Index of Selected Rehabilitation Research and Development Literature (1979-1985)

Prosthetics/Amputation

General Amputation

1. **Amputation as cause of cardiovascular disorders (Editorial).** Hobson LB. *Bull Prosthet Res* 1979 Spr;(BPR 10-31):1-2.

2. **Amputation as a consequence of diabetes mellitus. An epidemiological review.** Falkel JE. *Phys Ther* 1983 June;63(6):960-964.

3. **Amputation following meningococcemia: A sequela to purpura fulminans.** Jacobsen ST and Crawford AH. *Clin Orthop Relat Res* 1984 May;185:214-219.

4. **Amputation for peripheral vascular disease in the paraplegic and tetraplegic.** Grundy DJ and Silver JR. *Paraplegia* 1983 Oct;21(5):305-311.

5. **Amputation revisited: The Knud Jansen lecture.** Murdoch G. *Prosthet Orthot Int* 1984 Apr;8(1):8-15.

6. **Amputation surgery and rehabilitation--The Toronto experience.** Edited by Kostuik JD. Edinburgh: Churchill Livingstone, 1981, 448 pp.

7. **Amputations.** Burgess EM. *Surg Clin N Am* 1983 June;63(3):749-770.

8. **Amputations after vascular trauma in civilians.** Adinolifi MF, Hardin WD, Jr, O'Connell RC and Kerstein MD. *South Med J* 1983;76(10):1241-1243,1248.

9. **Amputations and high tension electrical injuries.** Remensnyder JP. *Inter-Clin Inf Bull* 1980 Aug;17(9):1-6.

10. **Amputations for vascular insufficiency.** Netz P, Stark A and Ringertz H. *Prosthet Orthot Int* 1983;7(1):9-14.

11. **Arterial occlusive disease in amputee patients: Assessment with the doppler ultrasound flowmeter and correlation with rehabilitation.** Susak Z, Gaspar A and Najenson T. *Arch Phys Med Rehabil* 1980 June;61(6):269-272.

12. **Assessment of skin viability using fluorescein angiography prior to amputation.** Tanzer TL and Horne JG. *J Bone Joint Surg* 1982 July;64-A(6):880-882.

13. **Causal relationship between service-connected amputation and subsequent cardiovascular disorder: A review of the literature and a statistical analysis of the relationship.** Senate Committee Print No. 6, 96th Congress, lst Session, printed for the use of the Committee on Veterans' Affairs. *Bull Prosthet Res* 1979 Fall;16(2, BPR 10-32):18-53.

14. **Classification and management of congenital abnormalities of the femur.** Gillespie R and Torode IP. *J Bone Joint Surg* 1983 Nov;65-B(5):557-568.

15. **Clinical experience with triple amputations.** Staats TB. *Orthot Prosthet* 1982;36(2):69-84. 16.

16. **Combat casualties in Northern Thailand: Emphasis on land injuries and levels of amputation.** Traverso LW, Johnson DE, Fleming A and Wongrukmitr B. *Mil Med* 1981 Oct;146(10):682-685.

17. **Comments on orthopaedic research in amputation surgery, prosthetics and orthotics.** McCollough NC, Foort J, Wilson AB, Jr and Zettl JH. *Prosthet Orthot Int* 1981 Aug;5(2):97-102.

18. **Congenital amputation in Down's syndrome: A case report.** Sullivan RA, Jain S and Celikyol F. *Inter-Clin Inf Bull* 1980 July;17(8):1-4.

19. **Controlled environment treatment.** Troup IM. *Prosthet Orthot Int* 1980 Apr;4(1):15-28.

20. **Coping with amputation.** Wilson PG and Krebs MJS. *Vasc Surg* 1983 May-June;17(3):165-174.

21. **Early referral to limb deficiency clinics.** Angliss V. *Prosthet Orthot Int* 1981 Dec;5(3):141-143.

22. **General principles of limb amputation surgery.** Millard IL. *J Arkansas Med Soc* 1982 Dec;79(7):235.

23. **Major amputation in paraplegic and tetraplegic patients.** Grundy DJ and Silver JR. *Int Rehabil Med* 1984;6(4):162-165.

24. **Management of congenital and acquired amputation in children.** Lamb DW and Scott H. *Orthop Clin N Am* 1981 Oct;12(4):977-994.

25. **The management of healing problems in the dysvascular amputee.** Horne G and Abramowicz J. *Prosthet Orthot Int* 1982 Apr;6(1):38-40.

26. **Nutritional status: Importance in predicting wound-healing after amputation.** Dickhaut SC, DeLee JC and Page CP. *J Bone Joint Surg* 1984 Jan;66-A(1):71-75.

27. **The operative treatment of congenital limb malformation--part I: The Knud Jansen lecture.** Marquardt E. *Prosthet Orthot Int* 1980 Dec;4(3):135-144.

28. **The operative treatment of congenital limb malformation--part II: The Knud Jansen lecture.** Marquardt E. *Prosthet Orthot Int* 1981 Apr;5(1):2-6.

29. **The operative treatment of congenital limb malformation--part III: The Knud Jansen lecture.** Marquardt E. *Prosthet Orthot Int* 1981 Aug;5(2):61-67.

30. **Orthopaedic research in amputation surgery, prosthetics and orthotics.** McCollough NC. *Prosthet Orthot Int* 1981 Apr;5(1):7-10.

31. **Popliteal and infrapopliteal arterial injuries: Differential management and amputation rates.** Yeager RA, Hobson RW, II, Lynch TG, et al. *Am Surg* 1984;50(3):155-158.

32. **Railyard amputations in children.** Thompson GH, Boulardos G and Marcus RE *Inter-Clin Inf Bull* 1984 Spr;19(1):17.

33. **Revascularization or amputation.** Boontje AH. *Prosthet Orthot Int* 1979 Apr;3(1):20-25.

34. **Skin fluorescence, a method to predict amputation site healing.** McFarland DC, et al. *J Surg Res* 1982 Apr;32(4):410-415.

35. **The technique of major amputations for malignant tumors.** Karakousis CP. *J Surg Oncol* 1983 May;23(1):43-55.

36. **Therapeutic and economic impact of a modern amputation program.** Malone JM, Moore WS, Goldstone J and Malone SJ. *Bull Prosthet Res* 1979 Fall;16(2, BPR 10-32):7-17.

37. **Traumatic limb amputations and subsequent mortality from cardiovascular disease and other causes.** Hrubec Z and Ryder RA. *J Chron Dis* 1980;33(4):239-250.

General Amputation: Lower Limb

38. **Above-knee amputation in children.** Baumgartner RF. *Prosthet Orthot Int* 1979 Apr;3(1):26-30.

39. **Above-knee amputation--An "ideal" situation.** Murdoch G. *Prosthet Orthot Int* 1979 Apr;3(1):13-14.

40. **Age, diabetes and smoking in lower limb amputation for arterial occlusive disease.** Liedberg E and Persson BM. *Acta Orthop Scand* 1983 June;54(3):383-388.

41. **Amputation for congenital pseudarthrosis of the tibia: Indications and techniques.** McCarthy RE. *Clin Orthop Relat Res* 1982 June;166:58-61.

42. **Amputation of the forefoot: Predictive value of signs and clinical physiological tests.** Boeckstyns MEH and Jensen CM. *Acta Orthop Scand* 1984 Apr;55(2):224-226.

43. **Amputations of lower extremity.** Petrucelli RC. *Orthop Rev* 1981 June;10(6):113-119.

44. **Amputations through the middle part of the foot.** Christie J, Clowes CB and Lamb DW. *J Bone Joint Surg* 1980 Nov;62-B(4):473-474.

45. **Below-knee amputation and rehabilitation of amputees.** Fleurant FW and Alexander J. *Surg Gynecol Obstet* 1980 July;151:41-44.

46. **Bilateral wrist dislocation in an above-knee amputee with advanced rheumatoid arthritis (case report): Attempts at ambulation.** Dorto AJ and Green SM. *Am J Phys Med* 1984 Dec;63(6):298-302.

47. **Boyd amputations in children.** Blum CE and Kalamchi A. *Clin Orthop Res* 1982 May;165:138-143.

48. **Cause of wound complications in elderly patients with above-knee amputation.** Squires JW. *Am J Surg* 1982 Apr;14(4):523-527.

49. **Changes in the N1-P1 component of the somatosensory cortical evoked response in patients with partial limb amputation.** Sica REP, Sanz OP, Cohen LG, Freyre JD and Panizza M. *Electromyogr Clin Neurophysiol* 1984 June-July; 24(5):415-427.

50. **Clinical criteria and ankle pressure measurements in predicting healing of below-knee amputations.** Johnston KW, et al. *Can J Surg* 1982 Mar;25(2):201-206.

51. **A clinical study of amputations of the lower limb.** Agarwal AK, Goel MK, Srivastava RK and Rastogi S. *Prosthet Orthot Int* 1980 Dec;4(3):162-164.

52. **Congenital short femurs.** Kritter AE. *Inter-Clin Inf Bull* 1984 Spr; 19(1):10.

53. **Contralateral limb and patient survival after leg amputation.** Bodily KC, et al. *Am J Surg* 1983 Aug;146(2):280-282.

54. **Cyclic sequential compression of the lower limb in prevention of venous thrombosis.** Hartman JT, Pugh JL, Smith RD, Robertson WW, Jr, Yost RP and Janssen HF. *J Bone Joint Surg* 1982 Sep;64-A(7):1059-1062.

55. **Distal blood pressure measurement in lower limb amputees.** Kolind-Sorensen V and Marqversen J. *Acta Orthop Scand* 1979 Oct;50(5):571-572.

56. **The distal blood pressure predicts healing of amputations on the feet.** Holstein P. *Acta Orthop Scand* 1984 Apr;55(2):227-233.

57. **An effective method of skin traction in A-K guillotine amputation.** Serletti JC. *Clin Orthop Relat Res* 1981 June;157:212-214.

58. **The epidemiology of lower extremity amputations in diabetic individuals.** Most RS, et al. *Diabetes Care* 1983 Jan-Feb;6(1):87-91.

59. **Factors affecting the results of below-knee amputations in patients with and without diabetes.** Kacy SS, et al. *Surg Gynecol Obstet* 1982 Oct;155(4): 513-518.

60. **Femoral fractures in patients with lower extremity amputations.** Gonzalez EG and Mathews MM. *Arch Phys Med Rehabil* 1980 June;61(6):276-280.

61. **Fractures in lower limbs with prior amputation: A study of ninety cases.** Bowker JH, Rills BM, Ledbetter CA, Hunter GA and Holliday P. *J Bone Joint Surg* 1981 July;63-A(6):915-920.

62. **"Gas gangrene" after a below-knee amputation.** DuPont HL. *Hosp Pract* 1983 July;18(7):82A,82D.

63. **Guillotine amputation in the treatment of nonsalvageable lower extremity infections.** McIntyre KE, Jr, Bailey SA, Malone JM and Goldstone *J. Arch Surg* 1984 Apr;119(4):450-453.

64. **Hemicorporectomy for functional rehabilitation.** Friedman LW, Marin EL and Park YS. *Arch Phys Med Rehabil* 1981 Feb;62(2):83-86.

65. **Incidence of major amputations following gangrene of the lower limb.** Mandrup-Poulsen T and Jensen JS. *Prosthet Orthot Int* 1982 Apr;6(1):35-37.

66. **Incidence of reamputation and death after gangrene of the lower extremity.** Ebskov B and Josephson P. *Prosthet Orthot Int* 1980 Aug;4(2):7-80.

67. **Increased incidence of lower limb amputation for arterial occlusive disease.** Liedberg E and Persson BM. *Acta Orthop Scand* 1983 Apr;54(2):230-234.

68. **Knee disarticulation versus above-knee amputation.** Baumgartner RF. *Prosthet Orthot Int* 1979 Apr;3(1):15-19.

69. **Lower extremity amputation problems: Etiology, manifestations, and prevention.** Rubin G, Dixon M and Fischer E. *Orthot Prosthet* 1985;39(1):47-61.

70. **Lower extremity amputation-rehabilitation: Impact of a center concept.** Malone JM, Moore WS, Leal JM and Malone SJ. *Arch Surg* 1981 Jan;116(1):93-98.

71. **Major amputations for melanoma.** Kourtesis GJ, et al. *Aust NZ J Surg* 1983 June;53(3):241-244.

72. **Major amputations of the lower extremity for vascular disease.** Boontje AH. *Prosthet Orthot Int* 1980 Aug;4(2):87-89.

73. **The management of amputations of the leg using a new rigid foam plaster for prosthetic fitting.** Holter W, Echterhoff M, Blomer A and Verfurden H. *Int Orthop* 1980;4:73-77.

74. **Morbid implications of above-knee amputations.** Huston CC, Bivins BA, Ernst CB and Griffen WO, Jr. *Arch Surg* 1980 Feb;115(2):165-167.

75. **Mortality after major amputation following gangrene of the lower limb.** Mandrup-Poulsen T and Jensen JS. *Acta Orthop Scand* 1982 Dec;53(6):879-884.

76. **A new technique for reconstruction of an open above-knee amputation.** Rees R, Shack B, Hulsey T and Lynch J. *Plast Reconstr Surg* 1983;73(6):882-886.

77. **The partial foot amputation.** Rubin G. *J Am Podiatry Assoc* 1984 Oct;74(10):518-522.

78. **Partial foot amputations in children: A comparison of the several types with the Syme amputation.** Greene WB and Cary JM. *J Bone Joint Surg* 1982 Mar;64-A(3):438-443.

79. **The place of amputation in the management of the ischaemic lower limb in the dysvascular geriatric patient.** Redhead RG. *Int Rehabil Med* 1984;6(2):68-71.

80. **Prevention and treatment of ulcerations of the foot in unilaterally amputated diabetic patients.** Larsen K, Christiansen JS and Ebskov B. *Acta Orthop Scand* 1982 June;53(3):481-485.

81. **Predictive value of preoperative segmental blood pressure measurements in below-knee amputations.** Lepantalo MJ, et al. *Acta Chir Scand* 1982;148(7):581-584.

82. **Proper timing of amputation for open fractures of the lower extremities.** Brotman S, et al. *Am Surg* 1982 Sep;48(9):484-486.

83. **A prospective study of lower limb amputations.** Barber GG, et al. *Can J Surg* 1983 July;26(4):339-341.

84. **A prospective study of primary healing in lower limb amputations.** Morgan RF, et al. *Ir Med J* 1981 Oct;74(10):300-301.

85. **Proximal focal femoral deficiency--unconventional treatment.** Kiburz DW and Jacobs RR. *Inter-Clin Inf Bull* 1984 Spr;19(1):10-11.

86. **Recent advances in surgery of lower limb deficiencies.** Kruger LM. *Clin Orthop Relat Res* 1980 May;148:97-105.

87. **Rehabilitation for lower extremity amputation.** Malone JM, Moore WS, Leal JM and Childers SJ. *Arch Surg* 1981 Jan;116(1):93-98.

88. **Rehabilitation of patients following extremity amputation: An analysis of baseline, process and outcome.** Dove HG, Schneider KC and Richardson F. *Am Correct Ther J* 1982 July-Aug;36(4):94-102.

General Amputation: Upper Limb

89. **The role of vascular laboratory criteria in the selection of patients for lower extremity amputation.** Nicholas GG, et al. *Ann Surg* 1982 Apr;195(4):469-473.

90. **Rotational deformities of the lower limb in myelomeningocele: Evaluation and treatment.** Dias LS, Jasty MJ and Collins P. *J Bone Joint Surg* 1984 Feb;66-A(2):215-223.

91. **Rotationplasty of the lower limb for congenital defects of the femur.** Torode IP and Gillespie R. *J Bone Joint Surg* 1983 Nov;65-B(5):569-573.

92. **Segmental transcutaneous measurements of PO2 in patients requiring below-knee amputation for peripheral vascular insufficiency.** Burgess EM, Matsen FA, III, Wyss CR and Simmons CW. *J Bone Joint Surg* 1982 Mar;64-A(3):378-382.

93. **Skew flap myoplastic below-knee amputation: A preliminary report.** Robinson KP, Hoile R and Coddington T. *Br J Surg* 1982 Sep;69(9):554-557.

94. **Solitary bony metastasis to the foot with long survival following amputation.** Ghandur-Mnaymneh L and Mnaymneh W. *Clin Orthop Relat Res* 1982 June;166:117-120.

95. **Stiff-legged gait in hemiplegia: Surgical correction.** Waters RL, Garland DE, Perry J, Habig T and Slabaugh P. *J Bone Joint Surg* 1979 Sep;61-A(6):927-933.

96. **Syme and Boyd amputations in children.** Frankovitch KF and Farrell WJ. *Inter-Clin Inf Bull* 1984 Aug;19(3):61.

97. **Through-knee amputations.** Jensen JS, Poulsen TM and Krasnik M. *Acta Orthop Scand* 1982 June;53(3):463-466.

98. **Traumatic partial foot amputation.** Lange TA and Nasca RJ. *Clin Orthop Relat Res* 1984 May;185:137-141.

99. **Valgus lower limb deformity in the juvenile amputee.** Kiburz DW and Jacobs RR. *Inter-Clin Inf Bull* 1983 July;18(3):7-12,16.

100. **Vascular surgical audit-arterial reconstructions and amputations for lower limb ischaemia.** Thomas WE, et al. *Acta Chir Scand* 1983;149(2):127-132.

101. **Amputation for tumor of the upper arm.** Blader S, Gunterberg B and Markhede G. *Acta Orthop Scand* 1983 Apr;54(2):226-229.

102. **Basic technical considerations in reattachment surgery.** Meyer VE, Chen ZW and Beasley RW. *Orthop Clin N Am* 1981 Oct;12(4):871-895.

103. **Krukenberg's kineplasty and rehabilitation in a blind, bilateral full-hand amputee.** Sinaki M, Dobyns JH and Kinnunen JM. *Clin Orthop Relat Res* 1982 Sep;169:163-166.

104. **Krukenberg's operation.** Tubiana R. *Clin Orthop N Am* 1981 Oct;12(4):819-826.

105. **Measurement of electrical currents emerging during the regeneration of amputated finger tips in children.** Illingworth CM and Baker AT. *Clin Phys Physiol Meas* 1980 Feb;1(1):87-89.

Prosthetics/Amputation: Amputation Level

106. **Nerve entrapment syndromes in the upper extremity contralateral to amputation.** Reddy MP. *Arch Phys Med Rehabil* 1984 Jan;65(1):24-26.

107. **Organization for upper limb reattachment surgery.** Burton R, Beasley R, Omer GE, Jr and Meyer VE. *Orthop Clin N Am* 1981 Oct;12(4):915-927.

108. **Present indications and contraindications for replantation as reflected by long-term functional results.** Chen ZW, Meyer VE, Kleinert HE and Beasley RW. *Orthop Clin N Am* 1981 Oct;12(4):849-870.

109. **Problems in the evaluation of results from replantation surgery.** Burton RI. *Orthop Clin N Am* 1981 Oct;12(4):909-913.

110. **The rational selection of treatment for upper extremity amputations.** Brown PW. *Orthop Clin N Am* 1981 Oct;12(4):843-848.

111. **Reconstruction by autogenous toe transplantations for total hand amputation.** Chen ZW. *Orthop Clin N Am* 1981 Oct;12(4):835-842.

112. **Rehabilitation after amputations in the hand.** Wilson RL and Carter-Wilson MS. *Orthop Clin N Am* 1983 Oct;14(4):851-872.

113. **Rehabilitation of the bilateral below-elbow amputee by the Krukenberg procedure.** Mathur BP, Narang IC, Piplani CL and Majid MA. *Prosthet Orthot Int* 1981 Dec;5(3):135-140.

114. **Standardized technique for diagnosis of tarsal tunnel syndrome.** Irani KD, Grabois M and Harvey SC. *Am J Phys Med* 1982 Feb;61(1):26-31.

115. **The surgery of arm and forearm amputations.** Baumgartner RF. *Orthop Clin N Am* 1981 Oct;12(4):805-817.

116. **Surgery of hand and finger amputations.** Beasley RW. *Orthop Clin N Am1981* Oct;12(4):763-803.

117. **Transplantation of the second toe to the hand: A preliminary report of 16 cases.** Leung PC and Kok LC. *J Bone Joint Surg* 1980 Sep;62-A(6):990-996.

118. **Upper extremity replantation.** Kutz JE, Hanel D, Scheker L and Lopez G. *Orthop Clin N Am* 1983 Oct;14(4):873-891.

119. **Upper extremity replantation in children.** Jaeger SH, Tsai TM and Kleinert HE. *Orthop Clin N Am* 1981 Oct;12(4):897-907.

120. **Amputation of the ischaemic limb: Selection of the optimum site by thermography.** Spence VA, Walker WF, Troup IM and Murdoch G. *Angiology* 1981 Mar;32(3):155-169.

121. **Considerations in the determination of the amputation level of the diabetic foot.** Johnson RM. *J Am Podiatry Assoc* 1982 Apr;72(4):192-194.

122. **Doppler ultrasound in the assessment of amputation level.** Creaney MG, et al. *J R Coll Surg Edinb* 1981 Sep;26(5):278-281.

Prosthetics/Amputation: Amputation Stumps

123. **The "gold standard" for amputation level selection: Xenon-133 clearance.** Malone JM, Leal JM, Moore WS, Henry RE, Daly MJ, Patton DD and Childers SJ. *J Surg Res* 1981;30:449-455.

124. **Influence of failed vascular bypass procedures on conversion of below-knee to above-knee amputation levels.** Dardik H, et al. *Surgery* 1982 Jan;91(1):64-69.

125. **Improvement of amputation level by lower extremity revascularization.** Johansen K, et al. *Surg Gynecol Obstet* 1981 Nov;153(5):707-709.

126. **Level of amputation after failure of limb salvage procedures.** Samson RH, et al. *Surg Gynecol Obstet* 1982 Jan;154(1):56-58.

127. **Level-selection in leg amputation for arterial occlusive disease: A comparison of clinical evaluation and skin perfusion pressure.** Holstein P. *Acta Orthop Scand* 1982 Oct;53(5):821-831.

128. **Lower extremity amputation level: Selection using noninvasive hemo-dynamic methods of evaluation.** Cheng EY. *Arch Phys Med Rehabil* 1982 Oct;63(10):475-479.

129. **Measurement of skin perfusion pressure by photoelectric technique--An aid to amputation level selection in arteriosclerotic disease.** Ovesen J and Stockel M. *Prosthet Orthot Int* 1984 Apr;8(1):39-42.

130. **Prospective use of Xenon-133 clearance for amputation level selection.** Moore WS, Henry RE, Malone JM, Daly MJ, Patton D and Childers SJ. *Arch Surg* 1981 Jan;116(1):86-88.

131. **Radioisotope washout technique as a routine method for selection of amputation level.** Stockel M, Jorgensen JP, Brochner-Mortensen J and Emneus H. *Acta Orthop Scand* 1981 Aug;52(4):405-408.

132. **Selection of amputation level: Comparison between morphine puncture test and skin perfusion pressure.** Moller BN and Lucht U. *Acta Orthop Scand* 1983 Dec;54(6):943-945.

133. **Standardized photoelectric technique as routine method for selection of amputation level.** Stockel M, Ovesen J, Brochner-Mortensen J and Emneus H. *Acta Orthop Scand* 1982 Dec;53(6):875-878.

134. **Transcutaneous oxygen tension in selection of amputation level.** Katsamourtis A, Brewster DC, Megerman J, et al. *Am J Surg* 1984;147(4):510-517.

135. **The use of skin temperature determinations in lower extremity amputation level selection.** Golbranson FL, Yu EC and Gelberman RH. *Foot and Ankle* 1982;3(3):170-172.

136. **Amputee stump radiology.** Baumgartner R and Langlotz M. *Prosthet Orthot Int* 1980 Aug;4(2):97-100.

137. **Clinical predictors of below-knee stump healing following amputation for ischaemia.** Robbs JV, et al. *S Afr J Surg* 1982 Dec;20(4):305-310

138. **A clinical standard of stump measurement and classification in lower limb amputees.** Persson BM and Liedberg E. *Prosthet Orthot Int* 1983;7(1):17-24.

139. **A computerized device for the volumetric analysis of the residual limbs of amputees (Technical note).** Starr TW. *Bull Prosthet Res* 1980 Spr;17(1, BPR 10-33):98-102.

140. **Ischaemic wound complications in above-knee amputations in relation to the skin perfusion pressure.** Holstein P. *Prosthet Orthot Int* 1980 Aug;4(2):81-86.

141. **A measurement technique to assess residual limb volume.** Krouskop TA, Yalcinkaya M, Muilenburg AL, Holland KC and Zuniga ENN. *Orthop Rev* 1979 May;8(5):69-77.

142. **Pathogenesis of amputation stump overgrowth.** Speer DP. *Clin Orthop Relat Res* 1981 Sep;159:294-307.

143. **Prosthetic and stump problems of elderly amputees.** Ulsass W. *Orthop Tech* 1980 Apr;31(4):59-60. [German]

144. **Report on the principles and clinical experiences of a compression therapy prosthesis for B/K stump problems.** Winkler W and Fitzlaff G. *Orthop Tech* 1979 Dec;30(12):188-190. [German]

145. **Skin problems of the leg amputees.** Levy SW. *Prosthet Orthot Int* 1980 Apr;4(1):37-44.

146. **Study of stump growth in children with below-knee amputations.** Christie J, Lamb DW, McDonald JM and Britten S. *J Bone Joint Surg* 1979 Nov;61-B(4):464-465.

147. **Sutureless skin closure of amputation stumps in patient with peripheral arterial disease.** Hollands MJ, et al. *Ann R Coll Surg Engl* 1982 Nov;64 (6):412-413.

148. **Treatment of ischaemic ulcers of the lower extremities.** Klasson DH. *Angiology* 1980 Mar;31(3):210-219.

149. **Treatment of stump wound-healing problems in the vascular amputee.** Stern PH. *Orthop Rev* 1984 Aug;13(8):450-455.

150. **Volume fluctuations in the residual limbs of lower limb amputees.** Fernie GR and Holliday PJ. *Arch Phys Med Rehabil* 1982 Apr;63(4):162-165.

151. **Wound-healing complications following major amputations of the lower limb.** Jensen JS, Mandrup-Poulsen T and Krasnik M. *Prosthet Orthot Int* 1982 Aug;6(2):105-107.

Amputation Stumps: Stump Bandaging

152. **Beyond the rigid dressing: Pre-prosthetic ambulation for the below-knee amputee.** Parhad A, et al. *Am Correct Ther J* 1983 May-June;37(3):66-74,83-89.

153. **Comparing the effectiveness of elastic bandages and shrinker socks for lower extremity amputees.** Manella KJ. *Orthot Prosthet* 1982 Spr;36(1):30-34. [Also published in *Phys Ther* 1981 Mar;61(3):334-337]

Prosthetics/Amputation: Amputees

154. **Comparison of removable rigid dressings and elastic bandages in pre-prosthetic management of patients with below-knee amputations.** Mueller MJ. *Phys Ther* 1982 Oct;62(10):1438-1441.

155. **From the clinic: Fabrication of the removable rigid dressing and supracondylar cuff for the below-knee amputee.** Gervais B, Parhad A and Wu YC. *Am Correct Ther J* 1981 Sep-Oct;35(5):126-133.

156. **An innovative removable rigid dressing technique for below-the-knee amputations: A preliminary report.** Wu YC, Keagy RD, Krick HL, Stratigos JS and Betts HB. *J Bone Joint Surg* 1979 July;61-A(5):724-730.

157. **An innovative removable rigid dressing technique for below-the-knee amputation.** Wu YC, Keagy RD, Krick HJ, Stratigos JS and Betts HB. *Am Correct Ther J* 1980 Nov-Dec;34(6):169-175.

158. **Modern method of stump bandaging.** Callen S. *Physiotherapy* 1981 May;67(5):137-138.

159. **Postoperative and preprosthetic management of a below-knee amputee.** Katz RT and Wu YC. *Contemp Orthop* 1985 Jan;10(1):53-63.

160. **Postoperative management of lower extremity amputees using tubular elastic compression bandaging.** Brady WM. *Clin Prosthet Orthot* 1982 Spr;6(2):8-10.

161. **A prospective study of the rehabilitation of the above-knee amputee with rigid dressings: Comparison of immediate and delayed ambulation and role of physical therapists and prosthetists.** Thorpe W, Gerber LH, Lampert M, Reed J and Sabel I. *Clin Orthop Relat Res* 1979 Sep;143:133-137.

162. **Pressure applied by elastic prosthetic bandages: A comparative study.** Varghese G, Hindle P, Zilber S, Perry JE and Redford JB. *Orthot Prosthet* 1981 Dec;35(4):30-36.

163. **The use of the tube sock in amputee rehabilitation: The below knee amputee.** Thomas J, Gervais B, Parhad A, Krick H and Williams B. *Am Correct Ther J* 1981 Nov-Dec;35(6):146-154.

164. **Amputee rehabilitation: Critical factors in outcome.** Bowker JH. *J Arkansas Med Soc* 1981 Oct;78(5):181-183.

165. **The assessment and description of amputee activity.** Day HJB. *Prosthet Orthot Int* 1981 Apr;5(1):23-28.

166. **Camp-workshop for adolescent amputees: An interval report.** Diurba B, Gregg G and Green WL. *Inter-Clin Inf Bull* 1984 Aut;19(3):59.

167. **Challenges of high-level upper limb absence: Creative solution.** Patton JG. *Inter-Clin Inf Bull* 1984 Aug;19(3):53.

168. **Developmental factors in the care of the adolescent amputee.** Curry BD. *Orthot Prosthet* 1980 Sep;34(3):17-21.

169. **The dysvascular amputee: Multidisciplinary management.** Kaplow M, et al. *Can J Surg* 1983 July;26(4):368-369.

170. **Evaluation of amputees.** Khoury SA. *Int J Rehabil Res* 1983 Dec;6(4):449-454.

171. **Evaluation of problems and needs of veteran lower limb amputees in the San Francisco Bay area during the period 1977-1980.** Hoaglund FT, Jergesen HE, Wilson L, Lamoreux LW and Roberts R. *J Rehabil Res Dev* 1983 July;20(1):57-71.

172. **An evolutionary perspective on the development of a parent association: Child amputee support society.** Simmons E. *Inter-Clin Inf Bull* 1983 July;18(3):13-15.

173. **The fate of the below-knee amputee.** DeCossart L, Randall P, Turner P and Marcuson RW. *Ann R Coll Surg Engl* 1983 July;65(4):230-232.

174. **Factors influencing the outcome of major lower limb amputations.** Hyland J, et al. *Ir Med J* 1982 Feb;75(2):58-60.

175. **Functional capabilities of lower limb amputees.** Narang IC, Mathur BP, Singh P and Jape VS. *Prosthet Orthot Int* 1984 Apr;8(1):43-51.

176. **Infant amputees: Early growth and care.** Rosenfelder R. *Clin Orthop Relat Res* 1980 May;148:41-46.

177. **An investigation into the management of bilateral leg amputees.** Van De Ven CMC. *Br Med J [Clin Res]* 1981 Sep 12;283(6293):707-710.

178. **Juvenile amputees classification and revision rates.** Shurr DG, Cooper RR, Buckwalter JA and Blair WF. *Orthot Prosthet* 1982;36(2):22-28.

179. **Limb salvage following digital amputation.** Shanik DG, et al. *Ir Med J* 1982 Feb;75(2):52-53.

180. **Living with an amputation: The patient.** Thompson DM and Haran D. *Int Rehabil Med* 1983;5(4):165-169.

181. **Living with an amputation: What it means for patients and their helpers.** Thompson DM and Haran D. *Int J Rehabil Res* 1984;7(3):283-292.

182. **Management of bilateral lower limb amputees: An investigation.** Van de Ven CMC. *Physiotherapy* 1982 Feb;68(2):45-46.

183. **Management of bilateral upper limb amputees.** Baumgartner R. *Orthop Clin N Am* 1981 Oct;12(4):971-976.

184. **A medical-social study of upper limb amputees in Hong Kong--A preliminary report.** Chan KM, Lee SY, Leung KK and Leung PC. *Orthot Prosthet* 1983-84 Wint;37(4):43-48.

185. **Multiple amputees: The Gillette experience.** Fielden RHN. *Inter-Clin Inf Bull* 1984 Aut;19(3):60.

186. **The multiple limb-deficient child--When the patient/family declines to accept services offered.** Leonard JA, Jr and Kohl SJ. *Inter-Clin Inf Bull* 1984 Aug;19(3):58.

187. **A multi-purpose kitchen aid: The results of a project to look at the problems faced in the kitchen by those with the use of only one hand.** Wilsong J. *Int J Rehabil Res* 1984;7(4):439-441.

188. **Networking families in a prosthetic clinic for children.** Chepolis L and Thorp N. *Inter-Clin Inf Bull* 1984 Wint;19(4):80-82.

189. **New trends in the rehabilitation of lower extremity amputees.** Goldberg RT. *Rehabil Lit* 1984 Jan-Feb;45(1-2):2-11.

190. **Optimizing the function of geriatric amputees.** Edelstein JE. *Phys Occup Ther Geriatr* 1980;1(1):21-41.

191. **The origins of stigma: Reactions by male and female pre-school children to a leg amputation.** Somervill JW, Cordoba ON, Abbott RS and Brown PF. *Am Correct Ther J* 1982 Jan-Feb;36(1):14-17.

192. **Patient and family perceptions of a juvenile amputee clinic.** Suderman V, Tervo RC and Leszczynski J. *Inter-Clin Inf Bull* 1982 June;18(2):1-4,17.

193. **The pediatric amputee: An epidemiologic survey.** Goldberg MJ, Bartoshesky LE and O'Toole D. *Orthop Rev* 1981 Oct;10(10):49-54.

194. **The quadrimembral limb-deficient child.** Meyer LC, Bobalik K, Little J and Withrow C. *Inter-Clin Inf Bull* 1984 Aut;19(3):61.

195. **Rehabilitating the geriatric amputee: What the primary MD should know.** Oh SH. *Geriatrics* 1982 Dec;37(12):91-95.

196. **Rehabilitation management of amputees.** Edited by Banerjee SN. Baltimore, MD: Williams and Wilkins, 1982, 456p.

197. **Rehabilitation of the elderly amputee.** Clark GS, et al. *J Amsoc* 1983 July;31(7):439-448.

198. **Rehabilitation of the leg amputee in the community.** Hamilton A. *Practioner* 1981 Oct;225(1360);1487-1497.

199. **Toileting self-care methods for bilateral high level upper limb amputees.** Friedmann L. *Prosthet Orthot Int* 1980 Apr;4(1):29-36.

200. **Traction for the bilateral lower extremity amputee: A World War II improvisation (Technical note).** Holscher EC. *J Rehabil Res Dev* 1983 July;20(1):92-93.

201. **Tying a shoe lace one-handed.** Hills RE. *Physiotherapy* 1984 Oct;7(10):395.

202. **Using an elemental analysis of the motion pattern to assess the work performance of amputees.** Gilad I. *Hum Factors* 1982 Aug;24(4):427-435.

Amputees: Psychology

203. **Above-knee amputations in psychiatric inpatients.** Tomaszek DE, et al. *Am J Psychiatry.* 1983 Aug;140(8):1034-1036.

204. **Depression among amputees.** Kashani JH, et al. *J Clin Psychiatry* 1983 July;44(7):256-258.

Prosthetics/Amputation: Biomechanics

205. **Emotional aspects of arm or leg amputation in children.** Turgay A, et al. *Can J Psychiatry.* 1983 June;28(4):294-297.

206. **The impact of medical, reeducational, and psychological variables on rehabilitation outcome in amputees.** Gerhards F, Florin I and Knapp T. *Int J Rehabil Res* 1984;7(4):379-388.

207. **Limb fitting and survival in the dysvascular double above-knee amputee.** Muthu S. *J R Coll Surg Edinb* 1983 May;28(3):157-159.

208. **A psychiatric study of amputees.** Shukla GD, et al. *Br J Psychiatry* 1982 July;141:50-53.

209. **Psychological adaptation to amputation: An overview.** Bradway JK, Malone JM, Racy J, Leal JM and Poole J. *Orthot Prosthet* 1984 Aut;38(3):46-50.

210. **Psychological adaptation to traumatic limb loss.** Kohl SJ. *Inter-Clin Inf Bull* 1984 Aut;19(3):58.

211. **Psychological response to amputation as a function of age and time since amputation.** Frank RG, Kashani JH, Kashani SR, et al. *Br J Psychiatry* 1984;144(5):493-497.

212. **Some adjustment indices of oral-maxillofacial war casualties, limb amputees, and noninjured veterans.** Curley MD, Walsh JM and Triplett RG. *Mil Med* 1982 July;147(7):572-574.

213. **Anatomical frames of reference and biomechanics.** Reynolds HM and Hubbard RP. *Hum Factors* 1980 Apr;22(2):171-176.

214. **Attachment and composition of skeletal muscles in relation to their function.** Van Mameren H and Drukker J. *J Biomech* 1979;12(11):859-867.

215. **Behavior modification in physical therapy.** Gouvier WD, Richards JS, Blanton PD, Janert K, Rosen LA and Drabman RS. *Arch Phys Med Rehabil* 1985 Feb;66(2):113-116.

216. **Biomechanics: Applications, cost and benefits, priorities.** Akkas N, Goldsmith W and Kenedi RM. *J Biomech* 1980;13(9):737-743.

217. **Closed loop problems in biomechanics--Part I: A classification system.** Vaughan CL, Hay JG and Andrews JG. *J Biomech* 1982;15(3):197-200.

218. **Closed loop problems in biomechanics--Part II: An optimization approach.** Vaughan CL, Hay JG and Andrews JG. *J Biomech* 1982;15(3):201-210.

219. **A dynamic biomechanical evaluation of lifting maximum acceptable loads.** Freivalds A, Chaffin DB, Garg A and Lee KS. *J Biomech* 1984;17(4):251-262.

220. **A dynamometer for biomechanical use.** Nathan RH. *J Biomed Eng* 1979 Apr;1(2):83-88.

221. **Effect of therapeutic ultrasound intensity on subcutaneous tissue temperature and ulnar nerve conduction velocity.** Kramer JF. *Am J Phys Med* 1985 Feb;64(1):1-9.

222. **Errors in kinematic parameters of a planar joint: Guidelines for optimal experimental design.** Panjabi MM, Goel VK and Walter SD. *J Biomech* 1982;15(7):537-544.

223. **Forces during squatting and rising from a deep squat.** Dahlkvist NJ, Mayo P and Seedhom BB. *Eng Med* 1982 Apr;11(2):69-76.

224. **Forces exerted on gymnasts during hip beat exercises on the asymmetric bars.** Robertson EA, Nicol AC and Paul JP. *Eng Med* 1981 Oct;10(4):203-205.

225. **Functional analysis of the role of the finger tendons.** Storace A and Wolf B. *J Biomech* 1979;12(8):575-578.

226. **Hand grip function in patients with rheumatoid arthritis.** Myers DB, Grennan DM and Palmer DG. *Arch Phys Med Rehabil* 1980 Aug;61(8):369-373.

227. **Hand strength measurement instruments.** An KN, Chao EYS and Askew LJ. *Arch Phys Med Rehabil* 1980 Aug;61(8):366-368.

228. **Joint receptor contributions to reflexive and kinesthetic responses.** Newton RA. *Phys Ther* 1982 Jan;62(1):22-29.

229. **Kinematic symmetry of the lower limbs.** Hannah RE, Morrison JB and Chapman AE. *Arch Phys Med Rehabil* 1984 Apr;65(4):155-158.

230. **Knowledge of anatomy and physiology as a determinant of biofeedback performance.** Montgomery GT, Silva-Herrera D and Cain E. *Am J Phys Med* 1982 Aug;61(4):193-197.

231. **Left ventricular work and power: circumferential, radial, and longitudinal components: Mathematical derivation and characteristic variation with left ventricular dysfunction.** Phillips CA, Grood ES, Schuster B and Petrofsky JS. *J Biomech* 1982;15(6):427-440.

232. **Measurement of surface deformation of soft tissue.** Stokes I and Greenapple DM. *J Biomech* 1985;18(1):1-7.

233. **The mechanical behavior of active human skeletal muscle in small oscillations.** Cannon SC and Zahalak GI. *J Biomech* 1982;15(2):111-121.

234. **Muscle function in Ehlers-Danlos syndrome.** Bilkey WJ, Baxter TL, Kottke FJ and Mundale MO. *Arch Phys Med Rehabil* 1981 Sep;62(9):444-448.

235. **Muscle strengths and musculo-skeletal geometry of the upper limb.** Amis AA, Dowson D and Wright V. *Eng Med* 1979 Jan;8(1):41-48.

236. **Musculocutaneous neurectomy for spastic elbow flexion in non-functional upper extremities in adults.** Garland DE, Thompson R and Waters RL. *J Bone Joint Surg* 1980 Jan;62-A(1):108-112.

237. **Myocardial material mechanics: Characteristic variation of the circumferential and longitudinal systolic modulin in left ventricular dysfunction.** Phillips CA and Petrofsky JS. *J Biomech* 1984;17(8):561-568.

238. **New possibilities of improving the function of the hand of patients with spastic hemiplegia.** Kiwerski J. *Int J Rehabil Res* 1984;7(3):293-298.

239. **Patterns of static prehension in normal hands.** Kamakura N, Matsuo M, Ishii H, Mitsuboshi F and Miura Y. *Am J Occup Ther* 1980 July;34(7):437-445.

Biomechanics: Electromyography

240. **A review of biomechanical models.** King AI. *J Biomech Eng* 1984 May;106(2):97-104.

241. **A semi-empirical pressure analysis for anatomy constrained by elastic support.** Montgomery JR. *J Biomech* 1984;17(8):569-572.

242. **Simple apparatus based on a programmable calculator for measuring energy expenditure in man.** Danielsson U. *Med Biol Eng Comput* 1979 May;17(3):404-406.

243. **A technique for obtaining spatial kinematic parameters of segments of biomechanical systems from cinematographic data.** Miller NR, Shapiro R and McLauglin TM. *J Biomech* 1980;13(7):535-547.

244. **Temporal firing sequences of antagonistic muscles.** Lofthus GK. *Am J Phys Med* 1979 Oct;58(5):230-239.

245. **Tibial lengthening apparatus with distractive force measurement system.** Ma RYP, Sykes JL, Cornish LS, Lau SH, Leung TM and Leong JCY. *J Biomed Eng* 1980 Oct;2(4):265-271.

246. **Ulnar nerve conduction study of the first dorsal interosseous muscle.** Olney RK and Wilbourn AJ. *Arch Phys Med Rehabil* 1985 Jan;66(1):16-18.

247. **Ultrasound evaluation of the anterior musculofascial compartment of the leg following exercise.** Gershuni DH, Gosink BB, Hargens AR, Gould RN, Forsythe JR, Murbarak SJ and Akeson WH. *Clin Orthop Relat Res* 1982 July;167: 185-190.

248. **Arm positioning in manual tasks: An electromyographic study of localized muscle fatigue.** Herberts P, Kadefors R and Broman H. *Ergonomics* 1980 July;23(7):655-665.

249. **Biofeedback in physical medicine and rehabilitation.** Fernando CK and Basmajian JV. *Biofeedback Self-Regul* 1978 Dec;3(4):435-455.

250. **Biofeedback in rehabilitation: A review of principles and practices.** Basmajian JV. *Arch Phys Med Rehabil* 1981 Oct;62(10):469-475.

251. **Bladder electromyography response to electric stimulation and to terbutaline.** Kaplan PE, Nanninga JB and Richardson RR. *Arch Phys Med Rehabil* 1981 Sep;62(9):424-427.

252. **Changes in mechanical and bioelectrical muscular activity and in heart rate due to sustained voluntary isometric contractions and time required for recovery. Part I: Contractions at a constant level of bioelectrical activity.** Kramer H, Lun A, Mucke R and Kuchler G. *Electromyogr Clin Neurophysiol* 1979 June-Aug;19(4):381-388.

253. **Changes in mechanical and bioelectrical muscular activity and in heart rate due to sustained voluntary isometric contractions and time required for recovery. Part II: Contractions at a constant level of force.** Kramer H, Rhein A, Brauer D and Kuchler G. *Electromyogr Clin Neurophysiol* 1979 June-Aug;19(4):389-398.

254. **A clinical electrogoniometry system.** James WV and Orr JF. *Eng Med* 1982 July;11(3):123-124.

255. **The clinical use of surface EMG.** Hermens HJ, Boon KL and Zilvold G. *Electromyogr Clin Neurophysiol* 1984 May;24(4):243-265.

256. **Collateral reduction of muscle tension and self-reported anxiety in a cerebral palsied client using EMG feedback.** Wesolowski MD. *Am J Clin Biofeedback* 1982 Fall-Wint;5(2):138-144.

257. **Comparison of actual and simulated EMG biofeedback in the treatment of hemiplegic patients.** Hurd WW, Pegram V and Nepomuceno C. *Am J Phys Med* 1980 Apr;59(2):73-82.

258. **A critical review of electroglottography.** Childers DG and Krishnamurthy AK. *CRC Crit Rev Biomed Eng* 1985;12(2):131-161.

259. **Direct on-line estimation of muscle fiber conduction velocity by surface electromyography.** Lynn PA. *IEEE Trans Biomed Eng* 1979 Oct;BME-26(10):564-571.

260. **Effect of load and carrying position on the electromyographic activity of the gluteus medius muscle during walking.** Neumann DA and Cook TM. *Phys Ther* 1985 Mar;65(3):305-311.

261. **Efficacy of myofeedback therapy in regaining control of lower extremity musculature following stroke.** Shiavi RG, Champion SA, Freeman FR and Bugel HJ. *Am J Phys Med* 1979 Aug;58(4):185-194.

262. **Electrical conductivity of skeletal muscle tissue: Experimental results from different muscles in vivo.** Gielen JLH, Wallinga-de Jonge W and Boon KL. *Med Biol Eng Comput* 1984 Nov;22(6):569-577.

263. **Electrical stimulation to reduce chronic toe-flexor hypertonicity: A case report.** Fulbright JS. *Phys Ther* 1984 Apr;64(4):523-525.

264. **Electrode placement in EMG biofeedback.** Basmajian JV and Blumenstein R. Baltimore, MD: Williams and Wilkins, 1980, 88 pp.

265. **Electromyographic activity of shoulder muscles during unilateral upper extremity proprioceptive neuromuscular facilitation patterns.** Sullivan PE and Portney LG. *Phys Ther* 1980 Mar;60 (3):283-288.

266. **Electromyographic analysis of quadriceps femoris muscle setting and straight leg raising.** Soderberg GL and Cook TM. *Phys Ther* 1983 Sep;63(9):1434-1438.

267. **Electromyographic analysis of shoulder muscle load.** Sigholm G, Herberts P, Almstrom C and Kadefors R. *J Orthop Res* 1984;1(4):379-386.

268. **Electromyographic biofeedback applications to the hemiplegic patient: Changes in upper extremity neuromuscular and functional status.** Wolf SL and Binder-MacLeod SA. *Phys Ther* 1983 Sep;63(9):1393-1403.

269. **Electromyographic biofeedback applications to the hemiplegic patient: Changes in lower extremity neuromuscular and functional status.** Wolf SL and Binder-MacLeod SA. *Phys Ther* 1983 Sep;63(9):1404-1413.

270. **Electromyographic biofeedback applications to stroke patients: A critical review.** Wolf SL. *Phys Ther* 1983 Sep;63(9):1448-1459.

271. **Electromyographic biofeedback for tension control during fine motor skill acquisition.** French SN. *Biofeedback Self-Regul* 1980 June;5(2):221-228.

272. **Electromyographic biofeedback to dissociate an upper extremity synergy pattern: A case report.** Honer J, Mohr T and Roth R. *Phys Ther* 1982 Mar;62(3):299-303.

273. **Electromyographic feedback: Effect on voluntary muscle contractions in paretic subjects.** Middaugh SJ and Miller MC. *Arch Phys Med Rehabil* 1980 Jan;61(1):24-29.

274. **Electromyographic feedback: Effects on voluntary muscle contractions in normal subjects.** Middaugh SJ, Miller MC, Foster G and Ferdon MB. *Arch Phys Med Rehabil* 1982 June;63(6):254-260.

275. **Electromyographic findings in the intrinsic muscles of normal feet.** Gatens PF and Saeed MA. *Arch Phys Med Rehabil* 1982 July;63(7):317-318.

276. **Electromyographic patterns accompanying isokinetic exercise under varying speed and sequencing conditions.** Osternig LR, Hamill J, Corcos DM and Lander J. *Am J Phys Med* 1984 Dec;63(6):289-297.

277. **Electromyographic signs of shoulder muscular fatigue in two elevated arm positions.** Hagberg M. *Am J Phys Med* 1981 June;60(3):111-121.

278. **Electromyographic study of the trapezius (pars media) and rhomboideus major muscles in movements of the arm (Part I).** De Freitas V and Vitti M. *Electromyogr Clin Neurophysiol* 1981 June-Aug;21(5):469-478.

279. **Electromyographic study of the trapezius (pars media) and rhomboideus major muscles in movements of the arm (Part II).** De Freitas V and Vitti M. *Electromyogr Clin Neurophysiol* 1981 June-Aug;21(5):479-485.

280. **Electromyography of the quadriceps femoris muscle in subjects with normal knees and acutely effused knees.** Straford P. *Phys Ther* 1982 Mar;62(3):279-283.

281. **EMG biofeedback in stroke: Effect of patient characteristics.** Wolf SL, Baker MP and Kelly JL. *Arch Phys Med Rehabil* 1979 Mar;60(3):96-103.

282. **EMG biofeedback in stroke: A 1-year follow-up on the effect of patient characteristics.** Wolf SL, Baker MP and Kelly JL. *Arch Phys Med Rehabil* 1980 Aug;61(8):351-355.

283. **EMG biofeedback therapy in the re-education of the hemiplegic shoulder in patients with sensory loss.** Skelly AM and Kenedi RM. *Physiotherapy* 1982 Feb;68(2):34-38.

284. **EMG changes during acquisition of a motor skill.** Ludwig DA. *Am J Phys Med* 1982 Oct;61(5):229-243.

285. **EMG feedback treatment of upper limb in hemiplegic stroke patients: A pilot study.** Basmajian JV, Gowland C, Brandstater ME, Swanson L and Trotter J. *Arch Phys Med Rehabil* 1982 Dec;63(12):613-616.

286. **EMG-force relationships in skeletal muscle.** Perry J and Bekey GA. *CRC Crit Rev Bioeng* 1981 Dec;7(1):1-22.

287. **An EMG preamplifier system for biomechanical studies.** Foulke JA, Goldstein SA and Armstrong TJ. *J Biomech* 1981;14(6):437-438.

288. **EMG to force processing I: An electrical analogue of the hill muscle model.** Hof AL and Van den Berg Jw. *J Biomech* 1981;14(11):747-758.

289. **EMG to force processing II: Estimation of parameters of the hill muscle model for the human triceps surae by means of a calfergometer.** Hof AL and Van den Berg Jw. *J Biomech* 1981;14(11):759-770.

290. **EMG to force processing III: Estimation of model parameters for the human triceps surae muscle and assessment of the accuracy by means of a torque plate.** Hof AL and Van den Berg Jw. *J Biomech* 1981;14(11):771-785.

291. **EMG to force processing IV: Eccentric-concentric contractions on a spring-flywheel set-up.** Hof AL and Van den Berg Jw. *J Biomech* 1981;14(11): 787-792.

292. **Estimation of muscle force from intramuscular total pressure.** Parker PA, Korner L and Kadefors R. *Med Biol Eng Comput* 1984 Sep;22(5):453-457.

293. **Evoked muscle action potentials in patients with muscular dystrophy.** Lopez-Estrada E and Lopez E. *Arch Phys Med Rehabil* 1984 Nov;65(11):717-720.

294. **Excitation frequency and muscle fatigue: Electrical responses during human voluntary and stimulated contractions.** Bigland-Ritchie B, Jones DA and Woods JJ. *Exp Neurol* 1979 May;64(2):414-427.

295. **Excitation frequency and muscle fatigue: Mechanical responses during voluntary and stimulated contractions.** Jones DA, Bigland-Ritchie B and Edwards RHT. *Exp Neurol* 1979 May;64(2):401-413.

296. **Filter bank analyser for automatic analysis of the EMG.** Petrofsky JS. *Med Biol Eng Comput* 1980 Sep;18(5):585-600.

297. **Function of the quadriceps femoris muscle under the full range of forces and differing contraction velocities of concentric work.** Eloranta V and Komi PV. *Electromyogr Clin Neurophysiol* 1981 Apr-May;21(4):419-431.

298. **High tension surface EMG.** Pollak V. *Am J Phys Med* 1981 Apr;60(2):76-83.

299. **Improvement in isometric strength of the quadriceps femoris muscle after training with electrical stimulation.** Selkowitz DM. *Phys Ther* 1985 Feb;65(2): 186-196.

300. **Impulse technique for dynamic measurements of muscular structures in biomechanical applications.** Bracale M, Castaldo R, Cesarelli M and Ragosta C. *Med Biol Eng Comput* 1984 Nov;22(6):578-584.

301. **Isometric torque of the quadriceps femoris after concentric, eccentric and isometric training.** Pavone E and Moffat M. *Arch Phys Med Rehabil* 1985 Mar;66(3):168-170.

302. **Kinematic and force data collection in biomechanics by means of sonic emitters--Part I: Kinematic data collection methodology.** Engin AE, Peindl RD, Berme N and Kaleps I. *J Biomech Eng* 1984 Aug;106(3):204-211.

303. **Kinematic and force data collection in biomechanics by means of sonic emitters--Part II: Force data collection and application to the human shoulder complex.** Engin AE, Peindl RD, Berme N and Kaleps I. *J Biomech Eng* 1984 Aug;106(3):212-219.

304. **Kinematic and myoelectric analysis of skill acquisition. Part I: 90 cm subject group.** Vorro J and Hobart D. *Arch Phys Med Rehabil* 1981 Nov;62(11):575-582.

305. **Kinematic and myoelectric analysis of skill acquisition. Part II: 150cm subject group.** Vorro J and Hobart D. *Arch Phys Med Rehabil* 1981 Nov;62(11):582-589.

306. **Linear and non-linear surface EMG/force relationships in human muscles: An anatomical/functional argument for the existence of both.** Woods JJ and Bigland-Ritchie B. *Am J Phys Med* 1983 Dec;62(6):287-299.

307. **Longitudinal electrode arrays for electromyography (Technical note).** Emerson ND and Zahalak GI. *Med Biol Eng Comput* 1981 July;19(4):504-506.

308. **Measurements of the uptake area of small-size electrodemyographic electrodes.** Gath I and Stalberg E. *IEEE Trans Biomed Eng* 1979 June;BME-26(6):374-376.

309. **Miniature implantable tantalum/tantalum oxide stimulating electrodes.** Lerner H, Zahradnik R and Buchbinder M. *IEEE Trans Biomed Eng* 1982 Apr;BME-29(4):290-292.

310. **Muscular synergism--I: On criteria for load sharing between synergistic muscles.** Dul J, Townsend MA, Shiavi R and Johnson GE. *J Biomech* 1984;17(9): 663-673.

311. **Muscular synergism--II: A minimum-fatigue criterion for load sharing between synergistic muscles.** Dul J, Johnson GE, Shiavi R and Townsend MA. *J Biomech* 1984;17(9):675-684.

312. **Myoelectrical manifestations of localized muscular fatigue in humans.** De Luca CJ. *CRC Crit Rev Biomed Eng* 1984;11(4):251-279.

313. **A new framework and computer program for quantitative EMG signal analysis.** Gerber A, Studer RM, De Figueiredo RJP and Moschytz GS. *IEEE Trans Biomed Eng* 1984 Dec;BME-31(12):857-863.

314. **On-line electromyographic signals processing system.** Coatrieux JL. *IEEE Trans Biomed Eng* 1984 Feb;BME-31(2):199-207.

315. **On the processing of electromyograms for computer analysis.** Halbertsma JM and De Boer RR. *J Biomech* 1981;14(6):431-435.

316. **Optimizing the acquisition and processing of surface electromyographicsignals.** Harba MIA and Lynn PA. *J Biomed Eng* 1981 Apr;3(2):100-106.

317. **Pasteless electrode for clinical use.** De Luca CJ, Le Fever RS and Stulen FB. *Med Biol Eng Comput* 1979 May;17(3):387-390.

Biomechanics: Foot Pressure Analysis

318. **Pendulum testing of spasticity.** Bajd T and Vodovnik L. *J Biomed Eng* 1984 Jan;6(1):9-16.

319. **Performance evaluation of surgical diathermy indifferent electrodes.** Whelpton D. *Clin Phys Physiol Meas* 1980 Feb;1(1):59-70.

320. **Procedures for EMG biofeedback training in involved upper extremities of hemiplegic patients.** Kelly JL, Baker MP and Wolf SL. *Phys Ther* 1979 Dec;59(12):1500-1507.

321. **Rehabilitation of an electrical burn patient through thermal biofeedback.** Bird EI and Colborne GR. *Biofeedback Self-Regul* 1980 June;5(2):283-287.

322. **Relation of intramuscular pressure to the force output and myoelectric signal of skeletal muscle.** Korner L, Parker PA, Almstrom C, Andersson GBJ, Herberts P, Kadefors R, Palmerud G and Zetterberg C. *J Orthop Res* 1984;2(3): 289-296.

323. **Relationship between myoelectric signals and blood lactate during incremental forearm exercise.** Moritani T, Tanaka H, Yoshida T, Ishii C, Yoshida T and Shindo M. *Am J Phys Med* 1984 June;63(3):122-132.

324. **Relationships of the surface electromyogram to the force, length, velocity, and contraction rate of the cineplastic human biceps.** Heckathorne CW and Childress DS. *Am J Phys Med* 1981 Feb;60(1):1-19.

325. **Review of quantitative and automated needle electromyographic analyses.** Richfield EK, Cohen BA and Albers JW. *IEEE Trans Biomed Eng* 1981 July;BME-28(7):506-514.

326. **The size of active motor unit in the initiation and maintenance of an isometric contraction carried out to fatigue.** Blank A, Gonen B and Magora A. *Electromyogr Clin Neurophysiol* 1979 Nov-Dec;19(6):535-539.

327. **Some electrophysiological methods for the study of human muscle.** Stalberg E. *J Biomed Eng* 1980 Oct;2(4):290-298.

328. **Stripping poly-imide resin (trimel) enamel insulation from fine wire to produce electromyography electrodes.** Stallard J, Major RE and Rose GK. *J Biomed Eng* 1981 Apr;3(2):159-160.

329. **Surface EMG and muscle force at low force levels.** Pollak V. *Am J Phys Med* 1980 June;59(3):126-141.

330. **Turning points spectral analysis of the interference myoelectric activity.** Lago PJA and Jones NB. *Med Biol Eng Comput* 1983 May;21(3):333-342.

331. **Use of signal representation to identify abnormal motor unit potentials in macro EMG.** Nandedkar SD, Stalberg E, Kim YI, Sanders DB and Anne A. *IEEE Biomed Eng* 1984 Feb;BME-31(2):220-227.

332. **Volume conduction in electromyography: Experimental and theoretical review.** DeLisa JA and Brozovich FV. *Electromyogr Clin Neurophysiol* 1983 Nov-Dec;23(7):651-673.

333. **Analysis of pressures and loads under the foot. Part I: Quantitative of the static distribution using the PET computer.** Betts RP, Franks CI and Duckworth T. *Clin Phys Physiol Meas* 1980 May;1(2) :101-112.

334. **Analysis of pressures and loads under the foot. Part II: Quantitative of the dynamic distribution.** Betts RP, Franks CI and Duckworth T. *Clin Phys Physiol Meas* 1980 May;1(2):113-124.

335. **An analysis of soft tissue loading in the foot--A preliminary report.** Nakamura S, Crownshield RD and Cooper RR. *Bull Prosthet Res* 1981 Spr; 18(1, BPR 10-35):27-34.

336. **The center of pressure path in treated clubfeet.** Brand RA, Laaveg SJ, Crowninshield RD and Ponseti IV. *Clin Orthop Relat Res* 1981 Oct;160:43-47.

337. **Comparative display of dynamic foot-ground pressure data (pelmatobarography).** Johnson F and Kong DMC. *Eng Med* 1981 July;10(3):159-161.

338. **Critical light reflection at a plastic/glass interface and its application to foot pressure measurement.** Betts RP, Austin IG, Duckworth T, Crocker S and Moore S. J *Med Eng Technol* 1980;4:136-142.

339. **A device for measuring plantar pressures under the sole of the foot.** Betts RP and Duckworth T. *Eng Med* 1978 Oct;7(4):223-228.

340. **The distribution of force under the human foot--An on-line measuring system.** Dhanendran M, Hutton WC and Paker Y. *Measur Control* 1978 July;11:261-264.

341. **The effect of immobilization devices on the load distribution under the foot.** Shereff MJ, Bregman AM and Kummer FJ. *Clin Orthop Relat Res* 1985 Jan-Feb;192:260-267.

342. **Foot-ground pressure pattern of standing hemiplegic patients: Majorcharacteristics and patterns of improvement.** Dickstein R, Nissan M, Pillar T and Scheer D. *Phys Ther* 1984 Jan;64(1):19-23.

343. **Foot pressure measurement: A review of methodology.** Lord M. *J Biomed Eng* 1981 Apr;3(2):91-99.

344. **Forces under the foot.** Pollard JP, Le Quesne LP, and Tappin JW. *J Biomed Eng* 1983 Jan;5(1):37-40.

345. **Intractable foot pain following frostbite: Case report.** Kumar VN. *Arch Phys Med Rehabil* 1982 June;63(6):284-285.

346. **A load cell system in foot pressure analysis.** James WV, Orr JF and Huddleston T. *Eng Med* 1982 July;11(3):121-122.

347. **The measurement of pressure under the foot.** Duckworth T, Betts RP, Franks CI and Burke J. *Foot and Ankle* 1982;3(3):130-141

348. **The mechanics of normal and hallux valgus feet--A quantitative study.** Hutton WC and Dhanendran M. *Clin Orthop Relat Res* 1981 June;157:7-13.

349. **Method of measuring "shear" forces on the sole of the foot.** Tappin JW, Pollard J and Beckett EA. *Clin Phys Physiol Meas* 1980 Feb;1(1):83-85.

350. **A microprocessor controlled system for evaluating treatments for disabilities affecting the lower limbs.** Gifford GE and Hutton WC. *J Biomed Eng* 1980 Jan;2(1):45-48.

351. **Orthodromic sensory nerve conduction of the medial and lateral plantar nerves: A standardization.** Belen J. *Am J Phys Med* 1985 Feb;64(1):17-23.

352. **Plantar pressure measurements and the prevention of ulceration in the diabetic foot.** Duckworth T, Boulton AJ, Betts RP, Franks CI and Ward JD. *J Bone Joint Surg* 1985 Jan;67-B(1):79-85.

353. **Preliminary study on static weight distribution under the human foot as a measure of lower extremity disability.** Ghosh AK, Tibarewala DN, Mukherjee P, Chakraborty S and Ganguli S. *Med Biol Eng Comput* 1979 Nov;17(6):737-741.

354. **Pressure distribution under the foot during static activities.** Arvikar R and Seireg A. *Eng Med* 1980 Apr;9(2):99-103.

355. **Pressures under the ischium detected by a pedobarograph.** Minns RJ and Sutton RA. *Eng Med* 1982 July;11(3):111-115.

356. **A quantitative assessment of normal and pathological foot function.** Dhanendran M, Hutton WC and Paker Y. *Eng Med* 1979 Apr;8(2):69-75.

357. **Static and dynamic foot-pressure measurements in clinical orthopaedics.** Betts RP, Franks CI, Duckworth T and Burke J. *Med Biol Eng Comput* 1980 Sep;18(5):674-684.

358. **Static pressure distribution under normal foot--A barograph micro-densito-metric study.** Subbaraj K, Ghista DN and Patil KM. *Biomater Med Devices Artif Organs* 1981;9(4):293-294.

359. **A study of the duration of load-bearing under different areas of the foot.** Miller GF and Stokes IA. *Eng Med* 1979 July;8(3):128-132.

360. **A system for measuring dynamic pressure distribution under the human foot.** Gerber H. *J Biomech* 1982;15(3):225-227.

361. **A technique for the display of pressure distributions beneath the foot.** Cavanagh PR and Ae M. *J Biomech* 1980;13(2):69-75.

362. **Two simple plantar pressure recording devices in clinical use: Evaluation using a pedobarograph.** Minns RJ. *Eng Med* 1982 July;11(3):117-120.

Biomechanics: Gait Analysis

363. **Advantages of a simple contact switch for human locomotion.** Patterson FS, Gorman LK and Wetzel MC. *Am J Phys Med* 1984 Feb;63(1):11-17.

364. **Analysis and synthesis of human swing leg motion during gait and its clinical applications.** Mena D, Mansour JM and Simon SR. *J Biomech* 1981;14(12):823-832.

365. **Analysis of the linear displacement of the head and trunk during walking at different speeds.** Cappozzo A. *J Biomech* 1981;14(6):411-425.

366. **An analysis of posture and gait following spinal fusion with Harrington instrumentation.** Wasylenko M, Skinner SR, Perry J and Antonelli DJ. *Spine* 1983 Nov-Dec;8(8):840-845.

367. **Angle-angle diagrams in the assessment of locomotion.** Hershler C and Milner M. *Am J Phys Med* 1980 June;59(3):109-125.

368. **Ankle and subtalar motion during gait in arthritic patients.** Locke M, Perry J, Campbell J and Thomas L. *Phys Ther* 1984 Apr;64(4):504-509.

369. **Ankle arthrodesis: Long-term follow-up with gait analysis.** Mazur JM, Schwartz E and Simon SR. *J Bone Joint Surg* 1979 Oct;61-A(7):964-975.

370. **An apparatus for step length measurement.** Durie ND and Farley RL. *J Biomed Eng* 1980 Jan;2(1):38-40.

371. **Assessing the reliability of measurements from the Krusen limb load monitor to analyze temporal and loading characteristics of normal gait.** Carey PB, Wolf SL, Binder-MacLeod SA and Bain RL. *Phys Ther* 1984 Feb;64(2):199-203.

372. **Assessment of gait using components of the ground reaction force vector.** Jarrett MO, Moore PR and Swanson AJG. *Med Biol Eng Comput* 1980 Sep;18(5):685-688

373. **An automated motion measurement system for clinical gait analysis.** Taylor KD, Mottier FM, Simmons DW, Cohen W, Pavlak R, Jr, Cornell DP and Hankins GB. *J Biomech* 1982;15(7):505-516.

374. **Ballistic walking.** Mochon S and McMahon TA. *J Biomech* 1980;13(1):49-57.

375. **A biomechanical analysis of gait patterns of the visually-impaired.** Dawson ML. *Am Correct Ther J* 1981 May-June;35(5):66-71.

376. **Biomechanical analysis of walking.** Kairento AL and Hellen G. *J Biomech* 1981;14(10):671-678.

377. **Biomechanical study of the function of the femoral fracture brace during stance.** Pratt DJ, Bowker P, Wardlaw D and McLauchlan J. *Med Biol Eng Comput* 1980 Sep;18(5):667-673.

378. **Biomechanics of gait following Van Nes rotationplasty.** Glynn MK, Nauman S, Mazliah J, Milner M, Gillespie R, Torode I and Galway HR. *Inter-Clin Inf Bull* 1984 Aut;19(3):62.

379. **Biomechanics of human movement with applications to the study of human locomotion.** Winter DA. *CRC Crit Rev Biomed Eng* 1984;9(4):287-314.

380. **Biomechanics of running gait.** Vaughan CL. *CRC Crit Rev Biomed Eng* 1984;12(1):1-48.

381. **Biped gait stabilization via foot placement.** Townsend MA. *J Biomech* 1985;18(1):21-38.

382. **Capacitive transducer for continuous measurement of vertical foot force.** Miyazaki S and Ishida A. *Med Biol Eng Comput* 1984 July;22(4):309-316.

383. **Cardiovascular responses during nonweight-bearing and touchdown ambulation.** Kathrins BP and O'Sullivan SD. *Phys Ther* 1984 Jan;64(1):14-18.

384. **Changes in the gait patterns of growing children.** Beck RJ, Andriacchi TP, Kuo KN, Fermier RW and Galante JO. *J Bone Joint Surg* 1981 Dec;63-A(9):1452-1457.

385. **Clinical gait analysis.** Carollo JJ. *Med Electron* 1981 Apr;12(2, Issue 68):95-99.

386. **Clinical gait assessment: A personal view.** Rose GK. *J Med Eng Technol* 1983 Nov-Dec;7(6):273-279.

387. **Clinical study of total ankle replacement with gait analysis: A preliminary report.** Demottaz JD, Mazur JM, Thomas WH, Sledge CB and Simon SR. *J Bone Joint Surg* 1979 Oct;61-A(7):976-988.

388. **A comparison of the gaits of paretic patients with the gaits of control subjects carrying a load.** Eke-Okoro ST and Larsson LE. *Scand J Rehabil Med* 1984;16(4):151-158.

389. **Computer generation of human gait kinematics.** Zarrugh MY and Radcliffe CW. *J Biomech* 1979;12(2):99-111.

390. **Continuous assessment of knee function and patient mobility.** Johnson F, Oborne J, Allen M and Waugh W. *J Biomed Eng* 1982 Jan;4(1):2-8.

391. **Correlations between changes in gait and in clinical status after knee arthroplasty.** Andersson GBJ, Andriacchi TP and Galante JO. *Acta Orthop Scand* 1981 Oct;52(5):569-573.

392. **Determining muscle forces in the leg during normal human walking--An application and evaluation of optimization methods.** Hardt DE. *J Biomech Eng* 1978 May;100(2):72-78.

393. **Development of an automatic gait measurement system.** Ehara Y, Beppu M and Normura S. *Orthop Tech* 1979 Aug;30(8):121-128.

394. **The development of mature gait.** Sutherland DH, Olshen R, Cooper L and Woo SLY. *J Bone Joint Surg* 1980 Apr;62-A(3):336-353.

395. **Dynamics and coordination of torso motions in human locomotion.** Townsend MA. **J Biomech** 1981;14(11):727-738.

396. **Effect of tone-inhibiting casts and orthoses on gait: A case report.** Zachazewski JE, Eberle ED and Jefferies M. *Phys Ther* 1982 Apr;62(4):453-455.

397. **Electromyographic amplitude normalization methods: Improving their sensitivity as diagnostic tools in gait analysis.** Yang JF and Winter DA. *Arch Phys Med Rehabil* 1984 Sep;65(9):517-521.

398. **Electromyographic investigations on gait: Methods and application in orthopaedics.** Guth V, Abbink F and Theysohn H. *Electromyogr Clin Neurophysiol* 1979 June-Aug;19(4):305-323.

399. **Electromyography of the vastus medialis oblique and vasti in normal subjects during gait.** Adler N, Perry J, Kent B and Robertson K. *Electromyogr Clin Neurophysiol* 1983 Nov-Dec;23(7):643-649.

400. **Electronic measurement of instantaneous foot-floor contact patterns during gait.** Draganich LF, Andriacchi TP, Strongwater AM and Galante JO. *J Biomech* 1980;13(10):875-880.

401. **EMG system for online gait analysis (Technical note).** Cozean C, Koozekanani S and Hubbell S. *Med Biol Eng Comput* 1984 Nov;22(6):592-596.

402. **Ergometric evaluation of pathological gait.** Cavagna GA, Tesio L, Fuchimoto T and Heglund NC. *J Appl Physiol Respir Environ Exercise Physiol* 1983;55(2):607-613.

403. **An evaluation of the approaches of optimization models in the prediction of muscle forces during human gait.** Patriarco AG, Mann RW, Simon SR and Mansour JM. *J Biomech* 1981;14(8):513-525.

404. **Evaluation of the VA-Rancho gait analyzer, Mark I.** Otis JC and Burstein AH. *Bull Prosthet Res* 1981 Spr;18(1, BPR 10-35):21-25.

405. **Evidence of phase-dependent nociceptive reflexes during locomotion in man.** Crenna P and Frigo C. *Exp Neurol* 1984 Aug;85(2):336-345.

406. **A feedback on-off model of biped dynamics.** Hemami H. *IEEE Trans Syst Man Cybern* 1980 July;SMC-10(7):376-383.

407. **A five body three-dimensional dynamic analysis of walking.** Hardt DE and Mann RW. *J Biomech* 1980;13(5):455-457.

408. **Footprint analysis in gait documentation: An instructional sheet format.** Shores M. *Phys Ther* 1980 Sep;60(9):1163-1167.

409. **Force-, power-, and elasticity-velocity relationships in walking, running, and jumping.** Luhtanen P and Komi PV. *Eur J Appl Physiol* 1980;44:279-289.

410. **Fourier analysis of forces exerted in walking and running.** Alexander RM and Jayes AS. *J Biomech* 1980;13(4):383-390.

412. **The frequency content of gait.** Antonsson EK and Mann RW. *J Biomech* 1985;18(1):39-47.

413. **Functional evaluation of the pes anserinus transfer by electromyography and gait analysis.** Perry J, Fox JM, Boitano MA, Skinner SR, Barnes LA and Cerny K. *J Bone Joint Surg* 1980 Sep;62-A(6):973-980.

414. **Functional performance after tibial rotationplasty.** Murray MP, Jacobs PA, Gore DR, Gardner GM and Mollinger LA. *J Bone Joint Surg* 1985 Mar;67-A(3):392-399.

415. **Gait analysis for physiotherapy departments: A review of currentmethods.** Little H. *Physiotherapy* 1981 Nov;67(11):334-337.

416. **Gait analysis in the assessment of functional performance before and after total hip replacement.** Wall JC, Ashburn A and Klenerman L. *J Biomed Eng* 1981 Apr;3(2):121-127.

417. **Gait analysis system in clinical practice.** Gifford GE and Hughes J. *J Biomed Eng* 1983 Oct;5(4):297-301.

418. **Gait analysis with an angle diagram technique: Application in healthy persons and in studies of marmor knee arthroplasties.** Kolstad K, Wigren A and Oberg K. *Acta Orthop Scand* 1982 Oct;53(5):733-743.

419. **A gait analyzer/trainer instrumentation system.** Gabel RH, Johnston RC and Crowinshield RD. *J Biomech* 1979;12(7):543-549.

420. **Gait consistency test based on the impulse-momentum theory.** Seliktar R, Yekutiel M and Bar A. *Prosthet Orthot Int* 1979 Aug;3(2):91-98.

421. **The gait laboratory force plate at the Cleveland VA Medical Center (Technical note).** Cohen A, Orin DE and Marsolais EB. *Bull Prosthet Res* 1980 Spr;17(1, BPR 10-33):90-97.

422. **Ground reaction forces during human standing.** Shimba T. *Eng Med* 1983 Oct;12(4):177-182.

423. **Ground reaction forces in distance running.** Cavanagh PR and Lafortune MA. *J Biomech* 1980;13(5):397-406.

424. **The "Hollywood gaitrack": A method for measuring temporal and distance factors of gait.** Knight M, Nade S and Ongley W. *Med Biol Eng Comput* 1983 May;21(3):306-310.

425. **Human walking.** Inman VT, Ralston HJ and Todd F. Baltimore, MD: Williams and Wilkins, 1981, 154 pp.

426. **Implications of the mechanical disturbance produced in the body by heel strike.** MacLellan G, Light H and Hiles M. *Biomater Med Devices Artif Organs* 1981;9(4):292-293.

427. **An improved approach for performance evaluation in lower extremity involvement.** Ghosh AK, Tibarewala DN, Chakraborty S, Ganguli S and Bose KS. *J Biomed Eng* 1980 Apr;2(2):121-125.

428. **An in vivo study of low back pain and shock absorption in the human locomotor system.** Voloshin A and Wosk J. *J Biomech* 1982;15(1):21-27.

429. **Influence of artificial shock absorbers on human gait.** Voloshin A and Wosk J. *Clin Orthop Relat Res* 1981 Oct;160:52-56.

430. **The initiation of gait.** Mann RA, Hagy JL, White V and Liddell D. *J Bone Joint Surg* 1979 Mar;61-A(2):233-239.

431. **Joint position biofeedback facilitation of physical therapy in gait training.** Koheil R and Mandel A. *Am J Phys Med.* 1980 Dec;59(6):288-297.

432. **Kinematic and EMG patterns during slow, free, and fast walking.** Murray MP, Mollinger LA, Gardner GM and Sepic SB. *J Orthop Res* 1984;2(3):272-280.

433. **Kinematic prediction of intersegment loads and power at the joints of the leg in walking.** Zarrugh MY. *J Biomech* 1981;14(10):713-725.

434. **Kinematic study of long-term habituation to treadmill walking.** Wall JC and Charteris J. *Ergonomics* 1981 July;24(7):531-542.

435. **Kinematics of normal child locomotion--A statistical study based on TV data.** Foley CD, Quanbury AO and Steinke T. *J Biomech* 1979;12(1):1-6.

436. **Limb motion analysis.** Squillario G. *Med Electron* 1982 Dec;13(6, Issue 78):78-80.

437. **Linear approximations for swing leg motion during gait.** Lee WH and Mansour JM. *J Biomech Eng* 1984 May;106(2):137-143.

438. **A load cell and sole assembly for dynamic pointwise vertical force measurement in walking.** Frost RB and Cass CA. *Eng Med* 1981 Jan;10(1):45-50.

439. **Mathematical kinematics in engineering of endoprostheses: Evaluation of the results of gait analysis.** Hoschek J, Weber U, Ladsatter P and Schelske HJ. *Arch Orthop Traumat Surg* 1984;103(5):342-347.

440. **A mathematical model for the dynamics of human locomotion.** Onyshko S and Winter DA. *J Biomech* 1980;13(4):361-368.

441. **Measurement of weightbearing during standing (Technical note).** Poyezdala JJ and Jaeger RJ. *J Rehabil Res Dev* 1984 July;21(2):46-50.

442. **Measuring man's stability of stance.** Terekhov Y. *J Clin Eng* 1979 Jan-Mar;4(1):61-65.

443. **A mechanical device for leg disturbance during gait.** Garrett M, Jackson KM and Luckwill RG. *J Biomed Eng* 1984 Oct;6(4):318-320.

444. **A method for two dimensional multi-segmental kinematic and kinetic analysis of normal and pathological human gait.** Van Best JA, Pronk CNA, Mechelse K, Pompe R and Van Eijndhoven JHM. *Med Prog Technol* 1983-1984;10(3):143-159.

445. **Methods of impact absorption when landing from a jump.** Lees A. *Eng Med* 1981 Oct;10(4):207-211.

446. **Modulation of limb dynamics in the swing phase of locomotion.** Hoy MG and Zernicke RF. *J Biomech* 1985;18(1):49-60.

447. **Normal gait of young and old men and women: ground reaction force measurement on a treadmill.** Jansen EC, Vittas D, Hellberg S and Hansen J. *Acta Orthop Scand* 1982 Apr;53(2):193-196.

448. **Normal human locomotion.** Hughes J and Jacobs N. *Prosthet Orthot Int* 1979 Apr;3(1):4-12.

449. **Normative data of knee joint motion and ground reaction forces in adult level walking.** Chao EY, Laughman RK, Schneider E and Stauffer RN. *J Biomech* 1983;16(3):219-233.

450. **On the practical evaluation of differentiation techniques for human gait analysis.** Lanshammar H. *J Biomech* 1982;15(2):99-105.

451. **Optoelectric (Selspot) gait measurement in two- and three-dimensional space--A preliminary report (Technical note).** Woltring HJ and Marsolais EB. *Bull Prosthet Res* 1980 Fall;17(2, BPR 10-34):46-52.

452. **Overall principle of lower limb support during stance phase of gait.** Winter DA. *J Biomech* 1980;13(11):923-927.

453. **Passive and active components of the internal moment developed about the ankle joint during human ambulation.** Siegler S, Moskowitz GD and Freedman W. *J Biomech* 1984;17(9):647-652.

454. **Pathologic gait diagnosis with computer-averaged electromyographic profiles.** Winter DA. *Arch Phys Med Rehabil* 1984 July;65(7):393-398.

455. **Peak dynamic force in human gait.** Simon SR, Paul IL, Mansour J, Munro M, Abernethy PJ and Radin EL. *J Biomech* 1981;14(12):817-822.

456. **A physiologically based criterion of muscle force prediction in locomotion.** Crowinshield RD and Brand RA. *J Biomech* 1981;14(11):793-801.

457. **A physiologically based criterion of muscle force prediction in locomotion.** Crowinshield RD. *Bull Hosp Joint Diseases Orthop Inst* 1983;43(2):164-170.

458. **Planar control in multi-camera calibration for 3-D gait studies.** Woltring HJ. *J Biomech* 1980;13(1):39-48.

459. **A portable feedback gait apparatus for five segments of footfall.** Warshal D, Jacobs M, Lee W and Garcia M. *Phys Ther* 1981 Oct;61(10):1454-1456.

460. **Predictions of knee and ankle moments of force in walking from EMG and kinematic data.** Olney SJ and Winter DA. *J Biomech* 1985;18(1):9-20.

461. **Practical activation and retention of locomotion constraints in neuromusculoskeletal control system models.** Hatze H and Venter A. *J Biomech* 1981;14(12):873-877.

462. **The process of habituation to treadmill walking at different velocities.** Wall JC and Charteris J. *Ergonomics* 1980 May;23(5):425-435.

463. **Qualitative and quantitative gait phase analysis by continuous monitoring of inter ankle distance.** Pinzur MS Levine PD, Trimble J, Haag K and Sherman R. *J Rehabil Res Dev* 1984 July;21(2):50-53.

464. **Quantitative gait evaluation in the clinic.** Robinson JL and Smidt GL. *Phys Ther* 1981 Mar;61(3):351-353.

465. **Quantitative gait evaluation of hip diseases using principal component analysis.** Yamamoto S, Suto Y, Kawamura H, Hashizume T, Kakurai S and Sugahara S. *J Biomech* 1983;16(9):717-726.

466. **Representing and clustering electromyographic gait patterns with multivariate techniques.** Shiavi R and Griffin P. *Med Biol Eng Comput* 1981 Sep;19(5):605-611.

467. **Reproducibility of gait measurement using the Lamoureux goniometer.** Jansen E and Orbaek H. *Prosthet Orthot Int* 1980 Dec;4(3):159-161.

468. **The role of the ankle plantar flexors in normal walking.** Sutherland DH, Cooper L and Daniel D. *J Bone Joint Surg* 1980 Apr;62-A(3):354-363.

469. **Role of reflex responses of knee musculature during the swing phase of walking in man.** Garrett M and Luckwill RG. *Physiotherapy* 1985 Feb;71(2):47-50.

470. **Significance of free dorsiflexion of the toes in walking.** Bojsen-Moller F and Lamoreux L. *Acta Orthop Scand* 1979 Aug;50(4):471-480.

471. **Simple kinematic gait measurement.** Bajd T and Kralj A. *Biomed Eng* 1980 Apr;2(2):129-132.

472. **Simulation of human gait with the aid of a simple mechanical model.** Siegler S, Seliktar R and Hyman W. *J Biomech* 1982;15(6):415-425.

473. **Skeletal transients on heel strike in normal walking with different footwear.** Light LH, McLellan GE and Klenerman L. *J Biomech* 1980;13(6):477-480.

474. **Spinal and pelvic movement during walking: A new methods of study.** Thurston AJ and Whittle MW. *Eng Med* 1981 Oct;10(4):219-222.

475. **A study of lower-limb mechanics during stair-climbing.** Andriacchi TP, Andersson GBJ, Fermier RW, Stern D and Galante JO. *J Bone Joint Surg* 1980 July;62-A(5):749-757.

476. A study on the kinematic parameters of normal human locomotion. Venkateswara Rao DL, Venkatappaiah B and Ramanathan N. *Biomater Med Devices Artif Organs* 1981;9(4):296.

477. **Surgical reconstruction for calcaneonavicular coalition: evaluation of function and gait.** Chambers RB, Cook TM and Cowell HR. *J Bone Joint Surg* 1982 July;64-A(6):829-836.

478. **A system for monitoring the position and time of feet contact during walking.** Arenson JS, Ishai G and Bar A. *J Med Eng Technol* 1983 Nov-Dec;7(6):280-284.

479. **A system to measure the forces and moments at the knee and hip during level walking.** Gilbert JA, Maxwell GM, McElhaney JH and Clippinger FW. *J Orthop Res* 1984;2(3):281-288.

480. **Temporal asymmetry as a gait quality indicator.** Dewar ME and Judge G. *Med Biol Eng Comput* 1980 Sep;18(5):689-693.

481. **A test-subject-tracking measuring carriage with optoelectronic position-feedback control for the kinematic analysis of the gait of orthopedic patients.** Bodem F, Brussatis F, Mertin B, Wunderlich T and Wagner H. *Med Prog Technol* 1981;8(3):141-147.

482. **Timing and relative intensity of hip extensor and abductor muscle action during level and stair ambulation: An EMG study.** Lyons K, Perry J, Gronley JK, Barnes L and Antonelli D. *Phys Ther* 1983 Oct;63(10):1597-1605.

483. **Treadmill made of conducting rubber in gait analysis (Technical note).** Kauer JMG, Wicherss MJ and Wijkmans DW. *Med Biol Eng Comput* 1985 Jan;23(1):93-94.

484. **Variability of electromyographic patterns for level-surface walking through a range of self-selected speeds.** Shiavi R, Champion S, Freeman F and Griffin P. *Bull Prosthet Res* 1981 Spr;18(1, BPR 10-35):5-14.

485. **The upper limbs during human walking, part I: Sagittal movement.** Jackson KM, Joseph J and Wyard SJ. *Electromyogr Clin Neurophysiol* 1983 Sep-Oct;23(6):425-434.

486. **The upper limbs during human walking, part II: Function.** Jackson KM, Joseph J and Wyard SJ. *Electromyogr Clin Neurophysiol* 1983 Sep-Oct;23(6): 435-446.

Biomechanics: Gait Analysis — Amputee Gait

487. **Angle-angle diagrams in above-knee amputee and cerebral palsy gait.** Hershler C and Milner M. *Am J Phys Med* 1980 Aug;59(4):165-183.

488. **Balance in lower limb child amputees.** Clark LA and Zernicke RF. *Prosthet Orthot Int* 1981 Apr;5(1):11-18.

489. **A comparison of the SACH and single axis foot in the gait of unilateral below-knee amputees.** Doane NE and Holt LE. *Prosthet Orthot Int* 1983;7(1):33-36.

490. **Effects of alignment variables on thigh axial torque during swing phase in AK amputee gait.** Ishai G, Bar A and Susak Z. *Prosthet Orthot Int* 1983;7(1):41-47.

491. **Effects of isometric muscle training on residual limb volume, strength, and gait of below-knee amputees.** Kegel B, Burgess EM, Starr TW and Daly WK. *Phys Ther* 1981 Oct;61(10):1419-1426.

492. **A force-line visualization system.** Wilson AB, Jr, Pritham C and Cook T. *Prosthet Orthot Int* 1979 Aug;3(2):85-87.

493. **Gait patterns of above-knee amputees using constant-friction knee components.** Murray MP, Sepic SB, Gardner GM and Mollinger LA. *Bull Prosthet Res* 1980 Fall;17(2, BPR 10-34):35-45.

494. **Gait training for the below-knee amputee.** Van Griethuysen C. *Prosthet Orthot Int* 1979 Dec;3(3):163-165.

495. **The importance of early gait training for geriatric amputees.** Steinbach T, Nadvorna H and Yomtov E. *Orthop Tech* 1979 May;30(5):68-71. [German]

496. **An investigation of kinematic and kinetic variables for the description of prosthetic gait using the ENOCH system.** Oberg K and Lanshammar H. *Prosthet Orthot Int* 1982 Apr;6(1):43-47.

497. **Locomotion of the hemipelvectomy amputee.** Iwakura H, Abe M, Fujinaga H, Kakurai S and Yano H. *Prosthet Orthot Int* 1979 Aug;3(2):111-114.

498. **The pedynograph: A clinical tool for force measurement and gait analysis in lower extremity amputees.** Symington DC, Lowe PJ and Olney SJ. *Arch Phys Med Rehabil* 1979 Feb;60(2):56-62.

499. **Stride kinematics and knee joint kinetics of child amputee gait.** Hoy MG, Whiting WC and Zernicke RF. *Arch Phys Med Rehabil* 1982 Feb;63(2):74-82.

500. **Use of the Krusen limb load monitor to quantify temporal and loading measurements of gait.** Wolf SL and Binder-Macleod SA. *Phys Ther* 1982 July;62(7):976-982.

501. **Variation of mechanical energy levels for normal and prosthetic gait.** Lanshammar H. *Prosthet Orthot Int* 1982 Aug;6(2):97-102.

502. **Videotape recording--A complementary aid for the walking training of lower limb amputees.** Netz P, Wersen K and Wetterberg M. *Prosthet Orthot Int* 1981 Dec;5(3):147-150.

Biomechanics: Gait Analysis — Crutch Walking

503. **Cardiovascular stress of crutch walking.** Patterson RP and Fisher SV. *Arch Phys Med Rehabil* 1981 June;62(6):257-260.

504. **Clinical determination of energy cost and walking velocity via stopwatch or speedometer cane and conversion graphs.** Nielsen DH, Gerleman DG, Amundsen LR and Hoeper DA. *Phys Ther* 1982 May;62(5):591-596.

505. **Computer analysis of energy transfer in children walking with crutches.** McGill SM and Dainty DA. *Arch Phys Med Rehabil* 1984 Mar;65(3):115-120.

506. **Crutch walking and functional grasp in the congenital triple amputee.** Sherk HH, Ames MD and Merchant M. *Orthot Prosthet* 1979 Dec;33(4):19-22.

507. **Dynamic body forces on axillary crutch walkers during swing-through gait.** Wilson JF and Gilbert JA. *Am J Phys Med* 1982 Apr;61(2):85-92.

508. **Effect of cane use on hip contact force.** Brand RA and Crowninshield RD. *Clin Orthop Relat Res* 1980 Mar-Apr;147:181-184.

509. **The energetics of walking using axillary crutches and the prototype of a new design termed the Dublin crutch.** Wagstaff PS. *Physiotherapy* 1984 Nov;70(11):422-424.

510. **Energy cost of ambulation in paraplegic patients using Craig-Scott brace.** Huang CT, Kuhlemeier KV, Moore NB and Fine PR. *Arch Phys Med Rehabil* 1979 Dec;60(12):595-600.

511. **Energy cost of ambulation with crutches.** Fisher SV and Patterson RP. *Arch Phys Med Rehabil* 1981 June;62(6):250-256.

512. **Energy expenditure during ambulation with ortho crutches and axillary crutches.** Hinton CA and Cullen KE. *Phys Ther* 1982 June;62(6):813-819.

513. **Heart-rate response of elderly women to nonweight-bearing ambulation with a walker.** Baruch IM and Mossberg KA. *Phys Ther* 1983 Nov;63(11):1782-1786.

514. **The kinematics and energy variations of swing-through crutch gait.** Wells RP. *J Biomech* 1979;12(8):579-585.

515. **Locomotion assistance through cane impulse.** Bennett L, Murray MP, Murphy EF and Sowell TT. *Bull Prosthet Res* 1979 Spr;(BPR 10-31):38-47.

516. **Metabolic cost of walking at different speeds with axillary crutches.** Ghost AK, Tibarewala DN, Dasgupta SR, Goswami A and Ganguli S. *Ergonomics* 1980 June;23(6):571-577.

517. **One leg swing through gait using two crutches: An analysis of the ground reaction forces and gait phases.** Stallard J, Dounis E, Major RE and Rose GK. *Acta Orthop Scand* 1980 Feb;51(1):71-77.

518. **The relative efficiency of "swing through" gait on axillary, elbow and Canadian crutches compared to normal walking.** Sankarankutty M, Stallard J and Rose GK. *J Biomed* Eng 1979 Jan;1(1):55-57.

519. **System of reporting and comparing influence of ambulatory aids on gait.** Smidt GL and Mommens MA. *Phys Ther* 1980 May;60(5):551-558.

Biomechanics: Gait Analysis — Energy Expenditure

520. **Clinical decision making with the aid of ambulatory monitoring of heart rate.** Stallard J and Rose GK. *Prosthet Orthot Int* 1980 Aug;4(2):91-96.

521. **Energy cost and heart rate response to static and dynamic leg exercise.** Danoff PL and Danoff JV. *Arch Phys Med Rehabil* 1982 Mar;63(3):130-134.

522. **Energy cost of walking in lower extremity plaster casts.** Waters RL, Campbell J, Thomas L, Hugos L and Davis P. *J Bone Joint Surg* 1982 July;64-A(6):896-899.

523. **Energy cost of walking with lesions of the foot.** Veicsteinas A, Aghemo P, Margaria R, Cova P and Pozzolini M. *J Bone Joint Surg* 1979 Oct;61-A(7):1073-1076.

524. **Energy expenditure in patients with low-, mid- or high-thoracic paraplegia using Scott-Craig knee-ankle-foot orthoses.** Merkel KD, Miller NE and Merritt JL. *Mayo Clin Proc* 1985 Mar;60(3):165-168.

525. **Energy expenditure of ambulation in paraplegics: Effects of long term use of brace.** Chantraine A, Crielaard JM, Onkelinx A and Pirnay F. *Paraplegia* 1984 June;22(3):173-181.

526. **Energy expenditure of paraplegic patients standing and walking with two knee-ankle-foot orthoses.** Merkel KD, Miller NE, Westbrook PR and Merritt JL. *Arch Phys Med Rehabil* 1984 Mar;65(3):121-124.

527. **Energy of gait in below-knee casts with different soles.** Pratt DJ. *J Biomed Eng* 1985 Jan;7(1):63-67.

528. **Mechanical energy analyses of the human during load carriage on a treadmill.** Pierrynowski MR, Norman RW and Winter DA. *Ergonomics* 1981 Jan;24(1):1-14.

529. **Mechanical energy changes and the oxygen cost of running.** Shorten MR, Wootton SA and Williams C. *Eng Med* 1981 Oct;10(4):213-217.

530. **Mechanical energy generation, absorption and transfer amongst segments during walking.** Robertson DGE and Winter DA. *J Biomech* 1980:13(10):845-854.

531. **On the energy cost of achieving mobility.** Grimby G. Scand *J Rehabil Med* 1983;(Suppl 9):49-54.

532. **Paraplegic energy expenditure during negotiation of architectural barriers.** Miller NE, Merritt JL, Merkel KD and Westbrook PR. *Arch Phys Med Rehabil* 1984 Dec;65(12):778-779.

533. **Power requirements and mechanical efficiency of treadmill walking.** Zarrugh MY. *J Biomech* 1981;14(3):157-165.

Biomechanics: Gait Analysis — Gait Deviations

534. **Analysis of ground reaction forces in pathological gait secondary to disorders of the foot.** Claeys R. *Int Orthop* 1983;7(2):113-119.

535. **Angle-angle diagrams in monitoring and quantification of gait patterns for children with cerebral palsy.** De Bruin H, Russell DJ, Latter JE and Sadler TS. *Am J Phys Med* 1982 Aug;61(4):176-192.

536. **Behavior modification of abnormal gait and chronic pain secondary to somatization disorder.** Klein MJ, Kewman DG and Sayama M. *Arch Phys Med Rehabil* 1985 Feb;66(2):119-122.

537. **A biofeedback gait trainer for a cerebral palsied child.** Fuentes VL, Ophals TJ and Winter DC. *J Clin Eng* 1981 Oct-Dec;6(4):301-306.

538. **Biofeedback therapy to achieve symmetrical gait in hemiplegic cerebral palsied children.** Seeger BR, Caudrey DJ and Scholes JR. *Arch Phys Med Rehabil* 1981 Aug;62(8):364-368.

539. **Clinical gait assessment in the neurologically impaired: Reliability and meaningfulness.** Holden MK, Gill KM, Magliozzi MR, Nathan J and Piehl-Baker L. *Phys Ther* 1984 Jan;64(1):35-40.

540. **The clinical assessment of the normal and abnormal foot during locomotion.** Manley MT and Solomon E. *Prosthet Orthot Int* 1979 Aug;3(2):103-110.

541. **Clinical experience of gait analysis in the management of cerebral palsy.** Baumann JU. *Prosthet Orthot Int* 1984 Apr;8(1):29-32.

542. **Electromyographic gait analysis before and after operative treatment for hemiplegic equinus and equinovarus deformity.** Waters RL, Frazier J, Garland DE, Jordan C and Perry J. *J Bone Joint Surg* 1982 Feb;64-A(2):284-288.

543. **Electromyographic investigations of gait in cerebral palsied children.** Woltering H, Guth V and Abbink F. *Electromyogr Clin Neurophysiol* 1979 Nov-Dec;19(6):519-533.

544. **Evaluation pertinent to the gait of children with myelomeningocele.** Carroll NC, Jones D, Maschuich W, Milner M and White C. *Prosthet Orthot Int* 1982 Apr;6(1):27-34.

545. **Fast walking velocity in health and Duchenne muscular dystrophy: A statistical analysis.** Cohen L, Morgan J, Babbs R, Jr. Karrison TG and Giacomoni M. *Arch Phys Med Rehabil* 1984 Oct;65(10):573-578.

546. **Factors affecting balance and ambulation following stroke.** Keenan MA, Perry J and Jordan C. *Clin Orthop Relat Res* 1984 Jan-Feb;182:165-171.

547. **Gait abnormalities arising from latrogenic loss of lumbar lordosis secondary to Harrington instrumentation in lumbar fractures.** Hasday CA, Passof TL and Perry J. *Spine* 1983 July-Aug;8(5):501-511.

548. **Gait abnormalities in tibial nerve paralysis: A biomechanical study.** Lehmann JF, Condon SM, De Lateur BJ and Smith JC. *Arch Phys Med Rehabil* 1985 Feb;66(2):80-85.

549. **Gait analysis for decision-making in cerebral palsy.** Gage JR. *Bull Hosp Joint Dis Orthop Inst* 1983;43(2):147-163.

550. **Gait of children with Down Syndrome.** Parker AW and Bronks R. *Arch Phys Med Rehabil* 1980 Aug;61(8):345-351.

551. **Gait patterns in patients with amyotrophic lateral sclerosis.** Goldfarb BJ and Simon SR. *Arch Phys Med Rehabil* 1984 Feb;65(2):61-65.

552. **Hemiplegic gait: analysis of temporal variables.** Brandstater ME, De Bruin H, Gowland C and Clark BM. *Arch Phys Med Rehabil* 1983 Dec;64(12):583-587.

553. **The investigation of walking of patients with cerebral palsy by the electromyogram (EMG) using surface electrodes.** Guth V, Steinhausen D and Abbink F. *Electromyogr Clin Neurophysiol* 1984 Mar-Apr;24(3):225-240.

554. **Multiple sclerosis and mobility restriction.** Baum HM and Rothschild BB. *Arch Phys Med Rehabil* 1983 Dec;64(12):591-596.

Biomechanics: Human Motion Analysis

555. **Osteoarthritic gait dynamics from force-plate measurements.** Khodadadeh S. *J Biomed Eng* 1984 Oct;6(4):315-317.

556. **Pathomechanics, gait deviations, and treatment of the rheumatoid foot: A clinical report.** Dimonte P and Light H. *Phys Ther* 1982 Aug;62(8):1148-1156.

557. **Study of the value of gait analysis techniques in the treatment of physical disability.** Bowker P. *Int J Rehabil Res* 1984;7(2):213.

558. **A technique for the display of joint movement deviations.** Wirta RW and Golbranson FL. *Bull Prosthet Res* 1980 Spr;17(1, BPR 10-33):73-79.

559. **A three-dimensional multi-segmental analysis of the energetics of normal and pathological human gait.** Mansour JM, Lesh MD, Nowak MD and Simon SR. *J Biomech* 1982;15(1):51-59.

560. **Transfers of mechanical energy within the total body and mechanical efficiency during treadmill walking.** Pierrynowski MR, Winter DA and Norman RW. *Ergonomics* 1980 Feb;23(2):147-156.

561. **Using an isokinetic exercise machine to improve the gait pattern in a hemiplegic patient: A case report.** Wilder PA and Sykes *J. Phys Ther* 1982 Sep;62(9):1291-1295.

562. **The walking ability of 14- to 17-year-old teenagers with spina bifida--A physiotherapy study.** Gaff JE, Robinson JM and Parker PM. *Physiotherapy* 1984 Dec;70(12):473-474.

563. **Analysis of parameters affecting impact force attenuation during landing in human vertical free fall.** Mizrahi J and Susak Z. *Eng Med* 1982 July;11(3): 141-147.

564. **Biomechanics of human movement.** Winter DA. New York, NY: John Wiley and Sons, 1979, 202 pp.

565. **Calculation of derivatives and Fourier coefficients of human motion data, while using spline functions.** Soudan K and Dierckx P. *J Biomech* 1979;12(1):21-26.

566. **Comparative evaluation of techniques for the harmonic analysis of human motion data (Technical note).** Cappozzo A and Gazzani F. *J Biomech* 1983;16(9):767-776.

567. **Computer-controlled manipulator/display system for human movement studies.** Ruitenbeck JC and Janssen RJ. *Med Biol Eng Comput* 1984 July;22(4):304-308.

568. **Kinematic data acquisition system for two- or three-dimensional motion analysis.** Wyss UP and Pollak VA. *Med Biol Eng Comput* 1981 May;19(3):287-290.

569. **Ligament function and joint stability elucidated by a new technique.** Rasmussen O and Andersen K. *Eng Med* 1982 Apr;22(2):77-81.

570. **Metabolic measures to ascertain the optimal load to be carried by man.** Pierrynowski MR, Winter DA and Norman RW. *Ergonomics* 1981 May;24(5):393-399.

Biomechanics: Joint Force Analysis

571. **A method of measuring human body shape and movement--The vector stereography.** Grew ND and Harris JD. *Eng Med* 1979 July;8(3):115-118.

572. **Motion analysis.** Smith JC. *Med Electron* 1984 June;15(3, Issue 87):110-112.

573. **Nornmal range of motion of joints in male subjects.** Boone C and Azen P. *J Bone Joint Surg* 1979 July;61-A(5):756-760.

574. **Patterning of human body movement in and through space.** Murdoch EB and Kenedi RM. *Physiotherapy* 1981 Feb;67(2):34-37.

575. **Physiology and therapeutic value of passive joint motion.** Frank C, Akeson WH, Woo SLY, Amiel D and Coutts RD. *Clin Orthop Relat Res* 1984 May;185:113-125.

576. **Response of human body to tractor vibrations and its minimisation by provision of relaxation suspensions to both wheels and seat at the plane of centre of gravity.** Patil MK, Palanichamy MS and Ghista DN. *Med Biol Eng Comput* 1980 Sep;18(5):554-562.

577. **Sensory feedback therapy and theoretical knowledge of motor control and learning.** Mulder T and Hulstyn W. *Am J Phys Med* 1984 Oct;63(5):226-244.

578. **A simulation procedure for human motion studies.** Ramey MR and Yang AT. *J Biomech* 1981;14(4):203-220.

579. **A system for the rapid acquisition of surface potential maps of human skeletal muscle motor units.** Monster AW, Pittore J and Barrie W. *IEEE Trans Biomed Eng* 1980 Feb;BME-27(2):110-112.

580. **A systems-oriented evaluation of the role of joint receptors and other afferents in position and motion sense.** Williams WJ. *CRC Crit Rev Biomed Eng* 1981 Dec;7(1):23-77.

581. **A technique for measurement and description of three-dimensional six degree-of-freedom motion of a body joint with an application to the human spine.** Panjabi MM, Krag MH and Goel VK. *J Biomech* 1981;14(7):447-460.

Biomechanics: Joint Force Analysis — Lower Limb

582. **Ankle joint biomechanics.** Procter P and Paul JP. *J Biomech* 1982;15(9): 627-634.

583. **Assessments of loads in the knee joint.** Johnson F, Scarrow P and Waugh W. *Med Biol Eng Comput* 1981 Mar;19(2):237-243.

584. **Autonomic hyperreflexia following passive stretching to the hip joint (case report).** McGarry J, Woolsey RM and Thompson CW. *Phys Ther* 1982 Jan;62(1):30-31.

585. **Comparative mechanics of the hip and ankle.** Greenwald AS and Phil D. *Biomater Med Devices Artif Organs* 1981;9(1):15-18.

586. **The contact area and pressure distribution pattern of the knee: A study of normal and osteoarthrotic knee joints.** Fukubayashi T and Kurosawa H. *Acta Orthop Scand* 1980 Dec;51(6):871-879.

587. **Clinical measurements of joint motion and position in the neutral-zero method and SFTR recording: Basic principles.** Gerhardt JJ. *Int Rehabil Med* 1983;5(4):161-164.

588. **Duration of stretching effect on range of motion in lower extremities.** Moller M, Ekstrand J, Oberg B and Gillquist J. *Arch Phys Med Rehabil* 1985 Mar;66(3):171-173.

589. **The effects of hip contact aberrations on stress patterns within the human femoral head.** Brown TD and Ferguson AB, Jr. *Ann Biomed Eng* 1980;8(1):75-92.

590. **Evaluation of muscular moments at the lower limb joints by an on-line processing of kinematic data and ground reaction.** Boccardi S, Pedotti A, Rodano R and Santambrogio GC. *J Biomech* 1981;14(1):35-45.

591. **A finite element study of the human hip joint.** Afoke NYP, Byers PD and Hutton WC. *Eng Med* 1982 Jan;11(1):17-24.

592. **Forces at the knee joint: Anatomical considerations.** Minns RJ. *J Biomech* 1981;14(9):633-643.

593. **Forces in the knee joint whilst rising from normal and motorized chairs.** Ellis MI, Seedhom BB, Amis AA, Dowson D and Wright V. *Eng Med* 1979 Jan;8(1): 33-40.

594. **Forces in the knee joint whilst rising from a seated position.** Ellis MI, Seedhom BB and Wright V. *J Biomed Eng* 1984 Apr;6(2):113-120.

595. **Fourier analysis of ground reaction forces in normals and patients with knee joint disease.** Schneider E and Chao EYS. *J Biomech* 1983;16(8):591-601.

596. **The function of the primary ligaments of the knee in anterior-posterior and medial-lateral motions.** Piziali RL, Seering WP, Nagel DA and Schurman DJ. *J Biomech* 1980;13(9):777-784.

597. **The function of the primary ligaments of the knee in varus-valgus and axial rotation.** Seering WP, Piziali RL, Nagel DA and Schurman DJ. *J Biomech* 1980;13(9):785-794.

598. **Identification of human lower extremity dynamics in torsion.** Mote CD, Jr and Lee CW. *J Biomech* 1982;15(3):211-222.

599. **The improvement in the results of kinematics of in vivo joints.** Dimnet J. *J Biomech* 1980;13(8):653-661.

600. **The instant centre pathway as a parameter of joint motion: An experimental investigation of a method of assessment of knee ligament injury and repair.** Harding ML and Blakemore ME. *Eng Med* 1980 Oct;9(4):195-200.

601. **Intra-articular pressure during joint use--Their changes with disease and pathological consequences.** Jayson MIV. *Eng Med* 1980 Apr;9(2):105-106.

602. **Joint forces in the human pelvis-leg skeleton during walking.** Rohrle H, Scholten R, Sigolotto C, Sollbach W and Kellner H. *J Biomech* 1984;17(6):409-424.

603. **Joint space of the human knee and hip joint under a static load.** Terayama K, Takei T and Nakada K. *Eng Med* 1980 Apr;9(2):67-74.

604. **Justification of triaxial goniometer for the measurement of joint rotation.** Chao EYS. *J Biomech* 1980;13(12):989-1006.

605. **Knee goniometer diagnostic tests: On-line measurement and interpretation.** Schmitt NM, Tafreshi RM and Arnold JA. *Med Electron* 1983 Dec;14(6):124- 130.

606. **Knee joint angle: Its relationship to quadriceps femoris activity in normal and postarthrotomy limbs.** Krebs DE, Staples WH, Cuttita D and Ziclel RE. *Arch Phys Med Rehabil* 1983 Oct;64(10):441-447.

607. **Knee joint effusion and quadriceps reflex inhibition in man.** Spencer JD, Hayes KC and Alexander IJ. *Arch Phys Med Rehabil* 1984 Apr;65(4):171-177.

608. **Lower extremity goniometric measurements: A study to determine their reliability.** Ekstrand J, Wiktorsson M and Gillquist J. *Arch Phys Med Rehabil* 1982 Apr;63(4):171-175.

609. **Measurement and analysis of hip joint movements.** Gore TA, Flynn M and Stevens J. *Eng Med* 1979 Jan;8(1):21-26.

610. **Measurement of torque during passive and active ankle movements in patients with muscle hypertonia: a methodological study.** Broberg C and Grimby G. *Scand J Rehabil Med* 1983;(*Suppl 9*):108-117.

611. **Method for routine clinical assessment of knee-joint forces.** Johnson F and Waugh W. *Med Biol Eng Comput* 1979 Mar;17(2):145.

612. **A method of measuring from photographic records the movements of the knee joint during walking.** Huntington LJ, Kendall JP and Teitjens BR. *Eng Med* 1979 July;8(3):143-154.

613. **Normal range of motion of the hip, knee and ankle joints in male subjects: 30-40 years of age.** Roaas A and Andersson GBJ. *Acta Orthop Scand* 1982 Apr;53(2):205-208.

614. **The projection of the ground reaction force as a predictor of internal joint moments.** Wells RP. *Bull Prosthet Res* 1981 Spr;18(1, BPR 10-35):15-19.

615. **Proprioception of the knee joint: Paradoxical effect of training.** Barrack RL, Skinner HB and Cook SD. *Am J Phys Med* 1984 Aug;63(4):175-181.

616. **Response of a two-dimensional dynamic model of the human knee to the externally applied forces and moments.** Moeinzadeh MH and Engin AE. *J Biomed Eng* 1983 Oct;5(4):281-291.

617. **Review of some basic assumptions in knee biomechanics.** Nissan M. *J Biomech* 1980;13(4):375-381.

618. **Ruptures of the extensor mechanism of the knee joint.** Siwek CW and Rao JP. *J Bone Joint Surg* 1981 July;63-A(6):932-937.

619. **Sex differences in the skeletal geometry of the human pelvis and hip joint.** Brinckmann P, Hoefert H and Jongen HT. *J Biomech* 1981;14(6):427-430.

620. **Spherometer measurements of human hip joint geometry.** Clark IC, Fiske C and Amstutz HC. *Med Biol Eng Comput* 1979 Mar;17(2):155-160.

621. **Surgical implications of biomechanics of the foot and ankle.** Mann RA. *Clin Orthop Relat Res* 1980 Jan-Feb;146:111-118.

622. **Telemetry instrumentation for kinesiologic studies of knee motion.** Foster DL, Werner F, Murray DG and Somerset JH. *Med Res Eng* 1980;13(2):17-21.

623. **A three-dimensional biomechanical model of hip musculature.** Dostal WF and Andrews JG. *J Biomech* 1981;14(11):803-812.

624. **A three-dimensional mathematical model of the knee joint.** Wismans J, Veldpaus F, Janssen J, Huson A and Struben P. *J Biomech* 1980;13(8):677-686.

625. **Transient elastophydrodynamic lubrication models for the human ankle joint.** Medley JB, Dowson D and Wright V. *Eng Med* 1984 July;13(3):137-151.

626. **The use of a permutation approach in the solution of joint biomechanics: The knee.** Nissan M. *Eng Med* 1981 Jan;10(1):39-43.

627. **Utilization of the hamstring position (reverse arm) on the NK table for increasing range of motion in the knee joint (from the clinic).** Parhad A, Gervais B and Wu YC. *Am Correct Ther J* 1981 May-June;35(3):72-76.

Biomechanics: Joint Force Analysis — Upper Limb

628. **Acquisition and analysis of electromyographic data associated with dynamic movements of the arm.** Gandy M, Johnson SW, Lynn PA, Reed GAL and Miller S. *Med Biol Eng Comput* 1980 Jan;18(1):57-64.

629. **Analysis of elbow forces due to highspeed forearm movements.** Amis AA, Dowson D and Wright V. *J Biomech* 1980;13(10):825-831.

630. **Analytical development in investigation of wrist kinematics.** Youm Y and Yoon YS. *J Biomech* 1979;12(8):613-621.

631. **A biomechanical analysis of the functions of the deltoid during abduction of the arm.** Scholten PJM, De Boer A and Vuistang W. *Eng Med* 1982 Jan;11(1):3-10.

632. **A biomechanical analysis of the joints of the thumb.** Toft R and Berme N. *J Biomech* 1980;13(4):353-360.

633. **Biomechanical aspects of the elbow: joint forces related to prosthesis design.** Amis AA, Miller JH, Dowson D and Wright V. *Eng Med* 1981 Apr;10(2):65-68.

634. **Biomechanics of elbow instability: the role of the medial collateral ligament.** Schwab GH, Bennett JB, Woods GW and Tullos HS. *Clin Orthop Relat Res* 1980 Jan-Feb;146:42-52.

635. **Biomechanics of the shoulder.** Bechtol CO. *Clin Orthop Relat Res* 1980 Jan-Feb;146:37-41.

636. **Carrying angle of the human elbow joint.** An KN, Morrey BF and Chao EYS. *J Orthop Res* 1984;1(4):369-378.

637. **Decrease in grip strength induced by simultaneous bilateral exertion with reference to finger strength.** Ohtsuki T. *Ergonomics* 1981 Jan;24(1):37-48.

638. **Determination of muscle and joint forces: A new technique to solve the indeterminate problem.** An KN, Kwak BM, Chao EYS and Morrey BF. *J Biomech Eng* 1984 Nov;106(4):364-367.

639. **Determination of muscle orientations and moment arms.** An KN, Takahashi K, Harrigan TP and Chao EYS. *J Biomech Eng* 1984 Aug;106(3):280-282.

640. **Differential diagnosis of lesions producing stiff shoulder.** Flax HJ. *Am J Phys Med* 1981 Feb;60(1):20-29.

641. **A discrete step goniometer for the human elbow.** Roth PJ, Unsworth A and Haslock I. *Eng Med* 1981 Apr;10(2):79-83.

642. **Effects of a wrapping technique on passive range of motion in a spastic upper extremity.** Twist DJ. *Phys Ther* 1985 Mar;65(3):299-304.

643. **Elbow joint force predictions for some strenuous isometric actions.** Amis AA, Dowson D and Wright V. *J Biomech* 1980;13(9):765-775.

644. **A finger arthrograph for the quantification of joint stiffness.** Jobbins B, Bird HA and Wright V. *Eng Med* 1981 Apr;10(2):85-88.

645. **Functional test for the hemiparetic upper extremity.** Wilson DJ, Baker LL and Craddock JA. *Am J Occup Ther* 1984 Mar;38(3):159-164.

646. **Hand function, biomechanics and disability.** Purves WK, Berme N and Paul JP. *Eng Med* 1980 Oct;9(4):215-220.

647. **Influence of resistance, speed of movement, and forearm position on recruitment of the elbow flexors.** Stewart OJ, Peat M and Yaworski GR. *Am Phys Med* 1981 Aug;60(4):165-179.

648. **Inhibition of individual fingers during grip strength exertion.** Ohtsuki T. *Ergonomics* 1981 Jan;24(1):21-36.

649. **Kinesiology of the thumb trapeziometacarpal joint.** Cooney WP, III, Lucca MJ, Chao EYS and Linscheid RL. *J Bone Joint Surg* 1981 Dec;63-A(9):1371-1381.

650. **Kinesthetic biofeedback: A treatment modality for elbow range of motion in hemiplegia.** Greenberg S and Fowler RS, Jr. *Am J Occup Ther* 1980 Nov;34(11):738-743.

651. **Ligamentous structures of the metacarpophalangeal joint: a quantitative anatomic study.** Minami A, An KN, Cooney WP, III, Linscheid RL and Chao EYS. *J Orthop Res* 1984;1(4):361-368.

652. **Localizing ulnar nerve lesions to the elbow by motor conduction studies.** Pickett JB and Coleman LL. *Electromyogr Clin Neurophysiol* 1984 June-July;24(5):343-360.

653. **Muscles across the elbow joint: a biomechanical analysis.** An KN, Hui FC, Morrey BF, Linscheid RL and Chao EY. *J Biomech* 1981;14(10):659-669.

654. **Neurocontrol of upper motor neurone muscle paralysis.** Dimitrijevic MR and Dimitrijevic MM. *Scand J Rehabil Med* 1983;(*Suppl 9*):40-44.

655. **On the biomechanics of the shoulder complex.** Engin AE. *J Biomech* 1980;13(7):575-590.

Biomechanics: Muscular Contractions

656. **Resultant finger joint loads in selected activities.** Purves WK and Berme N. *J Biomed Eng* 1980 Oct;2(4):285-289.

657. **Shoulder motion and muscle strength of normal men and women in two age groups.** Murray MP, Gore DR, Gardner GM and Mollinger LA. *Clin Orthop Relat Res* 1985 Jan-Feb;192:268-273.

658. **The wrist position between neutral and ulnar deviation that facilitates the maximum power grip strength.** Pryce JC. *J Biomech* 1980;13(6):505-511.

659. **Age-related differences in isometric and dynamic strength and endurance.** Johnson T. *Phys Ther* 1982 July;62(7):985-989.

660. **Coactivation of synergistic muscles of different fiber types in fast and slow contractions.** Kuo KHM and Clamann HP. *Am J Phys Med* 1981 Oct;60(5):219-238.

661. **Device for stretching the hamstring muscles: Suggestion from the field.** Dubuc WE and Bohannon RW. *Phys Ther* 1985 Mar;65(3):352-353.

662. **Effect of exercise of the lower limbs on the non-exercised biceps brachii muscle.** Wolf E, Blank A, Shoshina M and Gonen B. *Am J Phys Med* 1984 June;63(3):113-121.

663. **The effect of handgrip span on isometric exercise performance.** Petrofsky JS, Williams C, Kamen G and Lind AR. *Ergonomics* 1980 Dec;23(12):1129-1135.

664. **Effect of quadriceps femoris muscle stretch on knee extension torque.** Bohannon RW and Gibson DF. *Phys Ther* 1985 Mar;65(3):312-313.

665. **An evaluation of the ration between the tensions along the quadriceps tendon and the patellar ligament.** Ellis MI, Seedhom BB, Wright V and Dowson D. *Eng Med* 1980 Oct;9(4):189-194.

666. **Isokinetic and isometric torque relationships in the human body.** Knapik JJ and Ramos MU. *Arch Phys Med Rehabil* 1980 Feb;61(2):64-67.

667. **Maintenance, training and functional use of denervated muscles.** EichhornKF, Schubert W and David E. *J Biomed Eng* 1984 July;6(3):205-211.

668. **Measurement of localized muscle fatigue in building work.** Malmquist R, Ekholm I, Lindstrom L, Petersen I, Ortengren R, Bjuro T, Herberts P and Kadefors RK. *Ergonomics* 1981 Sep;24(9):695-709.

669. **The measurement of muscle fiber conduction velocity using a gradient threshold zero-crossing method.** Masuda T, Miyano H and Sadoyama T. *IEEE Trans Biomed Eng* 1982 Oct;BME-29(10):673-678.

670. **A model for semi-quantitative studies of muscle actions.** Takashima ST, Singh SP, Haderspeck KA and Schultz AB. *J Biomech* 1979;12(12):929-939.

671. **Multiterritorial muscle evaluations for maximal isometric contraction of the deltoid muscle in normal and dystrophic humans.** Simard T, Vorro J and Rocque P. *Am J Phys Med* 1981 June;60(3):132-143.

672. **Muscle dynamics, size principles, and stability.** Zheng YF, Hemami H and Stokes BT. *IEEE Trans Biomed Eng* 1984 July;BME-31(7):489-497.

673. **Muscle fatigue monitor: A noninvasive device for observing localized muscular fatigue.** Stulen FB and De Luca CJ. *IEEE Trans Biomed Eng* 1982 Dec;BME-29(12):760-768.

674. **Muscle fiber type characteristics of M. deltoideus in wheelchair athletes: Comparison with other trained athletes.** Tesch PA and Karlsson J. *Am J Phys Med* 1983 Oct;62(5):239-243.

675. **Post vibratory effects on fractionated reaction time and maximum isometric strength.** Clarkson PM, Zigon ST and Kamen G. *Am J Phys Med* 1980 Dec;59(6):271-279.

676. **Recovery after muscular fatigue in hemiparesis.** Chaco J, Blank A and Gonen B. *Am J Phys Med* 1981 Feb;60(1):30-32.

677. **Rehabilitation of knee flexor and knee extensor muscle strength in patients with meniscectomies, ligamentous repairs, and chondromalacia.** Campbell DE and Glenn W. *Phys Ther* 1982 Jan;62(1):10-15.

678. **Sensation of static force in muscles of different length.** Cafarelli E and Bigland-Ritchie B. *Exp Neurol* 1979 Sep;65(3):511-525.

679. **The specificity of endurance training on muscular power and muscle fibre size.** Constable SH, Collins RL and Krahenbuhl GS. *Ergonomics* 1980 July;23(7):667-678.

680. **Strength of isometric and isokinetic contractions: knee muscles of men ages 20-86.** Murray MP, Gardner GM, Mollinger LA and Sepic SB. *Phys Ther* 1980 Apr;60(4):412-419.

681. **Study on eccentric-concentric contraction of the upper extremity muscles.** Bober T, Jaskolski E and Nowacki Z. *J Biomech* 1980;13(2):135-138.

682. **A thermodynamic model of biological body: Muscle mechanics.** Brankow G and Petrov N. *J Biomech Eng* 1978 Feb;100(1):14-21

683. **Thigh muscle atrophy in below-knee amputees.** Renstrom P, Grimby G, Morelli B and Palmertz B. *Scand J Rehabil Med* 1983;(Suppl 9):150-162.

684. **Thigh muscle strength in below-knee amputees.** Renstrom P, Grimby G and Larsson E. *Scand J Rehabil Med* 1983;(Suppl 9):163-173.

685. **Torque curves produced at the knee during isometric and isokinetic exercise.** Scudder GN. *Arch Phys Med Rehabil* 1980 Feb;61(2):68-73.

686. **Use of optimization techniques to predict muscle forces.** Crowninshield RD. *J Biomech Eng* 1978 May;100(2):88-92.

Prosthetics/Amputation: Bone

687. **Anisotrophic yield behavior of bone under combined axial force and torque.** Cezayirlioglu H, Bahniuk E, Davy DT and Heiple KG. *J Biomech* 1985;18(1):61-69.

688. **Biomechanical and clinical assessment of hip nerve block in unilateral osteoarthrosis.** Bader DL, Kodadadeh S, Turner A, Edmonds-Seal J and Fuller DJ. *Eng Med* 1982 Jan;11(1):39-42.

689. **Biomechanical study of a highly stable intramedullar osteosynthetic device.** Peruchon E, Colchero F, Micallef JP, Saint-Pierre B and Rabischong P. *J Biomed Eng* 1984 Jan;6(1):17-21.

690. **Effect of short-wave diathermy on mobility and radiological stage of the knee in the development of experimental osteoarthritis.** Vanharanta H. *Am J Phys Med* 1982 Apr;61(2):59-65.

691. **Permanent deformation of compact bone monitored by acoustic emission.** Wright TM, Vosburgh F and Burstein AH. *J Biomech* 1981;14(6):405-409.

Bone: Bone Fractures

692. **Anterior dislocation of the hip and associated femoral-head fractures.** DeLee JC, Evans JA and Thomas J. *J Bone Joint Surg* 1980 Sep;62-A(6):960-964.

693. **A biomechanical comparison of various methods of stabilitzation of subtrochanteric fractures of the femur.** Tencer AF, Johnson KD, Johnson DWC and Gill K. *J Orthop Res* 1984;2(3):297-305.

694. **A biomechanical study of the treatment of tibial fractures using plaster casts.** Unsworth A and Shannon FT. *Eng Med* 1979 Jan;8(1):4-10.

695. **Classification of trochanteric fractures.** Jensen FS. *Acta Orthop Scand* 1980 Oct;51(5):803-810.

696. **Comparison of cyclic loading versus constant compression in the treatment of long-bone fractures in rabbits.** Wolf JW, Jr, White AA, III, Panjabi MM and Southwick WO. *J Bone Joint Surg* 1981 June;63-A(5):805-810.

697. **Comparison of the effects of compression plates and external fixators on early bone-healing.** Lewallen DG, Chao EYS, Kasman RA and Kelly PJ. *J Bone Joint Surg* 1984 Sep;66-A(7):1084-1091.

698. **Comparison of mechanical performance in four types of external fixators.** McCoy MT, Chao EYS and Kasman RA. *Clin Orthop Relat Res* 1983 Nov;180:23-33.

699. **Comparison of osteotomy healing under external fixation devices with different stiffness characteristics.** Wu JJ, Shyr HS, Chao EYS and Kelly PJ. *J Bone Joint Surg* 1984 Oct;66-A(8):1258-1264.

700. **A critical analysis of ender nailing in the treatment of trochanteric fractures.** Jensen FS and Sonne-Holm S. *Acta Orthop Scand* 1980 Oct;51(5):817-825.

701. **A critical analysis of quadriceps function after femoral shaft fracture in adults.** Mira AJ, Markley K and Greer RB, III. *J Bone Joint Surg* 1980 Jan;62-A(1):61-67.

702. **A fluted intramedullary rod for subtrochanteric fractures: Biomechanical considerations and preliminary clinical results.** Heiple KG, Brooks DB, Samson BL and Burstein AH. *J Bone Joint Surg* 1979 July;61-A(5):730-738.

703. **Fractures of the lower limbs in patients with myelomeningocele.** Freehafer AA, Anschuetz RH and Shaffer JW. *Inter-Clin Info Bull* 1982 Jan;18(1):11-13.

704. **An impacted dens fracture in an elderly woman.** Gerhart TN and White AA, III. *Clin Orthop Relat Res* 1982 July;167:173-175.

705. **Internal fixation of intertrochanteric hip fractures: A clinical and biomechanical study.** Jocabs RR, McClain O and Armstrong HJ. *Clin Orthop Relat Res* 1980 Jan-Feb;146:62-70.

706. **Less rigid internal fixation plates: Historical perspectives and new concepts.** Woo SLY, Lothringer KS, Akeson WH, Coutts RD, Woo YK, Simon BR and Gomez MA. *J Orthop Res* 1984;1(4):431-449.

707. **Limb fractures in a defined population. Part I: Frequency and distribution.** Garraway WM, Stauffer RN, Kurland LT and O'Fallon WM. *Mayo Clin Proc* 1979 Nov;54(11):701-707.

708. **Limb fractures in a defined population. Part II: Orthopedic treatment and utilization of health care.** Garraway WM, Stauffer RN, Kurland LT and O'Fallon WM. *Mayo Clin Proc* 1979 Nov;54(11):708-713.

709. **Mechanisms of femoral fracture.** Viano DC and Stalnaker RL. *J Biomech* 1980;13(8):701-715.

710. **Natural frequency of fracture fragments in the assessment of tibial fracture healing.** Nokes LDM, Mintowt-Czyz WJ, Fairclough JA, Mackie I, Howard C and Williams J. *J Biomed Eng* 1984 July;6(3):227-229.

711. **The Salford technique for the treatment of complicated tibial fractures.** Banks AJ and Dervin E. *Eng Med* 1980 Apr;9(2):84-85.

712. **Skeletal stabilization with a multiplane external fixation device: Biomechanical evaluation and finite element model.** Johnson WD and Fischer DA. *Clin Orthop Relat Res* 1983 Nov;180:34-43.

713. **Skeletal stabilization with a multiplane external fixation device: Design rationale and preliminary clinical experience.** Fischer DA. *Clin Orthop Relat Res* 1983 Nov;180:50-62.

714. **Stable trochanteric fractures: A comparative analysis of four methods of internal fixation.** Jensen FS, Tondevold E and Sonne-Holm S. *Acta Orthop Scand* 1980 Oct;51(5):811-816.

715. **Tensile fracture of cancellous bone.** Carter DR, Schwab GH and Spengler DM. *Acta Orthop Scand* 1980 Oct;51(5):733-741.

716. **Treatment of pathological fractures and impending pathological fractures of the femur with ender nails.** Santori FS, Ghera S, De Palma F and De Chiara N. *Orthopedics* 1984 Feb;7(2):269-274.

717. **Treatment of femoral shaft fractures in the spinal cord injury patient using the Wagner leg lengthening device.** Baird RA and Kreitenberg A. *Paraplegia* 1984 Dec;22(6):366-372.

718. **Vibration analysis in the assessment of conservatively managed tibial fractures.** Nokes LDM, Mintowt-Czyz WJ, Fairclough JA, Mackie I and Williams J. *J Biomed Eng* 1985 Jan;7(1):40-41.

Bone: Electrical Stimulation

719. **Bioelectric characteristics of unstressed in vivo bone.** Behari J and Singh S. *Med Biol Eng Comput* 1981 Jan;19(1):49-54.

720. **Bioelectric stimulation of bone formation: Methods, models, and mechanisms.** Spadaro JA. *J Bioelectr* 1982;1(1):99-128.

721. **Bone electrical conduction.** Rinaldi RA and Goodrich JD. *J Bioelectr* 1982;1(1):83-97.

722. **A brief historical note on the use of electricity in the treatment of fracture.** Peltier LF. *Clin Orthop Relat Res* 1981 Nov-Dec;161:4-7.

723. **Clinical aspects of the stimulation of bone healing using electrical phenomena.** Watson J and Downes EM. *Med Biol Eng Comput* 1979 Mar;17(2):161-169.

724. **The design of a clinical electromagnetic bone stimulator.** Barker AT. *Clin Phys Physiol Meas* 1981 Feb;1(1):9-16.

725. **A device for generation of electromagnetic fields of extremely low frequency.** Wahlstrom O and Knutsson H. *J Biomed Eng* 1984 Oct;6(4):293-296.

726. **Dielectric properties of fluid-saturated bone.** Chakkalakal DA, Johnson MW, Harper RA and Katz JL. *IEEE Trans Biomed Eng* 1980 Feb;BME-27(2):95-100.

727. **The effect of variations of the conducting media inhomogeneities on the electroretinogram.** Doslak MJ, Plonsey R and Thomas CW. *IEEE Trans Biomed Eng* 1980 Feb;BME-27(2):88-94.

728. **Electrical properties of bone: A review.** Singh S and Saha S. *Clin Orthop Relat Res* 1984 June;186:249-271.

729. **Electrical properties of compact bone.** Chakkalakal DA and Johnson MW. *Clin Orthop Relat Res* 1981 Nov-Dec;161:133-145.

730. **Electrical stimulation in the treatment of ununited fractures.** Day L. *Clin Orthop Relat Res* 1981 Nov-Dec;161:54-57.

731. **Electrical treatment of non-united fractures.** Ahl T, Andersson G, Herberts P and Kalen R. *Acta Orthop Scand* 1984 Dec;55(6):585-588.

732. **The electrical treatment of scaphoid nonunion.** Bora FW, Jr, Osterman AL and Brighton CT. *Clin Orthop Relat Res* 1981 Nov-Dec;161:33-38.

733. **Electromagnetic stimulation of bone growth and repair: an interdisciplinary study.** Hinsenkamp M and Burny F. *Acta Orthop Scand* (*Suppl* 196) 1982;53:1-91.

734. **Electro-mechanical behavior of wet bone--Part I: Theory.** Guzelsu N and Saha S. *J Biomech Eng* 1984 Aug;106(3):249-261.

735. **Electro-mechanical behavior of wet bone--Part II: Wave propagation.** Guzelsu N and Saha S. *J Biomech Eng* 1984 Aug;106(3):262-271.

736. **Fixation of porous titanium implants in cortical bone enhanced by electrical stimulation.** Colella SM, Miller AG, Stang RG, Stoebe TG and Spengler DM. *J Biomed Mater Res* 1981 Jan;15(1):37-46.

737. **Function of implanted cathodes in electrode-induced bone growth.** Spadaro JA and Becker RO. *Med Biol Eng Comput* 1979 Nov;17(6):769-775.

738. **Nonunion treatment with pulsed electromagnetic fields.** Heckman JD, Ingram AJ, Loyd RD, Luck JV, Jr and Mayer PW. *Clin Orthop Relat Res* 1981 Nov-Dec;161:58-66.

739. **Preliminary studies on the effects of direct current on the bone/porous implant interfaces.** Park JB, Salman NN, Kenner GH and Von Recum AF. *Ann Biomed Eng* 1980;8(1):93-101.

740. **A pulsed electromagnetic stimulator for bone-growth studies.** Reddy GN, Saha S and Tuai GL. *Med Instrum* 1983 Sep-Oct;17(5):347-350.

741. **Selection, evaluation and indications for electrical stimulation of ununited fractures.** Connolly JF. *Clin Orthop Relat Res* 1981 Nov-Dec;161:39-53.

742. **The significance of electrically stimulated osteogensis: More questions than answers.** Becker RO. *Clin Orthop Relat Res* 1979 June;141:266-275.

743. **Skeletal tissue electromechanics and electrical stimulation of growth and remodeling.** Grodzinsky AJ and Hey LA. *IEEE Eng Med Biol Mag* 1983 Dec;2(4):18.

744. **Stimulation of fracture healing with electromagnetic fields of extremely low frequency (EMF of ELF).** Wahlstrom O. *Clin Orthop Relat Res* 1984 June; 186:293-301.

745. **Surgical and electrical methods in the treatment of congenital and posttraumatic pseudarthrosis of the tibia.** Von Satzger G and Herbst E. *Clin Orthop Relat Res* 1981 Nov-Dec;161:82-104.

746. **Treatment of avascular necrosis of the femoral head by a combination of bone grafting, decompression and electrical stimulation.** Steinberg ME, Brighton CT, Steinberg DR, Tooze SE and Hayken GD. *Clin Orthop Relat Res* 1984 June;186:137-153.

Bone: Mechanical Properties

747. **Direct and indirect determination of tibial natural frequency--A comparison of frequency domain analysis and fast Fourier transform.** Nokes LDM, Mintowt-Czyz WJ, Mackie I, Fairclough JA and Williams J. *J Biomed Eng* 1984 Jan;6(1):45-48.

748. **The effect of composition, structure and age on the torsional properties of the human radius.** Burr DB and Martin RB. *J Biomech* 1983;16(8):603-608.

749. **Experimental determination of whole long bone sectional properties.** Gies AA and Carter DR. *J Biomech* 1982;15(4):297-303.

750. **Fatigue behavior of adult cortical bone: The influence of mean strain and strain range.** Carter DR, Caler WE, Spengler DM and Frankel VH. *Acta Orthop Scand* 1981 Oct;52(5):481-490.

751. **The geometric properties of paired human tibiae.** Miller GJ and Purkey WW, Jr. *J Biomech* 1980;13(1):1-8.

752. **Improved techniques for measuring in vitro the geometry and pressure distribution in the human acetabulum. Part I: Ultrasonic measurement of acetabular surfaces, sphericity and cartilage thickness.** Rushfeldt PD, Mann RW and Harris WH. *J Biomech* 1981;14(4):253-260.

753. **Improved techniques for measuring in vitro the geometry and pressure distribution in the human acetabulum. Part II: Instrumented endoprosthesis measurement of articular surface pressure distribution.** Rushfeldt PD, Mann RW and Harris WH. *J Biomech* 1981;14(5):315-323.

754. **A literature review of vibrational analysis of human limbs.** Nokes LDM, Williams JH, Fairclough JA, Mintowt-Czyz WJ and Mackie IG. *IEEE Trans Biomed Eng* 1984 Feb;BME-31(2):187-192.

755. **Measurement and analysis of in vivo bone strains on the canine radius and ulna.** Carter DR, Smith DJ, Spengler DM, Daly CH and Frankel VH. *J Biomech* 1980;13(1):27-38.

756. **The mechanical and stress adaptive properties of bone.** Cowin SC. *Ann Biomed Eng* 1983;11(3-4):263-295.

757. **The mechanical characteristics of the long bones of the lower extremity in torsional loading.** Martens M, Van Audekercke R, De Meester P and Mulier JC. *J Biomech* 1980 13(8):667-676.

758. **Plate and bone stresses for single- and double-plated femoral fractures.** Carter DR and Vasu R. *J Biomech* 1981;14(1):55-62.

759. **The plated femur: Relationships between the changes in bone stresses and bone loss.** Carter DR, Vasu R and Harris WH. *Acta Orthop Scand* 1981 June;52(3):241-248.

760. **Resultant loads and elastic modulus calibration of long bone cross sections.** Carter DR, Caler WE and Harris WH. *J Biomech* 1981;14(11):739-745.

761. **Strain and frequency dependence of shear storage modulus for human single osteons and cortical bone micro-samples-size and hydration effects.** Frasca P, Harper R and Katz JL. *J Biomech* 1981;14(10):679-690.

762. **Strain dependence of dynamic young's modulus for human single osteons.** Frasca P, Jacyna G, Harper R and Katz JL. *J Biomech* 1981;14(10):691-696.

763. **Stress fields in the unplated and plated canine femur calculated from in vivo strain measurements.** Carter DR, Vasu R, Spengler DM and Dueland RT. *J Biomech* 1981;14(1):63-70.

764. **Stress transmission anomalies in femoral heads altered by aseptic necrosis.** Brown TD, Way ME and Ferguson AB, Jr. *J Biomech* 1980;13(8):687-699.

765. **The Structure and anisotrophic mechanical properties of bone.** Katz JL and Yoon HS. *IEEE Trans Biomed Eng* 1984 Dec;BME-31(12):878-884.

Prosthetics/Amputation: Orthopedic Implants

766. **Techniques for implementing an in vivo bone strain gage system.** Caler WE, Carter DR and Harris WH. *J Biomech* 1981;14(7):503-507.

767. **Three-dimensional osteometric scaling and normative modelling of skeletal segments.** Sommer HJ, III, Miller NR and Pijanowski GJ. *J Biomech* 1982;15(3):171-180.

768. **The three-dimensional rotational behaviors of the carpal bones.** Berger RA, Crowninshield RD and Flatt AE. *Clin Orthop Relat Res* 1982 July;167:303-310.

769. **Uniaxial fatigue of human cortical bone: The influence of tissue physical characteristics.** Carter DR, Caler WE, Spengler DM and Frankel VH. *J Biomech* 1981;14(7):461-470.

770. **Vibration analysis of human tibia: The effect of soft tissue on the output from skin-mounted accelerometers.** Nokes LDM, Fairclough JA, Mintowt-Czyz WJ, Mackie I and Williams J. *J Biomed Eng* 1984 July;6(3):223-226.

771. **Acrylic bone cement: In vitro and in vivo property-structure relationship--A selected review.** Park JB. *Ann Biomed Eng* 1983;11(3-4):297-312.

772. **Alloys for orthopaedic implant use.** Dobbs HS and Robertson JLM. *Eng Med* 1982 Oct;11(4):175-182.

773. **Analysis of bone-composite interfacial strengths.** Davis CM and Shackelford JF. *Biomater Med Devices Artif Organs* 1981;9(1):47-55.

774. **Antibacterial and osteoinductive properties of demineralized bone matrix treated with silver.** Kramer SJ, Spadaro JA and Webster DA. *Clin Orthop Relat Res* 1981 Nov-Dec;161:154-162.

775. **Architectural changes in the proximal femur following prosthetic insertion: Preliminary observations of an animal model.** Rose RM, Martin RB, Orr RB and Radin EL. *J Biomech* 1984;17(4):241-249.

776. **Biological performance of materials: fundamentals of biocompatibility.** Black J. **(Biomedical Engineering and Instrumentation Series, vol 8).** New York, NY: Marcel Dekker, 1981, 256 pp.

777. **Biomaterials and biomechanics 1983. 4th European conference on biomaterials.** Edited by Ducheyne P., Van Der Perre G and Aubert AE. New York, NY: Elsevier, 1984, 475 pp.

778. **Biomaterials research in Japan.** Williams DF and Dowson D. *Eng Med* 1981 Oct;10(4):223.

779. **Biomedical applications of carbons and graphites.** Jenkins GM. *Clin Phys Physiol Meas* 1980 Aug;1(3):171-194.

780. **A cement impactor for uniform cement penetration in the upper tibia.** Kim YH, Walker PS and Deland JT. *Clin Orthop Relat Res* 1984 Jan-Feb;182:206-210.

781. **Centrifugation as a method of improving tensile and fatigue properties of acrylic bone cement.** Burke DW, Gates EI and Harris WH. *J Bone Joint Surg* 1984 Oct;66-A(8):1265-1273.

782. **Characterization of plasma polymerized silicone coatings useful as biomaterials.** Chawla AS and Sipehia R. *J Biomed Mater Res* 1984 May-June;18(5):537-545.

783. **Comparative fatigue behavior of different bone cements.** Gates EI, Carter DR and Harris WH. *Clin Orthop Relat Res* 1984 Oct;189:294-299.

784. **The corrosion fatigue of a molybdenum ion-plated orthopaedic En58J stainless steel.** Gregory B and Ozcan R. *Eng Med* 1980 Jan;9(1):3-7.

785. **A crack model of a bone cement interface.** Clech JP, Keer LM and Lewis JL. *J Biomech Eng* 1984 Aug;106(3):235-243.

786. **Development of new methods for phalangeal fracture fixation.** Alexander H, Langrana N, Massengill JB and Weiss AB. *J Biomech* 1981;14(6):377-387.

787. **Developments in transducer stems for mechanical coupling measurements in endoprosthetics.** Gola MM and Gugliotta A. *Eng Med* 1982 Oct;11(4):183-186.

788. **The effect of carbon fiber reinforcement on contact pressure, and time-dependent deformation in polyethylene tibial components.** Wright TM, Fukubayashi T and Burstein AH. *J Biomed Mater Res* 1981 Sep;15(5):719-730.

789. **Effect of cement pressure and bone strength on polymethylmethacrylate fixation.** Askew MJ, Steege JW, Lewis JL, Ranieri JR and Wixson RL. *J Orthop Res* 1984;1(4):412-420.

790. **Effect of radiation sterilization and aging on ultrahigh molecular weight polyethylene.** Roe RJ, Grood ES, Shastri R, Gosselin CA and Noyes FR. *J Biomed Mater Res* 1981 Mar;15(2):209-230.

791. **The effects of intramedullary implants on bone strains and remodeling in the femur.** Cook SD, Weinstein AM, Luedemann R, Lavernia C, Skinner HB and Klawitter JJ. *Biomater Med Devices Artif Organs* 1982;10(1):21-40.

792. **Effects of tibial components on load transfer in the upper tibia.** Reilly D, Walker PS, Ben-Dov M and Ewald FC. *Clin Orthop Relat Res* 1982 May;165:273-282.

793. **Fatigue properties of carbon- and porous-coated Ti-6A1-4V alloy.** Cook SD, Georgette FS, Skinner HB and Haddad RJ, Jr. *J Biomed Mater Res* 1984 May-June;18(5):497-512.

794. **The formation of stress by acrylic bone cements during fixation of the acetabular prosthesis.** Holm NF. *Acta Orthop Scand* 1980 Oct;51(5):719-726.

795. **Fracture toughness concept applied to methyl methacrylated.** Sih GC and Berman AT. *J Biomed Mater Res* 1980 May;14(3):311-324.

796. **From straps, braces, and buckles to implants and replacements.** Savastano AA. *Contemp Orthop* 1985 Jan;10(1):103-112.

797. **Free radical decay kinetics in PMMA bone cement.** Turner RC. *J Biomed Mater Res* 1984 May-June;18(5):467-473.

798. **Hydrophilic polyurethane elastomers for hemiarthroplasty: A preliminary in vitro wear study.** Medley JB, Pilliar RM, Wong EW and Strong AB. *Eng Med* 1980 Apr;9(2):59-65.

799. **Implants: Reconstructing the human body.** Lynch W. New York, NY: Van Nostrand Reinhold, 1982, 224 pp.

800. **Improvement of mechanical properties of acrylic bone cement by fiber reinforcement.** Saha S and Pal S. *J Biomech* 1984;17(7):467-478.

801. **In vivo and in vitro considerations of corrosion testing.** Brown SA and Merritt K. *Biomater Med Devices Artif Organs* 1981;9(1):57-63.

802. **The influence of femoral stem thickness and implantation technique on the strength of the bone cement bond.** Savino AW, Andersson GBJ, Andriacchi TP, Hampton S and Galante JO. *Acta Orthop Scand* 1982 Feb;53(1):23-27.

803. **The influence of temperature and specimen size on the flexural properties of PMMA bone cement.** Brown SA and Bargar WL. *J Biomed Mater Res* 1984 May-June;18(5):523-536.

804. **Interface mechanics and bone growth into porous Co-Cr-Mo alloy implants.** Cook SD, Walsh KA and Haddad RJ, Jr. *Clin Orthop Relat Res* 1985 Mar;193:271-280.

805. **Interface mechanics of porous titanium implants.** Clemow AJT, Weinstein AM, Klawitter JJ, Koeneman J and Anderson J. *J Biomed Mater Res* 1981 Jan; 15(1):73-82.

806. **Key references in biomaterials: Bone/biomaterial interface in orthopedic joint implants.** Gruen TA and Sarmiento A. *J Biomed Mater Res* 1984 May-June;18(5):577-599.

807. **Materials for human implantation.** Rostoker W and Galante JO. *J Biomech Eng* 1979 Feb;101(2):2-14.

808. **Mechanical properties of poly(methyl methacrylate) bone cements.** Robinson RP, Wright TM and Burstein AH. *J Biomed Mater Res* 1981 Mar;15(2):203-208.

809. **Mechanical strength of bone simplex cement prosthetic bond.** Kuhlman RE. *Orthop Rev* 1979 Sep;8(9):31-38.

810. **Metal ion release from titanium-based prosthetic segmental replacements of long bones in baboons: A long-term study.** Woodman JL, Jacobs JJ, Galante JO and Urban RM. *J Orthop Res* 1984;1(4):421-430.

811. **Micromechanical bonding at a porous surface structured implant interface--The effect on implant stressing.** Pilliar RM and Bratina WJ. *J Biomed Eng* 1980 Jan;2(1):49-53.

812. **Osteogenic phenomena across endosteal bone-implant spaces with porous-surfaced intramedullary implants.** Bobyn JD, Pilliar RM, Cameron HU and Weatherly GC. *Acta Orthop Scand* 1981 Apr;52(2):145-153.

813. **Piezoelectric ceramic implants: A feasibility study.** Park JB, Von Recum AF, Kenner GH, Kelly BJ, Coffeen WW and Grether MF. *J Biomed Mater Res* 1980 May;14(3):269-277.

814. **Pre-ischiatic silicone implants.** Sierra AC, Pita AL and De Munian PS. *Paraplegia* 1980 Feb;18(2):52-55.

Orthopedic Implants: Joint Prostheses

815. **The quasistatic and fatigue performance of the implant/bone-cement interface.** Raab S, Ahmed AM and Provan JW. *J Biomed Mater Res* 1981 Mar;15(2):159-182.

816. **Radiographic assessment of acetabular cup orientation: A new design concept.** Chandler DR, Tarr RR, Gruen TA and Sarmiento A. *Clin Orthop Relat Res* 1984 June;186:60-64.

817. **The relationship between in vivo strains and cortical bone remodeling.** Carter DR. *CRC Crit Rev Biomed Eng* 1982;8(1):1-28.

818. **The relaxation of some acrylic bone cements.** Holm NF. *Acta Orthop Scand* 1980 Oct;51(5):727-731.

819. **Replacement of the proximal humerus with a ceramic prosthesis: A preliminary report.** Sim FH, Chao EYS, Pritchard DJ and Salzer M. *Clin Orthop Relat Res* 1980 Jan-Feb;146:161-174.

820. **Silver anode treatment of chronic osteomyelitis.** Webster DA, Spadaro JA, Becker RO and Kramer S. *Clin Orthop Relat Res* 1981 Nov-Dec;161:105-141.

821. **Silver antibacterial bone cement: Comparison with gentamicin in experimental osteomyelitis.** Dueland R, Spadaro JA and Rahn BA. *Clin Orthop Relat Res* 1982 Sep;169:264-268.

822. **Silver polymethyl methacrylate antibacterial bone cement.** Spadaro JA, Webster DA and Becker RO. *Clin Orthop Relat Res* 1979 Sep;143:266-270.

823. **Strain-controlled fatigue in acrylic bone cement.** Carter DR, Gates EI and Harris WH. *J Biomed Mater Res* 1982 Sep;16(5):647-657.

824. **Study of surface charge of the intima and artificial materials in relation to thrombogenicity.** Thubrikar M, Reich T and Cadoff I. *J Biomech* 1980;13(8):663-666.

825. **A technique for embedding strain gages within curing bone cement.** Draganich LF, Andriacchi TP and Galante JO. *J Biomech* 1982;15(10):789-793.

826. **A technique for the in vivo measurement of principal strains in the human tibia.** Finlay JB, Bourne RB and McLean J. *J Biomech* 1982;15(10):723-739.

827. **Thin film PMMA precoating for improved implant bone cement fixation.** Raab S, Ahmed AM and Provan JW. *J Biomed Mater Res* 1982 Sep;16(5):679-704.

828. **Variables affecting the fixation of tibial components.** Walker PS, Thatcher J, Ewald FC and Milden J. *Eng Med* 1982 Apr;11(2):83-87.

829. **The wear particles of synovial fluid: Their ferrographic analysis and pathophysiological significance (Technical note).** Evans CH and Mears DC. *Bull Prosthet Res* 1981 Fall;18(2, BPR 10-36):13-26.

830. **Biomechanics of the leg in relation to joint replacement.** Paul JP. *Med Prog Technol* 1982;9(2):137-140.

831. **Design of a total wrist prosthesis.** Youm Y and Flatt AE. *Ann Biomed Eng* 1984;12(3):247-262.

832. **Friction and wear properties of polymer, metal, and ceramic prosthetic joint materials evaluated on a multichannel screening device.** McKellop H, Clarke I, Markoff K and Amstutz H. *J Biomed Mater Res* 1981 Sep;5(5):619-653.

833. **Human joints and their artificial replacements.** Edited by Walker PS. Springfield, IL: Charles C Thomas, 1977, 510 pp.

834. **The ICLH elbow.** Tuke MA, Roper BA, Swanson SAV and O'Riordan S. *Eng Med* 1981 Apr;10(2):75-78.

835. **Implant arthroplasty in the hand and upper extremity and its future.** Swanson AB. *Surg Clin N Am* 1981 Apr;61(2):369-382.

836. **Metacarpophalangeal joint arthroplasty with a metallic hinged prosthesis.** Blair WF, Shurr DG and Buckwalter JA. *Clin Orthop Relat Res* 1984 Apr;184:156-163.

837. **A new approach to elbow arthroplasty.** Souter WA. *Eng Med* 1981 Apr;10(2):59-64.

838. **A new technique of total elbow replacement.** Wadsworth TG. *Eng Med* 1981 Apr;10(2):69-74.

839. **Properties of wrought CoNiCrMo alloy protasul-10, a highly corrosion and fatigue resistant implant material for joint endoprostheses.** Semlitsch M. *Eng Med* 1980 Oct;9(4):201-207.

840. **Proximal interphalangeal joint arthroplasty.** Dryer RF, Blair WF, Shurr DG and Buckwalter JA. *Clin Orthop Relat Res* 1984 May;185:187-194.

841. **Stress distributions in the acetabular region. Part I: Before and after total joint replacement.** Vasu R, Carter DR and Harris WH. *J Biomech* 1982;15 (3):155-164.

842. **Stress distributions in the acetabular region. Part II: Effects of cement thickness and backing of the total hip acetabular component.** Carter DR, Vasu R and Harris WH. *J Biomech* 1982;15(3):165-170.

843. **A technique for determining prosthetic joint contact areas.** Martin SM, Moran JM, Stahurski TM and Cepulo AJ. *J Biomech* 1984;17(7):545.

844. **Total joint arthroplasty symposium. Part II: The ankle.** Stauffer RN. *Mayo Clin Proc* 1979 Sep;54(9):570-575.

845. **Total joint arthroplasty symposium. Part II: Applications in children and adolescents.** Klassen RA, Parlasca RJ and Bianco AJ, Jr. *Mayo Clin Proc* 1979 Sep;54(9):579.

846. **Total joint arthroplasty symposium. Part II: Biologic causes of failure.** Fitzgerald RH, Jr and Kelly PJ. *Mayo Clin Proc* 1979 Sep;54(9):590-596.

847. **Total joint arthroplasty symposium. Part II: The foot.** Johnson KA. *Mayo Clin Proc* 1979 Sep;54(9):576-578.

848. **Total joint arthroplasty symposium. Part II: The hip.** Cabanela ME, Campbell DC, II and Henderson ED. *Mayo Clin Proc* 1979 Sep;54(9):559-563.

Orthopedic Implants: Total Hip Implants

849. **Total joint arthroplasty symposium. Part II: Introduction to the lower extremity.** Conventry MB. *Mayo Clin Proc* 1979 Sep;54(9):557-558.

850. **Total joint arthroplasty symposium. Part II: The knee.** Peterson LFA, Fitzgerald RH, Jr and Johnson EW, Jr. *Mayo Clin Proc* 1979 Sep;54(9):564-569.

851. **Total joint arthroplasty symposium. Part II: The role of biomechanics.** Moorey BF, Stauffer RN, Cooney WP, III and Chao EYS. *Mayo Clin Proc* 1979 Sep;54(9):597-601.

852. **Total shoulder replacement with a constrained prosthesis.** Post M, Haskell SS and Jablon M. *J Bone Joint Surg* 1980 Apr;62-A(3):327-335.

853. **Wear of artificial joint materials. Part I: Friction and wear studies: Validity of wear-screening protocols.** Clarke IC. *Eng Med* 1981 July;10(3):115-122.

854. **Wear of artificial joint materials. Part II: Twelve-channel wear-screening device: Correlation of experimental and clinical results.** McKellop H. *Eng Med* 1981 July;10(3):123-136.

855. **Wear of artificial joint materials. Part III: Simulation of the knee joint using a computer-controlled system.** Treherne RW, Young RW and Young SR. *Eng Med* 1981 July;10(3):123-136.

856. **Wear of artificial joint materials. Part IV: Hip joint simulator studies.** Clarke IC. *Eng Med* 1981 Oct;10(4):189-198.

857. **Acetabular cup groove and pod design and its effect on cement fixation in total hip arthroplasty.** Oh I, Sander TW and Treharne RW. *Clin Orthop Relat Res* 1984 Oct;189:308-312.

858. **Adaptive changes in the femur after implantation of an Austin Moore prosthesis.** Murphy SB, Walker PS and Schiller AL. *J Bone Joint Surg* 1984 Mar;66-A(3):437-443.

859. **Air in painful total hip arthroplasty: diagnosis and treatment.** Bach BR and Ewald FC. *Clin Orthop Relat Res* 1985 Mar;193:146-149.

860. **An analysis of femoral component stem design in total hip arthroplasty.** Crowninshield ED, Brand RA, Johnston RC, and Milroy JC. *J Bone Joint Surg* 1980 Jan;62-A(1):68-78.

861. **Anterolateral compared to posterior approach in total hip arthroplasty: Differences in component positioning, hip strength and hip motion.** Gore DR, Murray MP, Sepic SB and Gardner GM. *Clin Orthop Relat Res* 1982 May;165:180-187.

862. **Aseptic loosening in metal-backed acetabular components for total hip replacement: A minimum five-year follow-up.** Mattingly DA, Hopson CN, Kahn A, III and Giannestras NJ. *J Bone Joint Surg* 1985 Mar;67-A(3):387-391.

863. **An axisymmetric model of acetabular components in total hip arthroplasty.** Pedersen DR, Crowninshield RD, Brand RA and Johnston RC. *J Biomech* 1982;15(4):305-315.

864. **Biological fixation of a modified Moore prosthesis.** Engh CA, Bobyn JD and Gorski JM. *Orthopedics* 1984 Feb;7(2):285-298.

865. **Biomaterial aspects of surface replacement arthroplasty of the hip.** Black J and Sholtes V. *Orthop Clin N Am* 1982 Oct;13(4):709-728.

866. **Biomechanical factors in loosening of the Stanmore hip.** Kristiansen B and Jensen JS. *Acta Orthop Scand* 1985 Feb;56(1):21-24.

867. **Clinical and roentgenographic assessment of total hip arthroplasty: A new hip score.** Kavanagh BF and Fitzgerald RH, Jr. *Clin Orthop Relat Res* 1985 Mar;193:133-140.

868. **A comparison of the functional performance of patients with Charnley and Muller total hip replacement: A two-year follow-up of eighty-nine cases.** Murray MP, Gore DR, Brewer BJ, Gardner GM and Sepic SB. *Acta Orthop Scand* 1979 Oct;50(5):563-569.

869. **Comparison of Muller total hip replacement with and without trochanteric osteotomy: Kinesiologic measurements of 82 cases 2 years after surgery.** Murray MP, Gore DR, Brewer BJ, Gardner GM and Sepic SB. *Acta Orthop Scand* 1981 June;52(3):345-352.

870. **Conservative total hip arthroplasty.** Capello WN, Misamore GW and Trancik TM. *Orthop Clin N Am* 1982 Oct;13(4):833-842.

871. **Dependence of stem stress in total hip replacement on prosthesis and cement stiffness.** Yettram AL and Wright KWJ. *J Biomed Eng* 1980 Jan;2(1):54-59.

872. **Ectopic bone formation following Charnley hip arthroplasty.** Kromann-Andersen C, Sorensen TS, Hougaard K, Zdravkovic D and Frigaard E. *Acta Orthop Scand* 1980 Aug;51(4):633-637.

873. **Effect of ibuprofen on heterotopic ossification after hip replacement.** Elmstedt E, Lindholm TS, Nilsson OS and Tornkvist H. *Acta Orthop Scand* 1985 Feb;56(1):25-27.

874. **The effect of thickness and pressure on the curing of PMMA bone cement for the total hip joint replacement.** Sih GC, Connelly GM and Berman AT. *J Biomech* 1980;13(4):347-352.

875. **An engineering analysis of total hip component design.** Crowninshield RD, Johnston RC, Brand RA, Pedersen DR, Wilson MA and Tolbert JR. *Orthop Rev* 1983 Nov;12(11):33-45.

876. **Factors associated with heterotopic bone formation in cemented total hip prostheses.** Hierton C, Blomgren G and Lindgren U. *Acta Orthop Scand* 1983 Oct;54(5):698-702.

877. **Failure prediction of the total hip prosthesis system.** Sih GC, Matic P and Berman AT. *J Biomech* 1981;14(12):833-841.

878. **Femoral stem failures in total hip arthroplasty: An unusual causal mechanism.** Ritter MA and Kiester PD. *Orthop Clin Relat Res* 1982 May;165:176-179.

879. **Finite-element-analysis and experimental investigation in a femur with hip endoprosthesis.** Rohlmann A, Mossner U, Bergmann G and Kolbel R. *J Biomech* 1983;16(9):727-742.

880. **Finite element analysis of a simulated total hip replacement.** Svensson NL, Valliappan S and McMahon R. *Eng Med* 1980 July;9(3):143-146.

881. **Finite element temperature analysis of a total hip replacement and measurement of PMMA curing temperatures.** Swenson LW, Jr, Schurman DJ and Piziali RL. *J Biomed Mater Res* 1981 Jan;15(1):83-96.

882. **Function after revision of failed total hip arthroplasty.** Murray MP, Gore DR, Sepic SB and Gardner GM. *Acta Orthop Scand* 1984 Feb;55(1):59-62.

883. **Function following Mega total hip arthroplasty compared with conventional total hip arthroplasty and healthy matched controls.** Johnsson R, Carlsson A, Kisch K, Moritz U, Zetterstrom R and Persson BM. *Clin Orthop Relat Res* 1985 Jan-Feb;192:159-167.

884. **Function of fifty-seven septic, revised and healed total hip arthroplasties.** Carlsson AS, Josefsson G and Lindberg L. *Acta Orthop Scand* 1980 Dec;51(6):937-941.

885. **The functional cost of dislocation following total hip arthroplasty.** Chandler RW, Dorr LD and Perry J. *Clin Orthop Relat Res* 1982 Aug;168:168-172.

886. **ICLH double cup arthroplasty.** Freeman MAR and Bradley GW. *Orthop Clin N Am* 1982 Oct;13(4):799-811.

887. **In vitro evaluation of the effect of acetabular prosthesis implantation on human cadaver pelves (Technical note).** Petty W, Miller GJ and Pietrowski G. *Bull Prosthet Res* 1980 Spr;17(1, BPR 10-33):80-89.

888. **In vivo hip joint forces recorded on a strain gauged "English" prosthesis using an implanted transmitter.** Kilvington M and Goodman RMF. *Eng Med* 1981 Oct;10(4):175-187.

889. **In vivo records of hip loads using a femoral implant with telemetric output.** English TA and Kilvington M. *J Biomed Eng* 1979 Apr;1(2):111-115.

890. **In vivo strain measurements from bone and prosthesis following total hip replacement: An experimental study in sheep.** Lanyon LE, Paul IL, Rubin CT, Thrasher EL. DeLaura R, Rose RM and Radin EL. *J Bone Joint Surg* 1981 July;63-A(6):989-1001.

891. **The influence of prosthetic stem stiffness and a calcar collar onstresses in the proximal end of the femur with a cemented femoral component.** Lewis JL, Askew MJ, Wixson RL, Kramer GM and Tarr RR. *J Bone Joint Surg* 1984 Feb;66-A(2):280-286.

892. **Instability, migration and laxity of total hip prostheses: A roentgen stereophotogrammetric study.** Mjorberg B, Hansson LI and Selvik G. *Acta Orthop Scand* 1984 Apr;55(2):141-145.

893. **An investigation into biomechanical causes of prosthesis stem loosening within the proxmial end of the human femur.** Jacob HAC and Huggler AH. *J Biomech* 1980;13(2):159-173.

894. **Investigations on the Galvanic corrosion of multialloy total hipprostheses.** Lucas LC, Buchanan RA and Lemons JE. *J Biomed Mater Res* 1981 Sep;15(5):731-747.

895. **Joint function after total hip arthroplasty: A four-year follow-up of 72 cases with Charnley and Muller replacements.** Murray MP, Gore DR, Brewer BJ, Mollinger LA and Sepic SB. *Clin Orthop Relat Res* 1981 June;157:119-124.

896. **Hip replacement in a Charcot joint: A case report and historical review.** Sprenger TR and Foley CJ. *Clin Orthop Relat Res* 1982 May;165:191-194.

897. **Hip replacement with the McKee-Farrar prosthesis in rheumatoid arthritis.** Baldursson H. *Acta Orthop Scand* 1980 Aug;51(4):639-647.

898. **Lateral acetabular bone graft in total hip arthroplasty: A three- to eight-year follow-up study without internal fixation.** Ritter MA and Trancik TM. *Clin Orthop Relat Res* 1985 Mar;193:156-159.

899. **Mechanical loosening of the femoral head prosthesis in the Charnley total hip arthroplasy.** Carlsson AS and Gentz CF. *Clin Orthop Relat Res* 1980 Mar-Apr;147:262-270.

900. **Mechanical strength of sliding screw-plate hip implants: A biomedical study of unstable trochanteric fractures, VI.** Jensen JS. *Acta Orthop Scand* 1980 Aug;51(4):625-631.

901. **A method of intraoperative limb length measurement in total hip arthroplasty.** Woolson ST and Harris WH. *Clin Orthop Relat Res* 1985 Apr;194:207-210.

902. **The monk "soft top" endoprosthesis.** Webb PJ, Wright KWJ and Winter GD. *J Bone Joint Surg* 1980 May;62-B(2):174-179.

903. **Moore hemi-arthroplasty with and without bone cement in femoral neck fractures: A clinical controlled trial.** Sonne-Holm S, Walter S and Jensen JS. *Acta Orthop Scand* 1982 Dec;53(6):953-956.

904. **Neck fractures of femoral prostheses: A report of two cases.** Burstein AH and Wright TM. *J Bone Joint Surg* 1985 Mar;67-A(3):497-499.

905. **Nerve lesions after total hip replacement.** Ahlgren SA, Elmquist D and Ljung P. *Acta Orthop Scand* 1984 Apr;55(2):152-155.

906. **One-stage versus two-stage bilateral autophor ceramic total hip arthroplasty.** Shih CH and Ho WB. *Clin Orthop Relat Res* 1985 Mar;193:141-145.

907. **Pathologic ligamentous constraint of the hip.** Crowninshield RD, Johnston RC, Brand RA and Pedersen DR. *Clin Orthop Relat Res* 1983 Dec;181:291-297.

908. **A proposed design for an expanding hip nail.** Raftopoulos D and Baril JD. *Eng Med* 1982 Oct;11(4):187-188.

909. **Prosthetic hip range of motion and impingement: The effects of head and neck geometry.** Chandler DR, Glousman R, Hull D, McGuire PJ, Kim IS, Clarke IC and Sarmiento A. *Clin Orthop Relat Res* 1982 June;166:284-291.

910. **Prosthetic replacement in hip fractures: A comparison between the Moore and Christiansen endoprostheses.** Meyer S. *Clin Orthop Relat Res* 1981 Oct;160: 57-62.

911. **Radiographic analysis of a low-modulus titanium-alloy femoral total hip component: Two to six-year follow-up.** Sarmiento A and Gruen TA. *J Bone Joint Surg* 1985 Jan;67-A(1):48-56.

912. **Radiographic loosening after revision with gentamicin-containing cement for deep infection in total hip arthroplasties.** Carlsson AS, Egund N, Gentz CF, Hussenius A, Josefsson G and Lindberg L. *Clin Orthop Relat Res* 1985 Apr;194:271-279.

913. **Renal transplant infarction during total hip arthroplasty.** Zimmerman CE and Yett HS. *Orthop Clin Relat Res* 1982 May;165:195-196.

914. **Results of the administration of diphosphonate for the prevention of heterotopic ossification after total hip arthroplasty.** Thomas BJ and Amstutz HC. *J Bone Joint Surg* 1985 Mar;67-A(3):400-403.

915. **The results of early clinical trials with a microporous coated metal hip prosthesis.** Cameron HU. *Orthop Clin Relat Res* 1982 May;165:188-190.

916. **The results of reinsertion of a total hip prosthesis after sepsis.** Hunter GA. *J Bone Joint Surg* 1979 Nov;61-B(4):422-431.

917. **The results of revision of total hip arthoplasty.** Hunter GA, Welsh RP, Cameron HU and Bailey WH. *J Bone Joint Surg* 1979 Nov;61-B(4):419-421.

918. **Roentgenologic results of total hip arthroplasty: A ten-year follow-up study.** Johnston RC and Crowninshield RD. *Clin Orthop Relat Res* 1983 Dec;181:92-98.

919. **Seven-year follow-up of total hip replacement with the Brunswick prosthesis.** Lindberg HO and Carlsson AS. *Acta Orthop Scand* 1983 Dec;54(6):891-895.

920. **A simple method of obtaining equal leg length in total hip arthroplasty.** McGee HMJ and Scott JHS. *Clin Orthop Relat Res* 1985 Apr;194:269-270.

921. **Simulation: Problems relating to mechanical tests on hip joint replacements.** Gatti A. *Eng Med* 1980 Jan;9(1):17-22.

922. **The stress analysis of straight-stemmed femoral components for total hip replacement.** Weightman B and Brown I. *J Med Eng Technol* 1982 Jan-Feb;6(1):25-27.

923. **Stress changes in bone secondary to the use of a femoral canal plug with cemented hip replacement.** Skinner HB, Cook SD, Weinstein AM and Haddad RJ, Jr. *Clin Orthop Relat Res* 1982 June;166:277-283.

924. **Stress changes in the femoral head due to porous ingrowth surface replacement arthroplasty.** Carter DR and Vasu R. *J Biomech* 1984;17(10):737-747.

925. **A study of collared prostheses and proximal femoral dimensions.** Nichols PJ, Beard CA and Jarecky T. *Orthopedics* 1984 Jan;7(1):59-61.

926. **Subsidence of the femoral prosthesis in total hip replacement in relation to the design of the stem.** Loudon JR and Charnley J. *J Bone Joint Surg* 1980 Nov;62-B(4):450-453.

927. **Survivorship of total hip replacements.** Dobbs HS. *J Bone Joint Surg* 1980 May;62-B(2):168-173.

928. **A ten-year follow-up study of our first one hundred consecutive Charnley total hip replacements.** Salvati EA, Wilson PD, Jr, Jolley MN, Vakili F, Aglietti P and Brown GC. *J Bone Joint Surg* 1981 June;63-A(5):753-767.

Orthopedic Implants: Total Knee Implants

929. **Ten years of experience with test criteria for fracture-proof anchorage stems of artificial hip joints.** Semlitsch M and Panic B. *Eng Med* 1983 Oct;12(4):185-198.

930. **Three-dimensional stress analysis of the femoral stem of a total hip prosthesis.** Hampton SJ, Andriacchi TP and Galante JO. *J Biomech* 1980;13(5):443-448.

931. **351 total hip replacements according to Charnley: A review of complications and function.** Carlsson AS. *Acta Orthop Scand* 1981 June;52(3):339-344.

932. **Total hip arthroplasty using the McKee and Watson-Farrar prosthesis.** Tillberg B. *Acta Orthop Scand* 1982 Feb;53(1):103-107.

933. **Total hip arthroplasty with a low-modulus porous-coated femoral component: Progress report.** Tullos HS, McCaskill BL, Dickey R and Davidson J. *J Bone Joint Surg* 1984 July;66-A(6):888-898.

934. **Total hip replacement in congenital dislocation of the hip.** Fredin HO and Unander-Scharin LE. *Acta Orthop Scand* 1980 Oct;51(5):799-802.

935. **Total hip replacement: a ten-year follow-up of an early series.** Almby B and Hierton T. *Acta Orthop Scand* 1982 June;53(3):397-406.

936. **Total hip replacement with a straight stem prosthesis: A 2-year follow-up of 126 CAD operations.** Olsson SS, Jernberger A and Tryggo D. *Acta Orthop Scand* 1984 Apr;55(2):146-151.

937. **Treatment of pathological fractures of the hip by endoprosthetic replacement.** Lane JM, Sculco TP and Zolan S. *J Bone Joint Surg* 1980 Sep;62-A(6):954-959.

938. **Use of Austin-Moore prosthesis through anterolateral approach in intracapsular fracture of femoral neck.** Chhabra SL, Ershadi H and Khaweri FA. *Orthop Rev* 1980 June;9(6):77-79.

939. **The walking activity of patients with artificial hip joints.** Wallbridge N and Dowson D, *Eng Med* 1982 Apr;11(2):95-96.

940. **Walking efficiency before and after total hip replacement.** Brown M, Hislop HJ, Waters RL and Porell D. *Phys Ther* 1980 Oct;60(10):1259-1263.

941. **Alignment of total knee components.** Laskin RS. *Orthopedics* 1984 Jan;7(1):62-72.

942. **Analysis of material failures.** Wright TM, Hood RW and Burstein AH. *Orthop Clin N Am* 1982 Jan;13(1):33-44.

943. **Anametric total knee arthroplasty.** Ma SM and Finerman GAM. *Orthop Clin N Am* 1982 Jan;13(1):45-54.

944. **The anatomic total knee resurfacing arthroplasty.** Townley CO. *Clin Orthop Relat Res* 1985 Jan-Feb;192:82-6

945. **Arthrodesis in failed total knee replacements.** Stulberg SD. *Orthop Clin N Am* 1982 Jan;13(1):213-224.

946. **Cementless fixation of ICLH tibial component.** Freeman MAR, Blaha JD, Bradley GW and Insler HP. *Orthop Clin N Am* 1982 Jan;13(1):141-154.

947. **A comparative evaluation of tibial component designs of total knee prostheses.** Lewis JL, Askew MJ and Jaycox DP. *J Bone Joint Surg* 1982 Jan;64-A(1):129-135.

948. **Complications of variable axis total knee arthroplasty.** Weber DA and Murray DG. *Clin Orthop Relat Res* 1985 Mar;193:160-167.

949. **Control of cement penetration in total knee arthroplasty.** Walker PS, Soudry M, Ewald FC and McVickar H. *Clin Orthop Relat Res* 1984 May;185:155-164.

950. **The deformation and wear of plastic components in artificial knee joints: An experimental study.** Walker PS, Ben-Dov M, Askew MJ and Pugh J. *Eng Med* 1981 Jan;10(1):33-38.

951. **Duopatellar total knee replacement: The Brigham experience.** Scott RD. *Orthop Clin N Am* 1982 Jan;13(1):89-102.

952. **Early, design-related failure in total knee arthroplasty: A case report.** Cook SD, Barrack RL, Renz EA, Edmunds JO and Haddad RJ, Jr. *Orthopedics* 1984 Jan;7(1):79-82.

953. **Essay on total knee arthroplasty.** Landon GC, Galante JO and Casini J. *Clin Orthop Relat Res* 1985 Jan-Feb;192:69-74.

954. **Experiences with three distinct types of total knee joint arthroplasty.** Matthews LS, Goldstein SA and Kaufer H. *Clin Orthop Relat Res* 1985 Jan-Feb;192:97-107.

955. **Failure in total knee arthroplasty: Mechanisms, revisions and results.** Cameron HU and Hunter GA. *Clin Orthop Relat Res* 1982 Oct;170:141-146.

956. **Fatigue fracture of the femoral neck after total knee arthroplasty: A case report.** Henke JA, Herbertson FJ and Gibson MD. *Orthopedics* 1984 Jan;7(1):83-85.

957. **Femoral component loosening in total knee arthroplasty.** King TV and Scott RD. *Clin Orthop Relat Res* 1985 Apr;194:285-290.

958. **The fixation of femoral components of condylar knee prostheses.** Walker PS and Granholm J. *Eng Med* 1982 July;11(3):135-140.

959. **Fixation of tibial components of knee prostheses.** Walker PS, Greene D, Reilly D, Thatcher J, Ben-Dov M and Ewald FC. *J Bone Joint Surg* 1981 Feb;63-A(2):258-267.

960. **Fixation of the tibial components of the Oxford knee.** O'Connor J, Goodfellow J and Perry N. *Orthop Clin N Am* 1982 Jan;13(1):65-88.

961. **Freeman-Samuelson total arthroplasty of the knee.** Freeman MAR, Samuelson KM and Bertin KC. *Clin Orthop Relat Res* 1985 Jan-Feb;192:46-58.

962. **Hinged total knee prosthesis.** Hui FC and Fitzgerald RH, Jr. *J Bone Joint Surg* 1980 June;62-A(4):513-519.

963. **Infected total knee replacement: Diagnostic, therapeutic and prophylactic consideration.** Brause BD. *Orthop Clin N Am* 1982 Jan;13(1):245-250.

964. **An in vivo biomechanical evaluation of anterior-posterior motion of the knee: Roentgenographic measurement technique, stress machine, and stable population.** Torzilli PA, Greenberg RL and Insall J. *J Bone Joint Surg* 1981 July; 63-A(6):960-968.

965. **The kinematic rotating hinge: Biomechanics and clinical application.** Walker PS, Emerson R, Potter T, Scott R, Thomas WH and Turner RH. *Orthop Clin N Am* 1982 Jan;13(1):187-200.

966. **Kinematic total knee replacement.** Ewald FC, Jacobs MA, Miegel RE, Walker PS, Poss R and Sledge CB. *J Bone Joint Surg* 1984 Sep;66-A(7):1032-1040.

967. **Kinesiologic and biomechanical assessment of the Charnley "load angle inlay" knee prosthesis.** Minns RJ, Day JB and Hardinge K. *Eng Med* 1982 Jan;11(1):25-32.

968. **The Marmor knee replacement.** Marmor L. *Orthop Clin N Am* Jan;13(1):55-64.

969. **Mechanical strength of the tibial resection surface in total knee replacement.** Hvid I and Jensen J. *Eng Med* 1983 Oct;12(4):173-176.

970. **The patella in total knee arthroplasty.** Cameron HU and Fedorkow DM. *Clin Orthop Relat Res* 1982 May;165:197-199.

971. **The porous-coated anatomic total knee.** Hungerford DS, Kenna RV and Krackow KA. *Orthop Clin N Am* 1982 Jan;13(1):103-122.

972. **Posterior stabilized knee arthroplasty.** Scott WN and Schosheim P. *Orthop Clin N Am* 1982 Jan;13(1):131-140.

973. **Predictive range of motion after total knee replacement.** Ritter MA and Stringer EA. *Clin Orthop Relat Res* 1979 Sep;143:115-119.

974. **Principles of surgical technique in knee arthroplasty.** Scott WN and Tria AJ. *Orthop Clin N Am* 1982 Jan;13(1):17-32.

975. **Prospective analysis of Sheehan total knee arthroplasty.** Callihan SM and Halley DK. *Clin Orthop Relat Res* 1985 Jan-Feb;192:124-131.

976. **Radiologic evaluation of knee arthroplasty.** Schneider R, Hood RW and Ranawat CS. *Orthop Clin N Am* 1982 Jan;13(1):225-244.

977. **The radiopaque ruler as an alignment aid for knee arthroplasty.** Halloran WX. *Clin Orthop Relat Res* 1985 Apr;194:283-284.

978. **Results of knee replacement with the Walldius and geometric prostheses: A comparative study.** Wilson FC, Fajgenbaum DM and Venters GC. *J Bone Joint Surg* 1980 June;62-A(4):497-503.

979. **Results with the constrained total knee prosthesis in treating severely disabled patients and patients with failed total knee replacements.** Bargar WL, Cracchiolo A, III and Amstutz HC. *J Bone Joint Surg* 1980 June;62-A(4): 504-512.

980. **Revision after total knee arthroplasty.** Rand JA and Bryan RS. *Orthop Clin N Am* 1982 Jan;13(1):201-212.

981. **Seventy-four Attenborough knee replacements for rheumatoid arthritis: A clinical and radiographic study.** Boegard T, Brattstrom H and Lidgren L. *Acta Orthop Scand* 1984 Apr;55(2):166-171.

982. **The spherocentric knee: a perspective on seven years of clinical experience.** Matthews LS and Kaufer H. *Orthop Clin N Am* 1982 Jan;13(1): 173-186.

983. **Supracondylar fracture in a patient with total knee arthroplasty: A case report.** Ritter MA and Stiver P. *Clin Orthop Relat Res* 1985 Mar;193:168-170.

984. **Synthesis of a knee joint endoprosthesis as based on pure rolling.** Elad D, Seliktar R and Mendes D. *Eng Med* 1981 Apr;10(2):97-105.

985. **Total condylar knee arthroplasty: Prosthetic component positioning and radiolucent lines.** Hvid I and Nielsen S. *Acta Orthop Scand* 1984 Apr;55(2):160-165.

986. **Total condylar prosthesis.** Borden LS, Heyne T, Belhobek G, Marks KE, Stulberg BN and Wilde AH. *Orthop Clin N Am* 1982 Jan;13(1):123-130.

987. **Total condylar prosthesis placement in the knee arthroplasty: Biomechanic analysis of human knee preparations.** Moller JT, Boe S and Vang PS. *Acta Orthop Scand* 1983 Oct;54(5):708-713.

988. **Total knee arthroplasty.** Insall JN, Binazzi R, Soudry M and Mestriner LA. *Clin Orthop Relat Res* 1985 Jan-Feb;192:13-22.

989. **Total knee arthroplasty.** Murray DG. *Clin Orthop Relat Res* 1985 Jan-Feb;192:59-68.

990. **Total knee arthroplasty.** Riley LH, Jr. *Clin Orthop Relat Res* 1985 Jan-Feb;192:34-39.

991. **Total knee arthroplasty: Current state of the art.** Zenni EJ, Jr and Carothers TA. *Orthop Rev* 1980 Jan;9(1):51-60.

992. **Total knee arthroplasty following patellectomy.** Bayne O and Cameron HU. *Clin Orthop Relat Res* 1984 June;186:112-114.

993. **Total knee arthroplasty in 1984.** Waugh TR. *Clin Orthop Relat Res* 1985 Jan-Feb;192:40-45.

994. **Total knee arthroplasty in rheumatoid arthritis.** Sledge CB and Walker PS. *Clin Orthop Relat Res* 1984 Jan-Feb;182:127-136.

995. **Total knee replacement with a variable axis knee prosthesis.** Murray DG. *Orthop Clin N Am* 1982 Jan;13(1):155-172.

996. **Total joint arthroplasty of the knee.** Hungerford DS and Krackow KA. *Clin Orthop Relat Res* 1985 Jan-Feb;192:23-33.

997. **Transmission of the load in the knee joint with special reference to the role of the Menisci. Part I: Anatomy, analysis and apparatus.** Seedhom BB. *Eng Med* 1979 Oct;8(4):207-219.

998. **Transmission of the load in the knee joint with special reference to the role of the Menisci. Part II: Experimental results, discussion and conclusions.** Seedhom BB and Hargreaves DJ. *Eng Med* 1979 Oct;8(4):220-228.

999. **The treatment of choice in osteoarthritis of the knee.** Maquet P. *Clin Orthop Relat Res* 1985 Jan-Feb;192:108-112.

1000. **Unicompartmental and total knee arthroplasty.** Marmor L. *Clin Orthop Relat Res* 1985 Jan-Feb;192:75-81.

Prosthetics/Amputation: Orthopedic Surgery

1001. **Ambulatory dynamic patellar traction for patellar reconstruction.** Blair WF and Pontarelli WR. *Clin Orthop Relat Res* 1982 Sep;169:145-147.

1002. **Biomechanical assessment of patients treated by joint surgery.** Brown TRM, Paul JP, Kelly IG and Hamblen DL. *J Biomed Eng* 1981 Oct;3(4):297-304.

1003. **Clinical trends in orthopaedics.** Edited by Straub LR and Wilson PD, Jr. New York, NY: Thieme-Stratton, 1982, 338 pp.

1004. **A comparative study of patellectomy.** Hill JA and Compere CL. *Orthop Rev* 1981 Mar;10(3):41-45.

1005. **The development of orthopaedic technology in Sweden.** Holmgren K and Montan K. Sweden: Swenska Centralkommitten for Rehabilitering, Fach Box 303, S-161 26 Bromma 1, Sweden, 1981, 119 pp.

1006. **Disarticulation of the hip as a result of femoral osteotomy in severe Perthes' disease.** Fenelon GCC, Von Foerster G and Engelbrecht E. *J Bone Joint Surg* 1980 Nov;62-B(4):441-446.

1007. **Hand rehabilitation after great toe transfer for thumb reconstruction (Clinical note).** Robbins F and Reece T. *Arch Phys Med Rehabil* 1985 Feb;66(2):109-112.

1008. **Long-term results of the Chrisman-Snook operation for reconstruction of the lateral ligaments of the ankle.** Snook GA, Chrisman OD and Wilson TC. *J Bone Joint Surg* 1985 Jan;67-A(1):1-7.

1009. **Opposition of the thumb: An anatomic and biomechanical study of tendon transfers.** Cooney WP, Linscheid RL and An KN. *J Hand Surg* 1984 Nov;9A(6):777-786.

1010. **The present state of biomechanical research in orthopaedics in Japan--An observation by an orthopaedic surgeon.** Terayama K. *Eng Med* 1983 Oct;12(4):207-209.

1011. **Relationships between tibial rotary torque and knee flexion/extension after tendon transplant surgery.** Osternig LR, Bates BT, Tseng YL and James SL. *Arch Phys Med Rehabil* 1981 Aug;62(8):381-385.

Prosthetics/Amputation: Orthotics

1012. **Rotation-plasty for childhood osteosarcoma of the distal part of the femur.** Kotz R and Salzer M. *J Bone Joint Surg* 1982 Sep;64-A(7):959-969.

1013. **The technical aspects of the orthopaedic treatment of the knee after sports injuries.** Bahler A. *Clin Prosthet Orthot* 1984 Spr;8(2):4-7.

1014. **Accomplishments in modern orthotic patient management: Indications for the future.** Engen TJ. *Orthot Prosthet* 1979 Sep;33(3):3-9.

1015. **The advances in orthotics.** Edited by Murdoch G. Baltimore, MD: Williams and Wilkins, 1976, 602 pp.

1016. **Application of the bypass principle in orthotics.** Rubin G. *Orthop Rev* 1982 Feb;11(2):93-97.

1017. **Atlas of orthotics: biomechanical principles and application.** American Academy of Orthopaedic Surgeons. St. Louis, MO: CV Mosby, 1975, 507 pp.

1018. **A case history: protecting the head and face.** Gills GW and Fields G. *Orthot Prosthet* 1983;37(2):57-58.

1019. **Cerebral palsy: A complex brain disorder.** Showers DC. *Orthot Prosthet* 1984 Aut;38(3):60-62.

1020. **Checklist for the prescription of slings for the hemiplegic patient.** Smith RO and Okamoto GA. *Am J Occup Ther* 1981 Feb;35(2):91-95.

1021. **A clinical study of post polio infantile paralysis.** Rastogi S, Agarwal AK, Sipani AK, Varma S and Goel MK. *Prosthet Orthot Int* 1983;7(1):29-32.

1022. **The delivery of orthotic and prosthetic services in America--A physical therapist's view.** Shurr DG. *Orthot Prosthet* 1984 Spr;38(1):55-63.

1023. **The demand for orthotics and prosthetics technicians: Preliminary survey results.** Duggan MB. *Orthot Prosthet* 1983;37(3):74-77.

1024. **The diabetic patient: Orthotic considerations.** Van Hanswyk EP. *Orthot Prosthet* 1979 Sep;33(3):32-39.

1025. **Fabrication and fitting instructions: Trilateral perthes orthosis.** Fillauer C and Pritham CH. *Orthot Prosthet* 1983-84 Wint;37(4):24-33.

1026. **Magnetic splint for object retrieval (Brief or new).** Mildenberger LA. *Am J Occup Ther* 1984 Mar;38(3):195-197.

1027. **The nature of orthotics practice.** Fishman S, Edelstein JE and Michaelson L. *Prosthet Orthot Clin Newsl* 1980 Sum;4(2):1-2.

1028. **New plastic joints for plastic orthoses.** Watanabe H, Kutsuna T, Morinaga H and Okabe T. *Prosthet Orthot Int* 1982 Apr;6(1):21-23.

1029. **Orthopedic appliances: The principles and practice of brace construction for the use of orthopaedic surgeons and bracemakers.** New York: Oxford University Press, 1939, 412 pp.[2nd ed. Springfield, IL: Charles C Thomas, 1963, 201 pp.]

1030. **Orthopaedic braces: Rationale, classsification and prescription.** Bloomberg MH. Philadelphia, PA: JB Lippincott, 1964, 207 pp.

1031. **Orthotic devices for serratus anterior palsy: some biomechanical considerations.** Truong XT and Rippel DV. *Arch Phys Med Rehabil* 1979 Feb;60(2):66-70.

1032. **Orthotic devices using lightweight composite materials.** Harrison E, Jr. Final report (Contract NASI-15477) submitted by Mississippi Methodist Rehabilitation Center, Jackson, MI, to NASA. Hampton, VA: National Aeronautics and Space Administration (NASA), Langley Research Center, Jan 1983, 74 pp. NASA Contractor Report 166105.

1033. **Orthotics etcetera.** Edited by Licht S. New Haven, CT: E Litcht, 1966, 774p. [2nd ed, edited by Redford JB. Baltimore, MD: Williams and Wilkins, 1980, 776 pp.]

1034. **Orthotic maintenance program for the myodysplastic child.** Supan TJ. *Clin Prosthet Orthot* 1984 Fall;8(4):12-14.

1035. **Orthotic management of the late post polio patient.** Pritham C, Craik R and Cook TM. *Orthot Prosthet* 1979 Mar;33(1):50-59.

1036. **Orthotic philosophies of treatment (Editorial).** Motloch W. *Clin Prosthet Orthot* 1984 Fall;8(4):9-11.

1037. **Orthotics etcetera.** Edited by Redford JB. 2nd edition. Baltimore, MD: Williams and Wilkins, 1980, 776 pp.

1038. **Orthotists and prosthetists: Issues in a developing profession.** Schoenwald IS, Scott RK and Lance L. *Orthot Prosthet* 1983;37(3):78-79.

1039. **Problems of orthotic management of juvenile polio patients up to three years, in a developing country.** Welz R. *Orthop Technol* 1979 Jan;30(1):10-11. [German]

1040. **A reinforcing technique in orthotics and prosthetics (Technical Note).** Showers DC and David L. *Orthot Prosthet* 1982;36(2):108-112.

1041. **Report of a study tour to India concerning the equipment needs of leprosy patients.** Ring ND. *J Med Eng Technol* 1982 Jan-Feb;6(1):1-7.

1042. **Research and development of functional aids.** Blanken HJ, Fuss CF and Bakker H. *Prosthet Orthot Int* 1983;7(1):37-40.

1043. **Rochester parapodium (Technical note).** Kinnen E, Gram M, Jackman KV, Peale FV, Haake PW, Tindall GA and Brown JA. *Clin Prosthet Orthot* 1984 Fall;8(4):24-25.

1044. **Special purpose orthoses for children: A brief review.** New York Univeristy Medical Center, Prosthetics and Orthotics. *Inter-Clin Inf Bull* 1982 June;18(2):7-8,14-15.

1045. **Survey: current orthotic practices in occupational therapy.** Lohman M. *Orthot Prosthet* 1982;36(2):42-48.

1046. **The team fights the scourge of poliomyelitis.** Ajao SA and Oyemade GAA. *Prosthet Orthot Int* 1981 Aug;5(2):68-74.

1047. **TRIO.** Fillauer KD. *Orthot Prosthet* 1984 Wint;38(4):34-40.

Orthotics: Fracture Bracing

1048. **The value of orthoses for patients with Duchenne muscular dystrophy.** Ziter FA and Allsop KG. *Phys Ther* 1979 Nov;59(11):1361-1365.

1049. **Whangarei spina bifida orthosis.** Arthur M. *Orthot Prosthet* 1980 Sep;34(3):46-48.

1050. **A biomechanical study of cast-brace treatment of femoral shaft fractures.** Wardlaw D, McLauchlan J, Pratt DJ and Bowker P. *J Bone Joint Surg* 1981 Jan;63-A(1):7-11.

1051. **Cast-bracing for fractures of the femoral shaft.** Meggitt BF, Juett DA and Smith JD. *J Bone Joint Surg* 1981;63-B(1):12-23.

1052. **A comparative study of methods for treating fractures of the distal half of the femur.** Thomas TL and Meggitt BF. *J Bone Joint Surg* 1981;63-B(1):3-6.

1053. **Construction of orthoplast splints for humeral shaft fractures.** Bell CH, Jr. *Am J Occup Ther* 1979 Feb;33(2):114-117.

1054. **Diaphyseal fractures of the humerus treated with a ready-made fracture brace.** Balfour GW, Mooney V and Ashby ME. *J Bone Joint Surg* 1982 Jan;64-A(1):11-13.

1055. **Does simple traction and functional bracing affect the outcome of a fractured femur as compared with the Thomas' splint method?** Short J and Upadhyay SS. *Physiotherapy* 1984 Sep;70(9):350-354.

1056. **Evolution and current status of functional fracture bracing: Report of 2800 tibial, humeral, ulnar fractures.** Tarr RR, Hoy ALS, Racette WL and Sarmiento A. *Orthop Rev* 1984 Jan;13(1):2-22.

1057. **Fractures of the femoral shaft treated by external fixation with the Wagner device.** Dabezies EJ, D'Ambrosia R, Shoji H, Norris R and Murphy G. *J Bone Joint Surg* 1984 Mar;66-A(3):360-364.

1058. **Functional bracing of Colles' fractures: A prospective study of immobilization in supination versus pronation.** Sarmiento A, Zagorski JB and Sinclair WF. *Clin Orthop Relat Res* 1980 Jan-Feb;146:175-183.

1059. **Functional cast-bracing for Colles' fractures: a comparison between cast-bracing and conventional plaster casts.** Stewart HD, Innes AR and Burke FD. *J Bone Joint Surg* 1984 Nov;66-B(5):749-753.

1060. **Hip hinge thigh brace for early mobilization of proximal femoral shaft fractures.** Meggitt BF and Vaughan-Lane T. *Prosthet Orthot Int* 1980 Dec;4(3): 150-155.

1061. **A monitor for plotting pressure contours inside a plaster cast.** Pratt DJ, Bowker P, Wardlaw D and McLauchlan J. *Eng Med* 1980 July;9(3):147-149.

1062. **New casting material and improved functional design for lower femoral fracture bracing.** Vaughan-Lane T and Meggitt BF. *Prosthet Orthot Int* 1980 Dec;4(3):145-149.

1063. **Orthoses for functional treatment of ankle fractures. A preliminary report.** Ahlgren SA, Hultin J, Nilsson J and Westman L. *Prosthet Orthot Int* 1982 Apr;6(1):24-26.

1064. **Posterior splint for leg fractures in spinal cord injured patients (case report).** El Ghatit AZ, Lamid S and Flatley TJ. *Am J Phys Med* 1981 Oct;60(5):239-242.

1065. **Prefabricated functional braces for the treatment of fractures of the tibial diaphysis.** Sarmiento A, Sobol PA, Sew AL, Ross ADK, Racette WL and Tarr RR. *J Bone Joint Surg* 1984 Dec;66-A(9):1328-1339.

1066. **The recovery of quadriceps function in patients treated by cast-bracing.** Wardlaw D, Scott JM and McLauchlan J. *Injury* 1984;15(4):245-249.

1067. **A quantitative comparative analysis of fracture healing under the influence of compression plating versus closed weight-bearing treatment.** Sarmiento A, Mullis DL, Latta LL, Tarr RR and Alvarez R. *Clin Orthop Relat Res* 1980 June;149:232-239.

1068. **The rationale of functional bracing of fractures.** Latta LL, Sarmiento A and Tarr RR. *Clin Orthop Relat Res* 1980 Jan-Feb;146:28-36.

1069. **The of orthoses in the care of knee ligament injuries.** DeHaven KE. *Clin Prosthet Orthot* 1984 Spr;8(2):3-4.

1070. **A simplified orthosis for use with femoral fracture cast brace.** WaldmanDA, Schutte MJ and Mathews RE. *Orthop Rev* 1982 Mar;11(3):99-101.

1071. **A technique of femoral cast bracing.** Bish JM, Drever C and Hughes AW. *Br J Occup Ther* 1981 Sep;44(9):292-294.

1072. **An effective orthotic design for controlling the unstable subtalar joint.** Colson JM and Berglund G. *Orthot Prosthet* 1979 Mar;33(1):39-49.

1073. **Electrical splinting of the knee in paraplegia.** Brindley GS, Polkey CE and Rushton DN. *Paraplegia* 1979 Feb;16(4):428-435.

1074. **Double cylinder plastic orthosis in the treatment of Duchenne muscular dystrophy.** Siegel IM and Silverman O. *Phys Ther* 1981 Sep;61(9):1290-1291.

1075. **Femoral immobilizer.** Pritham CH and Stills ML. *Orthot Prosthet* 1979 Dec;33(4):39-45.

1076. **Follow-up experience with an orthosis combining the supracondylar knee orthosis and the spiral orthosis.** Martin TA. *Clin Prosthet Orthot* 1984 Sum;8(3):22.

1077. **Follow-up usage of the Scott-Craig orthosis in paraplegia.** O'Daniel WE and Hahn HR. *Paraplegia* 1981 Dec;19(6):373-378.

Orthotics: Lower Limb

1078. **IMA II brace for deambulatory treatment of Legg-Perthes disease (Technical note).** Nava LC. *J Biomed Eng* 1985 Jan;7(1):71-74.

1079. **Kinematic comparison of the BiCaal orthosis and the rigid polypropylene orthosis in stroke patients.** Smith AE, Quigley MJ and Waters R. *Orthot Prosthet* 1982;36(2):49-55.

1080. **Knee cylinder.** Pritham CH and Stills ML. *Orthot Prosthet* 1979 Dec;33(4):11-18.

1081. **Lower extremity bracing in paraplegia--A follow-up study.** Coghlan JK, Robinson CE, Newmarch B and Jackson G. *Paraplegia* 1980 Feb;18(1):25-32.

1082. **LSU lively orthosis.** Fillauer CE and Pritham CH. *Orthot Prosthet* 1984 Wint;38(4):24-33.

1083. **A new approach to the construction of lower limb orthoses.** Popovic D, Tomovic R and Gracanin F. *Orthop Tech* 1979 June;30(6):95-97. [German]

1084. **A new concept in the fabrication of double upright orthoses (Technical note).** Bremer KW, Jr. *Orthot Prosthet* 1984 Aut;38(3):69-75.

1085. **Orthoses and ambulation in hemiplegia: A ten-year retrospective study.** Ofir R and Sell H. *Arch Phys Med Rehabil* 1980 May;61(5):216-220.

1086. **Orthoses to fit shoes.** Platts RGS, Field A and Knight S. *Prosthet Orthot Int* 1979 Aug;3(2):89-90.

1087. **Orthotic control of ground reaction forces during running. A preliminary report.** Glancy J. *Orthot Prosthet* 1984 Aut;38(3):12-40.

1088. **Orthotic implications of lower limb growth.** Krebs DE. *Inter-Clin Inf Bull* 1982 Jan;18(1):1-10.

1089. **Orthotic management of the child with a meningomyelocele.** Bowen JR. *Inter-Clin Inf Bull* 1981 Feb;17(10):1-8.

1090. **Prolongation of ambulation in Duchenne muscular dystrophy by appropriate orthoses.** Hyde SA, Scott OM, Goddard CM and Dubowitz V. *Physiotherapy* 1982Apr;68(4):105-108.

1091. **Quadriceps femoris muscle assist orthosis in Duchenne muscular dystrophy.** Siegel IM, Silverman O and Silverman M. *Phys Ther* 1982 Sep;62(9):1296.

1092. **The reciprocal-gait orthosis: Its use in neurologically deficient patients.** McCall RE. *Inter-Clin Inf Bull* 1984 Spr;19(1):15.

1093. **Spinal cord lesions and lower extremity bracing: An overview and follow-up study.** Mikelberg R and Reid S. *Paraplegia* 1981 Dec;19(6):379-385.

1094. **Surgical footwear in rheumatoid arthritis: a patient acceptability study.** Park C and Craxford AD. *Prosthet Orthot Int* 1981 Apr;5(1):33-36.

1095. **Transducer for the measurement of lower limb orthotic loads.** Trappitt AE and Berme N. *Eng Med* 1981 July;10(3):149-153.

1096. **Use of the anterior floor reaction orthosis in patients with cerebral palsy.** Harrington ED, Lin RS and Gage JR. *Orthot Prosthet* 1983-84 Wint;37(4):34-42.

Orthotics: Lower Limb — Above-Knee

1097. **Biomechanical considerations in the orthotic management of the knee.** Frankel VH. *Clin Prosthet Orthot* 1984 Spr;8(2):1-3.

1098. **Clinical evaluation of a knee-ankle-foot-orthosis for hemiplegic patients.** Morinaka Y, Matsuo Y, Nojima M and Morinaka S. *Prosthet Orthot Int* 1982 Aug;6(2):111-115.

1099. **Clinical evaluation of spina bifida patients using hip guidance orthosis.** Rose GK, Stallard J and Sankarankutty M. *Dev Med Child Neurol* 1981;23:30-40.

1100. **A comparison of pistoning forces in orthotic knee joints.** Lew WD, Patrnchak CM, Lewis JL and Schmidt J. *Orthot Prosthet* 1982;36(2):85-95.

1101. **Conventional and plastic/metal KAFOs. Part I: Subject comparisons.** Edelstein J. *Inter-Clin Inf Bull* 1984 Spr;19(1):14.

1102. **Conventional and plastic/metal KAFOs. Part II: Objective comparisons.** Krebs DE. *Inter-Clin Inf Bull* 1984 Spr;19(1):14.

1103. **Conventional versus reciprocating braces: Effect on gait and spinal posture.** Morden ML and Herman E. *Inter-Clin Inf Bull* 1984 Aut;19(3):65.

1104. **The development of a molded pelvic girdle and the pelvic casting fixture.** Fillauer CE and Pritham CH. *Orthot Prosthet* 1984 Wint;38(4):49-53.

1105. **Division of synchondrosis to make a workable knee in a boy with TAR syndrome.** Watts H. *Inter-Clin Inf Bull* 1984 Spr;19(1):17.

1106. **The effect of a patella brace on performance in a knee extension strength test in patients with patellar pain.** Lysholm J, Nordin M, Ekstrand J and Gillquist J. *Am J Sports Med* 1984;12(2):110-112.

1107. **An evaluation of the CARS-UBC knee orthosis.** Reed B. *Orthot Prosthet* 1979 Mar;33(1):25-38.

1108. **The genucentric joint orthosis.** Peizer E, Lorenze EJ and Dixon M. *Med Instrum* 1982 Aug;16(4):207-208.

1109. **The genucentric knee orthosis--A new concept.** Foster R and Milani J. *Orthot Prosthet* 1979 June;33(2):31-44.

1110. **The helicoid knee brace: A lightweight but effective support for the damaged knee.** Helfet AJ, Manley MT and Vaughan CL. *Injury* 1983;15(3):189-192.

1111. **Hip-abduction, knee-extension orthosis.** Spector P and Davis J. *Am J Occup Ther* 1982 July;36(7):461-462.

1112. **Hip abduction splint for use at night for scissor leg of cerebral palsy patients.** Nakamura T and Ohamu M. *Orthot Prosthet* 1980 Dec;34(4):13-18.

1113. **Hip-rotation control straps.** Hoffman E. *Inter-Clin Inf Bull* 1983 Wint;18(5):1-4.

1114. **Knee orthoses: Biomechanics.** Pritham CH. *Prosthet Orthot Clin Newsl* 1981 Aut;5(4):5-7.

1115. **The Lerman multi-ligamentous knee control orthosis.** Lerman M, Schwartz J and Schwartz M. *Orthot Prosthet* 1982 Spr;36(1):63-66.

1116. **A method for determining the mechanical characteristics of orthotic knee joints.** Scothern RP and Johnson GR. *Prosthet Orthot Int* 1984 Apr; 8(1):16-20.

1117. **A new concept in orthotics joint design--The Northwestern University knee orthosis system.** Lewis JL, Lew WD, Patrnchak CM and Shybut GT. *Orthot Prosthet* 1983-84 Wint;37(4):15-23.

1118. **A new concept in orthotics--The Northwestern knee orthosis system. Part II: The complete orthosis.** Lewis JL, Lew WD, Stulberg SD, Patrnchak CM and Shybut GT. *Orthot Prosthet* 1984 Spr;38(1):13-28.

1119. **Parapodium design with knee and hip locks.** Brown JA, Gram M and Kinnen E. *Orthot Prosthet* 1980 June;34(2):14-20.

1120. **Simplified thigh brace for arthroscopy.** Sales C and Wiersma JA. *Am J Sports Med* 1981;9(2):121-122.

1121. **Sitting orthosis for patient with bilateral hip disarticulation.** Oryshkevich RS, Jhee WH, Wilcox R, Coleman D and Ayyappa E. *Arch Phys Med Rehabil* 1984 May;65(5):276-278.

1122. **The technique of reciprocal walking using the hip guidance orthosis (HGO) with crutches.** Butler PB, Major RE and Patrick JH. *Prosthet Orthot Int* 1984 Apr;8(1):33-38.

1123. **Use of gait simulation in the evaluation of a spring-loaded knee joint orthosis for Duchenne muscular dystrophy patients.** Allard P, Duchaime M, Thiry PS and Drouin G. *Med Biol Eng Comput* 1981 Mar;19(2):165-170.

1124. **The use of prophylactic knee orthosis at Iowa State University.** Randall F, Miller H and Shurr D. *Orthot Prosthet* 1983-84 Wint;37(4):54-57.

1125. **Variation abduction HKAFO for spina bifida children.** Jackman KV, Nitschke RO, Haake PW and Brown JA. *Orthot Prosthet* 1980 June;34(2):3-9.

Orthotics: Lower Limb — Below-Knee

1126. **The AFO and ankle control (Technical note).** Smith R. *Orthot Prosthet* 1979 Dec;33(4):46-48.

1127. **Ankle-foot orthoses--Metal vs plastic.** Shamp JAK. *Clin Prosthet Orthot* 1983 Wint;7(1):1-3.

1128. **Ankle-foot orthosis providing mediolateral stabilization while allowing free plantar and dorsiflexion of the foot.** *Prosthet Orthot Clin Newsl* 1980 Aut;4(3):3-5.

1129. **Application of the varus T-strap principle to the polypropylene ankle foot orthosis.** Lin RS. *Orthot Prosthet* 1982 Spr;36(1):67-70.

1130. **Arch support and shoe technology from the biomechanical view.** Ruepp R. *Orthop Tech* 1979 June;30(6):89-94. [German]

1131. **Below-knee orthosis: a wrap-around design for ankle-foot control.** Gans BM, Erickson G and Simons D. *Arch Phys Med Rehabil* 1979 Feb;60(2):78-81.

1132. **Biomechanics of ankle-foot orthoses: prescription and design.** Lehmann JF. *Arch Phys Med Rehabil* 1979 May;60(5):200-207.

1133. **Compression testing of foamed plastics and rubbers for use as orthotic shoe insoles.** Campbell G, Newell E and McLure M. *Prosthet Orthot Int* 1982 Apr;6(1):48-52.

1134. **Double-stopped ankle-foot orthosis in flaccid peroneal and tibial paralysis: Evaluation of function.** Lehmann JF, Ko MJ and DeLateur BJ. *Arch Phys Med Rehabil* 1980 Nov;61(11):536-541.

1135. **A dropfoot brace mechanism.** Milner JB. *Eng Med* 1982 Jan;11(1):51-52.

1136. **Five years practical experience with the foot rise splint after Eichler.** Rexing F. *Orthop Tech* 1979 Oct;30(10):160-161. [German]

1137. **Foot and shoe cover for foot fall pattern measurements.** Johns OT, Shiavi R, Griffin P, King P, Bass W, Sheelhouse W and Caylor J. *Med Biol Eng Comput* 1979 Jan;17(1):94-96.

1138. **Growth extensions and adjustments in children's polypropylene ankle-foot orthosis (Technical note).** DiMeglio PJ, Taylor M, Thomas C and Merchand J. *Orthot Prosthet* 1979 Dec;33(4):49-50.

1139. **An improved ankle-foot orthosis for correction of equinus.** Pinzur MS and Gavin T. *Orthopedics* 1984 Feb;7(2):263-264.

1140. **The influence of heel design on a rigid ankle-foot orthosis.** Wiest DR, Waters RL and Bontrager EL. *Orthot Prosthet* 1979 Dec;33(4):3-10.

1141. **Knee moments: origin in normal ambulation and their modification by double-stopped ankle-foot orthoses.** Lehmann JF, Ko MJ and DeLateur BJ. *Arch Phys Med Rehabil* 1982 Aug;63(8):345-351.

1142. **A multiple form plastic ankle foot orthosis: case study (Technical note).** Showers DC. *Orthot Prosthet* 1984 Spr;38(1):68-70.

1143. **The negative anatomically modified foot orthosis (NAMFO).** Marvin R and Brownrigg P. *Orthot Prosthet* 1983;37(3):24-31.

1144. **A new ankle-foot orthosis combining the advantages of metal and plastics.** Bensman AS and Lossing WW. *Orthot Prosthet* 1979 Mar;33(1):3-10.

1145. **A new ankle-foot orthosis with a moldable carbon composite insert.** Fillauer C. *Orthot Prosthet* 1981 Sep;35(3):13-16.

1146. **Plastic ankle-foot orthoses: Indications and functions.** Lehneis HR. *Prosthet Orthot Clin Newsl* 1980 Sum;4(2):3-5.

1147. **Rigid AKO--another choice (Technical note).** Doran RE. *Clin Prosthet Orthot* 1984 Fall;8(4):28.

1148. **Shoe inserts for small deformed feet.** Platts RGS, Knight S and Jakins I. *Prosthet Orthot Int* 1982 Aug;6(2):108-110.

1149. **Simple footgear corrections useful in office emergencies.** Jacobson MA. *Orthop Rev* 1979 Aug;8(8):63-68.

1150. **A subjective comparison of spenco and PPt soft tissue supplements used in footgear.** Albert S. *Orthot Prosthet* 1981 Sep;35(3):17-21.

1151. **Therapeutic footwear for the insensitive foot.** Hampton GH. *Phys Ther* 1979 Jan;59(1):23-30.

1152. **Total contact casting in diabetic patients with neuropathic foot ulcerations.** Helm PA, Walker SC and Pullium G. *Arch Phys Med Rehabil* 1984 Nov;65(11):691-693.

1153. **Varus-control molded ankle-foot orthosis.** Haberman LJ. *Inter-Clin Inf Bull* 1984 Aut;19(3):65.

Orthotics: Upper Limb

1154. **Functional bracing of the upper extremities.** Anderson MH. Edited by Sollar RE. Springfield, IL: Charles C Thomas, 1958, 463 pp.

1155. **Manual on management of the quadriplegic upper extremity: Using available modular splint and arm support systems.** Malick MH and Meyer CMH. Pittsburg, PA: Harmarville Rehabilitation Center, 1978, 201 pp.

1156. **Skiing orthoses for recurrent shoulder dislocation.** Metheny JA. *Am J Sports Med* 1984;12(1):82-83.

1157. **Splint modification for flexor tendon repairs.** Lopez MS and Hanley KF. *Am J Occup Ther* 1984 June;38(6):398-403.

1158. **Splinting in rheumatoid arthritis. Part I: Factors affecting patient compliance.** Nicholas JJ, Gruen H, Weiner G, Crawshaw C and Taylor F. *Arch Phys Med Rehabil* 1982 Feb;63(2):92-94.

1159. **Splinting in rheumatoid arthritis. Part II: evaluation of lightcast II fiberglass polymer splints.** Nicholas JJ, Gruen H, Weiner G, Crawshaw C and Taylor F. *Arch Phys Med Rehabil* 1982 Feb;63(2):95-96.

1160. **The Switzer splint.** Switzer S. *Br J Occup Ther* 1980 Feb;43(2):63-64.

1161. **A thermoplastic inhaler splint/aid.** Devlin KB. *Br J Occup Ther* 1985 Feb;48(2):49-51.

1162. **The tri-correctional upper limb orthosis (Technical note).** Benton WF. *Orthot Prosthet* 1980 Mar;34(1):41-42.

1163. **Upper extremities orthotics.** Anderson MH. Edited by Sollars RE. Springfield, IL: Charles C Thomas, 1965, 460 pp.

1164. **Wheelchair-based upper limb orthotics.** Stern PH, Vitarius G and Quint J. *Orthot Prosthet* 1982 Spr;36(1):41-45.

1165. **"Zero-position" functional shoulder orthosis for postoperative management of rotator cuff injuries.** Ozaki J and Kawamura I. *Orthot Prosthet* 1984 Aut;38(3):63-68.

Orthotics: Upper Limb — Above-Elbow

1166. **Dynamic elbow splint following tendon transfer to restore triceps function.** Kofkin J, Tobing M and Dellon AL. *Am J Occup Ther* 1980 Oct;34(10):680-681.

1167. **An extension orthosis for management of elbow flexion contractures.** Kozole KP and Yasukawa AM. *Orthot Prosthet* 1982 Spr;36(1):50-62.

1168. **A functional splint for C-5 tetraplegic arm.** Abrahams DL, Shrosbree RD and Key AG. *Paraplegia* 1979 July;17(2):198-203.

1169. **A method of rehabilitating the C-6 tetraplegic hand.** Meyer CMH. Shrosbree RD and Abrahams DL. *Paraplegia* 1979 July;17(2):170-175.

1170. **The mobile arm support.** Radulovic R, Piera JB, Cassagne B, Grossiord A and Boruchowitsch G. *Prosthet Orthot Int* 1980 Aug;4(2):101-105.

1171. **Modular adjustment mechanism for the balanced forearm orthosis.** Drew WE and Stern PH. *Arch Phys Med Rehabil* 1979 Feb;60(2):81-82.

1172. **Modular, prefabricated orthosis for treatment of elbow flexion contractures.** Reger SI, O'Reagen J, Boblitz MH and Rosenberger RW. *Orthot Prosthet* 1980 Dec;34(4):26-32.

1173. **Plaster splinting as a means of reducing elbow flexor spasticity: A case study.** King TI, II. *Am J Occup Ther* 1982 Oct;36(10):671-673.

1174. **The VAPC functional elbow orthosis.** LaBlanc KP and Mason CP. *Orthot Prosthet* 1980 Mar;34(1):13-24.

Orthotics: Upper Limb — Below-Elbow

1175. **Air pressure splint effects on hand symptoms of patients with rheumatoid arthritis.** McKnight PT and Schomburg FL. *Arch Phys Med Rehabil* 1982 Nov;63(11):560-564.

1176. **A case study of use of a terminal device to augment a paralyzed hand.** Katz JA and Perkins D. *Orthot Prosthet* 1983-84 Wint;37(4):49-53.

1177. **A comparison of dorsal and volar resting hand splints in the reduction of hypertonus.** McPherson JJ, Kreimeyer D, Aalderks M and Gallagher T. *Am J Occup Ther* 1982 Oct;36(10):664-670.

1178. **A comparison of vitrahene moulded with tweeklon ready-made wrist work splints in juvenile chronic arthritis.** Silver R, Lawton S and Ansell MM. *Int Rehabil Med* 1982;4(2):97-100.

1179. **"H"-shaped wrist-hand orthosis.** Solie GA. *Orthot Prosthet* 1979 Mar;33(1):22-24.

1180. **Low temperature hand splinting with thermoplastic materials.** Swan D. *Physiotherapy* 1984 Sep;70(9):341-345.

1181. **Orthoses for rheumatoid fingers.** Koch RD and Bird DA. *Orthot Prosthet* 1980 June;34(2):25-32.

1182. **The outrigger problem in hand splinting.** Moberg E. *Scand J Rehabil Med* 1983;(*Suppl* 9):136-138.

1183. **A survey of rationales for and against hand splinting in hemiplegia.** Neuhaus BE, Ascher ER, Coullon BA, Donohue MV, Einbond A, Glover JM, Goldberg SR and Takai VL. *Am J Occup Ther* 1981 Feb;35(2):83-90.

1184. **Technical and clinical function testing of hand orthoses in Sweden.** Dillner S and Georgiev G. *Int J Rehabil Res* 1979;2(1):47-60.

1185. **Wrist driven flexor hinge orthosis: Linkage design improvements.** Stenehjem J, Swenson J and Sprague C. *Arch Phys Med Rehabil* 1983 Nov;64(11):566-568.

Orthotics: Walking Aids

1186. **The adult Orlau swivel walker--ambulation for paraplegic and tetraplegic patients.** Farmer IR, Poiner R, Rose GK and Patrick JH. *Paraplegia* 1982 Aug;20(4):248-254.

1187. **Ambulation aids for the elderly.** Cress RH. *Med Instrum* 1982 May-June;16(3):169-170.

1188. **The cheyne walker.** Eve LC. *Physiotherapy* 1982 Mar;68(3):76.

1189. **Current uses of mobility aids.** Allison BJ. *Clin Orthop Relat Res* 1980 May;148:62-69.

1190. **The dynamics of walking using the hip guidance orthosis (HGO) with crutches.** Major RE, Stallard J and Rose GK. *Prosthet Orthot Int* 1981 Apr;5(1):19-22.

1191. **Guide-arm cane: A walking cane modification.** Schmerl EF, Stein M and Schultz P. *Arch Phys Med Rehabil* 1979 Feb;60(2):83-85.

1192. **Modified walker for patients on intravenous therapy: Suggestion from the field.** Ganz SB. *Phys Ther* 1984 Jan;64(1):48.

1193. **Modified walker for patients with polyartricular rheumatoid arthritis: Suggestion from the field.** Fillyaw M. *Phys Ther* 1984 Feb;64(2):205.

1194. **Paraplegic use of the Orlau swivel walker: Case report.** Seymour RJ, Knapp CF, Anderson TR and Kearney JT. *Arch Phys Med Rehabil* 1982 Oct;63(10):490-494.

1195. **Rocker shoe as walking aid in multiple sclerosis.** Perry J, Gronley JK and Lunsford T. *Arch Phys Med Rehabil* 1981 Feb;62(2):59-62.

1196. **The role of canes.** Sowell TT. *Inter-Clin Inf Bull* 1981 Feb;17(10):9-17.

1197. **Upright mobility system for spinal muscular atrophy patients.** Siegel IM and Silverman M. *Arch Phys Med Rehabil* 1984 July;65(7):418.

1198. **Use of the orlau swivel walker for the severely handicapped patient.** Butler PB, Farmer IR, Poiner R and Patrick JH. *Physiotherapy* 1982 Oct;68(10):324-326.

1199. **Walker modification.** Miller N. *Arch Phys Med Rehabil* 1980 Nov;61(11):547.

1200. **Walking appliances for paraplegics and tetraplegics.** Henshaw JT. *Paraplegia* 1979 July;17(2):163-168.

1201. **Walking frames--Variations on a theme.** Lubbock G and Robson P. *Physiotherapy* 1981 Feb;67(2):44-45.

Prosthetics/Amputation: Phantom Limb

1202. **Chronic phantom and stump pain among American veterans: Results of a survey.** Sherman RA, Sherman CJ and Parker I. *Pain* 1984;18(1):83-95.

1203. **Contralateral local anaesthesia in the treatment of phantom limb and stump pain.** Gross D. *Pain* 1982 July;13(3):313-320.

1204. **Current theories and treatments related to phantom limb pain.** Feldman RS. *Orthot Prosthet* 1981 Sep;35(3):26-30. (Also published in *Fragment* 1982 Spr;134:29-35)

1205. **A five year follow-up study of phantom limb pain in post-traumatic amputees.** Steinbach TV, et al. *Scand J Rehabil Med* 1982;14(4):203-207.

1206. **Nerve, neuroma, and pain problems related to upper limb amputations.** Omer GE, Jr. *Orthop Clin N Am* 1981 Oct;12(4):751-762.

1207. **Neuroma formation following digital amputations.** Fisher GT and Boswick JA, Jr. *J Trauma* 1983 Feb;23(2):136-142.

1208. **Painful neuromas in long below-elbow amputees.** Louis DS, Hunter LY and Keating TM. *Arch Surg* 1980 June;115(6):742-744.

1209. **Persistent phantom limb pain: Dramatic response to chlorpromazine.** Logan TP. *South Med J* 1983;76(12):1585.

1210. **Phantom limb pain: A referentation syndrome.** Howe JF. *Pain* 1983;15(1):101-107.

1211. **Phantom limb, phantom pain and stump pain in amputees during the first 6 months following limb amputation.** Jensen TS, Krebs B, Nielsen J and Rasmussen P. *Pain* 1983;17(3):243-256.

1212. **The phantom phenomenon: Its use and disuse.** Abramson AS and Feibel A. *Bull NY Acad Med* 1981 Mar;57(2):99-112.

1213. **Prevalence and characteristics of chronic phantom limb pain among American veterans: Results of a trial survey.** Sherman RA and Sherman CJ. *Am J Phys Med* 1983 Oct;62(5):227-238.

1214. **Published treatments of phantom limb pain.** Sherman RA. *Am J Phys Med* 1980 Oct;59(5):232-244.

1215. **Survey of current phantom limb pain treatment in the United States.** Sherman RA, Sherman CJ and Gall NG. *Pain* 1980;8:85-99.

1216. **Treatment of phantom limb pain with EMG and temperature biofeedback: A case study.** Tsushima WT. *Am J Clin Biofeedback* 1982 Fall-Wint;5(2):150-153.

Prosthetics/Amputation: Prosthetic/Orthotic Materials

1217. **Application of hybrid fibre-reinforced composites to loadbearing orthoses and prostheses.** Pell FR, Mulvany SF and Matthews F. *Plast Rubber: Mater Appl* 1980 Nov;p183-186.

1218. **The application of ionomer resins in definitive below-knee prostheses: A limited study.** McCellan BP, Kapp S and Stills M. *Clin Prosthet Orthot* 1984 Sum;8(3):18-21.

1219. **The application of nickelplast in fabricating a PTB insert (Technical note).** Kays G and Scott G. *Orthot Prosthet* 1984 Spr;38(1):71-72,

1220. **Carbon fibre-reinforced plastic applied to prosthetics and orthotics.** Nelham RL. *J Biomed Eng* 1981 Oct;3(4):305-314.

1221. **Clinical application of RTV elastomers.** Wilson MT. *Orthot Prosthet* 1979 Dec;33(4):23-29.

1222. **Clinical evaluation of an acrylic latex material used as a prosthetic skin on limb prostheses.** Fillauer C and Quigley MJ. *Orthot Prosthet* 1979 Dec;33(4):30-38.

1223. **A comparative study of the properties of bandage-form splinting materials.** Gill JM and Bowker P. *Eng Med* 1982 July;11(3):125-134.

1224. **Compressing behavior after simulated service conditions of some foamed materials intended as orthotic shoe insoles (Technical note).** Campbell GJ, McLure M and Newell EN. *J Rehabil Res Dev* 1984 July;21(2):57-65.

1225. **Compression testing of foamed plastics and rubbers for use as orthotic shoe insoles.** Campbell G, Newell E and McLure M. *Prosthet Orthot Int* 1982 Apr;6(1):48-62.

1226. **Construction methods and materials for external prostheses--Present and future.** Foort J, Lawrence RB and Davies RM. *Int Rehabil Med* 1984;6(2):72-78.

1227. **Design of an artificial skin. Part I: Basic design principles.** Yannas IV and Burke JF. *J Biomed Mater Res* 1980 Jan;14(1):65-81.

1228. **Design of an artificial skin. Part II: Control of chemical composition.** Yannas IV, Burke JF, Gordon PL, Huang C and Rubenstein RH. *J Biomed Mater Res* 1980 Mar;14(2):107-132.

1229. **Design of an artificial skin. Part III: Control of pore structure.** Dagalakis N, Flink J, Stasikelis P, Burke JF and Yannas IV. *J Biomed Mater Res* 1980 July;14(4):511-528.

1230. **Gelatin-based sprayable foam as a skin substitute.** Neumann PM, Zur B and Ehrenreich Y. *J Biomed Mater Res* 1981 Jan;15(1):9-18.

1231. **Ice-water quenching technique for polypropylene.** Stupp SI, Supan TJ and Belton D. *Orthot Prosthet* 1979 Mar;33(1):16-22.

1232. **Material properties of velcro fastenings.** Bader DL and Pearcy MJ. *Prosthet Orthot Int* 1982 Aug;6(2):93-96.

1233. **A new material in orthotics and prosthetics.** Stills M and Wilson AB, Jr. *Orthot Prosthet* 1980 Sep;34(3):29-37.

Prosthetics/Amputation: Prosthetics

1234. **Orthosil silicone gel for pads and soft insert liners (Technical note).** Black LK. *Orthot Prosthet* 1983-84 Wint;37(4):58-62.

1235. **Orthotic application of plastic materials.** Simpson D and Greig R. *Physiotherapy* 1984 Sep;70(9):332-340.

1236. **Physical properties of cross-linked polyethylene foam (plastazote) under clinical conditions.** Minns RJ and Craxford AD. *J Biomech* 1984;17(10): 709-712.

1237. **Plastics in lower limb orthotics.** Carlow WA. *Orthot Prosthet* 1978 Mar;32(1):25-32.

1238. **Prosthetic applications of methylmethacrylate acrylic plastic.** Hornbeaks, Boryk R and Staats T. *Orthot Prosthet* 1981 Dec;35(4):49-53.

1239. **Rigid polyurethane foam casts for the fixation of human limbs (Technical note).** Weiss PL, Hunter IW and Kearney RE. *Med Biol Eng Comput* 1984 Nov;22(6):603-604.

1240. **RTV silicone insoles (Technical note).** Pratt DJ, Rees PH and Butterworth RH. *Prosthet Orthot Int* 1984 Apr;8(1):54-55.

1241. **The selectively placed silicone-gel liner system for PTB prosthesis.** Graves JM. *Orthot Prosthet* 1980 June;34(2):21-24.

1242. **Sheet plastics and their applications in orthotics and prosthetics.** Showers DC and Strunck ML. *Orthot Prosthet* 1984 Wint;38(4):41-48.

1243. **A subjective comparison of Spenco R and PPT TM soft tissue supplements used in footgear.** Albert S. *Orthot Prosthet* 1981 Sep;35(3):17-21.

1244. **Thermoplastics for prosthetic applications.** Lawrence RB and Davies RM. *J Biomed Eng* 1981 Oct;3(4):289-293.

1245. **The USMC prosthetic skin (Technical note).** Lundt JE and Staats TB. *Orthot Prosthet* 1983;37(20):59-61.

1246. **Wear-screening and joint simulation studies vs. materials selection and prosthesis design.** Clarke IC. *CRC Crit Rev Biomed* Eng 1982;8(1):29-91.

1247. **Additions to the vertical fabrication jig.** Pritham CH. *Orthot Prosthet* 1981 Mar;35(1):29-33.

1248. **Amputations and prostheses.** Vitali M, Robinson KP, Andrews BG and Harris EE. London, UK: Bailliere Tindall, Cassell and Co, 1978, 241p. (Available from Macmillan Co, 866 Third Ave, New York, NY 10022, USA).

1249. **Artificial limbs--A bibliography with abstracts, search period covered 1968-June 1980.** Springfield, VA: US Dept Commerce, National Technical Information Service, 1980, 146 pp.

1250. **Atlas of limb prosthetics: Surgical and prosthetic principles.** American Academy of Orthopaedic Surgeons. St Louis, MO: CV Mosby, 1981, 668 pp.

1251. **Avoidable amputation problems and responsibility of surgeons.** Rubin G, Dixon M and Fischer E. *Orthop Rev* 1985 Jan;14(1):38-44.

1252. **The connection.** Wilson AB, Jr. *Orthot Prosthet* 1980 Dec;34(4):19-25.

1253. **Consumer concerns in prosthetics.** Chadderton HC. *Prosthet Orthot Int* 1983;7(1):15-16.

1254. **Control aspects of prosthetics and orthotics. Proceedings of the IFAC Symposium, Ohio, USA, May 7-9, 1982.** Edited by Campbell RM. New York, NY: Pergamon Press, 1983, 187 pp.

1255. **Cybernetic limb prosthesis: The ALZA distinguished lecture.** Mann RW. *Ann Biomed Eng* 1981;9(1):1-43.

1256. **The establishment of prosthetic services in African countries.** Heim S. *Prosthet Orthot Int* 1979 Dec;3(3):152-154.

1257. **Eye for eye, tooth for tooth: A materialistic overview of contemporary prostheses.** Williams DF. *J Med Eng Technol* 1982 Jan-Feb;6(1):12-18.

1258. **Faster fitting for artificial limbs.** Lawrence RB. *Spectrum* 1979;166:7-8.

1259. **For accelerated postamputation rehabilitation: Zoroc intermediate prostheses.** Leal JM, Malone JM, Moore WS and Malone SJ. *Orthot Prosthet* 1980 Mar;34(1):3-12.

1260. **From research lab to consumer: The manufacturers' point of view.** Fillauer C and Pritham CH. *Clin Prosthet Orthot* 1984 Wint;8(1):4-5.

1261. **Indigenous substitutes for modern prostheses and orthoses.** Oshin TA. *Prosthet Orthot Int* 1981 Dec;5(3):144-146.

1262. **Influence of government funding on prosthetics research and development.** Murphy EF. *Clin Prosthet Orthot* 1982 Spr;6(2):1-3.

1263. **Information brochure: Orthotics and prosthetics.** Alexandria, VA: American Academy of Orthotists and Prosthetists, 1981, 11 pp.

1264. **Irreversible contractures: An impediment to prosthetic rehabilitation.** *Prosthet Orthot Clin Newsl* 1980 Aut;4(3):1-2.

1265. **Multifunctional artificial limbs (1976-June 1982): Citations from the INSPEC Data Base.** Springfield, VA: US Dept of Commerce, National Technical Information Service, June 1982, 146 pp.

1266. **Multifunctional artificial limbs (1976-June 1983): Citations from the INSPEC Data Base.** Springfield, VA: US Dept of Commerce, National Technical Information Service, June 1983, 159 pp.

1267. **The pace of prosthetics development relative to general technical progress: Faster than a sabre jet.** Cleland M. *Bull Prosthet Res* 1980 Spr;17(1, BPR 10-33):1-2.

1268. **Problems of prosthetic management in leprosy patients.** Neff G, Heim S and Welz R. Orthop Tech 1979 Apr;30(4):45-49.

1269. **Professionalism: A review of its impact on the health services.** Rhodes RL. *Orthot Prosthet* 1984 Wint;38(4):69-74.

1270. **Prosthetic and physical therapy management of a patient with sacral agenesis.** Morawa LG. *Inter-Clin Inf Bull* 1984 Wint;19(4):74-75.

1271. **Prosthetic development: A case study.** Kruger LM and Ekus L. *Inter-Clin Inf Bull* 1984 Aut;19(3):63.

1272. **Prosthetic devices (June 1972-Jan 1985): Citations from the NTIS Data Base.** Springfield, VA: US Dept of Commerce, National Technical Information Service, Jan 1985, 263 pp.

1273. **Prosthetic implications with the diabetic patient.** Lange LR. *Orthot Prosthet* 1982;36(2):96-102.

1274. **Prosthetic joints for the elderly.** Ehrlich GE. *Med Instrum* 1982 Mar-Apr;16(2):95-96.

1275. **Prosthetic-orthotic research--A new thrust is needed: A clinician's perspective.** Epps CH, Jr. *Clin Prosthet Orthot* 1984 Wint;8(1):3-4.

1276. **Prosthetic rehabilitation, comparison of patients with cancer and vascular amputation of the extremities.** Subbarao JV and McPhee MC. *Orthop Rev* 1982 Apr;11(4):43-51.

1277. **Prosthetic use: Correlation of clinic team and ergonomic laboratory in predicting its success.** March H, Cummings V and Steve L. *Arch Phys Med Rehabil* 1984 Dec;65(12):775-777.

1278. **Prosthetics and orthotics in Asian countries, proceedings of the Forum C: Asian conference on prosthetics and orthotics '81, Tokyo, Japan, Oct 15-17, 1981.** Edited by Kakurai S and Sawamura S. Tokyo, Japan: Japanese Society of Prosthetic and Orthotic Education, Research and Development, 1982, 113 pp.

1279. **Prosthetics and orthotics in developing countries.** Sankaran B. *Int Rehabil Med* 1984;6(2):85-101.

1280. **Prosthetics and orthotics in Japan.** Edited by Kakurai S. Tokyo, Japan: Japanese Society of Prosthetic and Orthotic Education, Research and Development c/o Tokyo Metropolitan Prosthetic and Orthotic Research Institute, 3-17-3 Toyama, Shinjuku-Ku, Tokyo, Japan, 1981, 43 pp.

1281. **Prosthetics and orthotics in Latin America.** Jensen E. *Prosth Orthot Int* 1979 Dec;3(3):155-156.

1282. **Prosthetics and orthotics program for United States territories in the Pacific basin.** Steele JC. *Int J Rehabil Res* 1983 Sep;6(3):363-364.

1283. **Prosthetics, orthotics and bionics.** Engineering Information Technical Bulletin. New York, NY: Engineering Information, 1984, 258 pp.

1284. **A rapid-fit limb using alternative technology in India.** Ring ND and Sethi PK. *J Biomed Eng* 1981 Oct;3(4):318-319.

1285. **A rationale for treatment of complete brachial plexus palsy.** Shurr DG and Blair WF. *Orthot Prosthet* 1984 Aut;38(3):55-59.

1286. **Recent advances in research in prosthetics for children.** Shaperman J and Sumida CT. *Clin Orthop Relat Res* 1980 May;148:26-33.

Prosthetics: History

1287. **Reciprocate...goodwill for prosthetics too!** Ekus L. *Inter-Clin Inf Bull* 1984 Aut;19(3):64.

1288. **A reciprocation prosthesis for a patient with sacral agenesis.** Ekus L, Kruger LM and Ferguson N. *Inter-Clin Inf Bull* 1984 Wint;19(4):76-79.

1289. **Rehab seminar Tokyo, proceedings, Oct 15-17, 1981.** Tokyo, Japan: Japanese Society for Rehabilitation of the Disabled, 1982, 125 pp.

1290. **Rehabilitation and technical aids research in Japan.** Report from a study visit tour, Sep 11-29, 1978. Lindstrom JI and Lundman M. Bromma, Sweden: Handikappinstitutet, 1980, 31 pp.

1291. **Rehabilitation engineering and the growth of prosthetics/orthotics practice.** Staros A. *Int Rehabil Med* 1984;6(2):79-84.

1292. **Rehabilitation engineering and prosthetics/orthotics.** Staros A. *Prosthet Orthot Clin Newsl* 1981 Aut;5(4):1-3.

1293. **Retrospective study of 14,400 civilian disabled (new) treated over 25 years at an artificial limb centre.** Narang IC and Jape VS. *Prosthet Orthot Int* 1982 Apr;6(1):10-16.

1294. **The ROL (Rochester Orthopedic Laboratories) rotator.** Tindall GA and Nitschke RO. *Orthot Prosthet* 1979 Mar;33(1):11-15.

1295. **Selected reading: a review of orthotics and prosthetics.** Mastro BA and Mastro RT. Alexandria, VA: The American Orthotic and Prothetic Association, 1980, 406 pp.

1296. **Some thoughts on nomemclature of limb prosthetics.** Pritham CH. *Orthot Prosthet* 1981 June;35(2):29-32.

1297. **Standardization of prosthetics and orthotics in Japan.** Edited by Kakurai S. Tokyo, Japan: Japanese Association of Rehabilitation Medicine,1984, 123p.

1298. **The stump and the prosthesis.** Day HJB. *Ann R Coll Surg Engl* 1980;62(2):91-94.

1299. **Syntactic end seal technique.** Staats TB. *Orthot Prosthet* 1983;37(3):32-37.

1300. **Therapeutic medical devices: Application and design.** Edited by Cook AM and Webster JG. Englewood, NJ: Prentice-Hall, 1982, 588 pp.

1301. **Use of electrical stimulation in prosthetics for the control of pain.** Hittenberger DA. *Orthot Prosthet* 1982;36(2):35-41.

1302. **Amputation prosthesis.** Thomas A and Hadden CC. Philadelphia, PA: JB Lippincott, 1945, 305 pp.

1303. **Amputations.** Gillis L. New York, NY: Grune and Stratton, 1954, 423 pp.

1304. **Amputations and artificial limbs.** Langdale-Kelham RD and Perkins G. Edited by Lord Horder. London: Oxford University Press, 1944, 96 pp.

1305. **Amputees and their prostheses.** Mital MA and Pierce DS. Boston, MA: Little and Brown, Co. 1971, 214 pp.

1306. **Artificial legs: for use after amputations and congenital deficiencies.** Ernest FG. London: ET Heron, 1923, 68 pp.

1307. **Artificial legs must be well fitted.** Daly L. *Handicap* 1947 July;1(1):19-22.

1308. **Artificial limbs.** Broca A and Ducroquet C. London: University of London Press, 1918, 160 pp.

1309. **Artificial limbs.** Gillis L. London: Pitman Medical Publishing, 1957, 449 pp.

1310. **Artificial limbs and amputation stumps: A practical handbook.** Little DM. London: HK Lewis, 1922, 319 pp.

1311. **Artificial limbs: appliances for the disabled.** Martin F. Geneva: G Thone, 1924, 298 pp.

1312. **Artificial limbs: Invented and manufactured by DW Kolbe.** Kolbe DW. **Apparatus for Deformities of the Lower Extremities.** DW Kolbe and Son Catalogue, 6th ed, sect vol 11-C, 1879, 46-52, 60-62.

1313. **Back to activity.** Desoutter ER. London: Desoutter Brothers, 1938, 76 pp.

1314. **Clinical prosthetics for physicians and therapists; A handbook of clinical practices related to artificial limbs.** Anderson MH, Bechtol CO and Sollars RE. Springfield, IL: Charles C Thomas, 1959, 393 pp.

1315. **Historic artificial limbs.** Putti V. New York, NY: PB Hoeber, 1930, 63 pp.

1316. **Historic artificial limbs, Part I.** Putti V. *Am J Surg* 1929 Jan;6(1):111-119.

1317. **Historic artificial limbs, Part II.** Putti V. *Am J Surg* 1929 Feb;6(2):246-253.

1318. **Historic developments of upper extremity prosthetics.** Wellerson TL. *Orthop Prosthet Appliances* J 1957 Sep;11:73-77.

1319. **The history and development of artificial limbs.** Orr JF, James WV and Bahrani AS. *Eng Med* 1982 Oct;11(4):155-161.

1320. **The history of artificial limbs.** MacDonald J, Jr. *Am J Surg* 1905 Oct;76-80.

1321. **Human limbs and their substitutes.** Klopsteg PE, Wilson PD, et al. New York, NY: Hafner, 1968, 869p. ["Facsmile reprint of the 1954 edition with a New Bibliography." New York, NY: McGraw-Hill, lst print, 1954, 844 pp.]

1322. **Limb prosthetics: In the interest of rehabilitation of the amputee.** New York, NY: JE Hanger, 1968, 2nd ed, 39 pp.

1323. **Limb prosthetics--1972.** Wilson AB, Jr. Huntington, NY: Robert E Krieger, 1972, 60p. [Rev 5th ed, 1976, 95 pp.]

Prosthetics: Lower Limb

1324. **Limbs for the limbless: A handbook on artificial limbs for layman and surgeons.** Faries JC. New York, NY: Institute of the Crippled and Disabled, 1934, 104 pp.

1325. **Manual of artificial limbs.** Marks GE. New York, NY: AA Marks, 1926, 539 pp.

1326. **Notes on artificial limbs for sailors and soldiers.** Little EM. *Am J Orthop Surg* 1917;15:596-602.

1327. **On Marks' artificial limbs.** J Franklin Inst 1889 May;CXXVII(5):329-336.

1328. **Orthopaedic appliances atlas. Vol I: Braces, splints, shoe alterations.** American Academy of Orthopaedic Surgeons. Ann Arbor, MI: JW Edwards, 1952, 588 pp. Replaced by Atlas of Orthotics: Biomechanical principles and application.

1329. **Orthopaedic appliances atlas. Vol II: Artificial limbs.** American Academy of Orthopaedic Surgeons. Ann Arbor, MI: JW Edwards, 1960, 499p. Replaced by Atlas of Limb Prosthetics: Surgical and prosthetic principles.

1330. **Principles of design and construction of artificial legs.** Wilson P. New York, NY: The Red Cross Institute for Crippled and Disabled Men, 1918, 58 pp.

1331. **Prosthetic principles--above-knee amputations.** Anderson MH, Bray JJ and Hennessy CA. Edited by Sollars RE. Springfield, IL: Charles C Thomas, 1960, 331 pp.

1332. **Selected articles from artificial limbs, Jan 1954-Spring 1966.** Huntington, NY: Robert E Krieger, 1970, 394 pp.

1333. **Symposium on amputations, Naval Amputation Center.** *US Naval Med Bull* 1945 June;44(6):1125-1212.

1334. **Upper and lower extremity prostheses.** Tosberg WA. Springfield, IL: Charles C Thomas, 1962, 98 pp.

1335. **Afferent sensory feedback for lower extremity prosthesis.** Clippinger FW, Seaber AV, McElhaney JH, Harrelson JM and Maxwell GM. *Clin Orthop Relat Res* 1982 Sep;169:202-206.

1336. **Auditory feedback of knee angle for amputees (Technical note).** Gilbert JA, Maxwell GM, George RT, Jr and McElhaney JH. *Prosthet Orthot Int* 1982 Aug;6(2):103-104.

1337. **Early fitting of leg amputees with wound healing disturbances.** Muller SK and Bauer F. *Orthop Tech* 1979 Feb;30(2):20-21.

1338. **Endoskeletal prostheses; cause for reflection.** Pritham CH. *Prosthet Orthot Clin Newsl* 1982 Wint;6(1):1-3.

1339. **Feedback signal based upon force and time delay: Modification of the Krusen limb load monitor.** Wolf SL and Hudson JE. *Phys Ther* 1980 Oct;60(10):1289-1290.

1340. **Fitting of an artificial limb after 43 years--Case note.** Siriwardena GJA. *Prosthet Orthot Int* 1980 Aug;4(2):90.

1341. **Hexcelite temporary prostheses for lower limb amputees.** Callen S. *Physiotherapy* 1981 May;67(5):138-139.

1342. **An improved modality in lower extremity amputee rehabilitation.** Kerstein MD. *Orthopedics* 1985 Feb;8(2):207-209.

1343. **Lightweight prostheses.** Wilson AB, Jr. *Prosthet Orthot Int* 1979 Dec;3(3):150-151.

1344. **Limb load monitor: Evaluation of a sensory feedback device for controlled weight bearing.** Gapsis JJ, Grabois M, Borrell RM, Menken SA and Kelly M. *Arch Phys Med Rehabil* 1982 Jan;63(1):38-41.

1345. **Management and construction procedure of bilateral split-bucket type hip disarticulation prosthesis.** Ockenfels PA. *Prosthet Orthot Clin Newsl* 1982 Wint;6(1):4-8.

1346. **A microprocessor-based ultrasonic limb movement monitoring system.** Brown AWS. *J Biomed Eng* 1981 Oct;3(4):275-280.

1347. **A miniature swashplate water pump for powered prostheses.** McIntyre AW, Needham GA and McLeish RD. *Eng Med* 1980 Jan;9(1):23-28.

1348. **A new design and construction for a swimming prosthesis.** Marano C and DeMarco E. *Orthot Prosthet* 1984 Spr;38(1):45-49.

1349. **Our experiences with axial torque rotation devices.** Goralnik B. *Orthop Tech* 1979 Apr;30(4):54-56. [German]

1350. **Prosthetic management for children with knee disarticulations.** Jendrzejczyk DJ. *Inter-Clin Inf Bull* 1980 Mar;17(7):9-16.

1351. **Prosthetic management of adult hemicorporectomy and bilateral hip disarticulation amputees.** Dankmeyer CH, Jr and Doshi R. *Orthot Prosthet* 1981 Dec;35 (4):11-18.

1352. **Prosthetic management of knee disarticulation in geriatrics.** Knoche W. *Orthop Tech* 1979 Dec;30(12):192-194. [German]

1353. **Prosthetic sensory feedback lower extremity.** Clippinger FW, McElhaney JH, Maxwell MG, Vaughn DW, Horton G and Bright L. *Prosthet Orthot Clin Newsl* 1981 Sum;5(3):1-3.

1354. **Prosthetics management of the cancer patient with high level amputation.** Lehneis HR, Ekus L, Fields G, Freidenbergs I, Frisina W, Reeve JA, Rendsburg S and Weiner S. *Orthot Prosthet* 1981 June;35(2):10-28.

1355. **Selection of components for lower limb amputation prostheses.** Rubin G and Fischer E. *Bull Hosp Joint Dis Orthop Inst* 1982;XLII(1):39-67.

1356. **Some aspects for the prosthetic management of lower extremity amputees using the Regnell-Hydralik.** Thiede HG. *Orthop Tech* 1979 Feb;30(2):24-25.

1357. **Some evidence of squeeze-film lubrication in hip prostheses.** Gore TA, Higginson GR and Kornberg RE. *Eng Med* 1981 Apr;10(2):89-95.

1358. **Standards for lower limb prostheses.** Wilson AB, Jr. *Prosthet Orthot Int* 1979 Apr;3(1):44-45.

1359. **The swimming prosthesis.** Pierce JN, Walker SW and Matthews JG. *Inter-Clin Inf Bull* 1978 Mar-Apr;17(2):1-4.

1360. **Tilting stubbies (Technical note).** Balakrishnan A. *Prosthet Orthot Int* 1981 Aug;5(2):85-86.

1361. **A thermoplastic endoskeletal prosthesis.** Hittenberger DA. *Orthot Prosthet* 1983;37(2):45-52.

1362. **The torque rotation unit in artificial legs from the view of the technician and the amputee.** Schmidl H. *Orthop Tech* 1979 Mar;30(3):35-38. [German]

1363. **Two prostheses for knee disarticulation.** Ziegler JW. *Orthop Tech* 1980 Mar;31(3):40-42. [German]

1364. **Valgus lower limb deformity in the juvenile amputee.** Kiburz D and Jacobs R. *Inter-Clin Inf Bull* 1984 Aut;19(3):64.

1365. **Water safe prosthetics (Technical note).** Koester EE. *Orthot Prosthet* 1983-84 Wint;37(4):63-66.

1366. **What are the advantages of using torque units in leg prostheses?** Knoche W. *Orthop Tech* 1979 Jan;30(1):12-13. [German]

Prosthetics: Lower Limb — Above-Knee

1367. **Above-knee prosthetic alignment.** Taylor JS. *Prosthet Orthot Int* 1979 Aug;30(2):82-84.

1368. **An active bilateral above-knee amputee: A case report.** Goralnik B and Scheinhaus A. *Orthot Prosthet* 1980 Dec;34(4):33-36.

1369. **Adaptive, adjustable device for providing wide range of initial flexion for above-knee prosthesis.** Surdyk F. *Am Correct Ther J* 1980 Mar-Apr;34(2):57.

1370. **Alignment of the above-knee prosthesis.** Foort J. *Prosthet Orthot Int* 1979 Dec;3(3):137-139.

1371. **Ankle-knee synchronous knee lock mechanism: A revision.** Lee W. *Arch Phys Med Rehabil* 1982 Aug;63(8):392-393.

1372. **Auditory feedback of knee angle for amputees (Technical note).** Gilbert JA, Maxwell GM, George RT, Jr and McElhaney JH. *Prosthet Orthot Int* 1982 Aug;6(2):103-104.

1373. **A bouncy knee for above-knee amputees.** Judge GW and Fisher L. *Eng Med* 1981 Jan;10(1):27-32.

1374. **Computer simulation for the prediction of stump loading in above-knee amputees.** Ishai G and Bar A. *Med Biol Eng Comput* 1983 Mar;21(2):186-190.

1375. **Economics of modular prostheses.** Staros A. Prosthet *Orthot Int* 1979 Dec;3(3):147-149.

1376. **Effect of knee-prosthesis geometry on cruciate ligament mechanics during flexion.** Lew WD and Lewis JL. *J Bone Joint Surg* 1982 June;64-A(5):734-739.

1377. **Evaluation of A/K prostheses comparing conventional with adaptive knee control devices.** Ishai G and Bar A. *J Biomed Eng* 1984 Jan;6(1):27-32.

1378. **Feasibility study of a computer-controlled hydraluic above-knee prosthetic limb.** Kautz TO and Seireg A. International Conference on Medical Devices and Sports Equipment. Edited by Shoup TE and Thacker JG, Aug 18-20, 1980. New York, NY: ASME United Engineering Center, 1980, 81-88 pp.

1379. **Hip disarticulation: A prosthetic follow-up.** Shurr DG, Cook TM, Buckwalter JA and Cooper RR. *Orthot Prosthet* 1983;37(3):50-57.

1380. **Hydraulic/pneumatic knee control unit: A prosthetist's point of view.** Pritham CH. *Clin Prosthet Orthot* 1983 Fall;7(4):7-8.

1381. **Hydraulics and above-knee prosthetics.** Wilson, AB, Jr. *Clin Prosthet Orthot* 1983 Fall;7(4):3-4.

1382. **The interface between the body and the above-knee prosthesis.** Holmgren G. *Prosthet Orthot Int* 1979 Apr;3(1):31-36.

1383. **Knee cylinder.** Pritham CH and Stills M. *Orthot Prosthet* 1979 Dec;33(4):11-18.

1384. **The Mauch hydraulic knee unit for above-knee amputation.** Volatile TB, Roberson JR and Whitesides TE, Jr. *Orthopedics* 1985 Feb;8(2):229-230.

1385. **Mauch SNS hydraulic knee units in above-knee amputees: A long-term follow-up study.** Whitesides TE, Jr and Volatile TB. *Clin Orthop Relat Res* 1985 Apr;194:264-268.

1386. **Modular assembly above-knee prostheses.** Taylor JS. *Prosthet Orthot Int* 1979 Dec;3(3):144-146.

1387. **Modular concept in multi-functional above-knee prosthesis.** Chaudhry KK, Guha SK and Verma SK. *Eng Med* 1981 July;10(3):155-158.

1388. **Modular prosthetics--A philosophical view.** Foort J. *Prosthet Orthot Int* 1979 Dec;3(3):140-143.

1389. **Myoelectric pattern recognition for use in the volitional control of above-knee prostheses.** Myers DR and Moskowitz GD. *IEEE Trans Syst Man Cyber* 1981 Apr;SMC-11(4):296-302.

1390. **A novel concept in fitting bilateral above-knee amputees: A case history.** Svetz WR. *Orthot Prosthet* 1983;37(3):63-66.

1391. **Ottawa experience with hip disarticulation prostheses.** Van Der Waarde T. *Orthot Prosthet* 1984 Spr;38(1):29-35.

1392. **Otto Bock modular prostheses for the lower limb: A new knee-disarticulation joint.** Nader M. *Orthop Tech* 1979 Aug;30(8):132-136.

1393. **The PAD--A new alignment device for prosthetic systems (The case of an AK endoskeletal prosthesis).** Pierron G, Palfray M and Berthet M. *Orthot Prosthet* 1984 Wint;38(4):58-62.

1394. **Pantyhose prosthesis: a cosmetic alternative.** Wainapel SF, Reteguiz C and Burton J. *Arch Phys Med Rehabil* 1984 June;65(6):338-340.

1395. **Parapodium design with knee and hip locks.** Brown JA, Gram M and Kinnen E. *Orthot Prosthet* 1980 June;34(2):14-20.

1396. **Physical therapy and hydraulic knee units.** Kegel B. *Clin Prosthet Orthot* 1983 Fall;7(4):4-7.

1397. **Pneumatic airleg prosthesis: Report of 200 cases.** Bonner FJ, Jr and Green RF. *Arch Phys Med Rehabil* 1982 Aug;63(8):383-385.

1398. **A polycentric knee-ankle mechanism for above-knee prostheses.** Cappozzo A, Leo T and Cortesi SS. *J Biomech* 1980;13(3):231-239.

1399. **A prosthesis for the short above-knee amputee.** Onna I, Mizrahi J and Susak Z. *Orthot Prosthet* 1980 June;34(2):10-13.

1400. **Prosthetic management of A/K amputees with hip joint flexion contractures.** Schettler R. *Orthop Tech* 1980 Mar;31(3):37-39. [German]

1401. **Short prostheses for bilateral A/K amputees.** Schroter HJ. *Orthop Tech* 1979 June;30(6):87-88. [German]

1402. **The sliding Meniscus knee prosthesis: Design concepts.** Minns RJ and Campbell J. *Eng Med* 1979 Oct;8(4):201-205.

1403. **S-N-S knees and the bilateral A/K amputees.** Rubin G. *Clin Prosthet Orthot* 1983 Fall;7(4):1-2.

1404. **Standards for modular prostheses.** Staros A. *Prosthet Orthot Int* 1980 Apr;4(1):45-46.

1405. **Studies on the frequency distribution of the axial forces in modular prostheses.** Boenick U and Nettelhorst HV. *Orthop Tech* 1979 July;30(7):105-107. [German]

1406. **Subjective evaluation of the UCBL polycentric knee linkage by active above-knee amputee: A prospective trial.** Jergesen HE, Hoaglund FT and Roberts RA. *Orthopedics* 1985 Feb;8(2):237-241.

1407. **The thigh corsets: Its effects on the quadriceps muscle and its role in prosthetic suspension.** Weiss J, Middleton L, Gonzales E and Lovelace RE. *Orthot Prosthet* 1983;37(3):58-62.

1408. **The variable-axis knee prosthesis--Two-year follow-up study.** Murray DG and Webster DA. *J Bone Joint Surg* 1981 June;63-A(5):687-694.

Prosthetics: Lower Limb — Below-knee

1409. **An acrylic lamination technique for an ultralight below-knee prosthesis (Technical note).** Roman EJ and Mott L. *Orthot Prosthet* 1980 Dec;34(4):37-39.

1410. **Advanced prosthetic techniques for below-knee amputations.** Staats TB. *Orthopedics* 1985 Feb;8(2):249-258.

1411. **An air-ventilated Syme's leg prosthesis.** Pearl M and Johnson RJ. *Inter-Clin Inf Bull* 1983 Wint;18(5):5-6.

1412. **An angular alignment protractor for use in the alignment of below-knee prostheses (Technical note).** Kerr G, Saleh M and Jarrett MO. *Prosthet Orthot Int* 1984 Apr;8(1):56-57.

1413. **A below-knee vacuum casting technique.** Hittenberger DA and Carpenter KL. *Orthot Prosthet* 1983;37(3):15-23.

1414. **The Berkeley endoskeletal below-knee modular system.** Staats T. *Orthot Prosthet* 1981 Dec;35(4):37-44.

1415. **A case study--Special Chopart's prosthesis with custom molded foot (Technical note).** Young RD. *Orthot Prosthet* 1984 Wint;38(4):79-84.

1416. **Casting technique for below-knee prostheses.** Rice VL. *Orthot Prosthet* 1979 Dec;33(4):51-59.

1417. **A combined end-bearing and patellar-tendon-bearing prosthesis for Chopart's amputation--Case note.** Mustapha NM, McCard F and Brand AT. *Prosthet Orthot Int* 1980 Dec;4(3):156-158.

1418. **Early fitting of the below-knee amputee.** Mooney V, McClellan B, Cummings D and Smith P. *Orthopedics* 1985 Feb;8(2):199-202.

1419. **End-bearing characteristics of patellar-tendon-bearing prostheses: A preliminary report.** Katz KK, Susak Z, Seliktar R and Najenson T. *Bull Prosthet Res* 1979 Fall;16(2, PBR 10-32):55-68.

1420. **Evaluation of ultralight B/K prosthesis.** Reed B, Wilson AB, Jr and Pritham CH. *Orthot Prosthet* 1979 June;33(2):45-55.

1421. **Fabrication of the water-resistant recreational B/K prosthesis.** LaBlanc KP. *Orthot Prosthet* 1983;37(3):42-49.

1422. **A lightweight laminated below-knee prosthesis.** Leimkuehler JP. *Orthot Prosthet* 1982 Spr;36(1):46-49.

1423. **The partial foot amputation.** Rubin G. *J Am Podiatry Assoc* 1984 Oct;10(4):518-522.

1424. **Potential problems of manufacture and fitting of polypropylene ultralight-weight below-knee prostheses.** Convery P, Jones D, Hughes J and Whitefield G. *Prosthet Orthot Int* 1984 Apr;8(1):21-28.

1425. **A preliminary clinical evaluation of the Mauch hydraulic foot-ankle system.** Sowell TT. *Prosthet Orthot Int* 1981 Aug;5(2):87-91.

1426. **Prescription options for the below-knee amputee: A review.** Abrahamson MA, Skinner HB, Effeney DJ and Wilson LA. *Orthopedics* 1985 Feb;8(2):210-220.

1427. **A prosthesis for very short below-knee stumps.** Fragment 1982 Sum;135:50-55.

1428. **A prosthesis for very short below-knee stumps.** Seliktar R, Bar A, Susak Z and Njenson T. *Orthot Prosthet* 1980 Mar;34(1):25-35.

Prosthetics: Upper Limb

1429. **Prosthetic alignment: Effect on gait of persons with below-knee amputation.** Hannah RE, Morrison JB and Chapman AE. *Arch Phys Med Rehabil* 1984 Apr;65(4):159-162.

1430. **Prosthetic design for a chronic foot deformity.** Eickman L and Benson M. *Phys Ther* 1980 Apr;60(4):429-430.

1431. **Prosthetic fitting problems of the quasi-Syme amputation.** Rubin G. *Clin Orthop Relat Res* 1981 Oct;160:233-241.

1432. **Prosthetic modifications for the treatment of marginally viable below-knee amputations.** Garrison KS. *Orthot Prosthet* 1983;37(2):53-56.

1433. **The SAFE foot.** Campbell JW and Childs CW. *Orthot Prosthet* 1980 Sep;34(3):3-16.

1434. **Scotchcast PVC interim prosthesis for below-knee amputees (Technical note).** Wu YC, Brncick MD, Krick HJ, Putnam TD and Stratigos JS. *Bull Prosthet Res* 1981 Fall;18(2, BPR 10-36):40-45.

1435. **Static load response of the heels of SACH feet.** Skinner HB, Abrahamson MA, Hung RK, Wilson LA and Effeney DJ. *Orthopedics* 1985 Feb;8(2):225-228.

1436. **Static weight-bearing patterns of below-knee amputees using patellar-tendon-bearing prostheses.** Tibarewala DN and Ganguli S. *J Biomed Eng* 1982 Jan;4(1):55-61.

1437. **Suspension of the below-knee prosthesis: An overview.** Pritham CH. *Orthot Prosthet* 1979 June;33(2):1-19.

1438. **Syme's prosthesis--A brief review and a new fabrication technique.** Leimkuehler J. *Orthot Prosthet* 1980 Dec;34(4):3-12.

1439. **Temporary below-knee prosthetics.** Feldman RS and Herman C. *Orthot Prosthet* 1982;36(2):103-107.

1440. **Tucker-Syme prosthetic fitting in young people.** Lyttle D. *Inter-Clin Inf Bull* 1984 Aut;19(3):62.

1441. **Variation on the pylon for the below-knee amputee: Suggestion from the field.** Shelton ME and Guise EP. *Phys Ther* 1982 Nov;62(11):1601-1603.

1442. **Active and carrier-tool prostheses for upper limb amputations.** Baumgartner R. *Orthop Clin N Am* 1981 Oct;12(4):953-959.

1443. **The biomechanics of control of upper extremity prostheses.** Taylor C. *Orthot Prosthet* 1981 Mar;35(1):7-28. [Reprint of Art Limbs 1955 Sep;2(3):4-25]

1444. **Brachial plexus injury management through upper extremity amputation with immediate postoperative prostheses.** Malone JM, Leal JM, Underwood J and Childers SJ. *Arch Phys Med Rehabil* 1982 Feb;63(2):89-91.

1445. **The CAPP terminal device, size #2.** Sumida CT and Shaperman J. *Inter-Clin Inf Bull* 1984 Aut;19(3):52.

1446. **Closed-loop control in prosthetic systems: Historical perspective.** Childress DS. *Ann Biomed Eng* 1980;8(4):293-303.

1447. **Development of a juvenile prosthetic-dexterity test.** Farrell W, Carlson L and Cary J. *Inter-Clin Inf Bull* 1984 Spr;19(1):5.

1448. **Engineering of upper limb prostheses.** Law HT. *Orthop Clin N Am* 1981 Oct;12(4):929-951.

1449. **Immediate, early and late postsurgical management of upper limb amputation.** Malone JM, Fleming LL, Roberson J, Whitesides TE, Jr, Leal JM, Poole JU and Grodin RS. *J Rehabil Res Dev* 1984 May;21(1):33-41.

1450. **Juvenile upper limb amputees: Early prosthetic fit and functional use.** Tervo RC and Leszczynski J. *Inter-Clin Inf Bull* 1983 Wint;18(5):11-15.

1451. **A long-term review of children with congenital and upper limb deficiency.** Scotland TR and Galway HR. *Inter-Clin Inf Bull* 1984 Aut;19(3):51.

1452. **Occupational therapy for the limb-deficient child: A developmental approach to treatment planning and selection of prostheses for infants and young children with unilateral upper extremity limb deficiencies.** Clarke SD and Patton JG. *Clin Orthop Relat Res* 1980 May;148:47-54.

1453. **Prosthetic management of high bilateral upper limb amputees.** Barcome DF and Eickman L. *Orthot Prosthet* 1980 Sep;34(3):22-28.

1454. **A terminal question.** Radocy R and Dick RE. *Orthot Prosthet* 1981 Mar;35(1):1-6.

1455. **A universal terminal device: Preliminary report.** Lehneis HR, Frisina W, Susman W and Cohen J. *Inter-Clin Inf Bull* 1979 May-June;17(3):1-8.

1456. **An upper limb prosthesis for infants.** Watts H. *Inter-Clin Inf Bull* 1984 Aut;19(3):53.

Prosthetics: Upper Limb — Above-Elbow

1457. **Boston elbow.** Tanenbaum SJ. Washington, DC: Office of Technology Assessment, Nov 1984, 47 pp.

1458. **Cosmetic help for young people with severe deformity of the arm.** Emmerich A and Marquardt E. *Orthop Tech* 1979 Apr;30(4):56. [German]

1459. **The Guildford elbow joint.** Evans EJ and Stiles PJ. *J Biomed Eng* 1980 July;2(3):205-210.

1460. **Prosthetic management following angulation osteotomy in above-elbow amputees.** Neff G. *Orthop Tech* 1979 Jan;30(1):17-19. [German]

1461. **UCL hydraulic arm dynamics.** Broome DR. *Eng Med* 1979 Apr 8(2):87-95.

1462. **Upper limb prosthetics for high level arm amputation.** Ober JK. *Prosthet Orthot Int* 1982 Apr;6(1):17-20.

Prosthetics: Upper Limb — Below-Elbow

1463. **An alternative to fitting partial hand amputees.** Brown RS. *Orthot Prosthet* 1984 Spr;38(1):64-67.

1464. **The CAPP pre-flexed wrist unit.** Setoguchi Y, Sumida CT and Shaperman J. *Inter-Clin Inf Bull* 1980 Aug;17(9):7-12.

1465. **A case study of reaching by a user of a manually-operated artifical hand.** Fraser C and Wing AW. *Prosthet Orthot Int* 1981 Dec;5(3):151-156.

1466. **Cosmetic hand prosthesis--A case report.** Buckner HE. *Orthot Prosthet* 1980 Sep;34(3):41-45.

1467. **A modular below-elbow prosthesis for children.** Hodgins JC, Sullivan RA and Jain S. *Orthot Prosthet* 1982;36(2):15-21.

1468. **Prosthetic finger retention: A new approach.** Herring HW, Jr and Rommerdale EH. *Orthot Prosthet* 1983;37(2):28-30.

1469. **The string casting technique for below-elbow amputees.** Staats TB. *Orthot Prosthet* 1982 Spr;36(1):35-40.

1470. **A study of reaching by a user of a manually-operated artificial hand.** Fraser C. *Physiotherapy* 1984 Oct;70(10):393-394.

1471. **A temporary thumb prosthesis.** Ey MC and Helfgott S. *Inter-Clin Inf Bull* 1979 May-June;17(3):9.

1472. **Terminal transverse congenital limb deficiency of the forearm.** Shurr DG, Cooper RR, Buckwalter JA and Blair WF. *Orthot Prosthet* 1981 Sep;35(3):22-25.

1473. **The Toledo tenodesis prosthesis--A case history utilizing a new concept in prosthetics for the partial hand amputee.** Cole DP, Davis GL and Traunero JE. *Orthot Prosthet* 1984 Wint;38(4):13-23.

1474. **Twenty-five year longitudinal study of children fitted with below-elbow prostheses before the age of two.** Clarke SD. *Inter-Clin Inf Bull* 1984 Aut;19(3):51.

1475. **Wrist-activated functional hand prosthesis.** Trost FJ and Farley AM. *Inter-Clin Inf Bull* 1984 Spr;19(1):8.

1476. **Wrist disarticulation of a deformed hand: Appropriate prosthesis and the habilitation of a severely retarded young man.** Stimson C, Morrison H, Wakefield W, Kiss T, Lehneis HR, Simons A, Sverdlik SV and Rotondo MJT. *Arch Phys Med Rehabil* 1984 May;65(5):279-280.

1477. **Wrist rotator for the child-size hand.** Dakpa R. *Inter-Clin Inf Bull* 1984 Aut;19(3):57.

Prosthetics: Externally Powered Control

1478. **ADEPT--Innovative design concepts in body-powered children's terminal devices.** Radocy R. *Inter-Clin Inf Bull* 1984 Aut;19(3):52.

1479. **An analysis of extended physiological proprioception as a prosthesis-control technique.** Doubler JA and Childress DS. *J Rehabil Res Dev* 1984 May;21(1):5-18.

1480. **Comparative study of control principles of electromechanical hand prostheses.** Stefens HP. *Orthop Tech* 1979 Nov;30(11):169-171. [German]

1481. **A cost-benefit analysis of 160 patients with electrically-powered limbs.** Sauter WF. *Inter-Clin Inf Bull* 1984 Spr;19(1):2-4.

1482. **Design and construction of a controller for powered elbow and terminal device for an amelic child.** Dankmeyer CH, Jr, Phillips H and Schmeisser G. *Inter-Clin Inf Bull* 1984 Wint;19(4):67-71,82.

1483. **Design and evaluation of a prosthesis control system based on the concept of extended physiological proprioception.** Doubler JA and Childress DS. *J Rehabil Res Dev* 1984 May;21(1):19-31.

1484. **Feedback for electrically-powered prostheses and orthoses.** Frisina W and Reeve JA. *Prosthet Orthot Clin Newsl* 1981 Sum;5(3):7-8.

1485. **Handbook of externally-powered prostheses for the upper extremity amputation.** Spaeth JP and Klotz JS. Springfield, IL: Charles C Thomas, 1981, 107 pp.

1486. **Investigations on the functional value of body and externally-powered hand units.** Becker FF. *Orthop Tech* 1979 Oct;30(10):157-159. [German]

1487. **Low temperature performance of electric hand (Technical note).** Caldwell RR and Scott RN. *Med Biol Eng Comput* 1979 Nov;17(6):779-780.

1488. **Modifications of the switch control for a powered hand on an elbow disarticulation prosthesis.** Spaeth JP. *Orthot Prosthet* 1981 Dec;35(4):45-48.

1489. **New approaches for the control of powered prostheses particularly by high-level amputees.** Stein RB, Charles D, Hoffer JA, Arsenault J, Davis LA, Moorman S and Moss B. *Bull Prosthet Res* 1980 Spr;17(1, BPR 10-33):51-62.

1490. **On a new electromechanical hand for young children.** Al-Temen I, Literowich W, Mifsud M and Milner M. *Inter-Clin Inf Bull* 1984 Spr;19(1):6-8.

1491. **Pattern-recognition arm prosthesis--a final report.** Wirta R, Taylor DR and Finley FR. *Bull Prosthet Res* 1978 Fall;(BPR 10-30):8-35.

1492. **Prosthetic supply with electrically-powered arm prostheses and multifunctional control systems.** Benning H. *Orthop Tech* 1980 Apr;31(4):53-56. [German]

1493. **VA/USMC electric hand with below-elbow cineplasty (Technical note).** Leal JM and Malone JM. *Bull Prosthet Res* 1981 Spr;18(1, BPR 10-35):52-56.

1494. **A wrist-powered hand prosthesis.** Dick T, Lamb DW and Douglas WB. *J Bone Joint Surg* 1984 Nov;66-B(5):742-744.

Prosthetics: Myoelectric Control System

1495. **Acoustic myography.** Berry DT, Leonard JA, Jr, Gitter A and Ball RD. *Inter-Clin Inf Bull* 1984 Aut;19(3):54.

1496. **Adaptable myoelectric prosthetic control with functional visual feedback using microprocessor techniques.** Philipson L. *Med Biol Eng Comput* 1985 Jan;23(1): 8-14.

1497. **Adaptation of the VA/USMC electric hand to the Liberty Mutual myoelectric Boston elbow for above-elbow amputees (Technical note).** Leal JM, Williams TW, III and Malone JM. *Bull Prosthet Res* 1981 Spr;18(1, BPR 10-35):56-60.

1498. **An adaptive control system for a complete hand/arm prosthesis.** Swain ID and Nightingale JM. *J Biomed Eng* 1980 July;2(3):163-166.

1499. **Afferent electrical nerve stimulation: human tracking performance relevant to perosthesis sensory feedback.** Anani AB and Korner L. *Med Biol Eng Comput* 1979 July;17(4):425-434.

1500. **The below-elbow myoelectric prosthesis.** Northmore-Ball MD, Heger H and Hunter GA. *J Bone Joint Surg* 1980 Aug;62-B(3):363-367.

1501. **Clinical evaluation of UNB 3-state myoelectric control for arm prostheses.** Paciga JE, Gibson DA, Gillespie R and Scott RN. *Bull Prosthet Res* 1980 Fall;17(2, BPR 10-34):21-33.

1502. **Conventional myoelectric prostheses--Acceptance among unilateral below-elbow amputees.** Herberts P, Caine K, Korner L and Wensby L. *Satryck ur Lakartidningen* 1980;77(9):771-774. [Sweden, English Summary]

1503. **Development of upper extremity myoelectric training methods for preschool congenital amputees.** Hubbard S, Koheil R, Heger H, Galway HR and Milner M. *Inter-Clin Inf Bull* 1984 Spr;19(1):9.

1504. **Development of the Utah artificial arm.** Jacobsen SC, Knutti DF, Johnson RT and Sears HH. *IEEE Trans Biomed Eng* 1982 Apr;BME-29(4):249-269.

1505. **Digital approaches to myoelectric state control of prostheses.** Philipson L, Childress DS and Strysik J. *Bull Prosthet Res* 1981 Fall;18(2, BPR 10-36):3-11.

1506. **Digital myoelectric signal processor with adaptive decision boundaries.** Berube JL, Parker PA, Gander RE and Dunfield VA. *Med Biol Eng Comput* 1984 July;22(4):349-352.

1507. **Effects of load on myoelectric signals: the ARIMA representation.** Sherif MH, Gregor RJ and Lyman J. *IEEE Trans Biomed Eng* 1981 May;BME-28(5): 411-425.

1508. **Electrical stimulation and myoelectric control: A theoretical and applied study relevant to prosthesis sensory feedback.** Almstrom C, Anani A, Herberts P and Korner L. *Med Biol Eng Comput* 1981 Sep;19(5):645-653.

1509. **EMG pattern analysis and classification for a prosthetic arm.** Saridis GN and Gootee TP. *IEEE Trans Biomed Eng* 1982 June;BME-29(6):403-412.

1510. **Error rate in five-state myoelectric control systems.** Paciga JE, Richard PD and Scott RN. *Med Biol Eng Comput* 1980 May;18(3):287-290.

1511. **Experiences with myoelectric prostheses: A preliminary report.** Ey MC. *Inter-Clin Inf Bull* 1979 May-June;17(3):15-17.

1512. **Evaluation of a multifunctional hand prosthesis system using EMG-controlled animation.** Yamada M, Niwa N and Uchiyama A. *IEEE Trans Biomed Eng* 1983 Nov;BME-30(11):759-763.

1513. **Frequency parameters of the myoelectric signals as a measure of muscle conduction velocity.** Stulen FB and De Luca CJ. *IEEE Trans Biomed Eng* 1981 July;BME-28(7):515-523.

1514. **Functional effectiveness of a myoelectric prosthesis compared with a functional split-hook prosthesis: A single subject experiment.** Agnew PJ. *Prosthet Orthot Int* 1981 Aug;5(2):92-96.

1515. **Harnessing technique for myoelectric arm prosthesis (Technical note).** Solomonow M, Adair C and Lyman JH. *Bull Prosthet Res* 1979 Fall;16(2, BPR 10-32):208-212.

1516. **Ideas on sensory feedback in hand prostheses.** Herberts P and Korner L. *Prosthet Orthot Int* 1979 Dec;3(3):157-162.

1517. **Immediate postsurgical management of upper extremity amputation; Conventional, electric and myoelectric prostheses.** Malone JH [i.e. M], Childers SJ, Underwood J and Leal JH [i.e. M]. *Orthot Prosthet* 1981 June;35(2):1-9.

1518. **Implantable myoelectric control system with sensory feedback (Technical note).** Lovely DF, Hudgins BS and Scott RN. *Med Biol Eng Comput* 1985 Jan;23(1):87-89.

1519. **A microprocessor-based control system for multifunctional hand prostheses.** Johnsson U, Korner L and Herberts P. *Int J Rehabil Res* 1984;7(2):193-195.

1520. **The Milwaukee experience with myoelectric prostheses.** Kritter AE. *Inter-Clin Inf Bull* 1984 Spr;19(1):1.

1521. **Multifunctional prosthesis and orthosis control via microcomputer identification of temporal pattern differences in single-site myoelectric signals.** Graupe D, Salahi J and Kohn KH. *J Biomed Eng* 1982 Jan;4(1):17-22.

1522. **Multistate myoelectric control: the feasibility of 5-state control (Technical note).** Richard PD, Gander RE, Parker PA and Scott RN. *J Rehabil Res Dev* 1983 July;20(1):84-86.

1523. **Muscle alone is not enough--An essay.** Lyman J. *Bull Prosthet Res* 1979 Spr;(BPR 10-31):11-13.

1524. **Myoelectric artificial hand for tropical climates.** Ray GC and Guha SK. *CS10 Communications* 1980;7(3):46-51.

1525. **Myoelectric below-elbow prostheses in the very young child.** Sanderson ER, Caldwell RR, Wedderburn Z and Scott RN. *Inter-Clin Inf Bull* 1984 Aut;19(3):55.

1525A. **Myoelectric control of an artificial hand for sequential movement in a tropical climate.** Ray GC, Saxena SC and Mukhopadhyay P. *Med Biol Eng Comput* 1979 Nov;17(6):724-728.

1526. **A myoelectric control system for young children.** Scott RN, Dunfield VA, Richard PD, Hayden JW, Caldwell RR and Paasche PE. *Inter-Clin Inf Bull* 1984 Spr;19(1):4-5.

1527. **Myoelectric control systems--A selected bibliography.** Murphy EF and Holm [i.e. Hom] L. *Orthot Prosthet* 1981 Mar;35(1):34-45.

1528. **Myoelectric elbow and hand prosthesis controlled by signals from 2 muscles only, in a 9-year-old girl.** Philipson L and Sorbye R. *Prosthet Orthot Int* 1981 Apr;5(1):29-32.

1529. **Myoelectric fitting at the level of wrist disarticulation.** Nichol WR and Wiebe L. *Inter-Clin Inf Bull* 1984 Aut;19(3):56.

1530. **Myoelectric program in Detroit.** Morawa LG. *Inter-Clin Inf Bull* 1984 Aut;19(3):55.

1531. **Myoelectric prosthetic fitting in young children.** Sorbye R. *Clin Orthop Relat Res* 1980 May;148:34-40.

1532. **Myoelectric signal processing: Optimal estimation applied to electromyography--Part I: Derivation of the optimal myoprocessor.** Hogan N and Mann RW. *IEEE Trans Biomed Eng* 1980 July;BME-27(7):382-395.

1533. **Myoelectric signal processing: Optimal estimation applied to electromyography--Part II: Experimental demonstration of optimal myoprocesor performance.** Hogan N and Mann RW. *IEEE Trans Biomed Eng* 1980 July;BME-27(7):396-410.

1534. **Myoelectric single-site electrode fitting for a short below-elbow amputee.** Schultz CF and Kritter AE. *Inter-Clin Inf Bull* 1983 July;18(3):1-6.

1535. **Myoelectric training for preschool children.** O'Shea BJ and Dunfield VA. *Arch Phys Med Rehabil* 1983 Oct;64(10):451-455.

1536. **Myoelectrically-controlled hand prostheses in children: Clinical considerations.** Sorbye R. *Orthop Tech* 1980 Feb;31(2):19-22. [German]

1537. **A myoelectrically-controlled prosthesis with sensory feedback.** Shannon GF. *Med Biol Eng Comput* 1979 Jan;17(1):73-80.

1538. **Myoelectrically-manipulated prostheses of the forearm.** Vostrcil M. *Acta Chir Orthop Traumatol Czech* 1980;47:90-92. [Czechoslovakian, English summary]

1539. **Myoelectrics for the child below-elbow amputee.** Maiorano L. *Inter-Clin Inf Bull* 1984 Aut;19(3):56.

1540. **A myofeedback instrument for clinical use.** McCarthy CF and De Luca CJ. *J Rehabil Res Dev* 1984 July;21(2):39-44.

1541. **The new Otto-Bock gripping device with myoelectric control.** Nader M. *Orthop Tech* 1979 Sep;30(9):137-142. [German]

1542. **Physiology and mathematics of myoelectric signals.** De Luca CJ. *IEEE Trans Biomed Eng* 1979 June;BME-26(6):313-325.

1543. **A procedure for decomposing the myoelectric signal into its constituent action potentials. Part I: Technique, theory, and implementation.** Le Fever RS and De Luca CJ. *IEEE Trans Biomed Eng* 1982 Mar;BME-29(3):149-157.

1544. **A procedure for decomposing the myoelectric signal into its constituent action potentials. Part II: Execution and text for accuracy.** Le Fever RS, Xenakis AP and De Luca CJ. *IEEE Trans Biomed Eng* 1982 Mar;BME-29(3):158-164.

1545. **Quiet, graceful prosthetic arm monitored by the brain.** *Rehabil Dig* 1981 Jan-Feb-Mar;12(1):13.

1546. **Rehabilitation of unilateral below-elbow amputees with myoelectric prostheses.** Herberts P, Korner L, Caine K and Wensby L. *Scand J Rehabil Med* 1980;12(3): 123-128.

1547. **A review of the failures in use of the below-elbow myoelectric prosthesis.** Millstein S, Heger H and Hunter G. *Orthot Prosthet* 1982;36(2):29-34.

1548. **Sensory feedback in prosthetics: Where do we go now?** Scott RN and Sanderson ER. *Inter-Clin Inf Bull* 1984 Aut;19(3):54.

1549. **Sensory-feedback system compatible with myoelectric control.** Scott RN, Brittain RH, Caldwell RR, Cameron AB and Dunfield VA. *Med Biol Eng Comput* 1980 Jan;18(1):65-69.

1550. **Signal processing for proportional myoelectric control.** Evans HB, Pan Z, Parker PA and Scott RN. *IEEE Trans Biomed Eng* 1094 Feb;BME-31(2):207-211.

1551. **Single neuron recording from motor cortex as a possible source of signals for control of external devices.** Schmidt EM. *Ann Biomed Eng* 1980;8(4-6):339-349.

1552. **So you want to begin a myoelectric program?** Nekolny P. *Inter-Clin Inf Bull* 1984 Aut;19(3):57.

1553. **Stochastic analysis of myoelectric temporal signatures for multifunctional single-site activation of prostheses and orthoses.** Graupe D, Salahi J and Zhang D. *J Biomed Eng* 1985 Jan;7(1):18-29.

1554. **Technical aspects of a new myoelectrically-controlled hand for children.** Hedstrom L, Holmquist T, Randstrom S and Sorbye R. *Orthop Tech* 1980 Feb;31(2):23-25. [German]

1555. **Test instuctions for the technical testing of mono-functional myoelectrically-controlled prosthetic hands. A proposal (Technical note).** Ingvarsson B, Karlsson I, Ottoson LG and Thyberg M. *Prosthet Orthot Int* 1982 Apr;6(1):41-42.

1556. **Training for myoelectric prosthesis with sensory feedback.** Agnew PJ. *Br J Occup Ther* 1979 Nov;42(11):286-287.

1557. **Training program for a myoelectrically-controlled prosthesis with sensory feedback system.** Agnew PJ and Shannon GF. *Am J Occup Ther* 1981 Nov;35(11):722-727.

1558. **The two-stage myoelectric hand for children and young adults.** Baron E, Clarke SD and Solomon C. *Inter-Clin Inf Bull* 1984 Spr;19(1):1-2.

1559. **The two-stage myoelectric hand for children and young adults.** Baron E, Clark SD and Solomon C *Orthot Prosthet* 1983;37(2):11-23.

Prosthetics: Socket

1560. **The United Kingdom trial of the Swedish myoelectric hand for young children: An interim report.** Day HJB. *Inter-Clin Inf Bull* 1980 July;17(8):5-8.

1561. **Are our socket shapes useful for geriatric amputees?** Bahler A. *Orthop Tech* 1979 Nov;30(11):175-177. [German]

1562. **Clinical indication for flexible above-knee prosthetic socket.** Adelglass H, Chu DS and Lehneis HR. *Clin Prosthet Orthot* 1984 Wint;8(1):9-11.

1563. **Dynamic pressure measurements at the interface between residual limb and socket: The relationship between pressure distribution, comfort, and the shape of the brim.** Naeff M and Van Pijkeren T. *Bull Prosthet Res* 1980 Spr;17(1, BPR 10-33):35-50.

1564. **Experience with a pneumatic socket system for the orthopaedic technology.** Biedermann WG and Holtkamp H. *Orthop Tech* 1979 July;30(7):109-112.

1565. **Fabrication of the Boston Vari-Vol socket.** Carideo JF, Jr and Marich MS. *Inter-Clin Inf Bull* 1982 June;18(2):9-10.

1566. **Flexible above-knee socket made from low density polyethylene suspended by a weight transmitting frame.** Kristinsson O. *Orthot Prosthet* 1983;37(2):25-27.

1567. **Flexible prosthetic socket techniques.** Lehneis HR, Chu DS and Adelglass H. *Clin Prosthet Orthot* 1984 Wint;8(1):6-8.

1568. **Frame type socket for lower limb prostheses.** Volkert R. *Prosthet Orthot Int* 1982 Aug;6(2):88-92.

1569. **Hemi-shell-fitting instead of resin socket for hip disarticulation.** Neff G, Mehler O and Fischer K. *Orthop Tech* 1979 Sep;30(9):142-146.

1570. **The ISNY socket system.** Fishman S and Berger N. *Inter-Clin Inf Bull* 1984 Aut;19(3):63.

1571. **A method for socket duplication using silcoset R 105 (Technical note).** Young NJ. *Prosthet Orthot Int* 1984 Apr;8(1):52-53.

1572. **Modification of temporary below-knee sockets for amputees with absent or diminished sensation.** McPoil TG, Bergtholdt HT and Hunt GC. *Phys Ther* 1980 Apr;60(4):437-438.

1573. **Modified above-knee socket to relieve anterior pressure caused by abdominal hernia (Technical note).** Stewart CPU and Spiers R. *Prosthet Orthot Int* 1983;7(1):48-49.

1574. **A modified hemipelvectomy socket.** Ockenfels PA. *Clin Prosthet Orthot* 1983 Wint;7(1):11.

1575. **Multiple durometer socket liners for PTB prostheses.** Staats TB. *Orthot Prosthet* 1984 Wint;38(4):63-68.

1576. **A new method for the measurement of normal pressure between amputation residual limb and socket.** Van Pijkeren T, Naeff M and Kwee HH. *Bull Prosthet Res* 1980 Spr;17(1, BPR 10-33):31-34.

1577. **Our ten-year experiences in application of provisory sockets for the formation of lower extremity stumps.** Gantar E and Skusek M. *Orthop Tech* 1979 Apr;30(4):50-51. [German]

1578. **Pressure distribution measurement in prosthetic sockets.** Hennig E and Habermann H. *Orthop Tech* 1980 Jan;31(1):1-4.

1579. **A revised A/K adjustable socket.** Burnette P and Young E. *Orthot Prosthet* 1983;37(3):38-41.

1580. **Socket design for the above-knee amputee.** Foort J. *Prosthet Orthot Int* 1979 Aug;3(2):73-81.

1581. **Socket fabrication.** Van Rolleghem J and Berteele X. *Prosthet Orthot Int* 1979 Aug;3(2):68-72.

1582. **Sockets, linings, and interfaces.** Murphy EF. *Clin Prosthet Orthot* 1984 Sum;8(3):4-10.

1583. **The TC double socket above-knee prosthesis.** Koike K, Ishikura Y, Kakurai S and Imamura T. *Prosthet Orthot Int* 1981 Dec;5(3):129-134.

1584. **Total surface bearing self-suspending above-knee sockets.** Redhead RG. *Prosthet Orthot Int* 1979 Dec;3(3):126-136.

1585. **Use of a perlite insert with the Muenster socket (Technical note).** Reich RR and Cicero J. *Orthot Prosthet* 1981 June;35(2):33-37.

1586. **Variable-volume sockets for above-knee amputees: Managing children following amputation for malignancy.** Watts HG, Carideo JF, Jr and Marich MS. *Inter-Clin Inf Bull* 1982 June;18(2):11-14.

Prosthetics/Amputation: Transcutaneous Electrical Nerve Stimulation

1587. **Adverse responses to transcutaneous electrical nerve stimulation in a patient with rheumatoid arthritis.** Griffin JW and McClure M. *Phys Ther* 1981 Mar;61(3):354-355.

1588. **Applications of transcutaneous electrical nerve stimulation in the management of patients with pain: State-of-the-art update.** Gersh MR and Wolf SL. *Phys Ther* 1985 Mar;65(3):314-336.

1589. **The challenge of pain.** Melzack R and Wall PD. New York, NY: Basic Books, 1982.

1590. **Changes in sympathetic tone associated with different forms of transcutaneous electrical nerve stimulation in health subjects.** Wong RA and Jette DU. *Phys Ther* 1984 Apr;64(4):478-482.

1591. **Clinical uses of TENS: A survey of physical therapists.** Paxton SL. *Phys Ther* 1980 Jan;60(1):38-44.

1592. **Comparative effects of electroacupuncture and transcutaneous nerve stimulation on human blink reflex.** Willer JC, Roby A, Boulu P and Boureau F. *Pain* 1982;14:267-278.

1593. **A critical appraisal of the electrical output characteristics of ten transcutaneous nerve stimulators.** Campbell JA. *Clin Phys Physiol Meas* 1982 May;3(2):141-150.

1594. **Dermal effects of electrocutaneous stimulation.** Mao L and Szeto AYJ. *Biomater Med Devices Artif Organs* 1981;9(4):283.

1595. **The effect of transcutaneous electric nerve stimulation on postoperative pain and pulmonary function.** Ali J, Yaffe CS and Serrette C. *Surgery* 1981;89(4):507-512.

1596. **Effect of transcutaneous electrical nerve stimulation on human blood beta-endorphin level.** O'Brien WJ, Rutan FM, Sanborn C and Omer GE. *Phys Ther* 1984 Sep;64(9):1367-1374.

1597. **Electrode placement manual for TENS.** Yu J and Carroll W. Minneapolis, MN: *Medtronic*, 1982.

1598. **Evaluation of transcutaneous electrical nerve stimulation for pain relief in peripheral neuropathy: A clinical documentation.** Gersh MR, Wolf SL and Rao VR. *Phys Ther* 1980 Jan;60(1):48-52.

1599. **Examination of electrode placements and stimulating parameters in treating chronic pain with conventional transcutaneous electrical nerve stimulation (TENS).** Wolf SL, Gersh MR and Rao VR. *Pain* 1981;11:37-47.

1600. **Facilitation of the tonic vibration reflex (TVR) by cutaneous stimulation.** Spicer SD and Matyas TA. *Am J Phys Med* 1980 Oct;59(5):223-231.

1601. **Facilitation of the tonic vibration reflex (TVR) by cutaneous stimulation in hemiplegics.** Matyas TA and Spicer SD. *Am J Phys Med* 1980 Dec;59(6):280-287.

1602. **The impact of patients with nonorganic physical findings on a controlled trial of transcutaneous electrical nerve stimulation and electroacupuncture.** Lehmann TR, Russell DW and Spratt KF. *Spine* 1983 Sep;8(6):625-634.

1603. **Long-term pain control by direct peripheral-nerve stimulation.** Nashold BS, Jr, Goldner JL, Mullen JB and Bright DS. *J Bone Joint Surg* 1982 Jan;64-A(1):1-10.

1604. **Method of determining optimal stimulation sites for transcutaneous electrical nerve stimulation.** Berlant SR. *Phys Ther* 1984 June;64(6):924-928.

1605. **A model of clinical pain.** Myers SJ, Janal MN, Pei LT and Clark WC. *Am J Phys Med* 1982 Feb;61(1):1-10.

1606. **Overview of transcutaneous electrical nerve stimulation for treatment of acute postoperative pain.** Cotter DJ. *Med Instrum* 1983 July-Aug;17(4): 289-291.

1607. **Pain control with the aid of transcutaneous nerve stimulation.** Frampton VM. *Physiotherapy* 1982 Mar;68(3):77-81.

1608. **Pain: Its physiology and rationale for management. Part I: Neuroanatomical substrate of pain.** Bishop B. *Phys Ther* 1980 Jan;60(1):13-20.

1609. **Pain: Its physiology and rationale for management. Part II: Analgesic systems of the CNS.** Bishop B. *Phys Ther* 1980 Jan;60(1):21-23.

1610. **Pain: Its physiology and rationale for management. Part III: Consequences of current concepts of pain mechanisms related to pain management.** Bishop B. *Phys Ther* 1980 Jan;60(1):24-26.

1611. **Pain management: Long-term follow-up of an inpatient program.** Malec J, Cayner JJ, Harvey RF and Timming RC. *Arch Phys Med Rehabil* 1981 Aug;62(8):369-372.

1612. **Physical therapy management in the treatment of chronic pain.** Roesch R and Ulrich DE. *Phys Ther* 1980 Jan;60(1):53-57.

1613. **Postoperative thoracotomy: Effect of transcutaneous electrical nerve stimulation on forced vital capacity.** Stratton SA and Smith MM. *Phys Ther* 1980 Jan;60(1):45-47.

1614. **Response of plasma beta-endorphins to transcutaneous electrical nerve stimulation in healthy subjects.** Hughes GS, Jr, Lichstein PR, Whitelock D and Harker C. *Phys Ther* 1984 July;64(7):1062-1066.

1615. **A review of transcutaneous electrical nerve stimulation (TENS).** Stamp JM. *J Med Eng Technol* 1982 May-June;6(3):99-103.

1616. **Topical anesthesia: A possible treatment method for spasticity.** Sabbahi MA, De Luca CJ and Powers WR. *Arch Phys Med Rehabil* 1981 July;62(7):310-314.

1617. **Transcutaneous electrical nerve stimulation and extensor splint in linear scleroderma knee contracture.** Rizk TE and Park SJ. *Arch Phys Med Rehabil* 1981 Feb;62(2):86-88.

1618. **Transcutaneous electrical nerve stimulation for acute pain treatment for ambulatory patients.** Feigenbaum E. Springfield, VA: US Dept of Commerce, National Technical Information Service, 1984, 16 pp.

1619. **Transcutaneous electrical nerve stimulation for nonunited fractures: A clinical report.** Kahn J. *Phys Ther* 1982 June;62(6):840-844.

1620. **Transcutaneous electrical nerve stimulation for pain control.** Szeto AYJ and Nyquist JK. *IEEE Eng Med Biol Mag* 1983 Dec;2(4):14-18.

1621. **Transcutaneous electrical nerve stimulation for relief parturition pain: A clinical report.** Grim LC and Morey SH. *Phys Ther* 1985 Mar;65(3):337-340.

1622. **Transcutaneous electrical nerve stimulation: its role in the control of chronic pain.** Fried T, Johnson R and McCrachen W. *Arch Phys Med Rehabil* 1984 May;65(5):228-231.

1623. **Transcutaneous electromagnetic flowmeter: concentric vessel, three-media cylindrical model.** Salles-Cunha SX, Battocletti JH, Sances A, Jr, Bernhard VM and Towne JB. *J Clin Eng* 1981 Oct-Dec;6(4):283-292.

1624. **Transcutaneous nerve stimulation in rheumatoid arthritis.** Kumar VN and Redford JB. *Arch Phys Med Rehabil* 1982 Dec;63(12):595-596.

Spinal Cord Injury

1625. **Acute spinal cord injury patients--Who cares?** Harris P. *Paraplegia* 1985 Feb;23(1):1-7.

1626. **Biomechanical basis for recommendation of transurethral sphincterotomy in spinal cord injury patients with detrusor-sphincter dyssynergia.** Ghista DN and Perkash I. *Med Biol Eng Comput* 1981 Jan;19(1):55-63.

1627. **Cannabis effect on spasticity in spinal cord injury.** Malec J, Harvey RF and Cayner JJ. *Arch Phys Med Rehabil* 1982 Mar;63(3):116-118.

1628. **Deep vein thrombosis in spinal cord injury: Effect of prophylaxis with calf compression, aspirin and dipyridamole.** Green D, Rossi EC, Yao JST, Flinn WR and Spies SM. *Paraplegia* 1982 Aug;20(4):227-234.

1629. **Dorso-lumbar spine fractures: Recumbent vs operative treatment.** Jacobs RR, Asher MA and Snider RK. *Paraplegia* 1980 Dec;18(6):358-376.

1630. **Evaluation of a low dose administration of aspirin, dipyridamol and steroid: Therapeutic effects on motor function and protective effects on Na+-K+ -activiated ATPase activity against lipid peroxidation in an experimental model of spinal cord injury.** Fujita Y, Shingu T, Kurihara M, Miyake H, Kono T, Tsujimura M and Mori K. *Paraplegia* 1985 Feb;23(1):56-57.

1631. **Experience with the management of deep vein thrombosis in patients with spinal cord injury.** Perkash I. *Paraplegia* 1980 Feb;18(1):2-14.

1632. **Head-up tilt effect on glomerular filtration rate, renal plasma flow and mean arterial pressure in spinal man.** Ragnarsson KT, Krebs M, Naftchi NE, Demeny M, Sell GH, Lowman EW and Tuckman J. *Arch Phys Med Rehabil* 1981 July;62(7):306-317.