

autism present irritability symptoms, which cause severe social and familiar disturbances [2].

**Objectives:** The aim of this study was to evaluate short-term efficacy of aripiprazole in children in comparison with other antipsychotic. We include behaviors related to irritability as all kinds of aggressions, tantrums and self-injuries.

**Methods:** 90 patients were recruited. 45 of the patients received aripiprazole and 45 received other antipsychotic. The initial doses of aripiprazole was 2,5 mg/day. Doses were increase related to symptoms. The range of the doses were from 2,5 to 15 mg/day.

**Results:** From these 45 patients 12 had a relapse (26,6%) during the next two years. From the second group, 20 (44.4%) of the patients had a relapse during the next two years. Five of the aripiprazole group (11,1%) abandon treatment. From the second group twelve patients (26.6%) also abandon treatment. Prolactin rates with aripiprazole were 28.2 ng/ml for males and 14.1 ng/ml for women.

**Conclusions:** In general, the result of our research indicated that Aripiprazole was effective and generally safe and well tolerated in the treatment of irritability associated with ASD. One of the limitations was that we do not use scales in order to measure the changes.

**Disclosure:** No significant relationships.

**Keywords:** Irritability; Autism Spectrum Disorder; antipsychotic; autism

## EPV0118

### Stimulant induced Dermatological and Vascular Complications in patients with ADHD: A literature review

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**Introduction:** Methylphenidate and amphetamine are the two most widely used stimulants in managing Attention Deficit Hyperactivity Disorder (ADHD)<sup>1</sup>. Reynaud's phenomenon (RP) is a reversible distal vasoconstriction presenting with various dermatological symptoms. RP can secondarily develop after certain medications as well<sup>2</sup>.

**Objectives:** The review was undertaken to synthesize the incidence of RP within ADHD population treated with stimulants, and any causal relation of RP and stimulant-use.

**Methods:** PubMed, Psych-Info and Google Scholar were searched using these keywords: skin change, Raynaud, stimulants and methylphenidate. All relevant study types were included. Results were synthesized narratively.

**Results:** Initial search yielded 240 articles with 5 articles fulfilling our inclusion criteria. One was retrospective case-controlled study while remaining 4 were case reports. Six cases were identified with an age of 12-19 years, who presented with RP after being treated

with methylphenidate-or-dextroamphetamine. In one case, multiple clinical signs of RP were seen with cold distal fingers, transient color changes and even frank ulceration<sup>3-6</sup>. In two cases, it was seen that RP was dose-dependent with stimulant use and got resolved after decreasing the dosage respectively. In case-control study, 32 cases with RP and 32 controls were enrolled. The results showed a statistically significant association ( $\chi^2 = 5$ ,  $p=0.01$ ) between RP and past-or-current stimulant usage.<sup>7</sup>

**Conclusions:** The literature review suggests weak evidence of the association between RP and stimulant use but no evidence of any causal link. Further studies are needed to identify characters that can predict this adverse effect in vulnerable ADHD individuals.

**Disclosure:** No significant relationships.

**Keywords:** stimulants; vascular complications; ADHD; Reynaud's phenomenon

## EPV0119

### Mental health and academic performance in a cohort of first year primary school children in Chile.

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**Introduction:** Psychiatric disorders are common in children, and academic attainment is lower in children with psychiatric disorders. There are few data about the occurrence of mental health problems and the academic attainment among children in Chile.

**Objectives:** To determine the occurrence of mental health problems and its association with academic attainment in first-year students of elementary schools in Chile

**Methods:** The study was conducted in 39 urban and rural public elementary schools in Chile in 2019. The academic performance was measured using the Woodcock Muñoz IV Battery and the Corsi Bock-Tapping test. Mental health was assessed using the self-report Dominique Interactive and Strengths in children and Difficulties Questionnaire (SDQ) instruments in their parents and teachers. A triangulation of information was conducted between different informants.

**Results:** Overall 610 children were included in the analysis (mean age 7.10 years (SD=0.58), 51% women, 36% from rural area). A higher score in mathematics and reading was negatively correlated to a higher score in emotional symptoms, hyperactivity and peer relationship difficulties, separately, based on both teacher- and parent-reported SDQ. The correlation coefficient between reading scores with Dominique Interactive and Strengths externalizing symptoms was -0.22 ( $p<0,05$ ). A higher maternal education level was associated with higher education attainment in their children ( $p <0,05$ ). There was no association between rurality and children's mental health symptoms.

**Conclusions:** The current results can inform local stakeholders in Chile about the importance of mental health at a very early age.

**Disclosure:** No significant relationships.

**Keywords:** Child; mental health; Academic attainment; Chile