

Title: Correlations between the segmental postural control and sitting development in moderate to late preterm infants aged from 4 months until the age of independent sitting attainment

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The development of self-sitting ability in preterm infants seems to take place at later onset compared with full-term infants. The question arises how segmental postural development correlate to changes in sitting milestone. Report on correlations between the segmental postural control and sitting ability during developing of sitting milestone in healthy home-raised premature infants is still limited. The aim of this study was to examine the correlation between the segmental postural control and the sitting development with the series assessment from the age of 4 months corrected until the age of independent sitting attainment. This study was conducted in 27 moderate to late premature infants. The segmental trunk control was assessed using the Segmental Assessment of Trunk Control, and sitting development was examined by the Alberta Infant Motor Scale. The correlations were analyzed using the Spearman's rank correlation coefficient. Results showed significantly high correlations between the segmental trunk control and sitting scales at 4 (r = 0.658, p = 0.000), 5 (r = 0.805, p = 0.000), 6 (r = 0.761, p = 0.000), and 7 (r = 0.820, p = 0.000) months corrected age. The levels of trunk control in healthy moderate to late premature infants are contributed to sitting development milestone since 4 months corrected age until the age of their sitting attainment.

KEYWORD: segmental postural control, sitting, preterm infant

Biography

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I am a Ph. D. candidate from the Faculty of Associated Medical Sciences of Khon Kaen University. I am 31 years old and working as a physiotherapist with the experience more than 5 years in pediatric physiotherapy. I have published approximately 5 papers in reputed journals and has been serving as an editorial board member of repute in Thailand. I have 2 years of experience in lecturer in the pediatric physiotherapy in Thailand. Moreover, I experienced clinical supervise to physiotherapy students for demonstrations of patient management in physiotherapy class. Finally, I used to advise physiotherapy students to understanding of research methodology in physiotherapy.