

## ADDITIONAL PATIENT BROCHURES BY SLEEP EXPERTS

- Dental Appliances
- Sleep in Aging

Sleep Bruxism
Drowsy Driving

- Insomnia
- Human Circadian Rhythms
- Strategies for Night Shift Workers
- Narcolepsy and Cataplexy

Dreams and Nightmares

## 1. Make time for sleep

Make sleep a priority in your life; sleep is just as important as diet and exercise for a healthy lifestyle. In today's busy world, too many people simply do not make the time for sleep. Are you allowing yourself enough time in bed to get the sleep you need? It is a good idea to keep track of how much sleep you are getting by keeping a "sleep diary" (see next page).
2. Keep a regular sleep schedule As a general rule you should strive to keep a regular sleep/wake schedule, getting up at the same time each morning, 7 days per week. If you are experiencing difficulty sleeping at night, then a strict schedule becomes even more important.

## 3. Set the stage for sleep

Establish a comfortable sleep environment with limited distractions from noise and light, and an optimal room temperature. Immediately before bed, establish a relaxing bedtime routine, and avoid stress or use of electronic devices. Also, avoid substances with stimulants too close to bedtime (including foods, caffeinated beverages, medications, and nicotine).

Note that too much alcohol in the evening may disrupt your sleep later in the night by causing early morning awakenings. Regular exercise can be good for sleep, but do so around midday or early afternoon to avoid disrupting sleep. As well, avoid long naps or naps in late afternoon and evening, and avoid heavy meals and fluids taken too close to bedtime.

Lastly, save the bedroom for sleep and intimacy - do not eat, read, or watch television in bed.

|  | Sunday | Monday | Tuestay | Wednesday | Thursay | Friday | Saturday |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| todays date |  |  |  |  |  |  |  |
| 1. What time did you get into bed |  |  |  |  |  |  |  |
| 2. What time did you try to go to sleep? |  |  |  |  |  |  |  |
| 3. How long did it tak you to fall asleep? |  |  |  |  |  |  |  |
| 4. How many times did you wake up, not counting your final awakening? |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { 5. In total, how long } \\ & \text { did these awakenings } \\ & \text { last? } \end{aligned}$ |  |  |  |  |  |  |  |
| 6. What time was your final awakening? |  |  |  |  |  |  |  |
| 7. What time did you get out of the day? |  |  |  |  |  |  |  |
| 8. How would you rate sleep? |  | Q Very poor <br> 品 $\begin{array}{l}\text { pair } \\ \text { a bood } \\ \text { a very good }\end{array}$ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

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## Normal <br> Sleep

HOW MUCH SLEEP DO YOU NEED?

IS DAYTIME NAPPING GOOD FOR YOU?

## HOW DOES SLEEP CHANGE

 ACROSS THE LIFESPAN?
## TIPS FOR A GOOD

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## HOW MUCH SLEEP DO YOU NEED?

Humans adapt to the 24-hour cycles of light and dark in the environment using their internal biological clocks (see Human Circadian Rhythms brochure). Adults have one major episode of sleep each night that typically lasts 7.5 to 8 hours on average but can range between 6 to 9 hours in some individuals. Each person must determine his or her own nightly sleep need.

You can determine this ideal amount of sleep by simply paying attention to whether or not you eel rested in the morning and alert throughout the day. If no amount of sleep will make you feel rested the next day, then you may want o seek medical advice, including being evaluated for a sleep disorder.

People tend to sleep longer on weekends; this may e because there is more spare time, or it may be due o accumulated sleep debt during the prior week. It important to understand that you cannot "catch p" on lost sleep, or store sleep for the future, by getting more on weekends.

This is because lost sleep on any given night has immediate consequences for the very next day, such as work or school performance and driving safety. Getting the sleep you need is important for optimal learning, productivity, safety, and health.


## WHAT IS A TYPICAL NIGHT OF SLEEP?

The depth and character of sleep change in a predictable manner across the night. Healthy, young adults will fall asleep in 10-20 minutes. Thereafter, the sleeper will cycle through different stages of sleep ver the course of the night. As you fall asleep, your thoughts begin to wander and your awareness of the outside world is reduced. This is called Stage 1 sleep.

More than half of the night is spent in Stage 2 sleep a relatively light stage of sleep from which it is eas to awaken the sleeper. The deepest sleep (also called Slow Wave Sleep because the EEG waves are slow and large) occurs predominately in the first half of the night. Together, Stages 1, 2 and Slow Wave sleep are referred to as non-REM sleep.

REM sleep (or Rapid Eye-Movement sleep) will occur approximately every 90 minutes throughout the night.

You can thus expect to experience $4-5$ REM sleep episodes per night. The first REM period is typically very brief, lasting less than 10 minutes, while the final episode may continue for more than an hour. This means that you get most of your REM sleep during the early morning. REM sleep is commonly associated with dreaming because your most vivid and bizarre dream reports occur during this stage of sleep, although dreaming or mental imagery takes place in all stages of sleep (see Dreams and Nightmares brochure). Normal sleep includes several brief awakenings throughout the night.


## IS DAYTIME NAPPING GOOD FOR YOU?

Daytime napping is natural for most toddlers. In school aged children, sleep begins to occur in a single nighttime episode and this pattern continues throughout adulthood. Napping behaviour is usually put aside until retirement age, but some people continue to enjoy regular naps throughout their lifespans.

Naps are generally only a good idea for people who have no difficulty falling asleep or staying asleep at night (see Insomnia brochure). Otherwise, the time you spend napping during the day may take away from your total sleep time at night. The optimal duration for a nap, whether during the daytime or while on the job for shift workers, is about 10-20 minutes. Twenty minutes is sufficient to feel rested, yet short enough not to interfere with nighttime sleep or your alertness on the job upon awakening.

## If you cannot get through the day without a long nap,

 despite also sleeping long hours at night, you should be evaluated for a sleep disorder (see Patient
## Information brochure)



## HOW DOES SLEEP CHANGE

 ACROSS THE LIFESPAN?The timing and duration of sleep change dramatically as we age. A newborn baby may sleep as much as 16 hours per day (see Sleep in Children brochure).

Adolescents will sleep 9 hours on average although they prefer to go to bed later and wake up later than the adults. This shift to a later sleep time is a norma pattern for teens; however, their school schedule preclude this desired pattern and as a result many teens are chronically sleep deprived.

Sleep in adults can be quite organized and efficient, meaning that they sleep at regular clock times, fall asleep quickly, and have very little wakefulness during the night; however, lifestyle factors and poor sleep habits can grossly disrupt sleep in otherwise healthy adults.

Shift workers experience unique problems with sleep because they are required to switch often between da and night work and sleep schedules (see Strategies fo night shilft workers brochure).


During later life, sleep becomes shorter in duration (about 6 hours on average), there is less time spent in deep sleep, arousals during the night are more frequent and for longer periods of time, and there is a tendency to nap during the day (see Sleep in Aging brochure). Older adults prefer to go to bed earlier and wake up earlier. This shift to an earlier sleep time is a normal pattern for older adults. Just as the teenager does not stay in bed later because they are lazy, the older adult does not go to bed earlier for lack of anything better to do with their time - the timing of when we sleep and when we wake is governed by our internal circadian clocks.

If you find that you are sleeping less at night than you used to, yet your daytime functioning is not impaired, then there may be no cause for concern about these changing sleep patterns.


WHAT ARE THE CONSEQUENCES OF INSUFFICIENT SLEEP?

Insufficient sleep, even on a single night, has a number of immediate consequences including lower alertness, negative mood, reduced motor and visual acuity, longer response times, and impaired attention and memory.

Chronic sleep restriction over days and weeks leads to cumulative deficits in alertness, mood and cognitive performance. As well, insufficient sleep can have long-term consequences for health including weight gain, diabetes, and heart disease.

