

La santé mentale

CAMBO-LES-BAINS
VENDREDI 19 SEPTEMBRE 2025



Troubles du sommeil

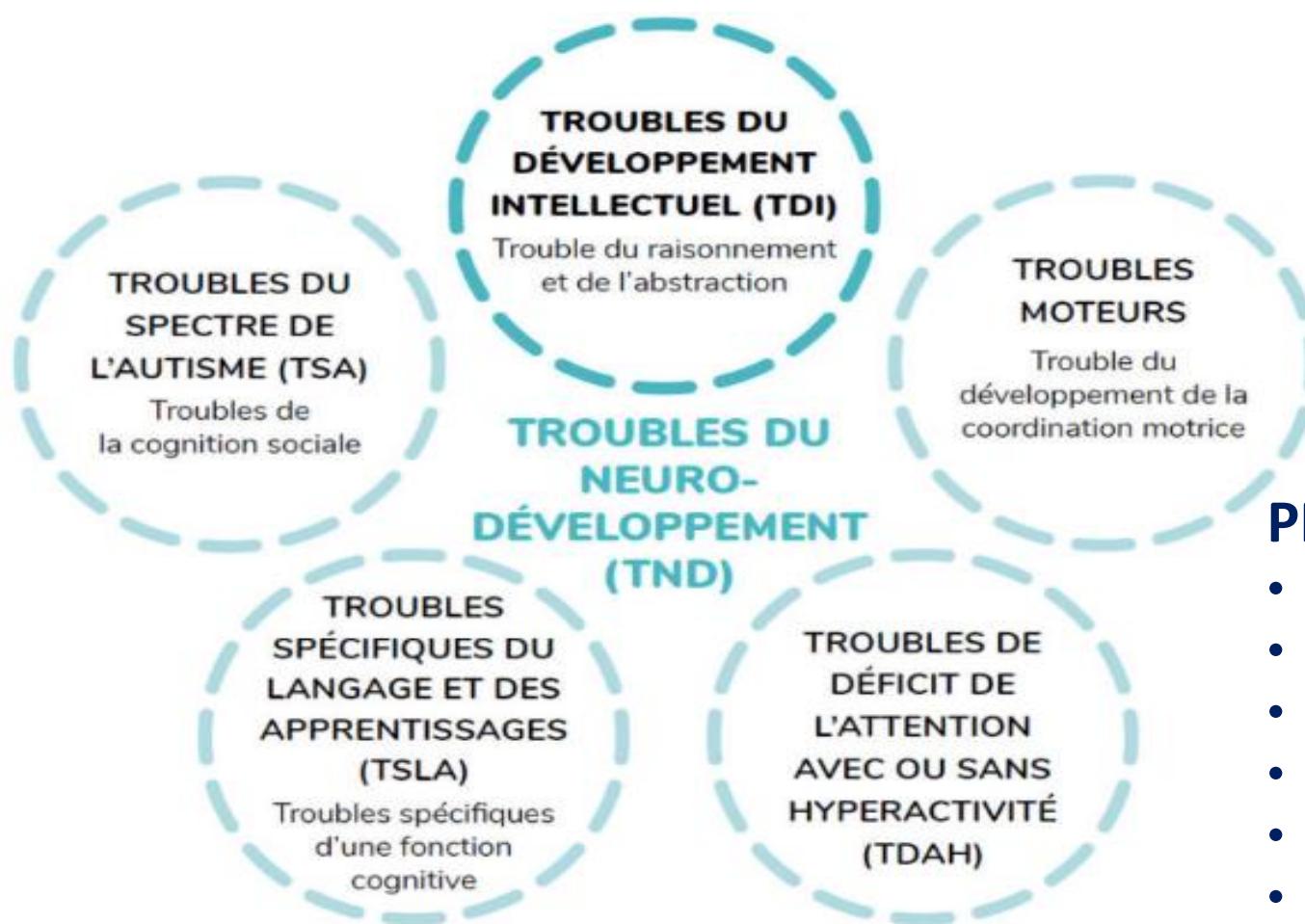
Troubles du neurodéveloppement

Stéphanie Bioulac

**Service de Psychiatrie Universitaire de l'Enfant et l'Adolescent,
Hôpital Couple Enfant, CHU Grenoble Alpes
Université Grenoble Alpes, UMR CNRS 5105 LPNC**



Principaux Troubles du NeuroDéveloppement – TND (DSM-5/CIM11)



PREVALENCE : 8-10%

- TDAH: 5%
- TSA: 1%
- TDI: 2%
- Tr Spe App: 5-15%
- Tr Comm: 2%
- Tr Moteurs: 3-4%

TROUBLES DU NEURODÉVELOPPEMENT



ENFANT

ADULTE



Liens bidirectionnels

Troubles du sommeil aggravent les TND et vice - versa

Associations Between Sleep Duration Patterns and Behavioral/Cognitive Functioning at School Entry

Évelyne Touchette, MPs^{1,2}; Dominique Petit, PhD¹; Jean R. Séguin, PhD³⁻⁵; Michel Boivin, PhD^{6,7}; Richard E. Tremblay, PhD^{2-5,8}; Jacques Y. Montplaisir, MD, CRCP(c), PhD^{1,5}

2007

1492 sujets nés entre 1997-1998 Canada



Durée de sommeil
Questionnaires

2.5 ans

6 ans

Données cognitives

PPVT-R

5 ans

Block design subtest performance

6 ans

Données comportementales

HA-IMP, Inattention

6 ans

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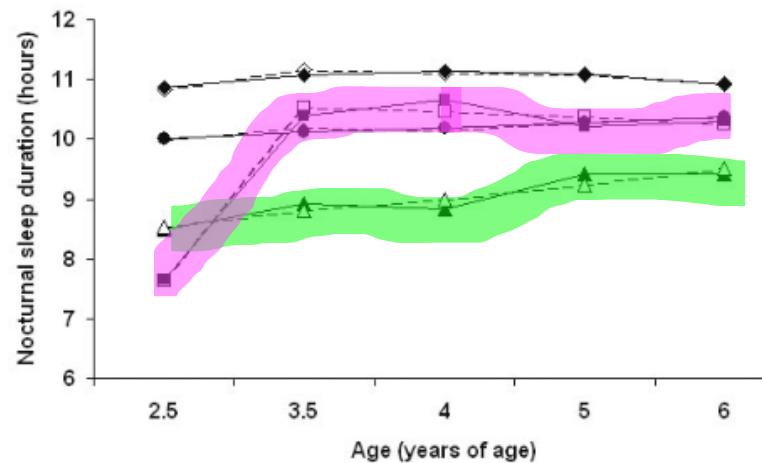


Figure 1—Patterns of sleep duration at 2.5, 3.5, 4, 5 and 6 years of age: : short persistent sleepers (n=109; 6.0%), : short increasing sleepers (n=88; 4.8%), : 10-hour persistent sleepers (n=920; 50.3%), and : 11-hour persistent sleepers (n=712; 38.9%). Predicted (dashed lines) versus observed (solid lines) trajectories. Data courtesy of the Quebec Institute of Statistics.

4 patterns sommeil

- Court dormeur persistant < 10h avant 6 ans
- Court dormeur puis augmente vers 41 mois
- 10h/ nuit
- 11h/Nuit

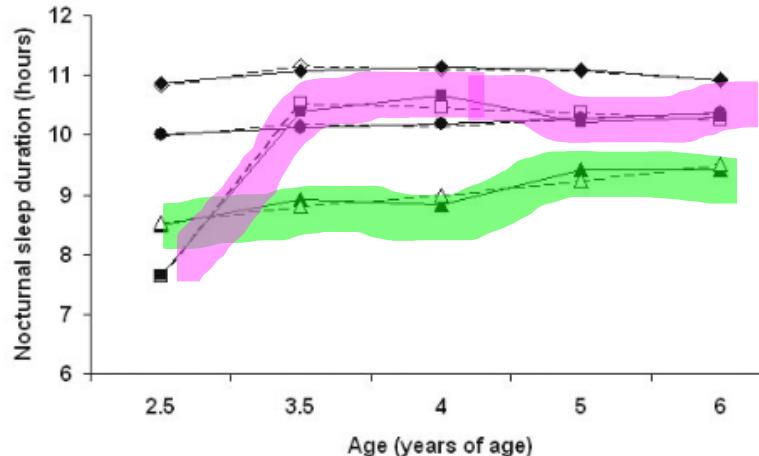


Figure 1—Patterns of sleep duration at 2.5, 3.5, 4, 5 and 6 years of age: : short persistent sleepers (n=109; 6.0%), : short increasing sleepers (n=88; 4.8%), : 10-hour persistent sleepers (n=920; 50.3%), and : 11-hour persistent sleepers (n=712; 38.9%). Predicted (dashed lines) versus observed (solid lines) trajectories. Data courtesy of the Quebec Institute of Statistics.

- Court dormeur persistant < 10h avant 6 ans
- Court dormeur puis augmente vers 41 mois

Associations entre court temps de sommeil

- Comportements externalisés
 - Scores élevés de Hyperactivité/ Impulsivité (p=.001)
- Faibles performances cognitives
 - PPVT-R p=.002
 - Block design subtest performance p=.004

Associations Between Sleep Duration Patterns and Behavioral/Cognitive Functioning at School Entry

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Court temps de sommeil notamment avant 41 mois associés

- Comportements externalisés
- Faibles performances cognitives

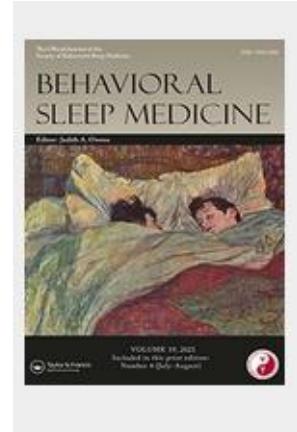
Importance de dormir 10h/nuit dès la petite enfance

Night-sleep Duration Trajectories and Behavior in Preschoolers: Results from a Prospective Birth Cohort Study

Eve Reynaud , Anne Forhan, Barbara Heude, Marie-Aline Charles & Sabine Plancoulaine 

Pages 445-457 | Published online: 04 Jun 2020

 Check for updates



- Cohorte de naissance EDEN
- 1021 enfants

2 ans

3 ans

5-6 ans



Evaluation comportementale parents: SDQ

Dimensions: Tr émotionnels, Tr du comportement, Hyperactivité, Relation avec les pairs, Comportements prosociaux

Trajectoires de sommeil

- SS: short-sleep duration trajectory
- MLS: medium-low-sleep duration trajectory
- MHS: medium-high-sleep duration trajectory
- LS: long-sleep duration trajectory
- CS: changing-sleep duration trajectory



Problèmes d'hyperactivité et d'inattention

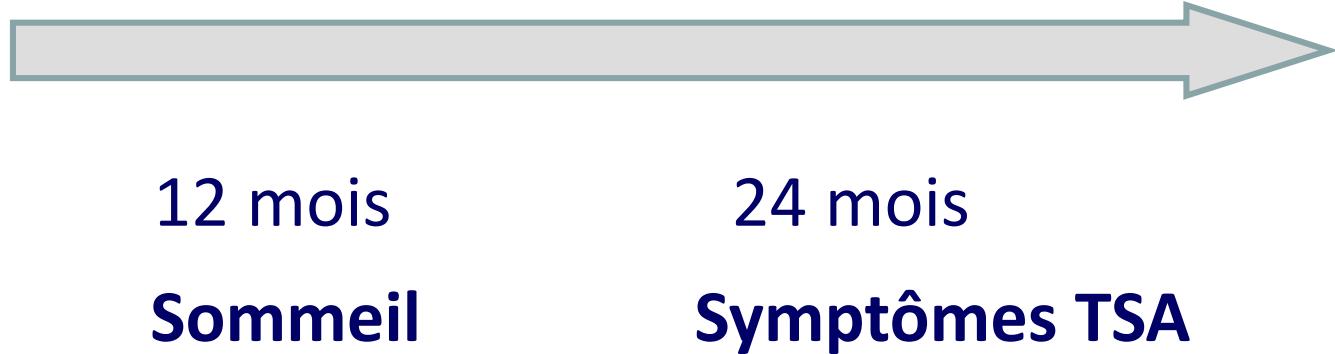
- Chez les garçons:
 - Trajectoire courte durée de sommeil
(OR 2.69 [1.18–6.16], $p = .03$)
 - Trajectoire moyenne à faible durée de sommeil
(OR 1.95 [1.25–3.03], $p = .003$)
- Chez la fille:
 - Trajectoire instabilité de durée de sommeil
(OR 2.79 [1.09– 7.17], $p = .03$)

Prospective Associations Between Infant Sleep at 12 Months and Autism Spectrum Disorder Screening Scores at 24 Months in a Community-Based Birth Cohort

A. K. Danny Nguyen, MSc; Laura E. Murphy, EdD; Mehmet Kocak, PhD; Frances A. Tylavsky, DrPH; Linda S. Pagani, PhD

J Clin Psychiatry 2018;79(1):16m11127

Cohorte naissance 2006-2011 1096 enfants



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Cohorte
naissance
2006-2011
1096 enfants



12 mois

Sommeil

Sommeil nocturne
Sommeil diurne
Réveils nocturnes
Latence d'Endor.

24 mois

Symptômes TSA

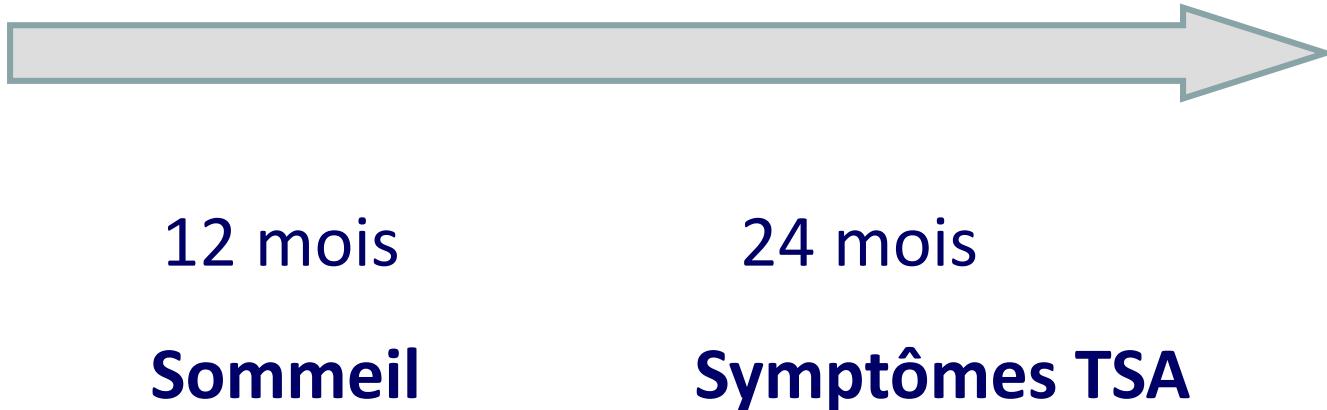
M-CHAT

Prospective Associations Between Infant Sleep at 12 Months and Autism Spectrum Disorder Screening Scores at 24 Months in a Community-Based Birth Cohort

A. K. Danny Nguyen, MSc; Laura E. Murphy, EdD; Mehmet Kocak, PhD; Frances A. Tylavsky, DrPH; Linda S. Pagani, PhD

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Cohorte naissance 2006-2011 1096 enfants



Nombre RN 1 an : associé à symptômes précoces/ à risque TSA 2 ans

($B = 0.097$, $P = .021$; 95% CI, 0.014 to 0.180)

TDS persistant à 1 an

A horizontal double-headed arrow, pointing both left and right, indicating a range or comparison.

Population vulnérable/ à risque développement TSA

Trouble du Spectre de l'Autisme

Déficits persistants

- communication
- interactions sociales
- contextes variés

- ❖ Déficit réciprocité sociale/émotionnelle
- ❖ Déficit des comportements non verbaux
- ❖ Déficit compréhension des relations

Caractère restreint et répétitif

- comportements
- intérêts
- activités

- ❖ Mouvements répétitif/stéréotypés
- ❖ Intolérance changement, routines
- ❖ Intérêts restreints/fixes, intensité, but
- ❖ Hyper ou hypo sensibilités stimuli sensoriels

Troubles du sommeil et TSA

- TDS sont les troubles **les plus fréquemment** associés au TSA:
 - 50 % à 80%
- TDS se manifestent **préocacement et persistent**

Troubles du sommeil et TSA

- TDS sont les troubles les plus fréquemment associés au TSA:
 - 50 % à 80%
- **Principales préoccupations parentales** pour lesquelles MG, pédiatres, pédopsychiatres sont consultés
- Principaux TDS
 - Insomnie
 - Rythme veille/ sommeil irrégulier

Durée réduite du temps total de sommeil

Impact des TDS chez TSA

**Répercussions des TDS
sur la famille**

**Répercussions des TDS
pour le sujet**



Impact des TDS chez TSA

Répercussions des TDS sur la famille

- Qualité de vie
- Dynamique familiale incluant la fratrie
- Vie professionnelle
- Stress parental



Répercussions des TDS pour le sujet

- Capacités cognitives: attention, apprentissages, mémoire,..
- Qualité de vie
- Augmentation des tracés comportemental conduites auto/ hétéro-agressives...

Impact des TDS chez TSA

Répercussions des TDS sur la famille

- Qualité de vie
- Dynamique familiale incluant la fratrie
- Vie professionnelle
- Stress parental



Répercussions des TDS pour le sujet

- Capacités cognitives: attention, apprentissages, mémoire,..
- Qualité de vie
- Augmentation des troubles comportemental conduites auto/ hétéro-agressives...

Majorant difficultés de la famille...

Troubles du sommeil et TSA

TDS



Intensité de la symptomatologie autistique

- Intensité tr de la communication verbale et non verbale
- Difficultés dans interactions sociales
- *TDS moins sévères chez sujets TSA de haut fonctionnement*

TROUBLES DU NEURODÉVELOPPEMENT



ENFANT



ADULTE

Très précocement liens entre sommeil et symptômes d' hyperactivité et d'inattention

TDAH

Trouble

Multidimensionnel

Expression
Comportementale

Expression Cognitive

Expression Emotionnelle

Impulsivité

Bavardage

Irritabilité

Colère

Besoin de
répéter

Agitation

Hypersensibilité

Perd - Oublie

Fautes
d'étourderies

Bougeotte

TDAH

Trouble Multidimensionnel - Neurodéveloppement

Expression
Comportementale



Expression
Cognitive

Expression
Emotionnelle



Modification de la clinique

Retard de
phase

Insomnie

Syndrome Jambes
Sans Repos

Réveils
nocturnes

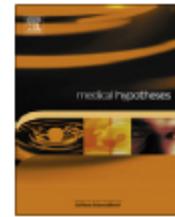
Parasomnies

Troubles Respiratoires
Obstructifs Sommeil



25%-55% des sujets avec TDAH présentent des TDS

Cortese et al, 2013; Hvolby et al, 2015



The sleep phenotypes of attention deficit hyperactivity disorder: The role of arousal during sleep and implications for treatment

Silvia Miano *, Pasquale Parisi, Maria Pia Villa

Neuroscience, Mental Health and Sense Organs Department, Chair of Pediatrics, Sleep Disorder Centre, "La Sapienza" University, II Faculty, Medicine, Rome, Italy

Hypoarousal state « primary ADHD »: « narcolepsy like »

Delayed sleep onset insomnia

Sleep disordered breathing

RLS/ PLM

Sleep epilepsy/EEG interictal epileptiform discharges

Difficultés d'endormissement

TDAH

- Expression du TDAH
 - Non compliance, comorbidité avec TOP (trouble oppositionnel avec provocation)
 - Chronotype du soir → Retard de Phase
 - Syndrome des jambes sans repos
 - Comorbidité avec autres tr psychiatriques, notamment une angoisse de séparation
 - Question du traitement psychostimulant

Phénotype associé à SJSR/ MPJ

SJSR/MPJ



Prévalence élevée chez TDAH

Golan et al, 2004, Chervin et al 2002

TDAH



Prévalence élevée SJSR

Pullent et al 2011; Chervin et al 2002

TDAH-SJSR

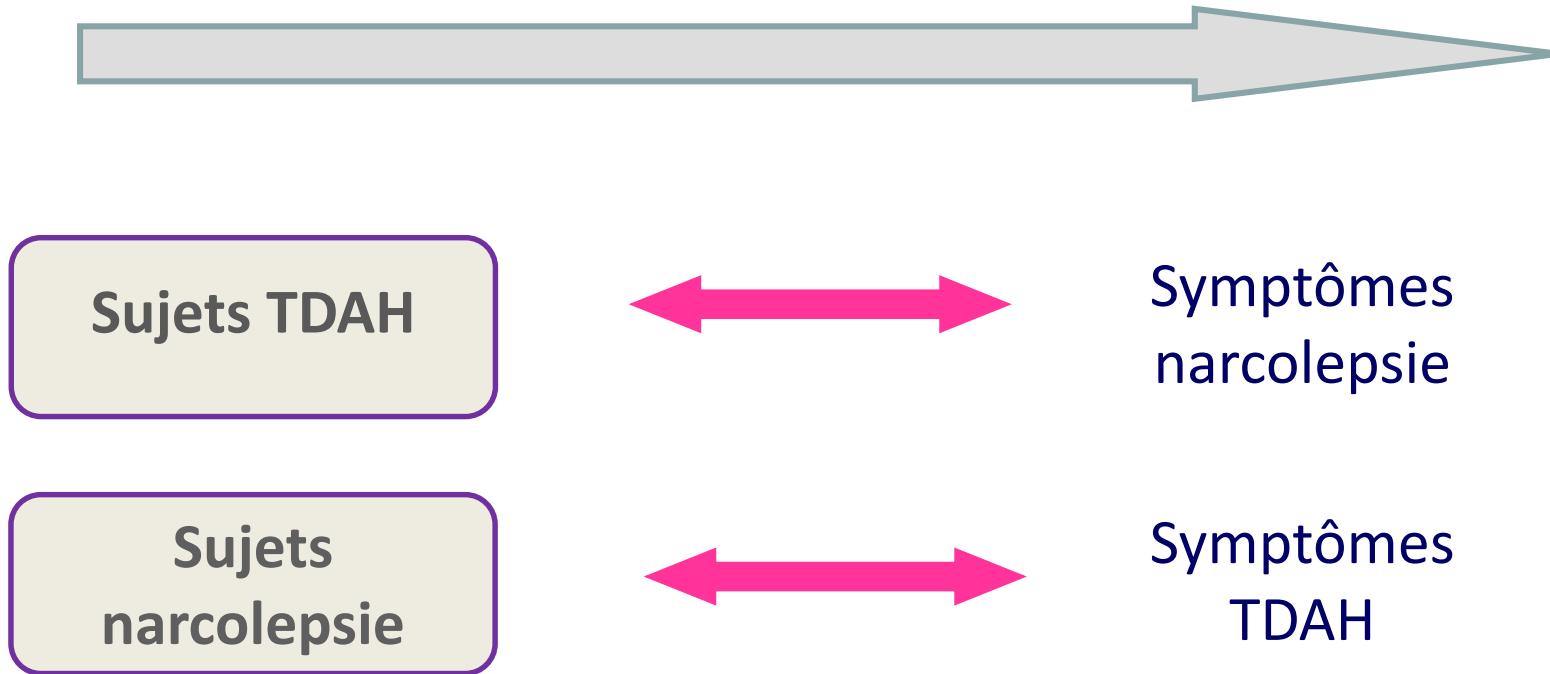


Physiopathologie commune
dopaminergique / fer

Konofal et al, 2005

TDAH et Somnolence

Approche développementale



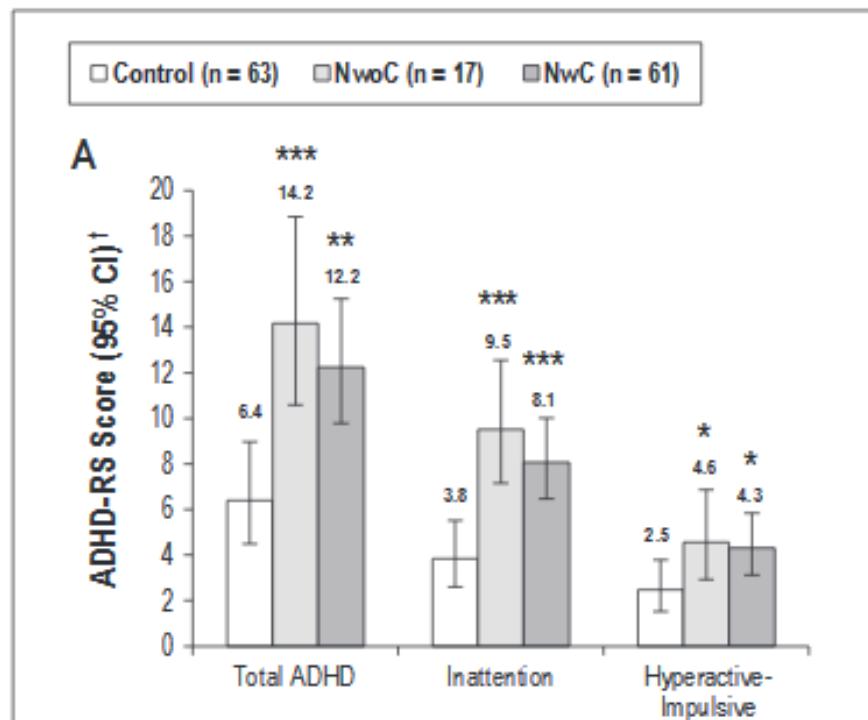
Phénotype « narcolepsy like »

Cortese et al, 2006; Lecendreux et al 2015

Sujets
narcolepsie



Symptômes
TDAH



108 sujets NC /67sujets témoins

Symptômes de TDAH

4.8% sujets controles

35.3% patients NwoC ($P < 0.001$)

19.7% patients with NwC ($P < 0.01$)



HHS Public Access

Author manuscript

J Child Psychol Psychiatry. Author manuscript; available in PMC 2020 September 01.

Published in final edited form as:

J Child Psychol Psychiatry. 2019 September ; 60(9): 1021–1031. doi:10.1111/jcpp.13061.

Sleep and Daytime Sleepiness in Adolescents with and without ADHD: Differences across Ratings, Daily Diary, and Actigraphy

Stephen P. Becker^{1,2}, Joshua M. Langberg³, Hana-May Eadeh⁴, Paul A. Isaacson¹, Elizaveta Bourchtein³

162 sujets TDAH

140 sujets Non TDAH

Moy age: 13 ans

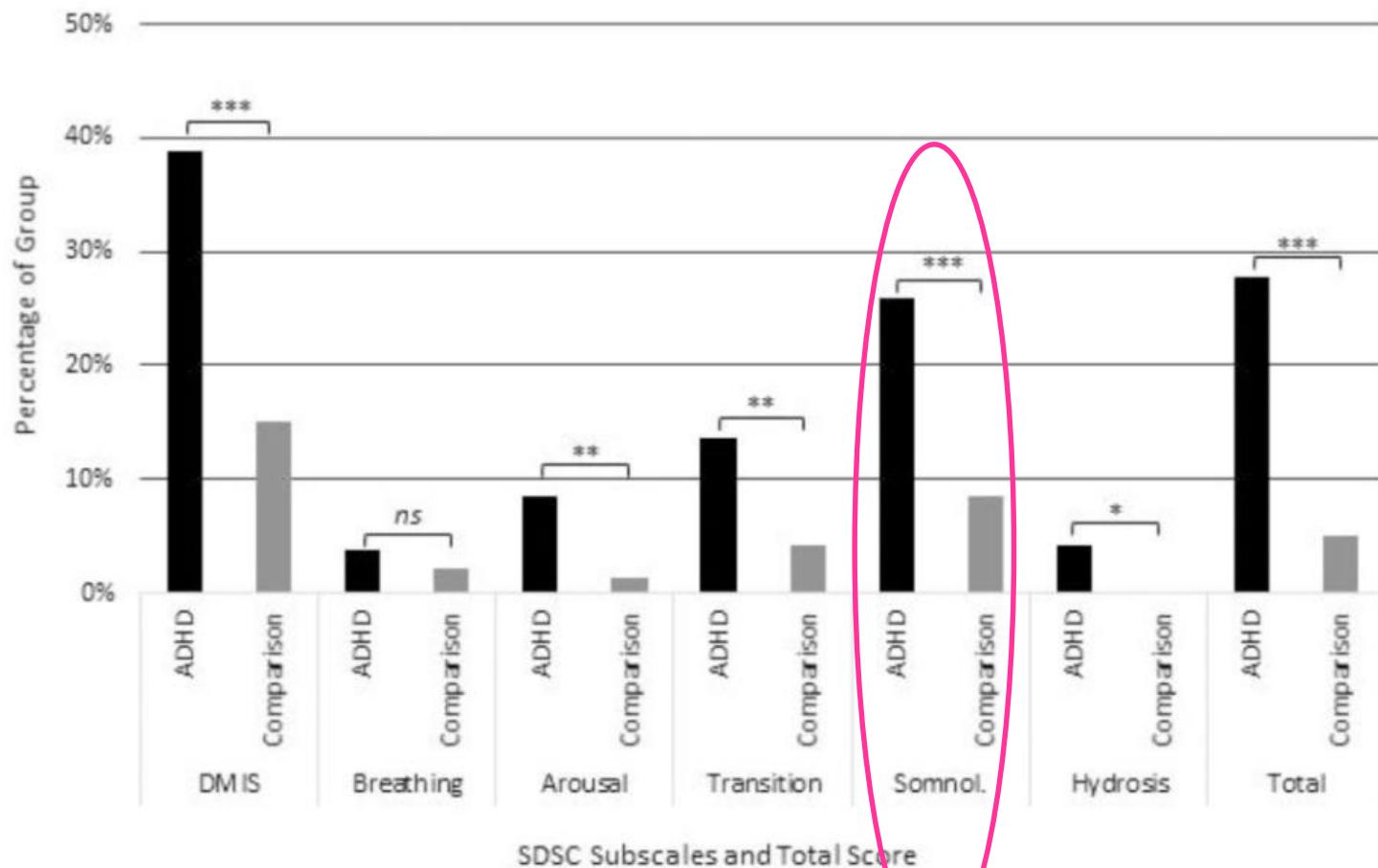


Figure 1.

Percent of adolescents with and without ADHD with clinical elevations on the Sleep Disturbance Scale for Children (SDSC)

Differences in global sleep ratings between adolescents with and without ADHD

	ADHD	Comparison	Group Differences		
	<i>M</i> ± <i>SD</i>	<i>M</i> ± <i>SD</i>	<i>t</i>	<i>p</i>	<i>d</i>
Adolescent SHS ratings					
Sleep/wake problems	18.23±6.08	15.87±4.77	3.77	<.001	.43
Daytime sleepiness	13.02±4.09	11.72±2.89	3.23	.001	.37
Parent SDSC ratings					
Initiate/maintain sleep	66.73±14.31	56.94±11.27	6.65	<.001	.76
Sleep breathing disorders	49.76±8.00	49.66±6.50	0.12	.90	.01
Disorders of arousal	51.49±9.41	49.38±5.36	2.43	.02	.28
Sleep-wake transition	53.58±13.57	48.52±9.04	3.86	<.001	.44
Somnolence (sleepiness)	61.93±16.46	54.46±11.62	4.60	<.001	.52
Hyperhydrosis	49.25±8.80	46.37±4.09	3.73	<.001	.42
Total sleep disturbance	61.71±13.50	52.79±9.29	6.76	<.001	.77
Teacher TDSQ ratings					
Daytime sleepiness	1.19±0.34	1.11±0.20	2.24	.03	.27

Note. ADHD=attention-deficit/hyperactivity disorder. SDSC=Sleep Disturbance Scale for Children. SHS=Sleep Habits Survey. TDSQ=Teacher Daytime Sleepiness Questionnaire.

Sujets
hypersomniaques



Sujets TDAH

100 sujets
hypersomniaques



61% symptômes de
TDAH



25% TDAH diagnostic

100 TDAH adultes



47% SDE



22% hypersomnies

Phénotype TDAH associé trouble respiratoire du sommeil



Bidirectionnels/ réciproques

Chevauchement des symptômes cliniques
de TDAH et SAOS

Behavioral, neurocognitive, polysomnographic and cardiometabolic profiles associated with obstructive sleep apnea in adolescents with ADHD

Kristina Puzino ¹, Elizaveta Bourchtein ¹, Susan L Calhoun ¹, Fan He ², Alexandros N Vgontzas ¹,
Duanping Liao ², Edward O Bixler ¹, Julio Fernandez-Mendoza ¹

421 adolescents

16.9 ans

LE plus longue
TTS plus court



TDAH seul
54

SAOS-seul
115

TDAH et SAOS
44

Contrôles
208

Behavioral, neurocognitive, polysomnographic and cardiometabolic profiles associated with obstructive sleep apnea in adolescents with ADHD

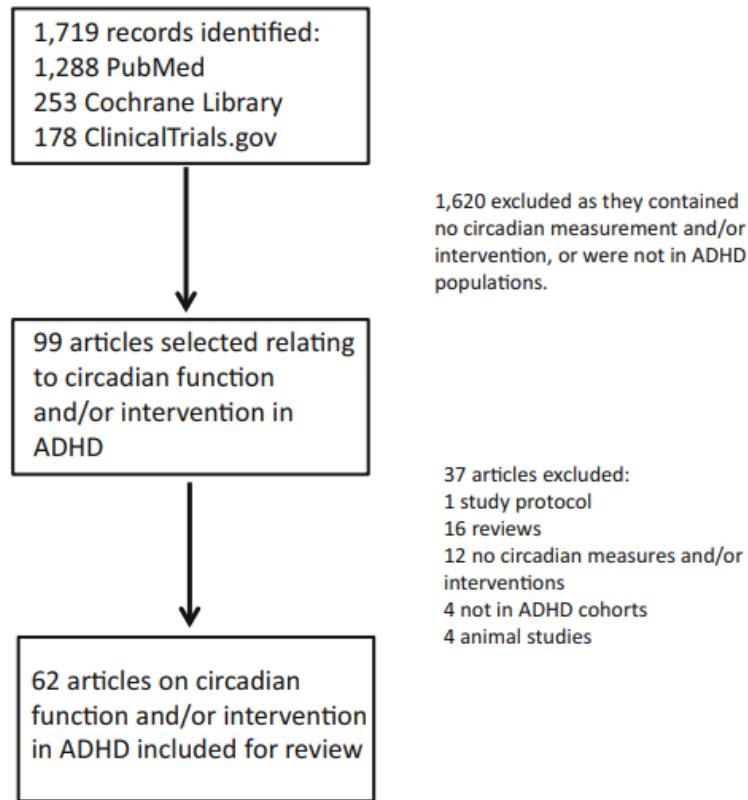
Kristina Puzino ¹, Elizaveta Bourchtein ¹, Susan L Calhoun ¹, Fan He ², Alexandros N Vgontzas ¹,
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421 adolescents
16.9 ans

TDAH seul	SAOS-seul	TDAH et SAOS	Contrôles
54	115	44	208

Biomarqueurs inflammatoires et cardio-métaboliques:
Surpoids, obésité- adiposité viscérale- syndrome métabolique-inflammation

**...Et Chronotype Vespéral
Syndrome de retard de phase...**



62 articles
25 études adultes
37 enfants et adolescents

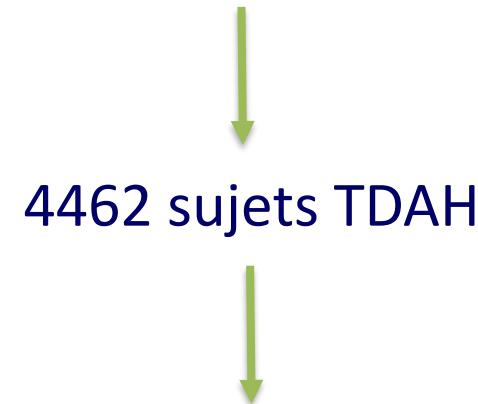


Fig. 1 Graphic representation of the study selection process

- Difficultés d'endormissement
- DLMO

Evening circadian preference is associated with sleep problems and daytime sleepiness in adolescents with ADHD

Stephen P. Becker^{1,2}  | Delna K. Kapadia³ | Chaya E. M. Fershtman⁴ |

Emma Sciberras^{5,6,7}

80 TDAH (69% M)
13-17ans

Evaluation
parents et enfants

Chronotype du soir associé:

- TDS
- Somnolence diurne excessive

Review

Efficacy and Safety of Melatonin Treatment in Children with Autism Spectrum Disorder and Attention-Deficit/Hyperactivity Disorder—A Review of the Literature

Beata Rzepka-Migut ¹  and Justyna Paprocka ^{2,*} 

¹ Department of Pediatric Neurology and Pediatrics, St. Queen Jadwiga's Regional Clinical Hospital No 2, 35-301 Rzeszów, Poland; beata-rzepka@o2.pl

² Department of Pediatric Neurology, Faculty of Medical Science in Katowice, Medical University of Silesia, 40-752 Katowice, Poland

* Correspondence: justyna.paprocka@interia.pl

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Table 2. Melatonin level assessment in the group of patients with attention-deficit/hyperactivity disorder (ADHD).

References	Number of Patients	Material	Results
Van der Heijden KB et al., 2005 [53]	87 patients with ADHD-SOI 33 patients with ADHD-noSOI	saliva	ADHD patients with concomitant chronic idiopathic insomnia at the onset of sleep presented significantly delayed DLMO and sleep phase relative to the ADHD-noSOI group.
Van Veen MM et al., 2010 [54]	34 patients with ADHD 38 controls	saliva	1. Melatonin production in the ADHD group began 83 min later than the control group. 2. Patients with ADHD showed less effective sleep and longer sleep delay.
Baird AL et al., 2012 [56]	13 patients with ADHD 19 controls	saliva	1. In the group of patients with ADHD disturbed rhythm of melatonin relative to the control group was observed.
Bijlenga D et al., 2013 [55]	12 patients with ADHD 12 controls	saliva	1. In the group of people with ADHD, DLMO was delayed by about 1.5 h relative to the control group. 2. An average one hour longer interval between the onset of DLMO and onset of sleep was observed in subjects with ADHD relative to the control group.
Büber A et al., 2016 [57]	27 patients with ADHD 28 controls	urine	Patients with ADHD had significantly higher levels of total 24-h urinary excretion of 6-OH MS than controls.

(ADHD-SOI)—ADHD-related sleep-onset insomnia, (ADHD-noSOI)—ADHD without sleep-onset insomnia.

Sécrétion Mél
retardée 83min
Rythme sécrétion
Mél modifié
DLMO:+1.5h
Taux élevé 6 Hydroxy-
Melatonin-Sulfate

En terme de traitement

Intérêt de la MELATONINE

Mélatonine

- Sujets TSA



Diff
Endor

Réveils
nocturnes

- Sujets TDAH

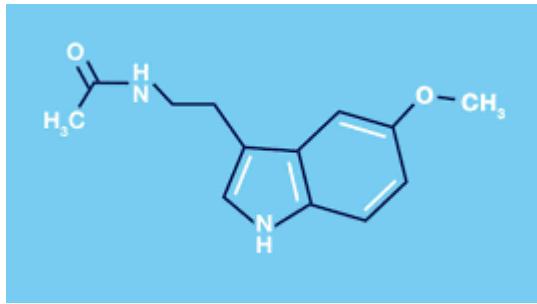
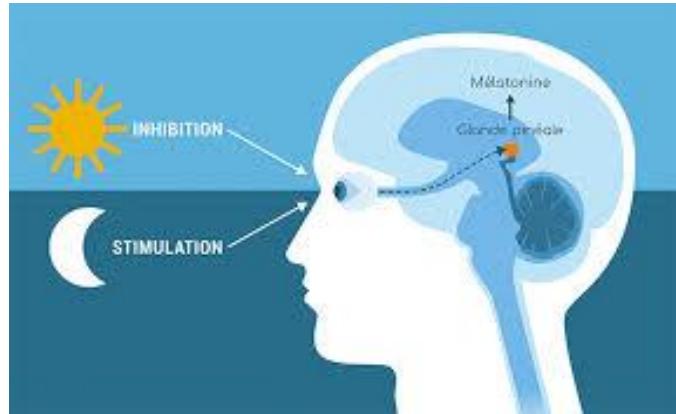


Réveils
précoces

Diff
Endor

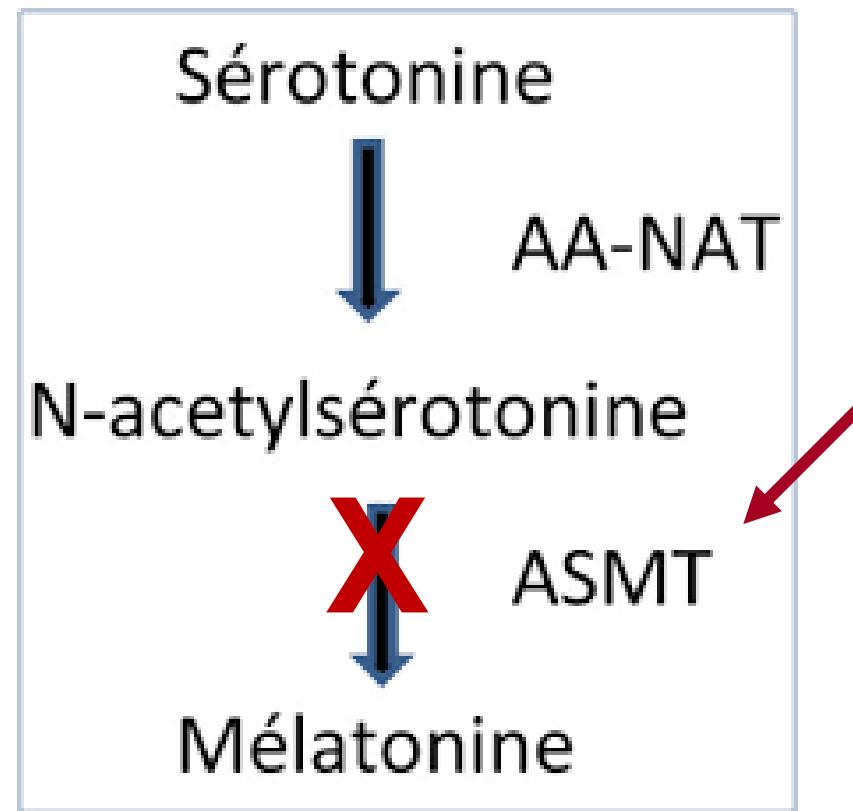
Défaut de synthèse de MEL

Décalage de synthèse de MEL



**N-acétyl-5- méthoxytryptamine,
1958**

Chez le patient avec TSA



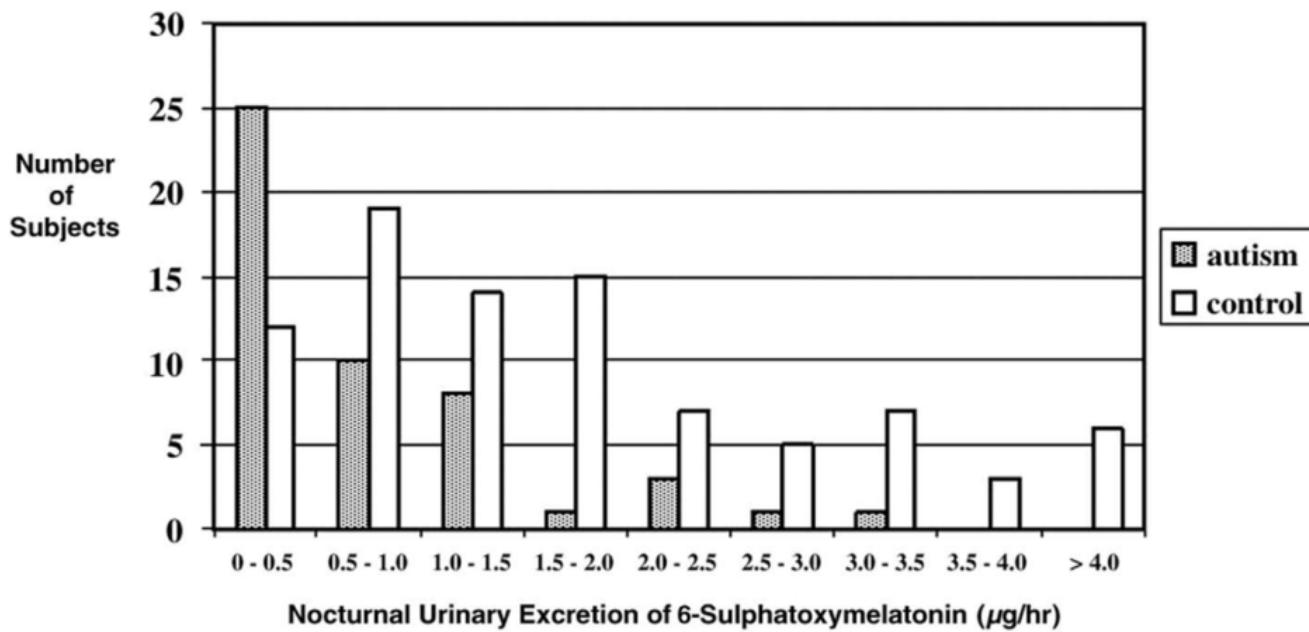
NAT: N-Acetyl-Transferarase

NAS: N-Acetyl-Sérotonine

ASMT: Acétyl-Sérotonin-Méthyl-Transférase

Mélatonine chez les sujets TSA

63% des enfants < $\frac{1}{2}$ du taux de melatonine des contrôles

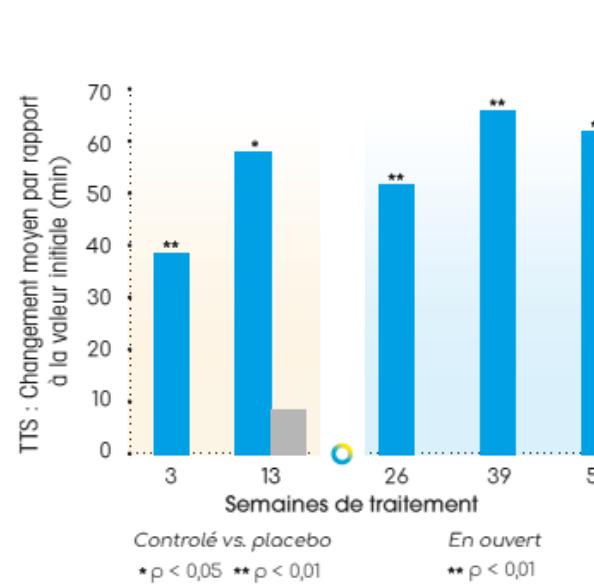


Efficacité Mélatonine LP

● Slenyto[®]
● Placebo

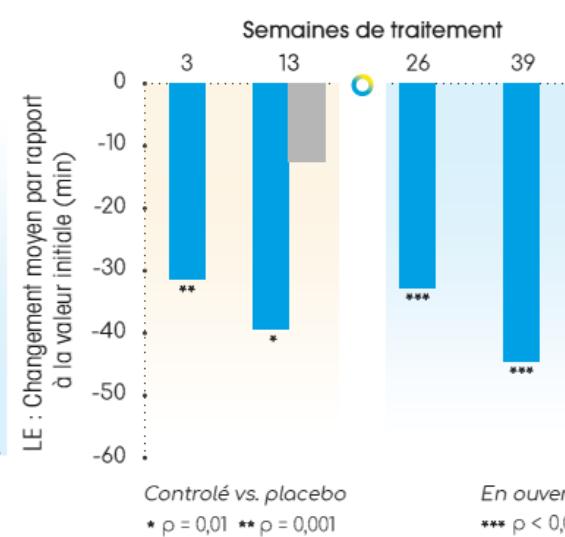
Augmente le Temps Total de Sommeil (TTS)

+ 57.5 min vs + 9.1 min



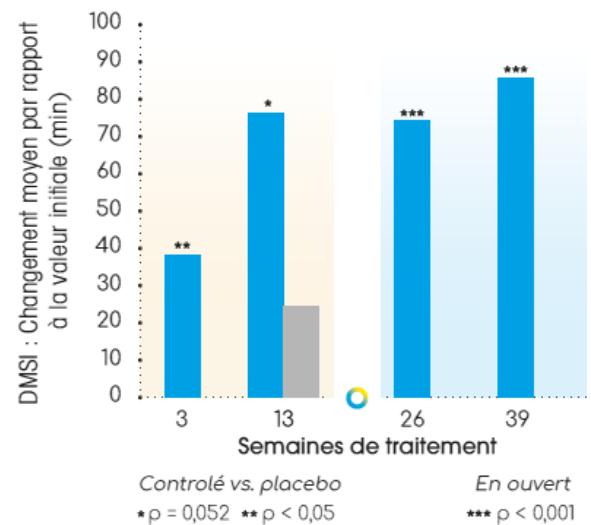
Améliore la latence d'endormissement (LE)

- 39.6 min vs - 12.5 min

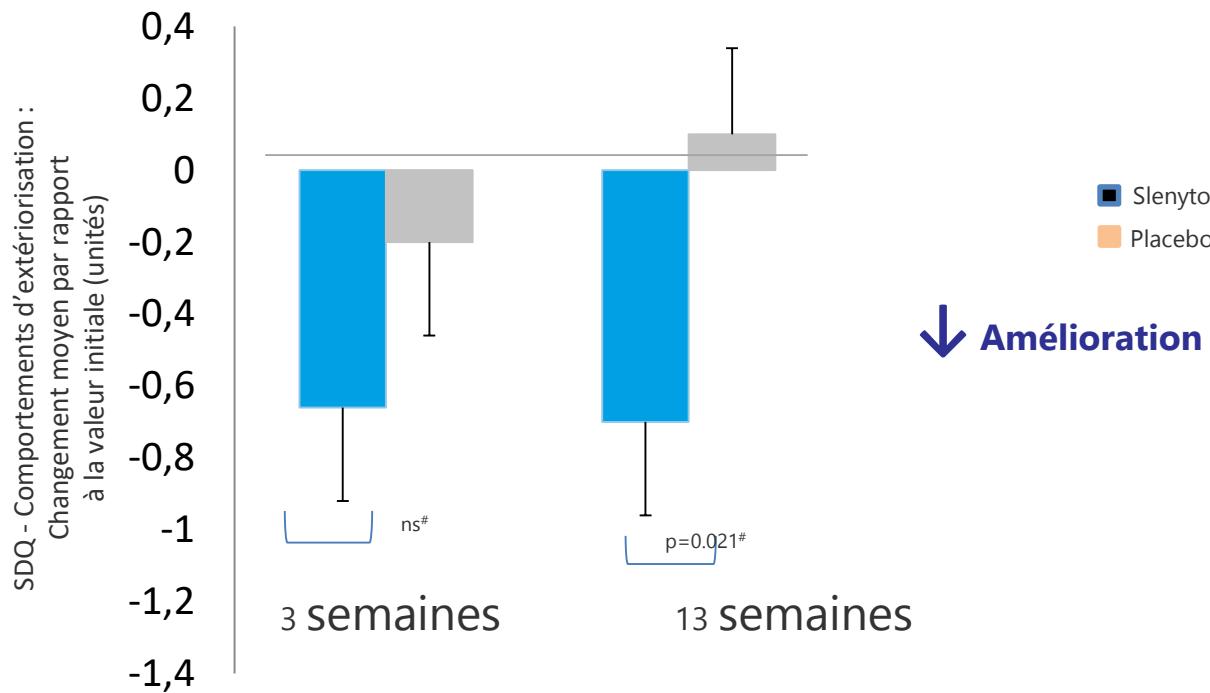


Améliore le maintien du sommeil

LSE: + 77.9 min vs + 25.4 min

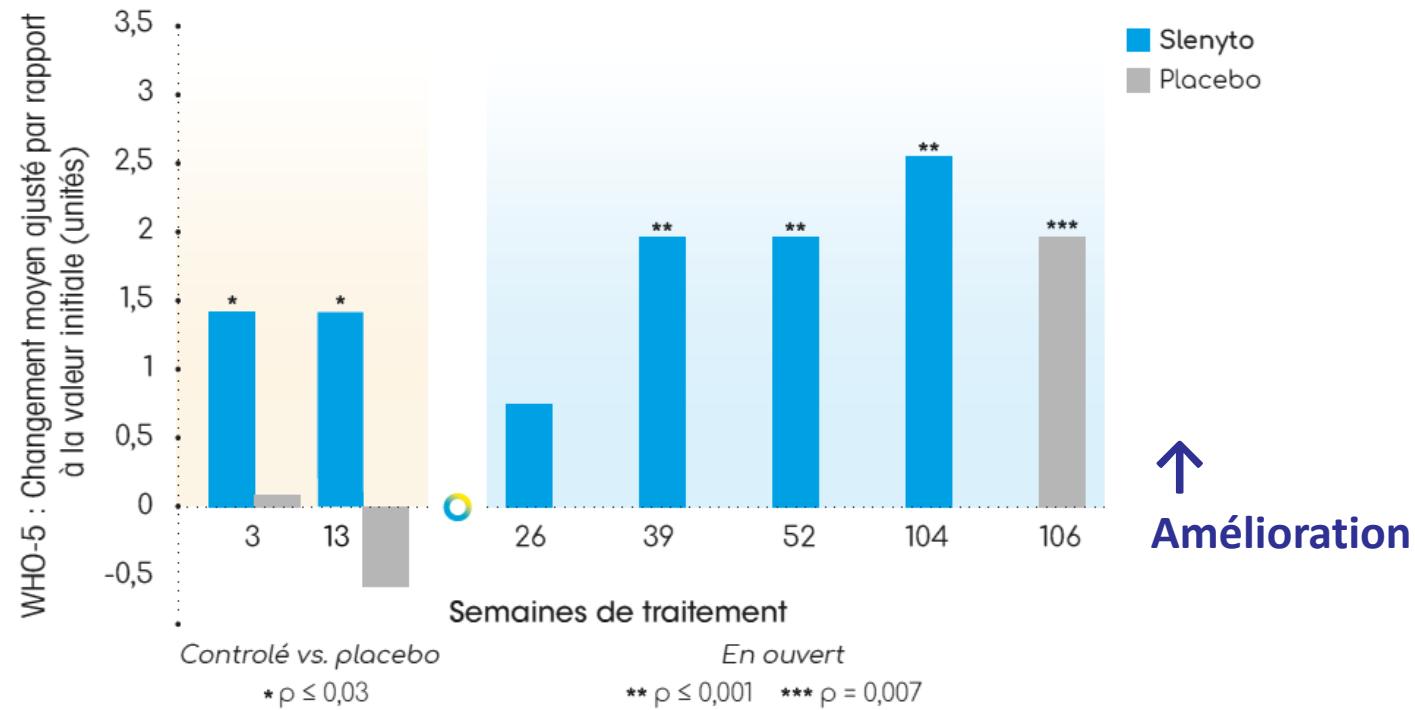


Diminution des comportements externalisés



Amélioration de la qualité de vie des parents

WHO-5





2019

Effects of melatonin in children with attention-deficit/hyperactivity disorder with sleep disorders after methylphenidate treatment

Gabriele Masi, Pamela Fantozzi, Arianna Villafranca, Annalisa Tacchi, Federica Ricci, Laura Ruglioni, Emanuela Inguaggiato, Chiara Pfanner & Samuele Cortese

74 enfants - âge: 11.6 ans

MPH: posologie moyenne: 33.5 mg

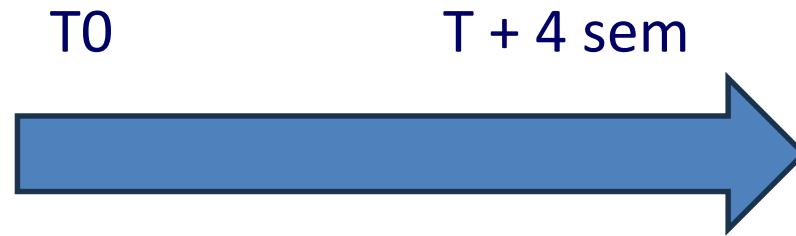
T0

T + 4 sem



Latence d'endormissement

Après 4 semaines de TTT Mélatonine: 1.85 mg/j



Echelle Lickert 3.41 (0.7) 2.13 (1.05) p<0.001

CGI

Amélioration quelque soit

- Age
- Genre
- Comorbidités

Vers des données plus écologiques ...

Travaux

- Données subjectives
 - Questionnaires parents
- Données objectives
 - Population spécifique des TND
 - Difficultés quand ne sont pas à domicile
 - Enregistrement de moins de 5h
 - Variable traitement
 - Variable cormorbidité



Sleep disorders in children with neurodevelopmental disorders: Comparative actigraphy and questionnaire assessment in ASD, ADHD, and controls

Sara Pinghini ^a , Lucio Giordano ^a, Francesca Banditelli ^b, Rossana Bucci ^c,
Anna Eusebi ^c, Elena Filippini ^c, Michela Gritti ^c, Paola Mattei ^c, Davide Nocita ^d,
Elisa Maria Fazzi ^{c d}, Giuseppe Milito ^a

Sleep Disorders in Children with Neurodevelopmental Disorders: Comparative Actigraphy and Questionnaire Assessment in ASD, ADHD, and Controls

Background and Objectives	Methods	Results
 Sleep disorders common in ASD & ADHD Objective assessments are limited  Compare sleep patterns & hygiene (ASD/ADHD vs controls) Check SDSC – actigraphy concordance  Assess actigraphy tolerability & clinical use	 60 NDD (30 ASD, 30 ADHD) & 40 controls Age: 4–10 years  7-night actigraphy + SDSC & FISH questionnaires	<ul style="list-style-type: none">Actigraphy well tolerated (88%) in NDDPoorer sleep in NDD on both SDSC & actigraphyLow concordance SDSC vs actigraphy: NDD: ~53%, Controls: ~15%No differences in sleep hygiene (FISH)FISH-actigraphy correlation observed only in controls

Sleep Disturbance Scale for Children : SDSC
Family Inventory of Sleep Habits : FISH

Children with NDDs showed

- significantly higher SDSC scores vs controls ($p < 0.001$)
- poorer actigraphic sleep parameters
 - lower sleep efficiency (82.0 % vs 87.3 %, $p < 0.001$)
 - longer wake after sleep onset (78.8 vs 52.7 min, $p < 0.001$)
- Concordance between actigraphy and SDSC was limited ($\approx 53\%$ in NDD; 15 % in TD)



Parent-reported experiences of in-laboratory polysomnography in children with neurodevelopmental disorders: A cross-sectional multi-centre study

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Abstract

Purpose In-laboratory polysomnography (PSG) is the gold standard test for diagnosing certain paediatric sleep conditions. Children with neurodevelopmental disorders (NDD) often have difficulty tolerating PSG, but parent and patient experiences of PSG for children with NDD have not been thoroughly explored. The study aim was to evaluate the parent-reported experience of in-laboratory PSG undertaken in children with NDD and to identify factors predictive of poorer experience.

Methods In this cross-sectional multicentre study, parents of 143 children with NDD who underwent in-laboratory PSG completed a customised survey to provide feedback on parent and child worry levels, subjective tolerance and overall experience of PSG, and hypothetical preference between in-laboratory PSG versus an in-home mat-based sleep test. ANOVA, Chi-squared and Kruskal–Wallis tests were used to determine participant factors associated with these outcomes.

Results On average, parents rated their child's worry level with respect to undergoing PSG as 'moderate,' but their own worry levels lower. Autism spectrum / neuromuscular disorder diagnoses were risk factors for both higher worry score and reporting that sleep during PSG was non-representative of usual sleep at home. Parental preference was for in-home (mat-based) testing, with 57% indicating a preference for this if it were available vs. 7% preferring in-laboratory testing.

Conclusion Parent/carer reports regarding in-laboratory PSG experiences for their children with NDD suggest the test is associated with child worry and concerns that the sleep is not-representative of usual sleep at home. Consumer preference favours in-home sleep study testing over current in-laboratory diagnostic testing.

Clinical trial registration This study is part of a larger trial ACTRN12622001544763.

Pour Conclure...

- **Le sommeil** ...un marqueur pour phénotyper les patients avec TND
 - Marqueur de vulnérabilité
 - Sujets à risque
 - Rôle du sommeil dans l'intensité des troubles Le sommeil
- Travaux de recherche: Mesures plus écologiques

Merci de votre attention