



Newsletter on peer-reviewed publications by Belgian scientists and clinicians on sleep/wake research and sleep/wake medicine: review of 2022.

It is good to show that in Belgium research in sleep science and sleep care is thriving. Therefore, the BASS board decided to publish each year a newsletter on sleep/wake research and sleep/wake medicine peer-reviewed articles with Belgian collaborators involved.

The publications are organized according to either 1) basic (blue layout) or 2) more clinical (red layout) research topics. Moreover, the articles are split up in the following categories: original research and meta-analyses, (systematic) reviews and others (comments, letters to the editor or prefaces/editorials). The order in the text is alphabetic and based on the name of the first author of the publication with affiliation to a Belgian research group. The articles with a first author with Belgian affiliation were placed on the top of each section. All Belgian contributors (and their affiliations) are presented in bold.

Clicking on the title of the article gives you more information (abstract or even full text) depending on your access rights.

A revision of peer-reviewed publications based on a PubMed search (using the terms “Sleep” and “Belgium”) from the 1st of January until the 31th of December 2021 was already presented in a first newsletter a year ago and is now completed by a search for 2022 using the same format.

on behalf of the BASS board,

Bertien Buyse, MD, PhD, ESRS accredited somnologist

BASS board member responsible for European affairs and accreditation

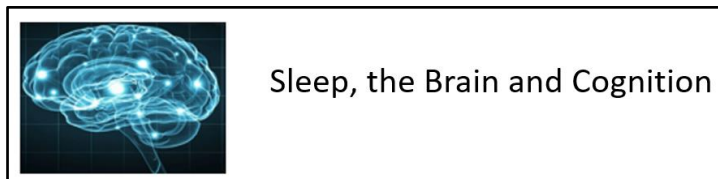
2022: YEAR IN REVIEW

Basic research



List of the different topics:

- Sleep, the Brain and Cognition – p.2
- Sleep and Neurodegeneration – p.5
- Paediatric Research (including adolescents) – p.6
- Sleep (Breathing) Diagnostics and Technology – p.6
- Sleep and Chronobiology – p.9



Original research

[Impact of Sleep Fragmentation on Cognition and Fatigue.](#)

Benkirane O, Delwiche B, Mairesse O, Peigneux P.

Int J Environ Res Public Health. 2022 Nov 22;19(23). doi: 10.3390/ijerph192315485.

Université Libre de Bruxelles (ULB)

[Frontal grey matter microstructure is associated with sleep slow waves characteristics in late midlife.](#)

Chylinski D, Narbutas J, Balteau E, Collette F, Bastin C, Berthomier C, Salmon E, Maquet P, Carrier J, Phillips C, Lina JM, Vandewalle G, Van Egroo M.

Sleep. 2022 Nov 9;45(11). doi: 10.1093/sleep/zsac178.

University of Liège (ULiège)

[Genetic risk for insomnia is associated with objective sleep measures in young and healthy good sleepers.](#)

Koshmanova E, Muto V, Chylinski D, Mouraux C, Reyt M, Grinard M, Talwar P, Lambot E, Berthomier C, Brandewinder M, Mortazavi N, Degueldre C, Luxen A, Salmon E, Georges M, Collette F, Maquet P, Van Someren E, Vandewalle G.

Neurobiol Dis. 2022 Dec;175:105924. doi: 10.1016/j.nbd.2022.105924.

University of Liège (ULiège)

[Effort during prolonged wakefulness is associated with performance to attentional and executive tasks but not with cortical excitability in late-middle-aged healthy individuals.](#)

Mouraux C, Van Egroo M, Chylinski D, Narbutas J, Phillips C, Salmon E, Maquet P, Bastin C, Collette F, Vandewalle G.

Neuropsychology. 2023 Jan;37(1):77-92. doi: 10.1037/neu0000868. Epub 2022 Nov 10.

University of Liège (ULiège)

[Sigma oscillations protect or reinstate motor memory depending on their temporal coordination with slow waves.](#)

Nicolas J, King BR, Levesque D, Lazzouni L, Coffey E, Swinnen S, Doyon J, Carrier J, Albouy G. Elife. 2022 Jun 21;11. doi: 10.7554/eLife.73930.

University of Leuven (KUL)

[Modulation of sleep behavior in zebrafish larvae by pharmacological targeting of the orexin receptor.](#)

Pardon M, Claes P, Druwé S, Martini M, Siekierska A, Menet C, de Witte PAM, Copmans D. Front Pharmacol. 2022;13:1012622. doi: 10.3389/fphar.2022.1012622. eCollection 2022.

University of Leuven (KUL) – University of Ghent (UGent)

[Pitfalls in recording BOLD signal responses to light in small hypothalamic nuclei using Ultra-High-Field 7 Tesla MRI.](#)

Sharifpour R, Campbell I, Beckers E, Balda F, Mortazavi N, Koshmanova E, Paparella I, Sherif S, Phillips C, Vandewalle G.

Proc Natl Acad Sci U S A. 2022 Dec 6;119(49):e2212123119. doi: 10.1073/pnas.2212123119. Epub 2022 Nov 29.

University of Liège (ULiège)

[Partially Preserved Processing of Musical Rhythms in REM but Not in NREM Sleep.](#)

Sifuentes-Ortega R, Lenc T, Nozaradan S, Peigneux P.

Cereb Cortex. 2022 Mar 30;32(7):1508-1519. doi: 10.1093/cercor/bhab303.

Université Libre de Bruxelles (ULB)

[Lateralized tactile stimulation during NREM sleep globally increases both slow and fast frequency activities.](#)

Simor P, Bogdány T, Sifuentes-Ortega R, Rovai A, Peigneux P.

Psychophysiology. 2023 Mar;60(3):e14191. doi: 10.1111/psyp.14191. Epub 2022 Sep 25.

Université Libre de Bruxelles (ULB)

[Predicting the loss of responsiveness when falling asleep in humans.](#)

Strauss M, Sitt JD, Naccache L, Raimondo F.

Neuroimage. 2022 May 1;251:119003. doi: 10.1016/j.neuroimage.2022.119003.

Université Libre de Bruxelles (ULB)

[Order matters: sleep spindles contribute to memory consolidation only when followed by rapid-eye-movement sleep.](#)

Strauss M, Griffon L, Van Beers P, Elbaz M, **Bouziotis J**, Sauvet F, Chennaoui M, Léger D, **Peigneux P**.

Sleep. 2022 Apr 11;45(4). doi: 10.1093/sleep/zsac022.

Université Libre de Bruxelles (ULB)

[Sleep need-dependent changes in functional connectivity facilitate transmission of homeostatic sleep drive.](#)

Ho MCW, Tabuchi M, Xie X, Brown MP, Luu S, Wang S, Kolodkin AL, **Liu S**, Wu MN.

Curr Biol. 2022 Nov 21;32(22):4957-4966.e5. doi: 10.1016/j.cub.2022.09.048.

University of Leuven (KUL)

[Unifying turbulent dynamics framework distinguishes different brain states.](#)

Escrachs A, Perl YS, Uribe C, Camara E, Türker B, Pyatigorskaya N, López-González A, Pallavicini C, **Panda R**, **Annen J**, **Gosseries O**, **Laureys S**, Naccache L, Sitt JD, Laufs H, Tagliazucchi E, Kringelbach ML, Deco G.

Commun Biol. 2022 Jun 29;5(1):638. doi: 10.1038/s42003-022-03576-6.

University of Liège (ULiège)

[Maturation of Arousals during Day and Night in Preterm Infants.](#)

Guyon A, **Ravet F**, Champavert A, Thieux M, Patural H, Plancoulaine S, Franco P.

Children (Basel). 2022 Feb 8;9(2). doi: 10.3390/children9020223.

University of Liège (ULiège)

[Quantifying arousal and awareness in altered states of consciousness using interpretable deep learning.](#)

Lee M, **Sanz LRD**, **Barra A**, **Wolff A**, Nieminen JO, Boly M, Rosanova M, Casarotto S, Bodart O, Annen J, Thibaut A, Panda R, Bonhomme V, Massimini M, Tononi G, **Laureys S**, Gosseries O, Lee SW.

Nat Commun. 2022 Feb 25;13(1):1064. doi: 10.1038/s41467-022-28451-0.

University of Liège (ULiège)

Meta-analyses, (systematic) reviews and others

[Editorial: The impact of age-related changes in brain network organization and sleep on memory.](#)

Mary A, **Bastin C**, Lina JM, Rauchs G.

Front Aging Neurosci. 2022;14:1049278. doi: 10.3389/fnagi.2022.1049278. eCollection 2022.

Université Libre de Bruxelles (ULB) - University of Liège (ULiège)

[Predictive coding, multisensory integration, and attentional control: A multicomponent framework for lucid dreaming.](#)

Simor P, Bogdány T, Peigneux P.

Proc Natl Acad Sci U S A. 2022 Nov;119(44):e2123418119. doi: 10.1073/pnas.2123418119. Epub 2022 Oct 24.

Université Libre de Bruxelles (ULB)

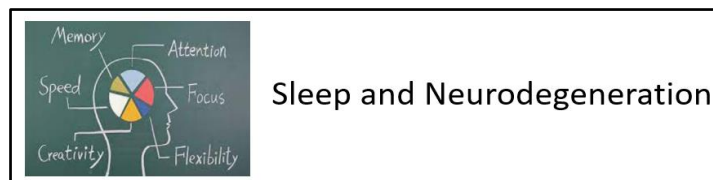
[Recent advances in memory consolidation and information processing during sleep.](#)

Hoedlmoser K, **Peigneux P**, Rauchs G.

J Sleep Res. 2022 Aug;31(4):e13607. doi: 10.1111/jsr.13607. Epub 2022 Apr 10.

Université Libre de Bruxelles (ULB)

∞



Original research

[Timely coupling of sleep spindles and slow waves linked to early amyloid- \$\beta\$ burden and predicts memory decline.](#)

Chylinski D, Van Egroo M, Narbutas J, Muto V, Bahri MA, Berthomier C, Salmon E, Bastin C, Phillips C, Collette F, Maquet P, Carrier J, Lina JM, Vandewalle G.

Elife. 2022 May 31;11. doi: 10.7554/eLife.78191.

University of Liège (ULiège)

[Genome-wide association study of REM sleep behavior disorder identifies polygenic risk and brain expression effects.](#)

Krohn L, Heilbron K, Blauwendraat C, Reynolds RH, Yu E, Senkevich K, Rudakou U, Estiar MA, Gustavsson EK, Brolin K, Ruskey JA, Freeman K, Asayesh F, Chia R, Arnulf I, Hu MTM, Montplaisir JY, Gagnon JF, Desautels A, Dauvilliers Y, Gigli GL, Valente M, Janes F, Bernardini A, Högl B, Stefani A, Ibrahim A, Šonka K, Kemlink D, Oertel W, Janzen A, Plazzi G, Biscarini F, Antelmi E, Figorilli M, Puligheddu M, Mollenhauer B, Trenkwalder C, Sixel-Döring F, Cochen De Cock V, Monaca CC, Heidbreder A, Ferini-Strambi L, **Dijkstra F, Viaene M**, Abril B, Boeve BF, Scholz SW, Ryten M, Bandres-Ciga S, Noyce A, Cannon P, Pihlstrøm L, Nalls MA, Singleton AB, Rouleau GA, Postuma RB, Gan-Or Z.

Nat Commun. 2022 Dec 5;13(1):7496. doi: 10.1038/s41467-022-34732-5.

University of Antwerp (UA) - St. Dimpna Regional Hospital, Geel

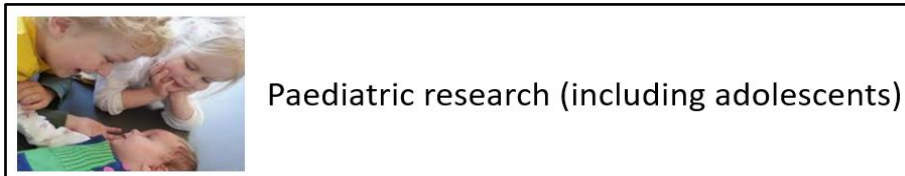
Meta-analyses, (systematic) reviews and others

[Importance of the locus coeruleus-norepinephrine system in sleep-wake regulation: Implications for aging and Alzheimer's disease.](#)

Van Egroo M, Koshmanova E, Vandewalle G, Jacobs HIL.

Sleep Med Rev. 2022 Apr;62:101592. doi: 10.1016/j.smrv.2022.101592.

University of Liège (ULiège)



Original research

[The Role of Brain-Derived Neurotrophic Factor in Obstructive Sleep Apnea and Endothelial Function in a Pediatric Population With Obesity.](#)

Makhout S, Vermeiren E, Van De Maele K, Bruyndonckx L, De Winter BY, Van Hoorenbeeck K, Verhulst SL, Van Eyck A.

Front Med (Lausanne). 2022;8:835515. doi: 10.3389/fmed.2021.835515.

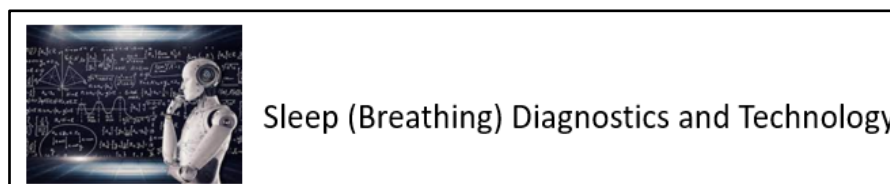
University of Antwerp (UA)

[Children who sleep more may have longer telomeres: evidence from a longitudinal population study in Spain.](#)

Petermann-Rocha F, Valera-Gran D, Fernández-Pires P, **Martens DS**, Júlvez J, Rodríguez-Dehli C, Andiarena A, Lozano M, Fernández-Somoano A, Lertxundi A, Llop S, Guxens M, **Nawrot TS**, Navarrete-Muñoz EM.

Pediatr Res. 2022 Aug 16;. doi: 10.1038/s41390-022-02255-w. [Epub ahead of print]

University of Hasselt (UHasselt)



Original research

[From unsupervised to semi-supervised adversarial domain adaptation in electroencephalography-based sleep staging.](#)

Heremans ERM, Phan H, Borzée P, Buyse B, Testelmans D, De Vos M.

J Neural Eng. 2022 Jun 24;19(3). doi: 10.1088/1741-2552/ac6ca8.

University of Leuven (KUL)

[Critical closing pressure of the pharyngeal airway during routine drug-induced sleep endoscopy: feasibility and protocol.](#)

Kazemeini E, Van de Perck E, Dieltjens M, Willemen M, Verbraecken J, Sands SA, Vanderveken OM, Op de Beeck S.

J Appl Physiol (1985). 2022 Apr 1;132(4):925-937. doi: 10.1152/jappphysiol.00624.2021.

University of Antwerp (UA)

[Tracking Subjective Sleep Quality and Mood With Mobile Sensing: Multiverse Study.](#)

Niemeijer K, Mestdagh M, Kuppens P.

J Med Internet Res. 2022 Mar 18;24(3):e25643. doi: 10.2196/25643.

University of Leuven (KUL)

[Evaluation of a tactile breath pacer for sleep problems: A mixed method pilot study.](#)

Vermeulen S, Honinx E, Broes S, Vandenhout H, De Witte NAJ.

Front Digit Health. 2022;4:908159. doi: 10.3389/fdgth.2022.908159. eCollection 2022.

Thomas More University of Applied Science, Geel – Moonbird B.V., Brussels

[Performance of Contactless Respiratory Rate Monitoring by Albus Home™, an Automated System for Nocturnal Monitoring at Home: A Validation Study.](#)

Do W, Russell R, Wheeler C, Lockwood M, **De Vos M**, Pavord I, Bafadhel M.

Sensors (Basel). 2022 Sep 21;22(19). doi: 10.3390/s22197142.

University of Leuven (KUL)

[Mandibular Movements are a Reliable Noninvasive Alternative to Esophageal Pressure for Measuring Respiratory Effort in Patients with Sleep Apnea Syndrome.](#)

Pepin JL, Le-Dong NN, Cuthbert V, Coumans N, Tamisier R, Malhotra A, **Martinot JB.**

Nat Sci Sleep. 2022;14:635-644. doi: 10.2147/NSS.S346229. eCollection 2022.

Université Catholique de Louvain (UCL), Namur – Sunrise, Namur

[Diagnosis of Sleep Apnoea Using a Mandibular Monitor and Machine Learning Analysis: One-Night Agreement Compared to in-Home Polysomnography.](#)

Kelly JL, Ben Messaoud R, Joyeux-Faure M, Terrail R, Tamisier R, **Martinot JB, Le-Dong NN,** Morrell MJ, Pépin JL.

Front Neurosci. 2022;16:726880. doi: 10.3389/fnins.2022.726880. eCollection 2022.

Université Catholique de Louvain (UCL), Namur – Sunrise, Namur

[Assessing fatigue and sleep in chronic diseases using physiological signals from wearables: A pilot study.](#)

Antikainen E, Njoum H, Kudelka J, Branco D, Rehman RZU, Macrae V, Davies K, Hildesheim H, Emmert K, Reilmann R, Janneke van der Woude C, Maetzler W, Ng WF, O'Donnell P, **Van Gassen G,** Baribaud F, Pandis I, **Manyakov NV,** van Gils M, Ahmaniemi T, Chatterjee M.

Front Physiol. 2022;13:968185. doi: 10.3389/fphys.2022.968185. eCollection 2022.

Takeda, Zaventem – Janssen Research and Development, Beers

[A multicentric validation study of a novel home sleep apnea test based on peripheral arterial tonometry.](#)

Van Pee B, Massie F, **Vits S, Dreesen P, Klerkx S**, Bijwadia J, **Verbraecken J**, Bergmann J. Sleep. 2022 May 12;45(5). doi: 10.1093/sleep/zsac028.

Ziekenhuis Oost-Limburg (Genk), University of Hasselt (UHasselt), University of Antwerp (UA)

[Contactless sleep posture measurements for demand-controlled sleep thermal comfort: A pilot study.](#)

Cheng X, Hu F, Yang B, **Wang F**, Olofsson T.

Indoor Air. 2022 Dec;32(12):e13175. doi: 10.1111/ina.13175.

University of Leuven (KUL)

Meta-analyses, (systematic) reviews and others

[Investigating Cardiorespiratory Interaction Using Ballistocardiography and Seismocardiography-A Narrative Review.](#)

Balali P, Rabineau J, Hossein A, Tordeur C, Debeir O, van de Borne P.

Sensors (Basel). 2022 Dec 6;22(23). doi: 10.3390/s22239565.

Université Libre de Bruxelles (ULB)

[The Sleep Revolution project: the concept and objectives.](#)

Arnardottir ES, Islind AS, Óskarsdóttir M, Ólafsdóttir KA, August E, Jónasdóttir L, Hrubos-Strøm H, Saavedra JM, Grote L, Hedner J, Höskuldsson S, Ágústsson JS, Jóhannsdóttir KR, McNicholas WT, **Pevernagie D**, Sund R, Töyräs J, Leppänen T.

J Sleep Res. 2022 Aug;31(4):e13630. doi: 10.1111/jsr.13630. Epub 2022 Jun 30.

University of Ghent (UGent)

[Verification, analytical validation and clinical validation \(V3\) of wearable dosimeters and light loggers.](#)

Spitschan M, Smolders K, **Vandendriessche B**, Bent B, Bakker JP, Rodriguez-Chavez IR, Vetter C.

Digit Health. 2022 Jan-Dec;8:20552076221144858. doi:

10.1177/20552076221144858. eCollection 2022 Jan-Dec.

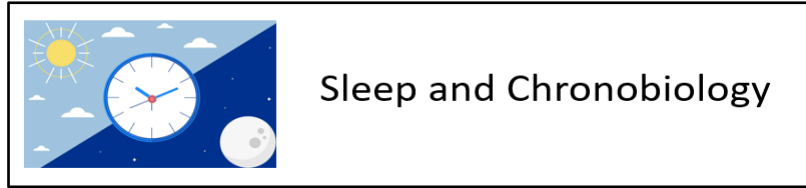
Byteflies, Antwerp

[Editorial: Machine Learning and Wearable Technology in Sleep Medicine.](#)

Leppänen T, **Varon C**, de Zambotti M, Myllymaa S.

Front Digit Health. 2022;4:845879. doi: 10.3389/fdgth.2022.845879. eCollection 2022.

Université Libre de Bruxelles (ULB)



Original research

[The submariners' sleep study: a field investigation of sleep and circadian hormones during a 67-day submarine mission with a strict 6-h-on/6-h-off watch routine.](#)

Van Puyvelde M, Rietjens G, Helmhout P, Mairesse O, Van Cutsem J, Pattyn N.

J Appl Physiol (1985). 2022 Apr 1;132(4):1069-1079. doi: 10.1152/jappphysiol.00130.2021.

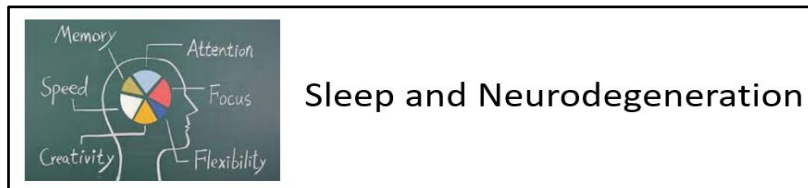
Vrije Universiteit Brussel (VUB) - Université Libre de Bruxelles (ULB) – Royal Military Academy Brussels

∞



List of the different topics:

- Sleep and Neurodegeneration – p.10
- Paediatric Research (including adolescents) – p.11
- Sleep and age – p.13
- Sleep (Breathing) Diagnostics and Technology – p.13
- Sleep Related Breathing Disorders – p.14
- Sleep and Psychiatry – p.19
- Insomnia, sleep quality – p.21
- Sleep and chronobiology – p.22
- Sleep and Cardiometabolic consequences – p.23
- Sleep and ... - p.25



Original research

[Impaired bed mobility in prediagnostic and de novo Parkinson's disease.](#)

Dijkstra F, de Volder I, Viaene M, Cras P, Crosiers D.

Parkinsonism Relat Disord. 2022 May;98:47-52. doi: 10.1016/j.parkreldis.2022.04.007.

University of Antwerp (UA) - St. Dimpna Regional Hospital, Geel

Meta-analyses, (systematic) reviews and others

[Polysomnographic Predictors of Sleep, Motor, and Cognitive Dysfunction Progression in Parkinson's Disease.](#)

Dijkstra F, de Volder I, Viaene M, Cras P, Crosiers D.

Curr Neurol Neurosci Rep. 2022 Oct;22(10):657-674. doi: 10.1007/s11910-022-01226-2.

University of Antwerp (UA) - St. Dimpna Regional Hospital, Geel



Paediatric research (including adolescents)

Original research

[Weekday sleep duration and morning tiredness are independent covariates of breakfast skipping in adolescents.](#)

Lebacqz T, Holmberg E, Pedroni C, Dujeu M, Castetbon K.

Eur J Clin Nutr. 2022 Oct;76(10):1403-1408. doi: 10.1038/s41430-022-01117-2. Epub 2022 Mar 24.

Université Libre de Bruxelles (ULB)

[Dealing With Autocorrelation in the Single Case AB-Design: A Study Assessing the Mediating Effect of Infant Crying on the Relation Between Responsive Soothing and Infant Sleep.](#)

Loeys T, Rodenburg R.

Eval Health Prof. 2022 Mar;45(1):22-35. doi: 10.1177/01632787211069678.

University of Ghent (UGent)

[Nocturnal pulse oximetry as a possible screening method for obstructive sleep apnea in infants with laryngomalacia.](#)

Makhout S, Boudewyns A, Van Hoorenbeeck K, Verhulst S, Van Eyck A.

Sleep Med. 2022 Feb;90:91-95. doi: 10.1016/j.sleep.2022.01.010.

University of Antwerp (UA)

[Psychosocial factors related to sleep in adolescents and their willingness to participate in the development of a healthy sleep intervention: a focus group study.](#)

Vandendriessche A, Verloigne M, Boets L, Joriskes J, DeSmet A, Dhondt K, Deforche B.

BMC Public Health. 2022 Oct 7;22(1):1876. doi: 10.1186/s12889-022-14278-3.

University of Ghent (Ugent) – Université Libre de Bruxelles (ULB) - University of Antwerp (UA) - Vrije Universiteit Brussel (VUB)

[Relations between bedtime parenting behaviors and temperament across 14 cultures.](#)

Pham C, Desmarais E, Jones V, French BF, Wang Z, Putnam S, **Casalin S**, Linhares MBM, Lecannelier F, Tuovinen S, Heinonen K, Raikkonen K, Montiroso R, Giusti L, Park SY, Han SY, Lee EG, Huitron B, de Weerth C, Beijers R, Majdandžić M, Gonzalez-Salinas C, Acar I, Slobodskaya H, Kozlova E, Ahmetoglu E, Benga O, Gartstein MA.

Front Psychol. 2022;13:1004082. doi: 10.3389/fpsyg.2022.1004082. eCollection 2022.

University of Leuven (KUL)

[Estimated all-day and evening whole-brain radiofrequency electromagnetic fields doses, and sleep in preadolescents.](#)

Cabr -Riera A, van Wel L, Liorni I, Koopman-Verhoeff ME, Imaz L, Ibarluzea J, Huss A, Wiart J, Vermeulen R, **Joseph W**, Capstick M, Vrijheid M, Cardis E, R sli M, Eeftens M, Thielens A, Tiemeier H, Guxens M.

Environ Res. 2022 Mar;204(Pt C):112291. doi: 10.1016/j.envres.2021.112291.

University of Ghent (UGent)

[Immediate Evaluation of the Effect of Infrared LED Photobiomodulation on Childhood Sleep Bruxism: A Randomized Clinical Trial.](#)

Kobayashi FY, Castelo PM, Politti F, Rocha MM, Beltramin RZ, Salgueiro MDCC, Gonalves MLL, **Nammour S**, Brugnera J nior A, Sfalcin RA, Bussadori SK.

Life (Basel). 2022 Jun 27;12(7). doi: 10.3390/life12070964.

University of Li ge (ULi ge)

[Mechanical ventilation in Duchenne muscular dystrophy: A pilot project in Ukraine.](#)

Tsarenko A, Trofimov I, Shatillo A, Kostiuikova D, Kobylinskyi S, Melnyk S, Riiatchenko S, Berdykova Y, Morozova M, Marichuk M, Bondarenko S, Gutarev A, **Toussaint M**.

Pediatr Int. 2022 Jan;64(1):e15225. doi: 10.1111/ped.15225.

Universit  Libre de Bruxelles (ULB)

Meta-analyses, (systematic) reviews and others

[Sleep in children with refractory epilepsy and epileptic encephalopathies: A systematic review of literature.](#)

Proost R, Lagae L, Van Paesschen W, Jansen K.

Eur J Paediatr Neurol. 2022 May;38:53-61. doi: 10.1016/j.ejpn.2022.03.010.

University of Leuven (KUL)

[Sleep Health Assessment and Treatment in Children and Adolescents with Chronic Pain: State of the Art and Future Directions.](#)

Law EF, Kim A, **Ickmans K**, Palermo TM.

J Clin Med. 2022 Mar 9;11(6). doi: 10.3390/jcm11061491.

Vrije Universiteit Brussel (VUB)

[ERS statement on paediatric long-term noninvasive respiratory support.](#)

Fauroux B, Abel F, Amaddeo A, Bignamini E, Chan E, Corel L, Cutrera R, Ersu R, Installe S, Khirani S, Krivec U, Narayan O, MacLean J, Perez De Sa V, Pons-Odena M, Stehling F, Ferreira RT, **Verhulst S**.

Eur Respir J. 2022 Jun;59(6). doi: 10.1183/13993003.01404-2021.

University of Antwerp (UA)



Original research

[Effect of exergaming on wellbeing of residents in a nursing home: a single blinded intervention study.](#)

Gunst M, De Meyere I, Willems H, Schoenmakers B.

Aging Clin Exp Res. 2022 Jan;34(1):151-157. doi: 10.1007/s40520-021-01903-1. Epub 2021 Jun 22.

University of Leuven (KUL)

[Daytime rest: Association with 24-h rest-activity cycles, circadian timing and cognition in older adults.](#)

Reyt M, Deantoni M, Baillet M, Lesoinne A, Laloux S, Lambot E, Demeuse J, Calaprice C, LeGoff C, Collette F, Vandewalle G, Maquet P, Muto V, Hammad G, Schmidt C.

J Pineal Res. 2022 Oct;73(3):e12820. doi: 10.1111/jpi.12820.

University of Liège (ULiège)

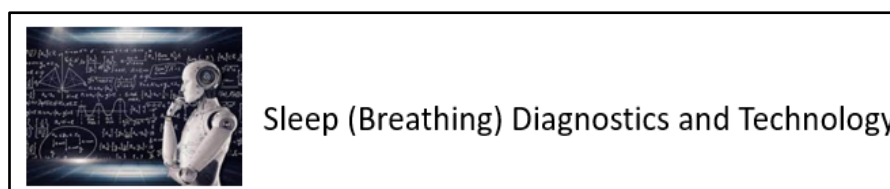
[Deprescribing clonazepam in primary care older patients: a feasibility study.](#)

da Silva LGR, da Silva Pinto AW, de Queiroz WE, Coelho CC, Blatt CR, Oliveira MG, de Lima Pimentel AC, **Elseviers M**, Baldoni AO.

Int J Clin Pharm. 2022 Apr;44(2):489-498. doi: 10.1007/s11096-021-01371-7.

University of Ghent (UGent) – University of Antwerp (UA)

∞



Original research

[In search of a cut-off apnea-hypopnea index in type 3 home portable monitors to diagnose and treat obstructive sleep apnea: a mathematical simulation.](#)

Buyse B, Borzée P, Kalkanis A, Testelmans D.

J Sleep Res. 2023 Feb;32(1):e13706. doi: 10.1111/jsr.13706. Epub 2022 Sep 4.

University of Leuven (KUL)

[Clinical polysomnographic methods for estimating pharyngeal collapsibility in obstructive sleep apnea.](#)

Vena D, Taranto-Montemurro L, Azarbarzin A, **Op de Beeck S**, Marques M, **Vanderveken OM**, Edwards BA, Gell L, Calianese N, Hess LB, Radmand R, Hamilton GS, Joosten SA, **Verbraecken J**, **Braem M**, White DP, Redline S, Sands SA, Wellman A.
Sleep. 2022 Jun 13;45(6). doi: 10.1093/sleep/zsac050.

University of Antwerp (UA)

Meta-analyses, (systematic) reviews and others

[Sleep and Circadian Disturbance in Disorders of Consciousness: Current Methods and the Way towards Clinical Implementation.](#)

Van der Lande GJM, Blume C, **Annen J**.
Semin Neurol. 2022 Jun;42(3):283-298. doi: 10.1055/a-1893-2785.

University of Liège (ULiège)

∞



Original research

[Validation of mandibular movements' analysis to measure sleep in adults with sleep complaints by comparison with actigraphy and polysomnography.](#)

Chakar B, **Senny F**, **Cambron L**, **Poirrier AL**, **Bruwier A**, **Baharloo F**, **Poirrier R**.
Sleep Sci. 2022 Jul-Sep;15(3):318-325. doi: 10.5935/1984-0063.20220057.

University of Liège (ULiège) – Centre Hospitalier Régionale de la Citadelle, Liège

[Five-year Outcomes of Sleeve Gastrectomy: A Prospective Multicenter Study.](#)

El Moussaoui I, **Van Vyve E**, **Johanet H**, **Dabrowski A**, **Piquard A**, **Delaunay T**, **Navez B**, **Hauters P**, **Sirisier F**, **Loi P**, **Closset J**.

Am Surg. 2022 Jun;88(6):1224-1229. doi: 10.1177/0003134821991984.

Université Libre de Bruxelles (ULB) – Université Catholique de Louvain (UCL) – Clinique Saint Jean, Bruxelles - CH Wapi, Tournai

[A pilot study on comparison of subjective titration versus remotely controlled mandibular positioning during polysomnography and drug-induced sleep endoscopy, to determine the effective protrusive position for mandibular advancement device therapy.](#)

Kazemeini E, Op de Beeck S, Vroegop A, Van Loo D, Willemen M, Verbraecken J, Braem MJ, Vanderveken OM, Dieltjens M.
Sleep Breath. 2022 Dec;26(4):1837-1845. doi: 10.1007/s11325-022-02569-3.
University of Antwerp (UA)

[The effect of tongue elevation muscle training in patients with obstructive sleep apnea: A randomised controlled trial.](#)

Poncin W, Correvon N, Tam J, Borel JC, Berger M, Liistro G, Mwenge B, Heinzer R, Contal O.
J Oral Rehabil. 2022 Nov;49(11):1049-1059. doi: 10.1111/joor.13369.
Université Catholique de Louvain (UCL)

[Multimodal phenotypic labelling using drug-induced sleep endoscopy, awake nasendoscopy and computational fluid dynamics for the prediction of mandibular advancement device treatment outcome: a prospective study.](#)

Van den Bossche K, Op de Beeck S, Dieltjens M, Verbruggen AE, Vroegop AV, Verbraecken JA, Van de Heyning PH, Braem MJ, Vanderveken OM.
J Sleep Res. 2022 Dec;31(6):e13673. doi: 10.1111/jsr.13673.
University of Antwerp (UA)

[Mandibular advancement device therapy in patients with epiglottic collapse.](#)

Van de Perck E, Dieltjens M, Vroegop AV, Verbraecken J, Braem M, Vanderveken OM.
Sleep Breath. 2022 Dec;26(4):1915-1920. doi: 10.1007/s11325-021-02532-8.
University of Antwerp (UA)

[Functional imaging improves patient selection for mandibular advancement device treatment outcome in sleep-disordered breathing: a prospective study.](#)

Van Gaver H, Op de Beeck S, Dieltjens M, De Backer J, Verbraecken J, De Backer WA, Van de Heyning PH, Braem MJ, Vanderveken OM.
J Clin Sleep Med. 2022 Mar 1;18(3):739-750. doi: 10.5664/jcsm.9694.
University of Antwerp (UA)

[Quality of Life and Excessive Daytime Sleepiness in Adults with Obstructive Sleep Apnea Who Are Treated with Multilevel Surgery or Adherent to Continuous Positive Airway Pressure.](#)

Iannella G, Magliulo G, Lo Iacono CAM, Visconti IC, Lechien JR, Perrone T, Cammaroto G, Meccariello G, Maniaci A, Cocuzza S, Di Luca M, De Vito A, Martone C, Polimeni A, Greco A, de Vincentiis M, Ralli M, Pace A, Gulotta G, Pelucchi S, Eplite A, Vicini C.
J Clin Med. 2022 Apr 23;11(9). doi: 10.3390/jcm11092375.
University of Mons (UMons)

[The Effects of Barbed Repositioning Pharyngoplasty in Positional and Non-Positional OSA Patients: A Retrospective Analysis.](#)

Cammaroto G, Moretti C, Di Prinzio G, Campomagnani I, Iannella G, Cannavici A, Meccariello G, De Vito A, Maniaci A, Lechien JR, Chiesa-Estomba C, Calvo-Henriquez C, Martinez Ruiz de Apodaca P, Carrasco Llatas M, Bahgat AY, Plaza G, O'Connor-Reina C, Cerritelli L, Corazzi V, Bianchini C, Ciorba A, Pelucchi S, Vicini C.
J Clin Med. 2022 Nov 15;11(22). doi: 10.3390/jcm11226749.
University of Mons (UMons)

[International palate surgery questionnaire.](#)

Bahgat A, Alkan U, Carrasco Ilatas M, Dos Santos Sobreira Nunes H, Iannella G, Meccariello G, Cannavici A, De Vito A, Vicini C, **Lechien JR**, Calvo-Henriquez C, Chiesa-Estomba C, Bianchi G, Cammaroto G.

Sleep Breath. 2022 Jun 16; doi: 10.1007/s11325-022-02631-0.

University of Mons (UMons)

[Head-Of-Bed Elevation \(HOBE\) for Improving Positional Obstructive Sleep Apnea \(POSA\): An Experimental Study.](#)

Iannella G, Cammaroto G, Meccariello G, Cannavici A, Gobbi R, **Lechien JR**, Calvo-Henríquez C, Bahgat A, Di Prinzio G, Cerritelli L, Maniaci A, Cocuzza S, Polimeni A, Magliulo G, Greco A, de Vincentiis M, Ralli M, Pace A, Polimeni R, Lo Re F, Morciano L, Moffa A, Casale M, Vicini C. *J Clin Med*. 2022 Sep 23;11(19). doi: 10.3390/jcm11195620.

University of Mons (UMons)

[Anxiety, depression and sleepiness in OSA patients treated with barbed reposition pharyngoplasty: a prospective study.](#)

Maniaci A, Ferlito S, **Lechien JR**, Di Luca M, Iannella G, Cammaroto G, Cannavici A, Pollicina I, Stilo G, Di Mauro P, Magliulo G, Pace A, Vicini C.

Eur Arch Otorhinolaryngol. 2022 Aug;279(8):4189-4198. doi: 10.1007/s00405-022-07369-9.

University of Mons (UMons)

[Management of obstructive sleep apnea in Europe - A 10-year follow-up.](#)

Fietze I, Laharnar N, Bargiotas P, Basoglu OK, Dogas Z, Drummond M, Fanfulla F, Gislason T, Gouveris H, Grote L, Hein H, Jennum P, Joppa P, van Kralingen K, Kvamme JA, Lombardi C, Ludka O, Mallin W, Marrone O, McNicholas WT, Mihaicuta S, Montserrat J, Pillar G, Pataka A, Randerath W, Riha RL, Roisman G, Saaresranta T, Schiza SE, Sliwinski P, Svaza J, Steiropoulos P, Tamisier R, **Testelmans D**, Trakada G, **Verbraecken J**, Zablockis R, Penzel T.

Sleep Med. 2022 Sep;97:64-72. doi: 10.1016/j.sleep.2022.06.001.

University of Leuven (KUL) – University of Antwerp (UA)

[Similar effect of hypoglossal nerve stimulation for obstructive sleep apnea in 5 disease severity categories.](#)

Bosschieter PFN, de Vries N, Mehra R, Manchanda S, Padhya TA, **Vanderveken OM**, Ravesloot MJL.

J Clin Sleep Med. 2022 Jun 1;18(6):1657-1665. doi: 10.5664/jcsm.9956.

University of Antwerp (UA)

[Bilateral vs Unilateral Hypoglossal Nerve Stimulation in Patients With Obstructive Sleep Apnea.](#)

Heiser C, Sommer JU, Hofauer B, de Vries N, Ravesloot MJ, **Vanderveken OM**, Jira D.

OTO Open. 2022 Jul-Sep;6(3):2473974X221109794. doi:

10.1177/2473974X221109794. eCollection 2022 Jul-Sep.

University of Antwerp (UA)

[Arterial bicarbonate is associated with hypoxic burden and uncontrolled hypertension in obstructive sleep apnea - The ESADA cohort.](#)

Zou D, Grote L, Basoglu OK, **Verbraecken J**, Schiza S, Sliwinski P, Steiropoulos P, Lombardi C, Hein H, Pépin JL, Parati G, McNicholas WT, Hedner J.

[Sleep Med.](#) 2023 Feb;102:39-45. doi: 10.1016/j.sleep.2022.11.041.

University of Antwerp (UA)

[Central and mixed sleep apnea related to patients treated with maxillomandibular advancement for obstructive sleep apnea: A retrospective cohort study.](#)

Ho JTF, Zhou N, **Verbraecken J**, Vries N, Lange J.

[J Craniomaxillofac Surg.](#) 2022 Jul;50(7):537-542. doi: 10.1016/j.jcms.2022.06.005.

University of Antwerp (UA)

Meta-analyses, (systematic) reviews and others

[Endocrine disorders in obstructive sleep apnoea syndrome: A bidirectional relationship.](#)

Akset M, Poppe KG, Kleynen P, Bold I, Bruyneel M.

[Clin Endocrinol \(Oxf\).](#) 2023 Jan;98(1):3-13. doi: 10.1111/cen.14685. Epub 2022 Feb 19.

Université Libre de Bruxelles (ULB)

[Telemonitoring for the Follow-Up of Obstructive Sleep Apnea Patients Treated with CPAP: Accuracy and Impact on Therapy.](#)

Dusart C, Andre S, Mettay T, Bruyneel M.

[Sensors \(Basel\).](#) 2022 Apr 5;22(7). doi: 10.3390/s22072782.

Université Libre de Bruxelles (ULB)

[In Response to Assessment of Laryngopharyngeal Reflux and Obstructive Sleep Apnea: A Population-Based Study.](#)

Lechien JR, Hamdan AL, Saibene A, Vaira LA.

[Laryngoscope.](#) 2023 Mar;133(3):E17-E18. doi: 10.1002/lary.30301. Epub 2022 Jul 14.

University of Mons (UMons)

[Critical to Know Pcrit: A Review on Pharyngeal Critical Closing Pressure in Obstructive Sleep Apnea.](#)

Kazemeini E, Van de Perck E, Dieltjens M, Willemen M, Verbraecken J, Op de Beeck S, Vanderveken OM.

[Front Neurol.](#) 2022;13:775709. doi: 10.3389/fneur.2022.775709.

University of Antwerp (UA)

[Building a home ventilation programme: population, equipment, delivery and cost.](#)

Toussaint M, Wijkstra PJ, McKim D, Benditt J, Winck JC, Nasiłowski J, Borel JC.

[Thorax.](#) 2022 Jul 22;. doi: 10.1136/thoraxjnl-2021-218410.

Université Libre de Bruxelles (ULB)

[Non-CPAP therapy for obstructive sleep apnoea.](#)

Verbraecken J, Dieltjens M, Op de Beeck S, Vroegop A, Braem M, Vanderveken O, Randerath W.
Breathe (Sheff). 2022 Sep;18(3):220164. doi: 10.1183/20734735.0164-2022.
University of Antwerp (UA)

[More than sleepiness: prevalence and relevance of nonclassical symptoms of obstructive sleep apnea.](#)

Verbraecken J.
Curr Opin Pulm Med. 2022 Nov 1;28(6):552-558. doi: 10.1097/MCP.0000000000000915.
University of Antwerp (UA)

[Dental sleep-related conditions and the role of oral healthcare providers: A scoping review.](#)

Huang Z, Zhou N, Lobbezoo F, Almeida FR, Cistulli PA, **Dieltjens M**, Huynh NT, Kato T, Lavigne GJ, Masse JF, Pliska BT, van de Rijdt L, Sutherland K, Thymi M, **Vanderveken OM**, de Vries R, Aarab G.
Sleep Med Rev. 2023 Feb;67:101721. doi: 10.1016/j.smrv.2022.101721. Epub 2022 Nov 19.
University of Antwerp (UA)

[Lateral pharyngoplasty vs. traditional uvulopalatopharyngoplasty for patients with OSA: systematic review and meta-analysis.](#)

Maniaci A, Di Luca M, **Lechien JR**, Iannella G, Grillo C, Grillo CM, Merlino F, Calvo-Henriquez C, De Vito A, Magliulo G, Pace A, Vicini C, Cocuzza S, Bannò V, Pollicina I, Stilo G, Bianchi A, La Mantia I.
Sleep Breath. 2022 Dec;26(4):1539-1550. doi: 10.1007/s11325-021-02520-y.
University of Mons (UMons)

[Remote Monitoring of Positive Airway Pressure Data: Challenges, Pitfalls, and Strategies to Consider for Optimal Data Science Applications.](#)

Bottaz-Bosson G, Midelet A, Mendelson M, Borel JC, **Martinot JB**, Le Hy R, Schaeffer MC, Samson A, Hamon A, Tamisier R, Malhotra A, Pépin JL, Bailly S.
Chest. 2022 Dec 2;. doi: 10.1016/j.chest.2022.11.034.
Université Catholique de Louvain (UCL), Namur

[Obstructive sleep apnea: transition from pathophysiology to an integrative disease model.](#)

McNicholas WT, **Pevernagie D.**
J Sleep Res. 2022 Aug;31(4):e13616. doi: 10.1111/jsr.13616.
University of Ghent (UGent)

["Sleepiness" in obstructive sleep apnea: getting into deep water.](#)

Kallweit U, **Pevernagie D**, Lammers GJ.
Sleep Med. 2022 Apr;92:64-66. doi: 10.1016/j.sleep.2022.02.015.
University of Ghent (UGent)

[Overlaps between obstructive sleep apnoea and other respiratory diseases, including COPD, asthma and interstitial lung disease.](#)

Bouloukaki I, Fanaridis M, **Testelmans D**, Pataka A, Schiza S.
Breathe (Sheff). 2022 Sep;18(3):220073. doi: 10.1183/20734735.0073-2022.

University of Leuven (KUL)

[International consensus statement on obstructive sleep apnea.](#)

Chang JL, Goldberg AN, Alt JA, Ashbrook L, Auckley D, Ayappa I, Bakhtiar H, Barrera JE, Bartley BL, Billings ME, Boon MS, Bosschieter P, Braverman I, Brodie K, Cabrera-Muffly C, Caesar R, Cahali MB, Cai Y, Cao M, Capasso R, Caples SM, Chahine LM, Chang CP, Chang KW, Chaudhary N, Cheong CSJ, Chowdhuri S, Cistulli PA, Claman D, Collen J, Coughlin K, Creamer J, Davis EM, Dupuy-McCauley KL, Durr ML, Dutt M, Ali ME, Elkassabany NM, Epstein LJ, Fiala JA, Freedman N, Gill K, Gillespie MB, Golisch L, Gooneratne N, Gottlieb DJ, Green KK, Gulati A, Gurubhagavatula I, Hayward N, Hoff PT, Hoffmann OMG, Holfinger SJ, Hsia J, Huntley C, Huoh KC, Huyett P, Inala S, Ishman S, Jella TK, Jobanputra AM, Johnson AP, Junna MR, Kado JT, Kaffenberger TM, Kapur VK, Kezirian EJ, Khan M, Kirsch DB, Kominsky A, Kryger M, Krystal AD, Kushida CA, Kuzniar TJ, Lam DJ, Lettieri CJ, Lim DC, Lin HC, Liu SYC, MacKay SG, Magalang UJ, Malhotra A, Maurer JT, May AM, Mitchell RB, Mokhlesi B, Mullins AE, Nada EM, Naik S, Nokes B, Olson MD, Pack AI, Pang EB, Pang KP, Patil SP, **Van de Perck EV**, Piccirillo JF, Pien GW, Piper AJ, Plawecki A, Quigg M, Ravesloot MJL, Redline S, Rotenberg BW, Ryden A, Sarmiento KF, Sbeih F, Schell AE, Schmickl CN, Schotland HM, Schwab RJ, Seo J, Shah N, Shelgikar AV, Shochat I, Soose RJ, Steele TO, Stephens E, Stepnowsky C, Strohl KP, Sutherland K, Suurna MV, Thaler E, Thapa S, **Vanderveken OM**, de Vries N, Weaver EM, Weir ID, Wolfe LF, Woodson BT, Won CHJ, Xu J, Yalmanchi P, Yaremchuk K, Yeghiazarians Y, Yu JL, Zeidler M, Rosen IM.

Int Forum Allergy Rhinol. 2022 Sep 6;. doi: 10.1002/alr.23079.

University of Antwerp (UA)

[Investigation and management of residual sleepiness in CPAP-treated patients with obstructive sleep apnoea: the European view.](#)

Craig S, Pépin JL, Randerath W, Caussé C, **Verbraecken J**, Asin J, Barbé F, Bonsignore MR.

Eur Respir Rev. 2022 Jun 30;31(164). doi: 10.1183/16000617.0230-2021.

University of Antwerp (UA)

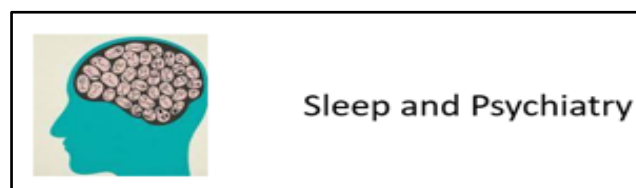
[Current and novel treatment options for obstructive sleep apnoea.](#)

Randerath W, de Lange J, Hedner J, Ho JPTF, Marklund M, Schiza S, Steier J, **Verbraecken J**.

ERJ Open Res. 2022 Apr;8(2). doi: 10.1183/23120541.00126-2022. eCollection 2022 Apr.

University of Antwerp (UA)

∞



Original research

[An examination of the reciprocal associations between physical activity and anxiety, depressive symptoms, and sleep quality during the first 9 weeks of the COVID-19 pandemic in Belgium.](#)

Morbée S, Beeckman M, Loeyts T, Waterschoot J, Cardon G, Haerens L, Vansteenkiste M. *Ment Health Phys Act.* 2023 Mar;24:100500. doi: 10.1016/j.mhpa.2022.100500. Epub 2022 Dec 8.

University of Ghent (UGent)

[Tailored individual Yoga practice improves sleep quality, fatigue, anxiety, and depression in chronic insomnia disorder.](#)

Turmel D, Carlier S, Bruyneel AV, Bruyneel M. *BMC Psychiatry.* 2022 Apr 14;22(1):267. doi: 10.1186/s12888-022-03936-w.

Université Libre de Bruxelles (ULB)

[Bottom-Up and Cognitive Top-Down Emotion Regulation: Experiential Emotion Regulation and Cognitive Reappraisal on Stress Relief and Follow-Up Sleep Physiology.](#)

Wang Y, Vlemincx E, Vantieghem I, Dhar M, Dong D, Vandekerckhove M. *Int J Environ Res Public Health.* 2022 Jun 22;19(13). doi: 10.3390/ijerph19137621.

Vrije Universiteit Brussel (VUB) – University of Ghent (UGent) – University of Antwerp (UA)

[The Implication of the First Wave of COVID-19 on Mental Health: Results from a Portuguese Sample.](#)

Quintas J, Guerreiro A, de Carvalho MJL, Duarte V, Pedro AR, Gama AF, **Keygnaert I**, Dias S. *Int J Environ Res Public Health.* 2022 May 26;19(11). doi: 10.3390/ijerph19116489.

University of Ghent (UGent)

[Stressor reflections, sleep, and psychological well-being: A pre-registered experimental test of self-distanced versus self-immersed reflections.](#)

Riddell H, Crane M, **Lang JWB**, Chapman MT, Murdoch EM, Gucciardi DF. *Stress Health.* 2022 Sep 27;. doi: 10.1002/smi.3201.

University of Ghent (UGent)

[Assessment of Sleep Features, Mental Health Outcomes, and Alcohol and Tobacco Consumption in Residents and Fellows in Otolaryngology Before and During the COVID-19 Pandemic.](#)

Chebib E, Chiesa-Estomba CM, Radulesco T, Barillari MR, Mayo-Yáñez M, Hans S, **Lechien JR.** *JAMA Otolaryngol Head Neck Surg.* 2022 Aug 1;148(8):719-723. doi: 10.1001/jamaoto.2022.1210.

University of Mons (UMons)



Insomnia, sleep quality

Original research

[Predictors for physical activity and its change after active physical therapy in people with spinal pain and insomnia: Secondary analysis of a randomized controlled trial.](#)

Bilteryx T, Van Looveren E, Mairesse O, Nijs J, Meeus M, Ickmans K, Cagnie B, Goubert D, Willaert W, De Pauw R, Danneels L, Moens M, Malfliet A.

Braz J Phys Ther. 2022 Nov-Dec;26(6):100456. doi: 10.1016/j.bjpt.2022.100456.

Vrije Universiteit Brussel (VUB) – Université Libre de Bruxelles (ULB) – University of Ghent (UGent)

[Development and evaluation of a 3D printing protocol to produce zolpidem-containing printlets, as compounding preparation, by the pressurized-assisted microsyringes technique.](#)

Callede N, Masciotti T, Casettari L, Loosveldt N, Goole J.

Int J Pharm. 2022 Jun 10;621:121756. doi: 10.1016/j.ijpharm.2022.121756.

Université Libre de Bruxelles (ULB) – McKesson Company, SA Pharma Belgium-Belmedes NV, Brussels

[Co-design to increase implementation of insomnia guidelines in primary care.](#)

Coteur K, Matheï C, Schoenmakers B, Van Nuland M.

Patient Educ Couns. 2022 Dec;105(12):3558-3565. doi: 10.1016/j.pec.2022.08.018.

University of Leuven (KUL)

[Nocturia severely impairs the sleep quality of nursing home residents: results from a multi-center study.](#)

Haddad R, Decalf V, Monaghan TF, Van Laecke E, Bower W, Goessaert AS, Petrovic M, Everaert K.

Geriatr Nurs. 2022 Nov-Dec;48:164-168. doi: 10.1016/j.gerinurse.2022.09.009.

University of Ghent (UGent)

[Sleep Quality and Insomnia Are Associated With Quality of Life in Functional Dyspepsia.](#)

Wuestenberghs F, Melchior C, Desprez C, Leroi AM, Netchitailo M, Gourcerol G.

Front Neurosci. 2022;16:829916. doi: 10.3389/fnins.2022.829916.

Université Catholique de Louvain (UCL), Namur

[Psychometric Validation of the Athens Insomnia Scale Among Nurses: A Robust Approach Using Both Classical Theory and Rating Scale Model Parameters.](#)

Manzar MD, Albougami A, Hassen HY, Sikkandar MY, Pandi-Perumal SR, Bahammam AS.

Nat Sci Sleep. 2022;14:725-739. doi: 10.2147/NSS.S325220.

University of Antwerp (UA)

Meta-analyses, (systematic) reviews and others

Drug-Induced Insomnia and Excessive Sleepiness.

Van Gastel A.

Sleep Med Clin. 2022 Sep;17(3):471-484. doi: 10.1016/j.jsmc.2022.06.011.

University of Antwerp (UA)

Combining Cognitive Behavioral Therapy for Insomnia and Chronic Spinal Pain Within Physical Therapy: A Practical Guide for the Implementation of an Integrated Approach.

Van Looveren E, Meeus M, Cagnie B, Ickmans K, Bilterys T, Malfliet A, Goubert D, Nijs J, Danneels L, Moens M, Mairesse O.

Phys Ther. 2022 Aug 4;102(8). doi: 10.1093/ptj/pzac075.

Vrije Universiteit Brussel (VUB) – University of Antwerp (UA) - Université Libre de Bruxelles (ULB) – University of Ghent (UGent)

Prescription Drugs Used in Insomnia.

Dujardin S, Pijpers A, Pevernagie D.

Sleep Med Clin. 2022 Sep;17(3):315-328. doi: 10.1016/j.jsmc.2022.06.001.

University of Ghent (UGent)

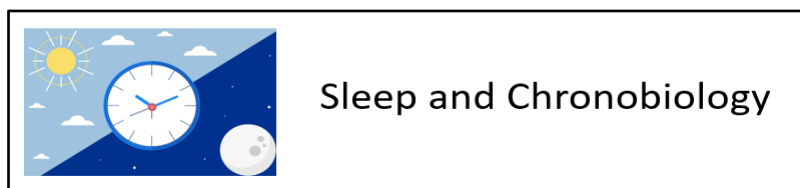
Comparative efficacy and acceptability of cognitive behavioral therapy delivery formats for insomnia in adults: A systematic review and network meta-analysis.

Gao Y, Ge L, Liu M, Niu M, Chen Y, Sun Y, Chen J, Yao L, Wang Q, Li Z, Xu J, Li M, Hou L, Shi J, Yang K, Cai Y, Li L, Zhang J, Tian J.

Sleep Med Rev. 2022 Aug;64:101648. doi: 10.1016/j.smr.2022.101648.

University of Leuven (KUL)

∞



Original research

Daytime sleepiness and circadian rhythm disturbance due to pineal and pontine damage.

Ammar N, Attarian H, Wilson A.

Sleep Med. 2022 Jan;89:90-92. doi: 10.1016/j.sleep.2021.12.001. Epub 2021 Dec 8.

Université Catholique de Louvain (UCL)

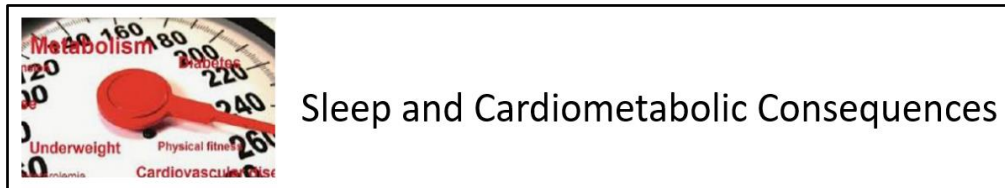
[SHIFTPLAN: a randomized controlled trial investigating the effects of a multimodal shift-work intervention on drivers' fatigue, sleep, health, and performance parameters.](#)

Declercq I, Van Den Eede F, Roelant E, Verbraecken J.

Trials. 2022 Aug 17;23(1):662. doi: 10.1186/s13063-022-06573-6.

University of Antwerp (UA)

∞



Original research

[Mandibular advancement device treatment and reverse left ventricular hypertrophic remodeling in patients with obstructive sleep apnea.](#)

Dieltjens M, Vanderveken OM, Shivalkar B, Van Haesendonck G, Kastoer C, Heidbuchel H, Braem MJ, Van De Heyning CM.

J Clin Sleep Med. 2022 Mar 1;18(3):903-909. doi: 10.5664/jcsm.9766.

University of Antwerp (UA)

[Obstructive sleep apnea is not associated with diabetic retinopathy in diabetes: a prospective case-control study.](#)

El Ouardighi H, Poppe KG, Kleynen P, Grabzcan L, Veltri F, Bruyneel AV, Nguyen PAH, Bruyneel M.

Sleep Breath. 2023 Mar;27(1):121-128. doi: 10.1007/s11325-022-02578-2.

Université Libre de Bruxelles (ULB)

[Cardiovascular risk associated with co-morbid insomnia and sleep apnoea \(COMISA\) in type 2 diabetics.](#)

Hein M, Lanquart JP, Mungo A, Loas G.

Sleep Sci. 2022 Jan-Mar;15(Spec 1):184-194. doi: 10.5935/1984-0063.20220018.

Université Libre de Bruxelles (ULB)

[Personalized assessment of the cumulative complication risk of the atrial fibrillation ablation track: The AF-TRACK calculator.](#)

Bisbal F, Abugattas JP, Trotta O, Gonzalez-Ferrer JJ, Sauri-Ortiz A, Arias MA, Subirana I, Duytshaever M, De Pooter J, Sarrias A, Adeliño R, Alarcón F, Mont L, Pérez-Villacastín J, Osca-Asensi J, Villuendas R, Pachón-Iglesias M, El Haddad M, Bayés-Genís A, de Greef Y.

Heart Rhythm O2. 2022 Dec;3(6Part A):656-664. doi: 10.1016/j.hroo.2022.07.013.

ZNA, Middelheim, Antwerpen – University of Ghent (UGent) – Vrije Universiteit Brussel (VUB)

Meta-analyses, (systematic) reviews and others

[Impact of Desaturation Patterns versus Apnea-Hypopnea Index in the Development of Cardiovascular Comorbidities in Obstructive Sleep Apnea Patients.](#)

Blekic N, Bold I, Mettay T, Bruyneel M.

Nat Sci Sleep. 2022;14:1457-1468. doi: 10.2147/NSS.S374572.

Université Libre de Bruxelles (ULB)

[Risk of Cardiovascular Disease in Apnoeic Individuals: Role of Comorbid Insomnia Disorder.](#)

Hein M, Wacquier B, Lanquart JP, Loas G.

Life (Basel). 2022 Jun 23;12(7). doi: 10.3390/life12070944.

Université Libre de Bruxelles (ULB)

[A systematic review on the association of sleep-disordered breathing with cardiovascular pathology in adults.](#)

Khokhrina A, Andreeva E, Degryse JM.

NPJ Prim Care Respir Med. 2022 Oct 17;32(1):41. doi: 10.1038/s41533-022-00307-6.

Université Catholique de Louvain (UCL), University of Leuven (KUL)

[Sleep apnoea management in atrial fibrillation in clinical practice: key messages for health care professionals based on a joint survey by EHRA and ACNAP.](#)

Hendriks JM, Lee G, **Desteghe L**, Linz D.

Eur J Cardiovasc Nurs. 2022 Oct 14;21(7):641-642. doi: 10.1093/eurjcn/zvab082.

University of Antwerp (UA), University of Hasselt (UHasselt)

[Obstructive Sleep Apnea and Atrial Fibrillation.](#)

Moula AI, Parrini I, Tetta C, Lucà F, Parise G, Rao CM, Mauro E, Parise O, Matteucci F, Gulizia MM, **La Meir M, Gelsomino S.**

J Clin Med. 2022 Feb 25;11(5). doi: 10.3390/jcm11051242.

Vrije Universiteit Brussel (VUB)

[Deprescribing antihypertensive drugs after starting OSA primary therapy?.](#)

Revol B, Castelli C, Ben Messaoud R, Coffy A, Bailly S, Jullian-Desayes I, **Martinot JB, Martinot P**, Joyeux-Faure M, Pépin JL.

Sleep. 2022 May 12;45(5). doi: 10.1093/sleep/zsac060.

Université Catholique de Louvain (UCL)

[CPAP for secondary cardiovascular prevention in obstructive sleep apnoea patients: not only one moon, but many stars.](#)

Baillieux S, Shah NM, Dharmasena R, Schiza S, **Testelmans D**, Pataka A.

Breathe (Sheff). 2022 Sep;18(3):220148. doi: 10.1183/20734735.0148-2022.

University of Leuven (KUL)



Original research

[Anthropogenic noise and light pollution additively affect sleep behaviour in free-living birds in sex- and season-dependent fashions.](#)

Grunst AS, Grunst ML, Raap T, Pinxten R, Eens M.

Environ Pollut. 2023 Jan 1;316(Pt 1):120426. doi: 10.1016/j.envpol.2022.120426.

University of Antwerp (UA)

[Adult Female Sleep During Hypoxic Bed Rest.](#)

Van Cutsem J, Pattyn N, Mairesse O, Delwiche B, Fernandez Tellez H, Van Puyvelde M, Lacroix E, McDonnell AC, Eiken O, Mekjavic IB.

Front Neurosci. 2022;16:852741. doi: 10.3389/fnins.2022.852741.

Royal Military Academy Brussels – Université Libre de Bruxelles (ULB) – Vrije Universiteit Brussel (VUB)

[The effects of a real-life lifestyle program on physical activity and objective and subjective sleep in adults aged 55+ years.](#)

Vanderlinden J, Boen F, Puyenbroeck SV, van Uffelen JGZ.

BMC Public Health. 2022 Feb 19;22(1):353. doi: 10.1186/s12889-022-12780-2.

University of Leuven (KUL)

[Predicting Youth Athlete Sleep Quality and the Development of a Translational Tool to Inform Practitioner Decision Making.](#)

Suppiah HT, Swinbourne R, Wee J, He Q, Pion J, Driller MW, Gastin PB, Carey DL.

Sports Health. 2022 Jan-Feb;14(1):77-83. doi: 10.1177/194173812111056078.

University of Ghent (UGent)

Meta-analyses, (systematic) reviews and others

[Narcolepsy and H1N1 influenza immunology a decade later: What have we learned?.](#)

Buonocore SM, van der Most RG.

Front Immunol. 2022;13:902840. doi: 10.3389/fimmu.2022.902840.

GSK, Rixensart, Belgium

[A State-of-the-Art Review on the Use of Modafinil as A Performance-enhancing Drug in the Context of Military Operationality.](#)

Van Puyvelde M, Van Cutsem J, Lacroix E, Pattyn N.

Mil Med. 2022 Jan 4;187(1-2):52-64. doi: 10.1093/milmed/usab398.

Military Academy Brussels – Vrije Universiteit Brussel (VUB)

[Moving Beyond "Leaning In"-It Is Time to Reach Out and Partner to Solve the Military Sleep Problem.](#)

Collen J, Capaldi VF, Williams SG, **Labra C**, Assefa SZ, Abdelwadoud M, Mullins CD, Manber R, Mahoney A, Bevan J, Drake CL, Albrecht JS, Edwards H, Grandner MA, Wickwire EM.

Mil Med. 2022 May 3;187(5-6):158. doi: 10.1093/milmed/usab530.

SHAPE, Healthcare facility, Mons

[10-year anniversary of the European Somnologist examination - A historic overview and critical appraisal.](#)

Grote L, **Pevernagie D**, Bruni O, Deboer T, Garcia-Borreguero D, Hill EA, Penzel T, Puertas FJ, Wiechmann A, Verspaandonk M, Paunio T.

J Sleep Res. 2022 Aug;31(4):e13667. doi: 10.1111/jsr.13667.

University of Ghent (UGent)

[The European Sleep Research Society - past, present and future.](#)

Deboer T, Arnardóttir ES, Landolt HP, Luppi PH, McNicholas WT, **Pevernagie D**, Plazzi G.

J Sleep Res. 2022 Aug;31(4):e13601. doi: 10.1111/jsr.13601.

University of Ghent (UGent)

[The history and role of the Assembly of National Sleep Societies \(ANSS\) within the European Sleep Research Society \(ESRS\).](#)

van der Werf YD, Korostovtseva L, Khachatryan SG, Deleanu OC, Young P, Gnidovec-Stražičar B, Engstrøm M, Arnardóttir ES, **Verbraecken J**, **Pevernagie D**.

J Sleep Res. 2022 Aug;31(4):e13663. doi: 10.1111/jsr.13663.

University of Antwerp (UA) – University of Ghent (UGent)