

Sleep in children with OMAS: A to 💤 💤

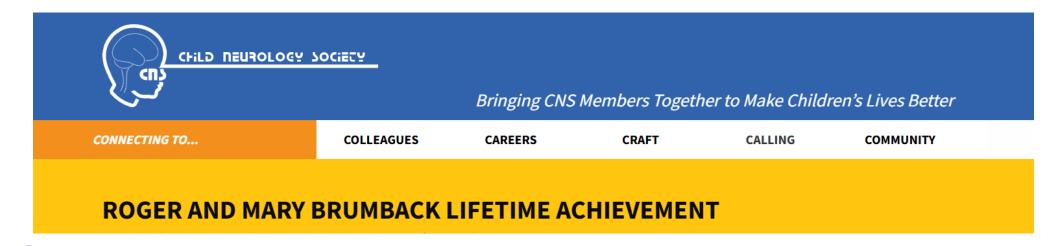
Yasmin Khakoo, MD, FAAN, FCNS, FAAP (she/hers) Child Neurology Director, MSK Kids International Workshop on Opsoclonus Myoclonus Ataxia Syndrome, Oxford UK April 10-12, 2025





- Patients, families/caregivers, colleagues
- OMSLife The Dancing Eyes Syndrome Support Trust and The OMSLife Foundation
- The sleep team of OMSLife (Kelsey, Scott, Bhavna, Hannah, Aaron, Tom, Mike)
- Dr. Wendy Mitchell





Disclosures

OMSLife: Travel, support for studies

Little Eric's Foundation & Reid's Wolfpack support MSK Kids Neuro-oncology

NIH Award #R25CA020449 449 (MSK Summer/Pipeline Student)

Editor-in-Chief Pediatric Neurology Jan 2022-Dec 2025

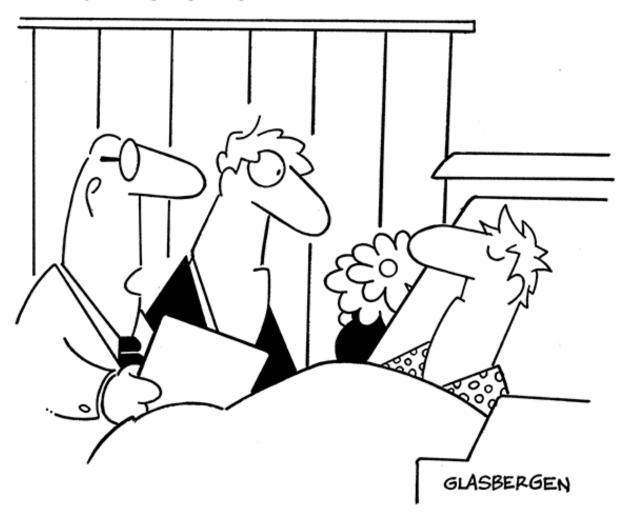
CancerCrusher Dec 2024-2025

Child Neurology Society President-Elect Oct 2024-Oct 2028





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"He's in a Powerpoint-induced coma."



Solomon and Chutorian

The New England Journal of Medicine NEJM Evidence NEJM AI NEJM Catalyst



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Opsoclonus and Occult Neuroblastoma

Authors: Gail E. Solomon, M.D., and Abe M. Chutorian, M.D. Author Info & Affiliations

Published August 29, 1968 | N Engl J Med 1968;279:475-477 | DOI: 10.1056/NEJM196808292790907 VOL. 279 NO. 9



2023 Conference: Future directions: Obstructive sleep apnea

Consider sleep studies in children with residual attention/behavior

> Front Psychiatry. 2022 Jul 22;13:926153. doi: 10.3389/fpsyt.2022.926153. eCollection 2022.

Prevalence of high-risk for obstructive sleep apnea in attention deficit hyperactivity disorder children referred to psychiatry clinic and impact on quality of life

Tipkamol Prajsuchanai¹, Archwin Tanphaichitr², Tikumporn Hosiri³, Kitirat Ungkanont², Wish Banhiran², Vannipa Vathanophas², David Gozal⁴

Affiliations + expand

PMID: 35935414 PMCID: PMC9353399 DOI: 10.3389/fpsyt.2022.926153



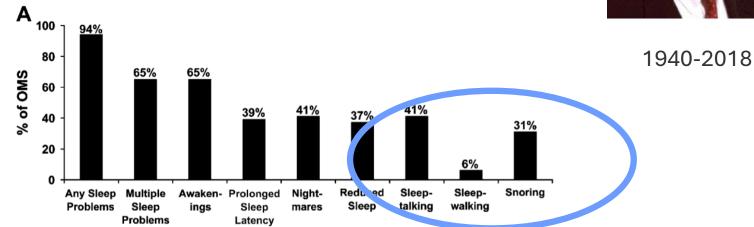
FULL TEXT LINKS

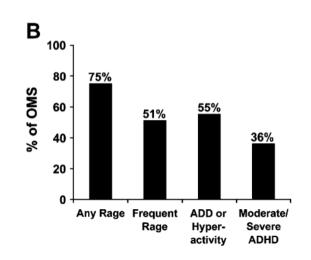


Sleep disturbance and rage attacks in opsoclonusmyoclonus syndrome: response to trazodone

Michael R Pranzatelli¹, Elizabeth D Tate, William S Dukart, Mary Jo Flint, Michael T Hoffman, Amy E Oksa





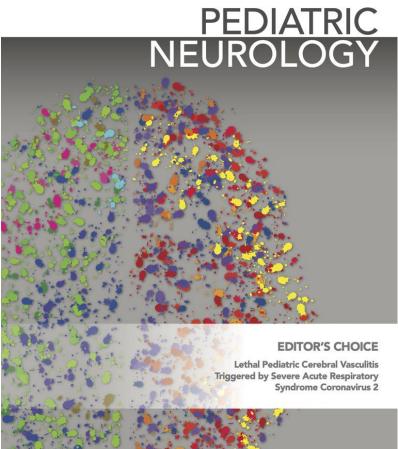


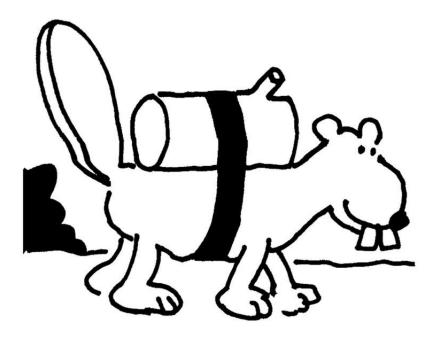


Editor-in-Chief



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Pediatric Neurology 158 (2024) 128-134



Research Paper

Inaugural Patient-Reported Registry of Pediatric Opsocl Myoclonus-Ataxia Syndrome: Presentation, Diagnosis, a of 194 Patients

Sandra Jimenez Giraldo, MD^{a, 1}, Michael Michaelis, BS^{b, 1}, Lauren Kerr, Christopher Cortina, MS^d, Bo Zhang, PhD^{c, d, *}, Mark P. Gorman, MD^{c,}

^a Division of Child Neurology, Department of Pediatrics, Hasbro Children's Hospital, Warren Alpert School of Medicine, Brow Island

^b The OMSLife Foundation, Cypress, Texas

^c Department of Neurology, Boston Children's Hospital, Harvard Medical School, Boston, Massachusetts

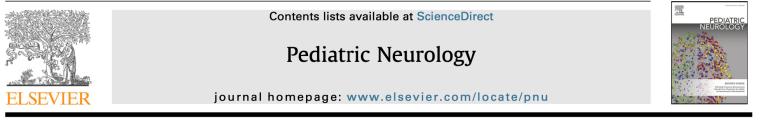
^d Biostatistics and Research Design Center, Institutional Centers for Clinical and Translational Research, Boston Children's Ho Boston, Massachusetts

MSK Kids

Age, symptoms, and severity at OMAS onset (N = 166)

OMAS symptom onset (Table 4, Fig) peaked at age 12 to 18 months (27.8%) with an older age in females (22 months [15 to 31] vs 18 [14 to 23], P = 0.0223) and no significant differences between the tumor and no tumor subgroups. Ataxia was the most frequent symptom at onset (21.7%), followed by opsoclonus (58.9%), myoclonus (56.6%), sleep disturbances (43.4%), the emore (43.4%), the emperature (37.1%), and vomiting (22.5%). Myoclonus was more frequent in the tumor subgroup (65.9% vs 44.9%, P = 0.0059) (Supplemental Table 1). Nearly 40% of patients with OMAS did not have opsoclonus or myoclonus as one of the initial presenting symptoms. OMAS severity scale score was ≥ 15 in 41.8%, 10 to 14 in 28.9%, 5 to 9 in 13.9%, and 0 to 6 in 1.0% of patients. Severity of individual signs and symptoms did not differ between the tumor

Pediatric Neurology 156 (2024) 51-52



Editorial

Shaping Brighter Futures: The Transformative Impact of Sleep on Children and Adolescent Well-Being



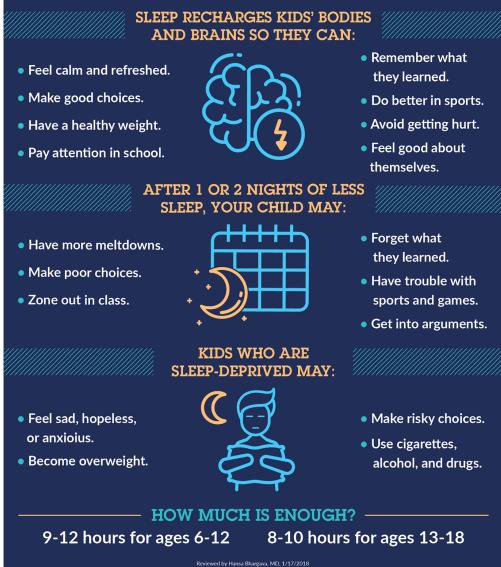
Joanna Fong-Isariyawongse, MD^{a,*}, Sanjeev V. Kothare, MD^{b,c} ^a Associate Professor of Neurology, University of Pittsburgh, Pittsburgh, Pennsylvania

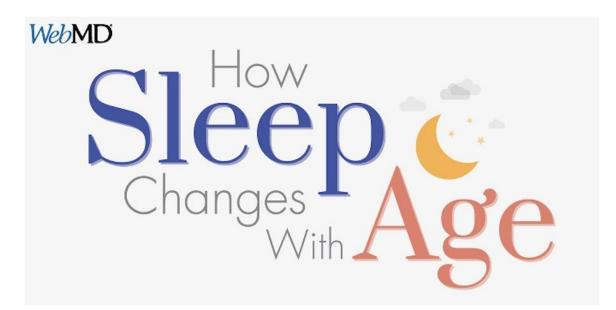
^b Division of Pediatric Neurology, Northwell, Cohen Children's Medical Center, New York, New York

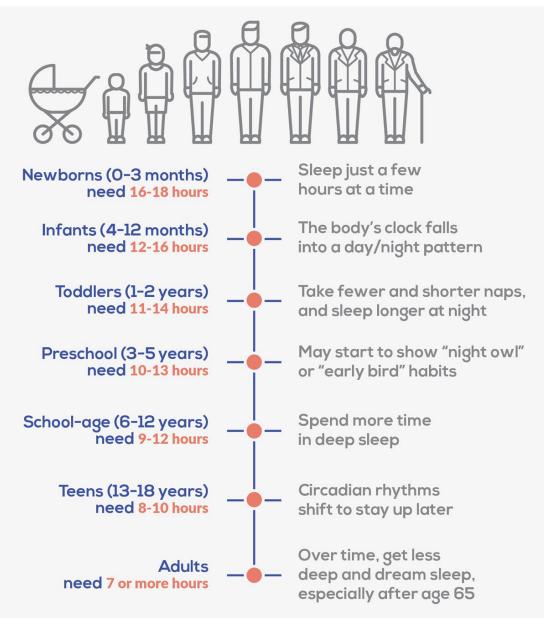
^c Professor of Neurology & Pediatrics, Zucker School of Medicine at Hofstra/Northwell, Hempstead, New York







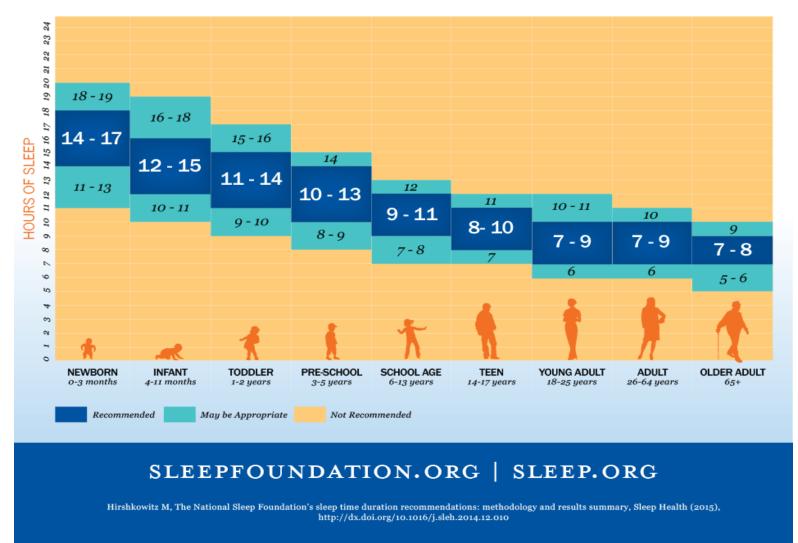




Reviewed by: Neha Pathak, MD, 11/20/2018 SOURCES: CDC. National Academies Press. Harvard Medical School Division of Sleep Medicine. UCLA Health. Cleveland Clinic.

S. NATIONAL SLEEP FOUNDATION

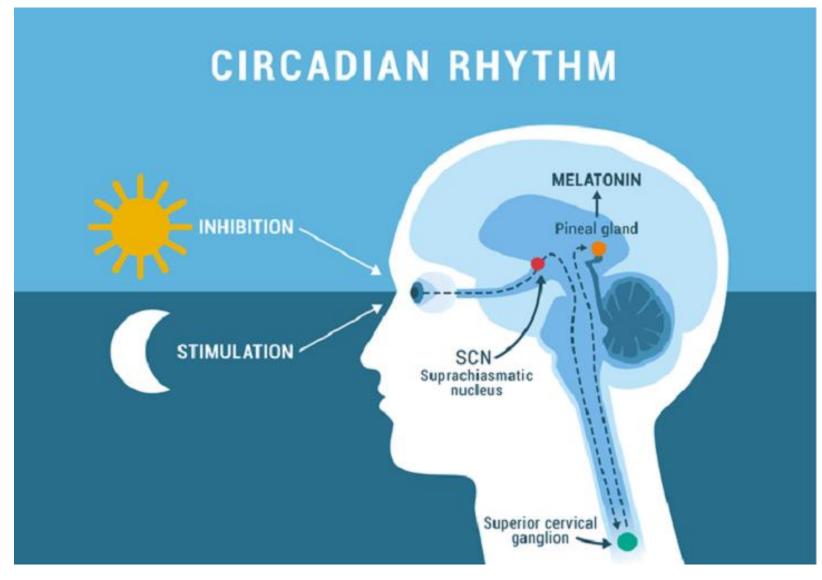
SLEEP DURATION RECOMMENDATIONS





Slide courtesy of Dr. Sanjeev Kothare

Circadian Rhythm



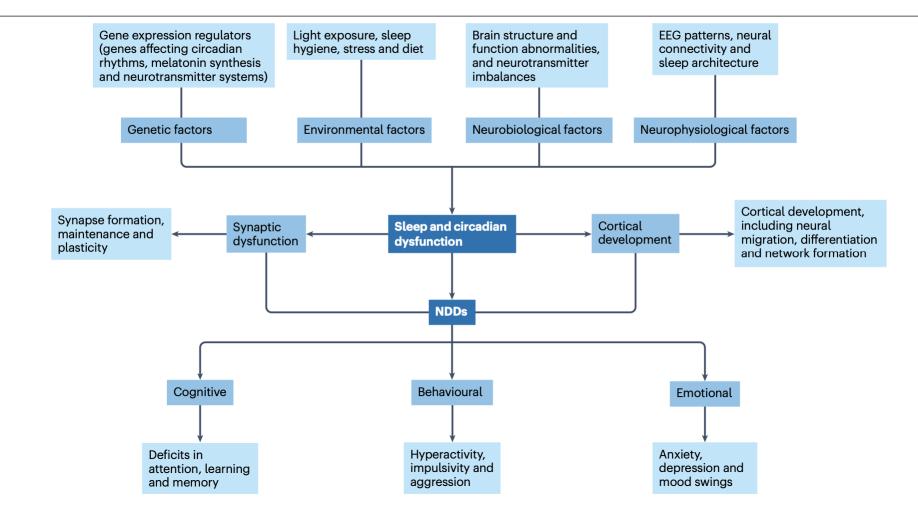


Gagandeep Munday

Sleep and circadian disturbances in children with neurodevelopmental disorders

<u>Oliviero Bruni</u>[™], <u>Maria Breda</u>, <u>Valeria Mammarella</u>, <u>Maria Paola Mogavero</u> & <u>Raffaele Ferri</u>

Nature Reviews Neurology 21, 103–120 (2025) Cite this article





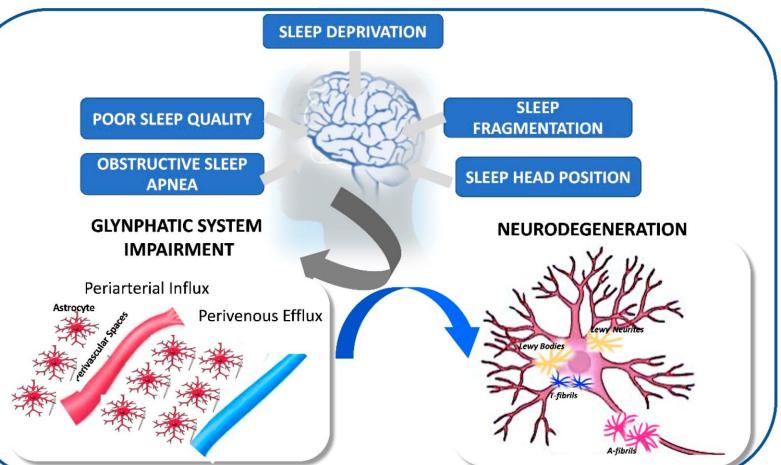
"Glymphatic" Neurodegeneration: Is Sleep the Missing Key?

by Luigi Ferini-Strambi ^{1,2,*} 🖂 🔟 and Maria Salsone ^{1,3} 🖂

- ¹ Division of Neuroscience, Vita-Salute San Raffaele University, 20132 Milan, Italy
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- ³ IRCCS Istituto Policlinico San Donato, 20097 San Donato Milanese, Italy
- * Author to whom correspondence should be addressed.

Clin. Transl. Neurosci. 2024, 8(2), 23; https://doi.org/10.3390/ctn8020023

Controversial: maybe **less** "brain cleaning" during sleep





Obstructive sleep apnea (OSA)

Characterized by:

- 1. Episodes of complete (apnea) or partial (hypopnea)
- Collapse of the upper airway → decreased O2 saturation or arousal from sleep
- 3. <u>https://www.ncbi.nlm.nih.gov/books/NBK459252/</u>

Obstructive Sleep Apnea

Jennifer M. Slowik; Abdulghani Sankari; Jacob F. Collen.

Author Information and Affiliations

Last Update: March 4, 2025.

Risk factors for OSA

- A. Hypotonia (OMAS? genetic conditions, metabolic disruptions)
- B. Elevated BMI
 - 1) Steroids
 - 2) Decreased mobility 2° motor challenges
- C. Tonsillar/adenoidal hypertrophy (seasonal allergies, chronic infections)



Signs of OSA

- Behavior issues, irritability
- Poor sleep, snoring, sleepwalking, choking
- Excessive daytime sleepiness (EDS)

Treatments of OSA

- Allergy medications
- CPAP machine
- BMI control (exercise, diet, GLP's?)
- Tonsillectomy/adenoidectomy

Untreated OSA

Hypertension/Cardiac failure
MSK Kids



OMAS: A team sport

Pediatric Neuro-oncology



Khakoo/Fisher



2023 OMSLife Caregiver Conference



