Relación entre la variabilidad intra individual de los tiempos reacción y la inhibición de la respuesta en adolescentes y adultos con TDAH de la ciudad de Barranquilla

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RESUMEN

El Trastorno por Déficit de atención e hiperactividad (TDAH) es un desorden del Neuro-desarrollo, cuyos principales dominios sintomáticos son: la inatención, hiperactividad e impulsividad (American Psychiatric Association, 2013). Estos síntomas se caracterizan por ser persistentes e inapropiados para la edad cronológica y se presentan en diferentes contextos donde se desarrolla un individuo (familiar, social, laboral y/o escolar) (Okumura et al., 2019). La evidencia sugiere que estos síntomas, persisten de manera diferenciada a lo largo del ciclo vital (Lubar et al., 1995; Shallice et al., 2002).

Los estudios longitudinales, revelan que el deterioro funcional debido a los síntomas del TDAH continúa hasta la adolescencia y la edad adulta para la mayoría de las personas. Y están asociados con resultados adversos como: la deserción académica y/o laboral, adicciones, inestabilidad emocional, problemas adaptativos, entre otros (Canals et al., 2018; Kofler et al., 2013).

Hasta el momento no ha sido posible especificar un perfil neuropsicológico que defina a los sujetos con TDAH, más allá de las definiciones categoriales, pues la evidencia sustenta una

alta heterogeneidad a nivel neurofisiológico (estructural, funcional) y cognitivo, a lo largo del ciclo vital (Halperin & Schulz, 2006; Hinshaw, 2018; Nigg et al., 2020).

Por tanto, actualmente se entiende al TDAH como una condición compleja y heterogénea, en donde se hace importante identificar los sustratos neuropatológicos y neuropsicológicos que juegan un rol importante en la expresión de la sintomatología del TDAH hasta la adultez. Ya que, por efectos madurativos, los síntomas "característicos" del cuadro se hacen menos evidentes, volviendo más complejo el diagnóstico y por tanto las propuestas de tratamiento neuropsicológico en adolescentes y adultos (Kaiser, A. 2021).

Tanto la inconsistencia o variabilidad intra-individual (IIV-RT), como los déficits en la inhibición de la respuesta, son características conductuales típicas del desempeño de los sujetos con TDAH, desde niños hasta adultos, con altos índices de replicabilidad en diferentes estudios, bajo distintas condiciones experimentales (Go/ no go, N-back task, Stop signal, Stroop etc) (Adamo et al., 2019 ; Berberat et al., 2021; Castellanos et al., 2005; Galloway-Long & Huang-Pollock, 2018; Heijtz et al., 2007; Karalunas & Huang-Pollock, 2013; Ram et al., 2005 ; C. Leth-Steensen et al., 2000; Levy et al., 2018; Nilchian, 2019; Tarantino et al., 2013).

A pesar de la evidencia sobre la persistencia hasta la edad adulta de los déficits en estas dos variables (la respuesta inhibitoria y de una mayor variabilidad de los tiempos de reacción) en sujetos con TDAH y de la existente evidencia neurofisiológica de que la variabilidad (IIV-RT) y la inhibición de la respuesta se ven afectadas por los fármacos cuyo mecanismo de acción son los sistemas dopaminérgicos y noradrenérgicos (ambos implicados en la fisiopatología del TDAH) sustentando la posible relación entre estas dos variables y su rol en la expresión del TDAH . (Chuang, W. C., Yeh, C. B., Huang, W. S.,2017; Epstein, J. N.,et al, 2011; Fredriksen et al., 2021). Poco se ha profundizado en cuanto a la relación entre estas dos variables, en adolescentes y adultos (Gmehlin et al., 2014; Gu et al., 2013; Tarantino et al., 2013).

Teniendo en cuenta las limitaciones a nivel de muestra y metodología de los estudios revisados y la relevancia que ambas variables tienen a nivel genético, neurofisiológico y conductual en la fisiopatología del TDAH , el presente trabajo investigativo tuvo como objetivo determinar la relación entre la variabilidad intra-individual de los tiempos de reacción (IIV-RT) y la respuesta inhibitoria, en adolescentes y adultos afectados (no medicados) y no afectados con TDAH de la ciudad de Barranquilla y su área metropolitana, a quienes se les aplicó una tarea tipo Go/no go de dos fases. Esto se realizó teniendo en

cuenta las limitaciones a nivel de muestra y metodología de los estudios revisados al respecto.

Los datos que se analizaron en este estudio pertenecen al Grupo Neurociencias del Caribe de la Universidad Simón Bolívar y cuenta con un total de 408 sujetos pertenecientes a 120 familias nucleares de la ciudad de Barranquilla y su área metropolitana, comprendidos en un rango de edades de los 6 a 60 años. Los criterios de inclusión y exclusión aplicados sobre esta base de datos serán especificados en el apartado de metodología.

Palabras clave: TDAH, inhibición de la respuesta, variabilidad de los tiempos de reacción, correlación, edad.

ABSTRACT

Attention Deficit Hyperactivity Disorder (ADHD) is a Neurodevelopmental disorder, whose main symptom domains are: inattention, hyperactivity and impulsivity (American Psychiatric Association, 2013). These symptoms are characterized by being persistent and inappropriate for chronological age and occur in different contexts where an individual develops (family, social, work and/or school) (Okumura et al., 2019). Evidence suggests

that these symptoms persist in a differentiated manner throughout the life cycle (Lubar et al., 1995; Shallice et al., 2002).

Longitudinal studies reveal that functional impairment due to ADHD symptoms continues into adolescence and adulthood for most people. And they are associated with adverse outcomes such as: academic and/or job dropout, addictions, emotional instability, adaptive problems, among others (Canals et al., 2018; Kofler et al., 2013).

Until now, it has not been possible to specify a neuropsychological profile that defines subjects with ADHD, beyond categorical definitions, since the evidence supports a high degree of heterogeneity at the neurophysiological (structural, functional) and cognitive levels, throughout the life cycle. (Halperin & Schulz, 2006; Hinshaw, 2018; Nigg et al., 2020).

Therefore, ADHD is currently understood as a complex and heterogeneous condition, where it is important to identify the neuropathological and neuropsychological substrates that play an important role in the expression of ADHD symptoms until adulthood. Since, due to maturational effects, the "characteristic" symptoms of the condition become less evident, making the diagnosis more complex and therefore the proposals for neuropsychological treatment in adolescents and adults (Kaiser, A. 2021).

Both inconsistency or intra-individual variability (IIV-RT), as well as deficits in response inhibition, are typical behavioral characteristics of the performance of subjects with ADHD, from children to adults, with high rates of replicability in different studies, under different experimental conditions (Go/ no go, N-back task, Stop signal, Stroop etc) (Adamo et al., 2019; Berberat et al., 2021; Castellanos et al., 2005; Galloway-Long & Huang-Pollock , 2018; Heijtz et al., 2007; Karalunas & Huang-Pollock, 2013; Ram et al., 2005; C. Leth-Steensen et al., 2000; Levy et al., 2018; Nilchian, 2019; Tarantino et al ., 2013).

Despite the evidence on the persistence until adulthood of deficits in these two variables (inhibitory response and greater variability in reaction times) in subjects with ADHD and the existing neurophysiological evidence that variability (IIV -RT) and response inhibition are affected by drugs whose mechanism of action is the dopaminergic and noradrenergic systems (both involved in the pathophysiology of ADHD), supporting the possible relationship between these two variables and their role in the expression of ADHD . (Chuang, W. C., Yeh, C. B., Huang, W. S., 2017; Epstein, J. N., et al, 2011; Fredriksen et al., 2021). Little has been studied in depth regarding the relationship between these two variables, in adolescents and adults (Gmehlin et al., 2014; Gu et al., 2013; Tarantino et al., 2013).

Taking into account the limitations at the sample level and methodology of the studies reviewed and the relevance that both variables have at the genetic, neurophysiological and behavioral level in the pathophysiology of ADHD, the present research work aimed to determine the relationship between intra- of the reaction times (IIV-RT) and the inhibitory response, in adolescents and adults affected (not medicated) and not affected with ADHD in the city of Barranquilla and its metropolitan area, to whom a Go/ I don't go two-phase. This was done taking into account the limitations at the sample level and methodology of the studies reviewed in this regard.

The data analyzed in this study belong to the Caribbean Neuroscience Group of the Simón Bolívar University and has a total of 408 subjects belonging to 120 nuclear families in the city of Barranquilla and its metropolitan area, ranging in age from 6 to 60 years. The inclusion and exclusion criteria applied to this database will be specified in the methodology section.

Key Words: ADHD, response inhibition, reaction time variability, correlation, age.

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