0359

Development of new evaluation methods for inattention in developmental disorder

<u>Yasuhito Sengoku</u>, Toshio Ohyanagi, Sonomi Nakajima, Yuji Nakamura, Fumihiro Kanaya School of Health sciences, Sappro medical university, Sappro, Hokkaidou, Japan

[Introduction] Inattention is a common complication of developmental disorder such as LD or ADHD. It is known that hyperactive, attention deficit, and restlessness are one of symptoms of inattention. Though adequate evaluation of the symptoms is important for the treatment and for the environmental adjustment, the method has not been developed as yet. In this presentation, we explain our new reaction time (RT) tasks and show that the tasks could be used for evaluating the symptoms of inattention adequately. [Method]Subjects were 9 normal adults (2 male and 7 female; mean age, 24.6 ±3.2) and 4 people with developmental disorder (3 male and 1 female; mean age, 18.0±3.4). We conducted two types of RT task, termed "appearing stimulus" task and "disappearing stimulus" task. In the "appearing stimulus" task, subjects were requested to find a target stimulus appearing at one of eight positions that were equally spaced on a virtual circle of 10 degree in visual angle whose center was the center of screen. In "disappearing stimulus" task, eight stimuli were appeared on the same virtual circle on the screen from the beginning of each trial. Subjects were requested to find a target stimulus disappearing from one of eight stimuli.[Result]The mean RTs obtained from normal adults were 283 ms and 342 ms for "appearing stimulus" task and "disappearing stimulus" task, respectively. By comparing these means with RTs obtained from people with developmental disorder, it was revealed that RTs of "appearing stimulus" task obtained from people with attention deficit symptom and RTs of both tasks from people with restlessness symptom were noticeably delayed [Conclusion]It was suggested that our new RT tasks could be used for evaluating the problem of attention function of people with developmental disorder that was predicted from his or her behavioral characteristics. We consider that the examination using our tasks is applicable for analyzing symptom types of people with developmental disorder.