OS19-3 足指間力と関連能力の関連性(2)〜通常の通所介護事業所のデータから〜
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The Relationship between Toe Gap Force and Relative Functions in a General Type of Day Service
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Abstract: Sosei Sanarudai Club starts its service since 2012 as a general type of day service. Health indexes, such as toe gap force, time up and go test, functional reach test, weight etc. have examined every month from the beginning. It is well known that toe gap force is important index keeping away from fall. As time up and go test and functional reach test also seem to be relative indexes of fall, the relationship of three indexes was investigated. The interval of the investigation is from November, 2013 to November, 2014. Subjects were 9 elderly who took about 20 minute’s exercise when they came to the day service. Correlation between the changing rate of each index during one year and the frequency of coming to the day service was inspected and toe gap force (left) was only one index that had the correlation coefficient of 0.622 (P=0.041) . Keywords: Toe gap force, Time up and go test, Functional reach test, A day service

OS19-4 高齢者の転倒予防を目的とした仮想障害物またぎ動作の分析
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Analysis of striding movement over a virtual obstacle for elderly people to prevent falls
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A quantitative and effective evaluation of a human lower limb movement is very important in clinical gait analysis. In particular, evaluating the gait condition of the individual elderly people is required for the fall prevention. Therefore, we propose “Leg motion measurement and gait evaluation system” which can be applied for clinical gait analysis. In this paper, we measured the striding movement over a virtual obstacle of elderly people by using the proposed gait evaluation system and analyzed the changes in the gait condition.

OS19-5 コミュニケーションロボットによる高齢者のゆるやかな見守りとその影響
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Relaxed watching system for elderly by using communication robot
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There are a large number of elderly who have problems in their daily life as not being able to comprehend date or schedule so give up either at-home life or single life, due to their lowering of cognitive function. This project is to develop robot systems that is able to transmit information necessary for elderly’s life to realize their autonomous self-sustaining life longer. On this report issues upon actual practice as well as influences on life or human will be revealed by introducing case study of long-term installed robot that support their scheduling at houses of the senior with mild cognitive impairment.