necessary.

We-P-3031

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the genetic basis of ADHD.

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We-P-3032

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ADHD children

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5-year-olds and carried out follow-ups with high-risk ADHD children. Among

the 303 subjects who received health checks in 2007, 50 were at high risk for

ADHD. The results of the follow-ups showed that 17 children suffered from

ADHD, 1 from PDD, 3 from MR, 8 from maltreatment, 3 from others, and 18 children had no identifiable problems. The rate of ADHD was 5.6%. The results

of the follow-ups with high-risk ADHD children identified a range of disorders

in addition to ADHD, such as MR and maltreatment, and also showed that some children faced no problems. It's possible to identify ADHD during childhood,

but ADHD symptoms are non-specific, and careful follow-ups are considered

Role of gene-gene interaction between ADRA2A and

SLC6A2 polymorphism to attention system in Korean

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Genetic studies have focused on catecholamine system genes to identify etio-

logy in ADHD, growing evidences revealed that interaction of several genes may

affect disease outcome. In the present study, interaction of alpha-2 adrenergic

receptor and its transporter were investigated; 83 ADHD children (8.3 ± 2.0yrs, 72 boys/11 girls) were assessed with K-SASD-PL. Neuropsychological assess-

ment was performed with continuous performance test. We assessed ADRA2A

rs553668 and SLC6A2 rs998424. With respect to neuropsychological perfor-

mance, ADRA2A polymorphism had significant main effect on visual/auditory

commission errors in CPT (P = 0.012, P = 0.027, respectively). Combination of

CC for ADRA2A with GG for SLC6A2 genotype had shown more commission

errors than other combinations of genotype (P<0.01 and P<0.05, respecti-

vely). Our findings provide preliminary evidence for the effect of ADR2A and

SLC6A2 gene-gene interaction on attention system in ADHD. Although these

findings need future replications, our study may contribute to understanding of

Assessment of the executive function in children and

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and the spectrum of pediatric bipolar disorder

adolescents with attention deficit hyperactivity disorder

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Executive Function (EF) refers to a set of cognitive processes necessary to

perform an effective and socially adequate behavior. Studies are interested in

determining the EF deficits in children and adolescents with disorders such as

attention deficit hyperactivity disorder (ADHD) and the spectrum of pediatric

bipolar disorder (PBD), since there is confusion about the differences in exe-

cutive dysfunction in these disorders. The aim of this study is to determine the differences in EF in children and adolescents with ADHD and PBD for diffe-

rential diagnosis. We evaluated 76 children and their parents from the Osona

region. We administered a diagnostic interview based on DSM-IV criteria and

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We-P-3028

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Method. - The performance of 17 children with ADHD on Purdue Pegboard Test

Results.- Children with ADHD do not show significant difference on simple movement speed task. On patterned movement task, children with ADHD per-

Conclusion. - The result on simple movement is consistent with previous studies. The patterned movement result, however, shows reverse pattern from existing

findings. One possibility is that participants could be mainly hyperactive type found to have less severe motor skill deficit in the previous research. Another

possible reason is neurodevelopmental difference cross ethnicities, that is Korean

Psychopathology of mother with ADHD child in Jakarta's

Introduction.- Attention Deficit/Hyperactivity Disorder (ADHD) is one of the

most common psychiatric disorders in children with manifestations of the core

symptoms, namely impulsivity, hyperactivity and concentration problems. This

disorder brings consequences to others who interact with patients, especially their parents. The nature of the characteristics of children with ADHD are

pressing, demanding, and disrupt possible cause negative reactions from other

family members and create an effect that disrupt family relationships and paren-

tal psychological functioning. Mother plays a very important role in long-term

management of children with ADHD. Therefore it is essential we also try to understand the impact of the disorder on themselves so that the management of

the corresponding mother can be given immediately to them. This study aims

to obtain data psychopathology proportion of mothers who have children with

Method.- Cross sectional study. Subjects were mother who has ADHD child

in elementary school from grade 1 to grade 6 who live together and function

as the primary caretakers of children. The subjects were randomly drawn pro-

portionally from 30 elementary schools in DKI Jakarta from Desember 2010

until April 2011. The instruments used were MINI KID, Symptom Check List

Result.- The research in this study found there were 60,4% of mother with

ADHD child who has psychopathological symptoms and the most common

Conclusion .- The finding in this study suggest the importance for screening of

mothers' psychopathological who has ADHD child on routinely. Further study is

needed to find factors related to somatization symptoms in mother with ADHD

Clinical studies of attention deficit hyperactivity disorder

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When children with ADHD start school, many issues related to adapting to a

group and interpersonal relations arise. It's extremely important to identify the

disorder during childhood and to offer support. We conducted health checks for

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(SCL)-90, and subject demographic questionnaire.

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symptom was somatization (56,7%).

(ADHD) in the infancy

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We-P-3029

ADHD and psychopathology features of mothers who have ADHD child.

children might show faster motor development than western children.

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was compared with normative data of the US children.

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formed better than normative data.

an inventory for parents to estimate the capabilities of the EF. We found significant differences in EF deficits in children with ADHD and PBD. This study will allow to look for the necessary tools and appropriate intervention for children with these disorders display their EF in any context.

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#### We-P-3033

Comparison of discontinuation risk in patients initiated on lisdexamfetamine dimesylate (LDX) vs. other medications for the treatment of attention deficit/hyperactivity disorder (ADHD): A retrospective claims analysis

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Objective.— To compare discontinuation rates in ADHD patients initiated on LDX vs. other ADHD FDA-approved medications.

Methods.- ADHD patients initiated on a new ADHD medication were selected from a large US administrative claims database. Based on age and previous treatment status, patients were classified into treatment-naïve or previously treated children and adolescents, or adults, respectively. Furthermore, based on initiated treatment, patients were classified into 7 cohorts: LDX, atomoxetine (ATX), methylphenidate long acting HCL (OROS-MPH), generic methylphenidate/dexmethylphenidate HCL short acting (MPH SA) and long acting (MPH LA), and amphetamine short acting (AMPH SA) and long acting (AMPH LA). Discontinuation rates, defined as a treatment interruption of more or equal to 30 consecutive days, during a 12-month period were compared using multivariate Cox proportional-hazards models.

Results.—Among 101,616 children and adolescents, 1-year discontinuation rates ranged between 74–96%. LDX patients had significantly lower (P < .05) discontinuation rates compared to all cohorts, except ATX (P = NS) and OROS-MPH (higher; P < .05) in treatment-naïve patients. Among 53,674 adults, 1-year discontinuation rates ranged between 76–93%. LDX patients had significantly lower discontinuation rates compared to each of the other cohorts, except AMPH LA (P = NS).

Conclusion.— In majority of comparisons LDX-treatment was associated with similar or lower risk of discontinuation compared to other ADHD medications. http://dx.doi.org/10.1016/j.neurenf.2012.04.677

## We-P-3034

Empathy and facial expression recognition in children with ADHD and non-ADHD: Effects of stimulant medication in the ADHD group

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The aims of the study were to explore trait and state empathy and facial expression recognition in 8- to 14-year-old children with Attention-Deficit/Hyperactivity Disorder (ADHD) and non-ADHD; and to assess the effects of methylphenidate (MPH) treatment on these measures in the ADHD group. In regard to trait empathy, although children with ADHD rated themselves as less empathic than the non-ADHD children, parent ratings did not indicate any significant difference between two groups. ADHD and healthy control group did not differ in their emotion labelling and empathic responding (state empathy) scores. A subgroup which consisted of ADHD children with comorbid oppositional defiant disorder showed significant deficits on measures of both trait and state empathy. MPH improved performance on measures of emphatic respon-

ding and facial expression labelling but did not affect measures of trait empathy. Positive changes in empathic skills should be a focus of treatment in children with ADHD.

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#### We-P-3035

The effectiveness of clinic based social skills training for children with ADHD or ASD in Japan

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Objective.— We develop the SST which encountered Japanese culture and practice it to children with developmental disorder in a clinic and review the efficacy. Methods.— We took SST program arranged from UCLA's program comprising a learning session, a play session and a session for parents and practiced it. SST of all ten times consists of skills to seem to be need to "Let's play with friends happily". For 85 children who participated in this SST from 2002 to 2010 in total, we reviewed a change of their social skills, behavior and self-efficacy on before/after SST and a half-year later.

Results.— The hyperkinesis and the impulsiveness in ADHD-RS (parent evaluation) were improved, but the significant improvement was absent in target skills and self-efficacy (self-evaluation). It is considered we have to strength the cooperation with a school to develop self-efficacy. On the presentation day, we consider a more detailed result and report it.

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### We-P-3036

# The children's attention project: A community-based study of ADHD symptoms in 6- to 7-year-old Australian children

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This study aimed to investigate the relationship between ADHD symptoms and family background and comorbid mental health problems, in a community-based sample of 6 to 7-year-old Australian children. In 2011 and 2012, approximately 5300 children attending 41 schools are being screened for ADHD, using the Conners' 3 ADHD index (parent and teacher report). Children screening positive for ADHD, and a matched sample screening negative, are invited to participate in the longitudinal study. The first wave of screening has been completed (n = 2731). Based on pilot data (n = 345), we anticipate that compared to controls, children screened positive for ADHD will be more likely to have younger parents, less well educated parents and to be from single parent families. We anticipate that children with ADHD will have higher rates of comorbid mental health problems than controls. These data will provide the foundation for the first Australian longitudinal study of ADHD.

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### We-P-3037

Long-term effects of methylphenidate on the cardiovascular system in children with attention deficit hyperactivity disorder