## Appendix 7.7

## Limiting the time spent in bed to actual sleep time

## Limiting the time spent in bed

to actual sleep time

## 1/3

One of the strategies most commonly used to try to eliminate insomnia is to spend more time in bed, by going to bed earlier, getting up later, or taking naps. These practices can be beneficial in the short term. However, they can be detrimental in the long term: spending too much time awake in bed tends to fragment sleep and perpetuate insomnia. Indeed, while they are in bed yet not sleeping, many people start worrying or using that time to problem-solve. The solution is to limit the time spent in bed to actual sleeping time.
$\rightarrow$ This strategy is very effective for decreasing sleep fragmentation and increasing sleep quality;
$\rightarrow$ The initial effect is to produce a mild state of sleep deprivation, which makes it easier to fall asleep and improves the continuity of sleep through the night;
$\rightarrow$ In the beginning, the goal is to improve sleep quality and efficiency, but not necessarily to increase sleep duration, which can be achieved subsequently.


## How to apply this strategy?

1 Determine the duration of your sleep window based on the amount of time slept.

2 Choose a set bedtime and rising time to define the sleep window.
3 Each week, adjust the sleep window based on your sleep efficiency and the sleepiness you experienced during the day.

## I Determine the duration of your sleep window based on the amount of time slept

The sleep window is a period of time in which sleep is permitted, and outside of which sleep should be avoided.

The sleep window is defined by a set bedtime and rising time, and it must be followed each time, whether during the week or on the weekend.

The duration of the first sleep window is equal to the average number of hours slept each night over the past week or two weeks. You can estimate this duration based on your habits, or using the sleep diary if you have been using it.

For example:

| DAYS | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY | SUNDAY |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HOURS OF <br> SLEEP | $7: 00$ | $6: 00$ | $5: 30$ | $6: 00$ | $6: 15$ | $5: 45$ | $5: 30$ |

Average sleep time $=($ Total hours of sleep $/$ Number of days $)=(42 / 7)=6$ hours.
The first sleep window will be of six hours.

To avoid significant sleepiness during the day, the sleep window should never be less than five or six hours in duration, even if you generally sleep less than this amount.

## 2 Choose a set bedtime and rising time to define your sleep window.

These times will be set for at least one week: the duration between these two times will be equal to your sleep window duration as defined is Step 1.

For example, for a six-hour sleep window, possible bedtimes and rising times might include the following:
$\rightarrow$ 11:30 pm to 5:30 am
$\rightarrow 12$ am to 6 am
$\rightarrow$ 12:30 am to 6:30 am

Apply the sleep window each night for one week.
You can subsequently readjust this window based on your sleep efficiency for the week.

## 3

Each week, adjust the sleep window based on your sleep efficiency and the sleepiness you experienced during the day

After maintaining the sleep window for one week, you will need to evaluate it based on the following:
$\rightarrow$ your sleep efficiency, ideally calculated based on your sleep diary or estimated based on your actual sleep time and time spent in bed over the previous week;
$\rightarrow$ how you feel during the day (daytime sleepiness).


If your sleep efficiency is
above 85\%

OR
if you are very sleepy during the day (much sleepier than before you began this strategy).

If your sleep efficiency is
below 80\%
AND
you are not too sleepy during the day.

Extend your sleep window by 15 to 20 minutes for the following week. You may decide to go to bed earlier or to get up later.

If your sleep efficiency is
between $\mathbf{8 0 \%}$ and $85 \%$.

Reduce your sleep window by 15 to 20 minutes for the following week. You may go to bed later or wake up earlier, as long as you reduce the amount of time you spend in bed.

Maintain the same sleep window for another week.

## What to expect?

$\rightarrow$ The side effect of this strategy of restricting time spent in bed is that you will feel more sleepy during the day. This is normal and temporary. After one or two weeks, you will realize that, in spite of spending less time in bed, you are functioning just as well during the day. Exercise caution if you need to drive or use hazardous machinery.
$\rightarrow$ Continue to adjust your sleep window each week until you achieve a satisfactory duration of sleep combined with good sleep efficiency (more than $85 \%$ ). You may need to apply this strategy for several weeks ( 6 to 10) before achieving this result.

