

## Envisioning a Sleep-Friendly India: Tackling the Drivers and Repercussions of a National Sleep Deficit Crisis

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**Abstract** – Sleep is a fundamental human need, yet many people struggle to get adequate, good quality sleep. This article examines the sleep landscape in India, where studies show a majority of adults fail to get the recommended 7–9 hours of sleep per night. It delves into the reasons behind India's sleep deficit, including frequent nighttime awakenings, irregular sleep schedules, and external disturbances. The consequences of chronic sleep loss are explored, from impaired cognitive functioning to increased risk of medical conditions like heart disease and diabetes. The article discusses why sleep remains elusive for so many, despite a booming sleep industry worth billions. It suggests shifting the focus from trying to achieve an unrealistic "ideal" amount of sleep to understanding personal sleep needs and addressing the root lifestyle factors disrupting sleep. If sleep is not approached as a high-pressure challenge but accepted as a vital need, people may worry less about sleep and, ironically, sleep better.

**Keywords:** Sleep crisis, Sleep health, Sleep literacy, Sleep hygiene, Sleep disruptors, Sleep policy.

### 1.INTRODUCTION

Sleep. It's one of our most basic human needs, as critical to our health and functioning as air, water, and food. Yet in the breakneck pace of modern life, as we stare at screens late into the night and rise early to cram ever more activities into our days, sleep has become chronically elusive. We toss and turn, distraction after distraction running through our minds, while the clock ticks on mercilessly. Come morning, we woke up feeling as exhausted as when we went to bed.



Fig -1: Factors Contributing to Sleep Deprivation Crisis in India

This sleep deprivation crisis is not unique to any one country. Today, over a third of the world's population



struggles to get sufficient shuteye on a regular basis. But in India, the second most populous nation on Earth with over 1.3 billion people, lack of sleep has reached epidemic proportions. Surveys reveal the average Indian adult sleeps less than even the bare minimum 6 hours per night recommended for basic health. A staggering 59% face disrupted sleep, rising multiple times a night. Just 39% meet the optimal range of 6–8 hours of nightly sleep advised by experts around the world.

As India races towards becoming an economic powerhouse, the drive towards productivity, connectedness and achievement is leaving exhausted, sleep-starved citizens in its wake. We have become a nation of insomniacs, relying on sleeping pills and caffeine to artificially stimulate our lagging energy levels. Yet the true scale of damage being inflicted by this hidden sleep loss epidemic has yet to permeate public awareness.

Behind its benign, invisible fade, chronic sleep deprivation has devastating effects on nearly all aspects of human life. Cognitively, insufficient sleep means compromised decision making, weaker learning ability, decimated focus and creativity. Emotionally, lack of sleep swiftly sinks mood while amplifying anxiety and vulnerability to stress. Physically, deficient sleep escalates the risk of obesity, heart disease, stroke, inflammation, immune dysfunction, diabetes, and premature aging. Sleep loss even heightens risks for potentially fatal accidents and road collisions.

Though rarely viewed as such, scrimping on sleep could accurately be labeled a toxic habit and public health crisis in India. Yet the relentless societal pressures to work harder, achieve more in less time take precedence. Rest, it seems, has become a dispensable luxury. Our fast-paced, highly driven world whirls 24 hours a day, with blinkered disregard for our human need for sleep to replenish body and mind.

Until one day, it catches up with us. That day we get terrifying health scare or narrowly evade a ghastly accident on the commute to work. Crisis finally halts our mad sprint through life, forcing us to confront what our minds and bodies have desperately signaled all along. This cannot continue. Sleep can no longer take a backseat to productivity and material success. For all we strive to achieve hinges on the pillar of healthy sleep, without which we spiral towards physical and mental disintegration.

As individuals, professionals, family, and community members, paying sleep its due must become a top priority in India. For our children, studying through the night for entrance exams. For overburdened working parents juggling relentless demands. For seniors facing fitful nights as health issues mount. Beginning now, we must awaken to the vital role healthy sleep plays for wellbeing, cognition, emotional balance, productivity, and longevity. Only then can India shift course from the hazardous path of sleep neglect upon which it is dangerously racing ahead.

## 2. OBJECTIVE

This article will examine the current sleep landscape in India by exploring relevant surveys and statistics on Indian sleep patterns. It will identify the major reasons behind India's prevalent sleep deficits and disruptions. Subsequently, the critical importance of adequate sleep for health and wellbeing will be overviewed, highlighting the troubling consequences of chronic sleep loss being experienced by much of the Indian population. Reasons why sleep continues to be a challenge globally and in India despite heightened awareness and a booming sleep industry will be analyzed. Finally, recommendations and conclusions will be presented on how to develop a healthier relationship with sleep so that it is seen less as a pressure-filled challenge and more as a vital human need.

### 3. METHODOLOGY

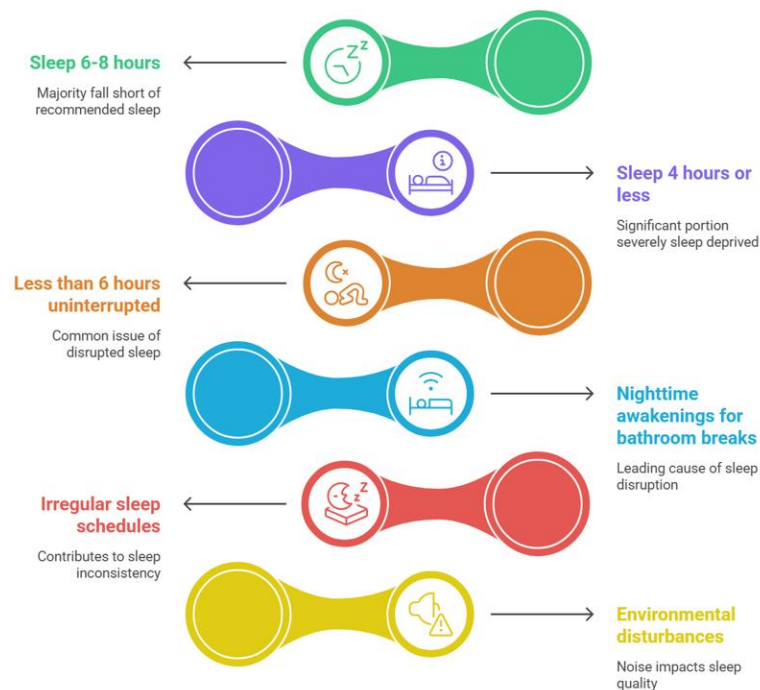
This article synthesizes findings from scholarly research and surveys on sleep in India and worldwide to provide in-depth analysis of the sleep crisis facing India. Data sources include:

- Local Circles sleep survey of over 34,000 Indian citizens
- Additional scholarly research on sleep's impact on health
- Global and Indian sleep statistics from aggregators such as Statista
- Interviews with sleep scientists and experts featured in media reports

The data is analyzed to trace the contours of India's sleep deficit and disruptions, elucidate the drivers behind this crisis, and clearly convey the urgent need for corrective public health action.

### 4. A COMPREHENSIVE OVERVIEW

India is facing a serious sleep crisis, with the majority of adults failing to get the 7–9 hours of quality sleep per night recommended for optimal health and daytime functioning.



**Fig -2:** Sleep Patterns and Challenges in India

#### Statistics Paint a Troubling Picture

- Only 39% of Indian adults sleep 6–8 hours nightly
- 20% sleep just 4 hours or less
- India ranks 2nd globally for most sleep deprived population

#### Sleep Quality Also a Concern

- 59% have less than 6 hours uninterrupted sleep



- Frequent night awakenings disrupt sleep continuity

## Drivers of Sleep Loss

- Nighttime awakenings for bathroom breaks - 72%
- Irregular sleep schedules - 25%
- Environmental disturbances like noise - 22%
- Stress - Work, family, health issues, perpetual connectivity

## Consequences of Insufficient Sleep

Sleep is essential for:

- Restoring body's daily functioning
- Allowing brains to consolidate memories, learning
- Regulating mood, appetite, inflammation, immunity

## Not getting enough impairs:

- Cognitive abilities - focus, productivity, creativity
- Physical health - obesity, diabetes, heart disease
- Mental health - anxiety, depression

## Global Sleep Industry Booming

Valued at \$585 billion annually and growing rapidly

Selling promising solutions:

- High-tech beds, sleep trackers, meditative sleep apps
- Sedative pre-sleep routines - baths, tea, supplements

But sleeplessness persists and grows, highlighting the limitations of the sleep industry in addressing the root lifestyle causes underlying the global and Indian sleep crisis.

## 5. IMPACT

The statistics on India's prevalent sleep deficits should serve as an urgent wake-up call on the heavy toll inadequate sleep is exacting on the health, productivity and wellbeing of much of the population.

Sufficient, high quality sleep is simply non-negotiable for supporting nearly all aspects of optimal human functioning. When sleep is curtailed or disrupted long-term, cascading negative impacts emerge quickly.

Cognitively, poor sleep severely hinders the thinking and performance capacities needed to excel in education, careers and everyday decision-making. Physiologically, the risk for obesity, diabetes, heart disease and stroke rises sharply. Immunity crashes, with frequent colds and flu taking hold.

Moreover, insufficient sleep magnifies risks for depression, anxiety and emotional volatility. It strains relationships, erodes quality of life, and is implicated in an array of accidental injuries and driving fatalities each year.

## 6. HOW THIS WILL HELP FUTURE HUMANS

Learning how to develop healthier sleep behaviors and patterns will have profound benefits for both present and future generations in India and worldwide.

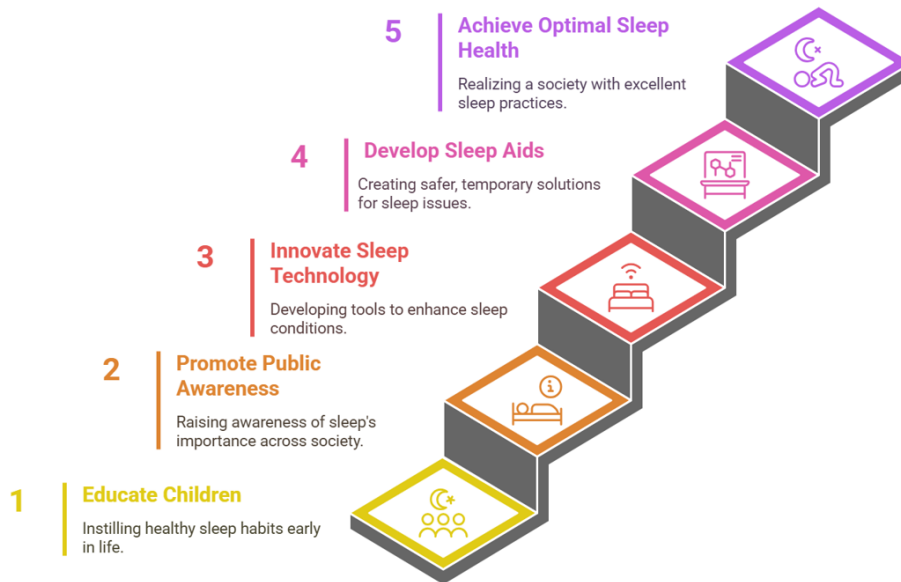


Fig -3: Achieving Global Sleep Health

Getting adequate stable sleep serves as a cornerstone habit supporting peak physical and mental health. It boosts resilience, cognition, immunity, emotional regulation, productivity and longevity.

Healthy sleep behaviors can be cultivated early on in children to set a trajectory supporting happiness and wellbeing throughout their lifespan. Sleep health education should occupy a central position in school curriculum given sleep's far-reaching impacts on learning and development.

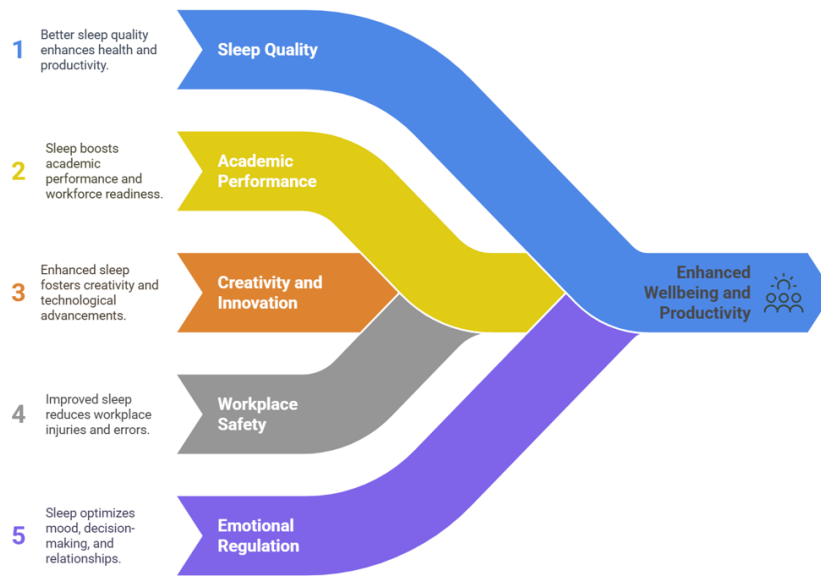
Promoting public understanding on healthy sleep requirements for different age groups can motivate broader societal changes supporting appropriate sleep-promoting behaviors. This spans reasonable work hours, less stimulation before bedtime, dedicated winding down rituals, and sleeping environment modifications to limit disruptions.

Technological innovations like automated home temperature regulation, external noise blocking, and graduated internal lighting hold promise for optimizing sleep conditions. More accurate yet unintrusive sleep tracking devices could provide personalized guidance on sleep duration and quality.

Pharmacological sleep aids could be developed with fewer side effects and risk potential. However, these should only serve as temporary adjuncts, not long-term substitutes for addressing core sleep issues rooted in lifestyle and environment.

## 7. BENEFITS FOR UPCOMING GENERATION AND SOCIETY

Cultivating an empowered, scientifically grounded understanding of sleep as a pillar of health could be profoundly transformative for upcoming generations in India and globally.



**Fig -4:** The Transformative Power of Sleep

Beyond deep personal benefits, broadly improving sleep quality and duration across populations carries enormous potential economic and societal gains.

Well-rested individuals learn faster, work safer, require less medical care, and take fewer sick days. Companies experience improved output and productivity.

Strengthening sleep translates to superior academic performance in schools, powering a better educated and prepared next generation workforce.

As creativity and innovation blossom with improved sleep, entrepreneurship and technological advancements accelerate. Scientific discoveries multiply.

Vigilance on roads, at home and in workplaces heightens, reducing preventable injuries, mistakes and loss of life.

With mood, emotional regulation and decision-making optimized by sleep, personal relationships and overall quality of living flourish across communities.

Taken together, the remarkable benefits generated by uplifting sleep make this an urgent priority for advancing individual and collective wellbeing now and for generations to come.

## 8. FINAL NOTES AND NEXT STEPS

India faces a national sleep crisis, with the majority of adults not meeting the 7–9 hours of quality sleep per night required for maintaining health and optimal daytime functioning. As the statistics and research underscore, deficient sleep severely undercuts work performance, learning abilities, physical health, mental health and quality of life.

While reasons ranging from poor sleep hygiene to environmental disruptions underlie lost sleep, the problem has been refractory to India's booming sleep industry valued at billions of dollars annually.



A conceptual shift is required to move away from the notion of sleep as a high-pressure challenge, best solved by consumption of expensive sleep optimizers. Instead public education should promote realistic sleep need expectations tailored to individuals while addressing modifiable lifestyle and environmental impediments to adequate, restful sleep.

India must make sleep literacy and good sleep hygiene mainstream priorities to reverse the soaring tide of sleep deprivation along with its heavy costs to health, wellbeing and economic productivity.

## 9. DISCUSSION AND RECOMMENDATION

The pervasiveness of sleep deprivation amongst Indian adults stems from complex interacting drivers including nighttime sleep disruptions, irregular sleep-wake timing, work-life demands, and sleep-hindering environments.

Accordingly, sustainable solutions must employ a coordinated, multi-tiered effort addressing these diverse root causes.

At the national level, India would benefit enormously from a centralized task force on sleep health and wellbeing to develop and spearhead key initiatives. This may include:

- Nationwide sleep health awareness campaigns
- Standardized sleep education curriculum implemented in schools
- Incentives and guidelines for employers to improve sleep-friendliness
- Zoning regulations and building codes enforcing minimal nighttime noise limits in residential areas

However, enacting nationwide policy changes around sleep represents a longer-term goal. Concurrently, solutions should empower individuals, families and communities to cultivate healthier sleep now through:

- Learning basic sleep science - sleep cycle, circadian rhythms, sleep needs differ by age
- Identifying and modifying lifestyle and bedrooms for optimal sleep hygiene
- Minimizing sleep disruptors - noise/light, large late night meals, electronic stimulation
- Maintaining a regular pre-bed routine and wind-down period
- Not putting pressure on sleep targets - accept natural variability in sleep needs

By blending a grassroots, bottom-up effort focused on promoting sleep health literacy and good sleep practices together with national policies and programs facilitating sleep-friendly workplaces, schools and infrastructure, India can make tremendous headway in overcoming the current sleep crisis facing much of its adult population.

## 10. CONCLUSION

Adequate, high-quality sleep is vital for nearly all aspects of human health and functioning. Yet as surveys highlight, a majority of Indian adults fail to meet the 7–9 hours nightly sleep range recommended for wellbeing and optimal functioning. Leading drivers of lost and disrupted sleep encompass frequent nighttime awakenings, irregular sleep schedules, unsupportive sleep environments and work-life



imbalance. Chronic sleep deficits exact steep cognitive, physical, emotional and economic costs across individuals and society. While the global sleep industry is booming in India, valued at billions of dollars annually, getting sufficient sleep remains frustratingly elusive for many. What's required includes shifting public messaging away from the notion of sleep as a high-pressure performance target requiring consumer sleep aids. Instead sleep literacy promoting realistic personal sleep need expectations alongside addressing lifestyle and environments for good sleep hygiene merits priority. India must confront the present sleep crisis through multifaceted efforts – national sleep health policies together with community-driven sleep hygiene education. In this way, sleep can be transformed from a source of widespread anxiety into a positive pillar supporting health, productivity and quality of life across society.

## REFERENCES

- [1] Akhtar, N., & Mallick, H. (2019). Recommendations for a national sleep policy in India. *The National Medical Journal of India*, 32(1), 59. <https://doi.org/10.4103/0970-258x.272131>
- [2] Atske, S., & Atske, S. (2024a, July 26). 3. Improvements ahead: How humans and AI might evolve together in the next decade. Pew Research Center. <https://www.pewresearch.org/internet/2018/12/10/improvements-ahead-how-humans-and-ai-might-evolve-together-in-the-next-decade/>
- [3] Atske, S., & Atske, S. (2024b, July 26). Artificial intelligence and the future of humans. Pew Research Center. <https://www.pewresearch.org/internet/2018/12/10/artificial-intelligence-and-the-future-of-humans/>
- [4] Berggruen Institute. (n.d.). <https://berggruen.org/themes/future-humans>
- [5] George, D. (2024b). The rest deficit: Why sleep alone Cannot cure our fatigue. Zenodo. <https://doi.org/10.5281/zenodo.10691450>
- [6] Bureau of Indian Education. (2024, September 17). The role of sleep in student success. <https://www.bie.edu/news-article/role-sleep-student-success>
- [7] Chattu, V. K., Manzar, M. D., Kumary, S., Burman, D., Spence, D. W., & Pandi-Perumal, S. R. (2018a). The global problem of insufficient sleep and its serious public health implications. *Healthcare*, 7(1), 1. <https://doi.org/10.3390/healthcare7010001>
- [8] George, D. (2024a). Sleep Disrupted: The evolving challenge of technology on human sleep patterns over two centuries. Zenodo. <https://doi.org/10.5281/zenodo.11179796>
- [9] Chattu, V. K., Manzar, M. D., Kumary, S., Burman, D., Spence, D. W., & Pandi-Perumal, S. R. (2018b). The global problem of insufficient sleep and its serious public health implications. *Healthcare*, 7(1), 1. <https://doi.org/10.3390/healthcare7010001>
- [10] 'Future Humans, Human Futures' to explore humanity in the age of intelligent machines. (n.d.). College of Liberal Arts and Human Sciences | Virginia Tech. <https://liberalarts.vt.edu/news/articles/2020/08/luce-foundation-grant.html>
- [11] George, D. (2025). The rise of virtual employees: threat to human jobs or pathway to shared prosperity. Zenodo. <https://doi.org/10.5281/zenodo.14751100>
- [12] Gharib, M. (2022, August 16). How can we help humans thrive trillions of years from now? This philosopher has a plan. NPR. <https://www.npr.org/sections/goatsandsoda/2022/08/16/1114353811/how-can-we-help-humans-thrive-trillions-of-years-from-now-this-philosopher-has-a>
- [13] George, D., George, A., & Shahul, A. (2024). The Science and Timing of Power Naps: Investigating the cognitive and physical benefits of brief daytime sleep. Zenodo. <https://doi.org/10.5281/zenodo.10673171>
- [14] Jones, L. (n.d.). What will humans look like in a million years? BBC Earth. <https://www.bbcearth.com/news/what-will-humans-look-like-in-a-million-years>
- [15] George, D., George, A., Dr.T.Baskar, & Dr.M.M.Karthikeyan. (2024). Reclaiming our minds: mitigating the negative impacts of excessive doomscrolling. Zenodo. <https://doi.org/10.5281/zenodo.13737987>
- [16] Liu, M. (2023, November 22). How will AI shape humanity's future? News and Events. <https://dornsife.usc.edu/news/stories/how-will-ai-shape-humanity/>
- [17] Longrich, N. R. (n.d.). Future evolution: from looks to brains and personality, how will humans change in the next 10,000 years? The Conversation. <https://theconversation.com/future-evolution-from->



- looks-to-brains-and-personality-how-will-humans-change-in-the-next-10-000-years-176997
- [18] George, D., Dr.T.Baskar, & Dr.M.M.Karthikeyan. (2025). Future of work trends: Key insights for 2025. Zenodo. <https://doi.org/10.5281/zenodo.14738253>
- [19] Marr, B. (2022, March 1). The 5 technologies that will change the future of the human race. <https://www.linkedin.com/pulse/5-technologies-change-future-human-race-bernard-marr/>
- [20] Moorcroft, W. H. (2005). Understanding sleep and dreaming. In Springer eBooks. <https://doi.org/10.1007/0-387-28698-5>
- [21] National Sleep Foundation. (2025, March 12). National Sleep Foundation. <https://www.thensf.org/>
- [22] Online Bureau, ET HealthWorld, & [www.ETHealthworld.com](http://www.ETHealthworld.com). (2025, February 28). Nearly half of Indians struggle with sleep, study highlights health and workplace impact. <https://health.economictimes.indiatimes.com/news/industry/nearly-half-of-indians-struggle-with-sleep-study-highlights-health-and-workplace-impact/118614758>
- [23] Pbs. (2025, February 5). A brief history of the future: what it means to be human. PBS. <https://www.pbs.org/articles/a-brief-history-of-the-future-what-it-means-to-be-human>
- [24] Ramos, A. R., Wheaton, A. G., & Johnson, D. A. (2023). Sleep deprivation, sleep disorders, and chronic disease. *Preventing Chronic Disease*, 20. <https://doi.org/10.5888/pcd20.230197>
- [25] Rw-Admin. (n.d.). How will a green economy benefit future generations? Development Bank of Southern Africa. <https://www.dbsa.org/article/how-will-green-economy-benefit-future-generations>
- [26] Sleep Foundation. (2024, January 16). Sleep debt: the hidden cost of insufficient rest. <https://www.sleepfoundation.org/how-sleep-works/sleep-debt-and-catch-up-sleep>
- [27] The Sleep Charity. (2024, September 17). National Sleep Helpline - the Sleep Charity. <https://thesleepcharity.org.uk/national-sleep-helpline/>
- [28] Thomas, M. (2025, January 28). The Future of AI: How Artificial intelligence will change the world. Built In. <https://builtin.com/artificial-intelligence/artificial-intelligence-future>
- [29] Tripathi, S. (2023, March 19). India's Sleep Crisis: The Alarming Rise of our "Sleep Debt" 😞. <https://www.linkedin.com/pulse/indias-sleep-crisis-alarming-rise-our-debt-shambhavi-tripathi/>
- [30] What are sleep deprivation and deficiency? | NHLBI, NIH. (2022, March 24). NHLBI, NIH. <https://www.nhlbi.nih.gov/health/sleep-deprivation>
- [31] What will we look like in the future? (n.d.). The Australian Museum. <https://australian.museum/learn/science/human-evolution/what-will-we-look-like-in-the-future/>
- [32] Why sleep matters: Consequences of sleep deficiency. (n.d.). Sleep Medicine. <https://sleep.hms.harvard.edu/education-training/public-education/sleep-and-health-education-program/sleep-health-education-45>