spine and spinal cord. In: Vincken P. and Bruyn G. (eds.): Handbook of Clinical Neurology. PP. 266 – 380. New York , American Elsevier Press, 1976.

Mikale M., and Hemmati, M.: Neuroradiologic Assessment of SCI . St. Louis C.V. Mosby, 1981.

Minair P., Meunier P. Bernard J and Bourret J. Quantitative histological data on disuse osteoporosis : Comparison with biological data . Calcif. Tissue Int . 17, 57 – 73, 1974.

Mirell, G.:

Current and Innovative methods for noninvasive bone densitometry. Radiol. Clin. North. Am., 28(2): 257-278, 1990.

Monchik, J.M. and Martin, H.F.:

Ionized calcium in the diagnosis of primary hyperparathyroidism. Surgery. 88: 185 – 92 , 1980.

Mosekilde, Li, Mosekilde-Le and Danielsen, C.C.:

Biomechanical competence of vertebral trabecular bone in relation to ash density and age in normal individuals. Bone 8: 79-85, 1987.

Moss DW. Diagnostic aspects of alkaline phosphatase and its isoenzyme . Clin. Biochem. 20 . 225 – 230 , 1987.

Mundy G.R. Bone remodeling and its disorders. London: Martin Dunitz. National aeronautics and space administration .



National insitutes of health and National insitutes of arthritis and musculoskeletal and skin diseases (1990).The effects of space travel on the musculoskeltal system. Workshop held.October 3&4 ,1990.NIH publication No. 93.

Nelson,M.E.Fiatarone,M.A.,Morganti,C.M.,et al.:

Effects of high – intensity strength training on multiple risk factors for osteoporosis fractures.

JAMA 272 :1909 – 1914,1994.

Nilas, L., Hassager,C. Christansen, C.,:

Long-term precision of dual-photon absorptiometry in the lumbar spine in clinical settings. Bone and Mineral, 3:305-315, 1998.

Nissbaum E., Sebrig L., Wolf A., et al.: Myelographic and enhanced computed tomographic appearnce of acute traumatic spinal cord avulsion. Neurosurg. 30: 43 – 48, 1992.

Northrup B. and Alderman J.: Non surgical treatment. In : Sherk H., Dunn E.and Eismont S. (eds.), The Cervical Spine (2nd ed.) Philadelphia, J.B.Lippincott, 1989.

Nottage W.

Areview of long bone fracture in patients with SCI

Cli. Orthop.,155:65-70. 1981.

Nuti R. Rigghi G., MATINE g., et al . Methods &clinical application of total body absorptiometry . J. Nucl. Med. 31: 213 – 221 ,1987.

O'Brien, M.F.Lenke, L.G.,and Joyce, M.E.: Acute spinal cord injury: pathophysiology and pharmacologic treatments. The Textbook of Spinal Surgery, 2nd ed.,pp.2361-2378. Lippincott-Raven Publishers, Philadelphia,1997.



O'Callaghan, J., Ullrich,C.,Yuan,H., et al.: CTof injuries of the spine. *AJR*, 134:563-568,1980.

Overgaard,K., Riss,B.J.,Christiansen,C., et al.,:
Nasal calcitonin for treatment of established osteoporosis .
Clin. Endocrinol. 30: 435 – 442, 1989.

Overgaard,K., Allan Hansen,M.,Jensen,S.B., et al.:
Effects of calcitonin given intranasally on bone mass and fracture rate in established osteoporosis : A dose-response study.
Br.Med. J. 305: 556 – 561, 1992.

Overgaard,K.:
Effect of intranasal salmon calcitonin therapy on bone mass and bone turnover in early postmenopausal women: A dose-response study. *Calcif. Tissue Int.* 55 : 82 – 86 , 1994.

Overgaard,K. and Riss,B.J.:
Nasal salmon calcitonin in osteoporosis .
Editorial .*Calcif.Tissue.Int.* 55: 79 – 81, 1994.

Pak CY, Sakhaee, K., Adams-Huet,B., et al.:
Treatment of postmenopausal osteoporosis with slow-release sodium fluoride. *Ann.Inter.Med.* 123: 401 – 408, 1995.

Palleske, H., Kivelitz,R., and Loew, F.: Experimental investigation on the control of spinal cord circulation. IV. Effects of spinal or cerebral compression on the blood flow of the spinal cord. *Acta Neurochir.*,22: 29 - 41, 1970.

Panter,S.S., and Faden, A.I.:Biochemical changes and secondary injury from stroke trauma. In: *Principles and Practice of Restorative Neurology*. Eds.:Young,R.and Delwade, p.32-52. Butterworths, NY, 1992.



Peters, G.:Die gedeckten Rücken marksverletzungen. In: Henke-lubarsch. eds.: Handb spez poth. Anat. Histol. Vol. VI/3. Berlin- Gotengen-Heideberg Springer. pp.126-141, 1955.

Peterslige, C., Pathria, M., Emery, S., et al.:Thoracolumbar burst fractures: evaluation with MRI. Rad., 194:49-54, 1995.

Pilchonery G., Minaire J., Milan J., and Revol A., Urinary elemination of glycosaminoglycans during the immobilization of SCI. Clin. Orthop. 174, 230 – 235, 1983.

Portale,A.A.:

Blood calcium, phosphorous and magnesium.In:Favus MJ,ED.Primer on the metabolic bone diseases and disorders of mineral metabolism. American Society for Bone and Minerral Research. 62-64,1990.

Praet,J.P., Peretz, A., and Rosenberg, S.:

Risk of osteoporosis in men with chronic bronchitis. Osteoporosis Intl. 2 : 257- 261, 1992.

Ragnarsson k.,and Sell G.: Lower Extermity Fractures after SCI: A retrospective study. Arch. Phys. Med. Rehabil. 62,418-423,1981.

Ravn P,Clemmensen B, Juel Riis, Overgaraad K ,Christianen C. The effect of bone mass&bone markers of different dose of ibondronate, anew bisphophonate for prevention &treatmentof osteoporosis. Bone .,19:527-533, 1996.

Reiser, U and Cenant, H.K.: Determination of bone mineral content in the femoral neck quantitative computed tomography. Radiological sociaty of north America, Washington, DC, 1984.



Richardson, M., Genant, H.K., Cann C.E.:

Assessment of metabolic bone diseases by quantitative computed tomography. Clin. Orthop., 185:224, 1985.

Riggins R., and Kraus, J.:The risk of neurologic damage with fractures of the vertebrae.J. Trauma. 17:12, 1977.

Riggs, B.L.:

Treatment of osteoporosis with sodium fluoride: An appraisal. In Peck W.A. (ed) Bone and Mineral Research Annual, Amsterdam: Elsevier, Vol. 2.pp. 366-393, 1984.

Riggs, B.L.and Melton L.J. III:

Involutional osteoporosis. New England Journal of Medicine, 314:1676-1686, 1986.

Riggs, B.L., Hodgson,S.F., O' Fallon,W.M., et al.:

Effect of fluoride tretment on fracture rate in postmenopausal women with osteoporosis. Engl.J.Med, 327: 802 – 809, 1990.

Riggs, B.L. and Malton, l.j.:

The prevention and tretment of osteoporosis.
Engl.J.Med, 327: 620 – 627, 1992.

Rizzolo, S.,and Cotler, j.: Unstablecervical spine injuries: specific treatment approaches, J. Am. Acad. Orthop. Surg., 1:57-66,1993.

Roberts D ,Winnifred Lee,Ross C, Robert E&Peter E.

Lonitudinal study of bone turnover after acute SCI.

The J. Of Clinical Endocrinology &Metabolism.,83:415-422.1998.

Roberts D., Winnifred L., Ross C., Johannes W., Robert F., and Peter E.:Longitudinal study of bone turnover acute SCI. J. Clin. Endo. & Metab. 83(2)415-422,1998.

**Robinson, R.C.,:**

Measurement studies, noninvasive bone densitometry. In: Dabnm,P.J., Sodeo, D.B.(eds) Principles and Practice and Nuclear Medicine. New York, Mosby Year Book, p 368-369, 1995.

Rogers, L., Thayer, C., Weinberg, P., and Kim, K.:Acute injuries of the upperthoracic spine associated with paraplegia Am. J. Roentgenol, 134:67, 1980.

Rogers, L.: Radiologic assessment of acute neurologic and vertebral injuries. In: P. Meyer (ed.), Surgery of Spine Trauma, pp. 185-263. NY, Churchill Livingstone, 1989.

Rosen CJ., Chesnut CH.,and Mallinak NJ. The predictive value of biochemical markers of bone turnover for BMD in early postmenopausal woman treated with hormon replacement or calcium supplementation .J.Clin. Endocrinol.Metabo. 82.1904 – 1910 ,1997.

Ruff,C. and Jones, H. Bilateral asymmetry in cortical bone of of the humerus and tibia :Sex and age factors. Hum.Biol. 53- 86, 1981.

Rupich, R.C., Griffin, M.G., Pacific, R., et al.:

Lateral dual-denergy radiography: Artifact error from rib and pelvic bone. J. Bone. Min. Res. 7: 97, 1992.

Sabo D., Blaich S., Wenz W., Loew M.,and Gernor H.: Osteoprosis in patients with paralysis after SCI. A cross-sectional study in 46 male patients with DEXA. Arch. Orthop. Trauma Surg.:121(1-2),75-78, 2001.

Sambrook, P.N., Dequeker, J., Rasp,H.H.:

Metabolic bone disease (2nd edition).

Edited by Kippel,J.H. and Dieppe, P.A. (8) 36.1 -36.9,1998.



Sartoris, D.J. and Resnick, D.:

Current and innovative methods for noninvasive bone desitometry. *Radiol. Clin. North. Am.*, 28(2): 257-218, 1990

Sartoris, D.J., Andre, M., Resnick, C. et al.:

Trabecular bone density in the proximal femur: Quantitative CT assessment. *Radiology*, 160: 707-712, 1986.

Scariano JK., Clemens JD and Gorry PJ. Serum levels of Cross-Linked N- Teloptides and aminopeptides of type I Collagen indicate low BMD in elderly women. *Bone* : 23. 471-477, 1998.

Scarino JK., Glew RH., Clemens JD., and Garry PJ. Serum level of Cross-Linked N-Teloptides and aminoterminal propeptides of type I collagen indicate low BMD in elderly women. *Bone* 23.417 – 477 ,1998.

Schmnitt J., Midha M. and McHenzie .:Medical Complication of spinal cord disease. *Neurol. Clin.*,9:779-795, 1991.

Scraff J.E.: Injuries of the vertebral column and spinal cord. In:S. Brock, ed.:Injuries of the Brain and Spinal Cord and their Coverings. Pp.530-589.London, Cassell, 1960.

Seeman, E., Martin, T.J.:

Noninvasive techniques for the measurement of bone mineral. *Bailliere's Clinical Endocrinology and Metabolism*,3(1):1-33,1989.

Seible M ., Duncan A., and Robins S., Urinary hydroxypyridinium cross links provide indices of cartilage &bone involvement in arthritic disease . *J . Rheumatol.* 16 : 964 – 970 , 1989.



Shore,R.M. and Pozanski,A.K.:

Radiologic evaluation of bone mineral in children.In Primer on the metabolic bone disease and disease and disorders of mineral metabolism , 3rd edition.1996.

Shrader S.C., Sloan, T.B., and Toleikis J.R.: Detection of sacral sparing in ASCI. Spine, 12:533-535, 1987.

Sileghem A., Geusens P., and Dequeker .,J .: Intranasale calcitonin for the prevention of bone erosion & bone loss Ann. Rheum. Dis. 51 : 761 – 764 , 1992.

Singh,M ., Rigg, BL and Beabout,JW.:Femoral trabecular pattern index for evaluation of spinal osteoporosis. Ann. Int. Med. 77:63,1972.

Sinaki M. Musculoskeletal rehabilitation. Int. Riggs B.L. and Melton L.J.,III (eds.). Osteoporosis : Etiology, diagnosis and mangment, 435 – 473 . Philadelphia : Lippincott-Raven publishers 1995.

Sloan K., Byrne J., and Scull E. Musculoskletal effects of an electric stimulation induced cyclic program in SCI. Paraplegia. 32, 404 – 415 , 1994.

Slovik,D.M.,Rosenthal,D.I.,Doppelt, S.H., et al.:

Restoration of spinal bone in osteoporotic men by treatment with human parathyroid hormone and 1,25 – dihydroxyvitamin D.J. Bone Miner.Res. 4:337- 381, 1986.

Slucky A.V., and Eismont F.J.:Treatment of acute injury of the cervical spine. J. Bone Surg., 67:1882 – 1896 , 1994.

Sobel M., Lyden JP. Long bone fracture in spinal cord injured patient: Complication of treatment – a case report and review of literture. J. Trauma 31 : 1440 – 1444 , 1991.



- Somers M.F.:** Pathophysiology of SCI. Spinal cored injury: Functional Rehabilitaion, PP. 4 – 34 . Appleton and Lange, London, **1992a.**
- Somers M.F.:** Medical and surgical mangement of SCI. Spinal cored injury: Functional Rehabilitaion, PP. 35 – 49 . Appleton and Lange, London, **1992b.**
- Sonntage V.K., and Douglas R.A.:** Management of cervical spinal cord trauma. J. Neurotrauma. 9(1s):S385, **1992.**
- Stauffer E.S., and Mac Millan M.:** Fractures and dislocations of the cervical spine. In: Rockwood C.A., Green D.P., Robert W.B., and Heckman J.D., Rockwood and Green's Fractures in Adults, 4th ed., pp. 1473-1528. Philadelphia, Lippincott-Raven Publishers, **1996.**
- Stauffer E.S.:** Spinal cored injury syndromes. Seminar in Spine Surgery, 3(1):87-91, **1991.**
- Steiger, P., Spencer, N.E., Black, D.M., et al.:** BMD in 6515 women over 65 years of age as measured by dual X-ray and single photon absorptiometry. In Christiansen, C., Overgaard, K., eds. Osteoporosis 1990. Copenhagen; **1990.**
- Steinberg F., Birges., and Cooke.** Hypercalcemia in aldolescent tetraplagic patients . Paraplagia. 16, 60- 67 , **1979.**
- Stelling J.:** Spinal cord injury. In :Howell E., Widra L., and Will M.(eds.), Comprehensive Trauma Nursing. Glenview III :Scott Foresman, **1988.**
- Stewart, A.:** Discriminatory ability of ultrasound to distinguish between hip fracture and controls. Calcif. Tissue Int. 54:466 – 472, **1994.**
-



Stillerman CB., Roy RS., and Wiss MH : Cervical spine injuries . Diagnosis and mangement .In :Neurosurg. 258: 2888 - 2892, 1995.

StormT., Thamsborg,G., Steinicke,T., et al.:

Effect of intermittent cyclical etidronate therapy on bone mass and fracture rate in women with postmenopausal osteoporosis. N. Engl.J.M.322:1265 -71 ,1990.

Szollar SM., Martin EM.,Sartoris DJ. and Deftos LJ. BMD and indexes of bone metabolism in SCI. Am.Phys.Med. Rehabil. 77 (1) 28 – 35, 1998.

Tator C.H.: Physiology and Pathology of spinal cord injury. Wilkins, Rengachary.Neurosurg 281:2847-58,1996.

Tilyard M.W.,Spoars GES, Thomson,J.and Dovey,s.:

Treatment of postmenopausal osteoporosis with calcitrol calcium. N. Engl.J.M.326:357 - 62 ,1992.

Tori J .and Hill L.Hypercalcemia in children with SCI. Arch. Phys. Med. Rehabil. 59. 443 – 447 ,1978.

Trapan , S., Civini , R.Ermin , M., Pac ., E. and Falcni, F.

Osteoporsis in juvenil systemic lupus Erythromatosis
longitudinal study on the Effect of steroid steriod on bone
mineral densty . Rheum Tol Int ; 18 (2) : 54-49-1998

Tsuzuku S., Ikegami Y. and Yobe K. BMD difference between paraplagic and quadriplagic patients : across-sectional study. Spinal Cord .37(5):358 – 361 ,1999.

Tucci K.A., Landy H.J.,Green B.,and Eismont F.J.: Trauma and paraplegia. In :Critchley E.,and Eisen A. (eds.):Diseases of the Spinal Cord , pp.409-427. Springer Verlag, London,1992.



Uebelhart D. et al .Bone metabolism in SCI individuals and other who have prolonged immobilization. *Paraplegia*, 33(11). 669 – 673 , 1995.

Vaccaro A.R., An H.S.,Lin S.,et al.:Non contiguous injuries of the spine .*J. Spinal Disord.*, 5:320-329,1992.

Vlychou M ., Papadaki P.J., Zavras G.M., Vasiou K., Kelekis F. Paraplegia-related alterations of bone density in forearm and in greek patients after SCI. *Disabil. Rehabil.* 25(7) 324 – 330 , 2003.

Wagner Y.R.: Complication of spinal cord injury. *Practice of Neurosurgery* pp.115:1755-1762,1995.

Wahner.H.W., Dunn,w.l., Mazess,R.B., et al.:
Dual photon GD-135absrptioometry of bone.
*Radiology.*156:203 – 206,1985.

Walker W.C., Khokhar M.S.: Silent cardiac ischemia in cervical spinal cord injury:case study.*Arch.phys. Rehabil.* pp.73:91-94,1992.

Wasnich, R.D., P.D., Heilbrun, L.K., et al.:
Prediction of post-menopausal fracture risk with bone mineral measurements. *American Journal of Obstetrics and Gynecology*, 153: 745-751, 1985.

Watts Nelson B,
Clinical utlity of biochemical markers of bone remodeling .
Clinical chemistry .,45:1359-1368 ,1999.

Wenstein.L.,Bewtra C. And Gallagher,J.C.:
Evaluation of continous combined low-dose regimen of estrogen-progestin for treatment of the menopausal patient.
*Ann.J. Obstet.Gynacol.*162:1534 – 1539,1990.



West, R.R. and Reed G.W.: The measurement of bone mineral in vivo by photon beam scanning. *Br. J. Radiol.*, 43: 886, 1980.

Willis B., Greiner F., and Orrison W., et al.: The incidence of vertebral artery injury after midcervical spine fracture or dislocation. *Neurosurg.*, 34:435-442, 1994.

Wood D.E., Dunkerly A.L., and Tromans A.M.: Results from bone mineral density scans in twenty-two paraplegics. *Spinal Cord*:pp.39(3):145-148, 2001.

Young W., Ransohoff J.: Acute spinal cord injuries: Experimental therapy, pathophysiological mechanisms, and recovery of function. In
Sherk H., Dunn E., and Eismont F.(eds.). *The Cervical Spine* (2nd ed.,pp.464-495). Philadelphia, J.B. Lippincott, 1989.

Zanze M., Souberbiell C., Kindemans C., Rossignol C., and Garabedian M. Procollagen propeptide and pyridinium Cross-Links as markers of type I Collagen turnover : sex and age related changed in healthy children. *J. Clin. Endo. And Metab.* 82 (9). 2971 – 2977. 1997.
