Thesis Title	Right and Left Tibiofibular and Calcaneal Alignments Measured During Bilateral and Unilateral Stance Positions in Healthy Thais.
Name	Pakaporn Thontong
Degree	Master of Science (Physiotherapy)
Thesis Supervisory Committee	Ananpat Impoolsup M.D.
	Roongtiwa Vachalathiti Ph.D. (Physiotherapy)
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ABSTRACT

This study demonstrated right and left tibiofibular and calcaneal alignments in bilateral and unilateral stance positions in healthy Thai subjects, 30 males and 30 females, 20-30 years old by using Modified Goniometer and Motion Analysis ExpertVision™ System. The results found that the tibiofibular alignments were in varus position and the degrees of varus in unilateral stance were significantly greater than those in bilateral stance position ($p<0.01$). The statistical significant difference ($p<0.05$) between right and left tibiofibular alignments was found in unilateral stance position for male subjects. The symmetrical and asymmetrical pattern of right and left calcaneal alignments were found in both male and female groups. Almost 50% of the subjects had asymmetrical pattern, right varus and left valgus, of calcaneal alignments in bilateral stance position. The symmetrical varus and symmetrical valgus patterns were found in 20% and 30% of subjects respectively. The calcaneal alignments for both patterns changed to a few degrees of varus in unilateral stance position and resulted in significant difference of calcaneal alignments between bilateral and unilateral stance positions ($p<0.05$).