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Manuscript NO: 61768

Manuscript Type: CASE REPORT

Melatonin as an Adjuvant Therapy for an Obese Child with a Variant of MC4R Gene Showing Epilepsy and Disordered Sleep: A Case Report

Child with variant of MC4R Gene

Abstract

BACKGROUND

Abnormalities in the *melanocortin receptor 4 (MC4R)* gene often lead to obesity, but are rarely associated with other conditions such as epilepsy and sleep disorder.

CASE SUMMARY

Here, we present a case of a male obese child with a heterozygous variant in *MC4R* (c.494C>A p.Arg165Gln) inherited from his father who presented with

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Thus, the use of melatonin as adjuvant therapy with the currently approved medication (e.g., SSRIs) may be the right pharmacological approach for the management of patients with FMS [25]. Moreover ...

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Sleep loss and **sleep** disorders are among the most common yet frequently overlooked and readily treatable health problems. It is estimated that 50 to 70 million Americans chronically suffer from a disorder of **sleep** and wakefulness, hindering daily functioning and adversely affecting health and longevity (NHLBI, 2003). Questions about **sleep** are seldom asked by physicians (Namen et al., 1999, ...

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A **case report** has also showed a co-occurrence of ADHD and hyperphagia with **MC4R** mutations

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