Recommendations for Jet Lag

WHY YOU GET JET LAG

When flying eastward you have to shorten your day. When flying westward you have to length day. Flying across time zones generates two problems:

1) Sleep deprivation

2) Circadian (body rhythm) desynchrony

The two problems interact because desynchrony can lead to inefficient sleep and the according of sleep debt. Thus when you try to sleep when your body clock is telling you to be active, you sleep well (or long) and a sleep debt will begin to build. The feelings of intense sleepiness during one of the main symptoms of jet lag) are the result of both an accumulated sleep debt as well a internal signal coming from your body clock telling you its time to sleep. Sedative/hypnotic ag (sleeping pills) help you counteract the build-up of sleep debt by allowing you to (temporarily) of synchrony with your internal clock. Once the clock has been synchronized to local time, sle are no longer necessary.

Melatonin administration* will speed up the process of resetting your body clock to the For some people it is mildly sedative as well (it speeds up the process of falling asleep). Melatonormally made at night (from 9 pm to 9 am) when it is dark, and appears to be a hormonal sign darkness. By taking melatonin orally at a time when it is not being produced internally, you are trick the melatonin receptors in the brain into resetting the body clock; if you take oral melaton of your own internal production, there may be not effect. Specifically, oral melatonin taken be beginning of your internal production will set your clock earlier, while melatonin taken at the content in the correct time in relation to your body rhythms. Please check with your personal about possible interactions between any other medications you are taking and sedative/hypnotic

A significant contribution to jet lag results from the sleep deprivation associated with o flights in an uncomfortable airplane seat. If you cannot afford first class think about taking a f pillow on the plane and sitting next to a window where you can lean your head against the wal take an old pillow you may want to throw it away when you arrive so you don't have to carry i Also a good quality eye mask helps as does some soothing music on your ipod or portable cd p

Recommendations for an Eastward Flight

Most (but not all) people find that jet lag is worse after an eastward flight. Because the cycle of the internal body clock is longer than 24 hours, it is more difficult to shorten your day lengthen it.

Example: A flight to London. To prevent sleep deprivation, I recommend a sleeping me when flying overnight to promote sleep at an earlier hour (remember your day is short). Have a the plane, then put on the eye mask and take your sleeping pill (don't watch the movie). Of cot sleeping pill is also helpful in promoting sleep when you are in an uncomfortable position. Sleemedication is helpful for the first 3-5 nights after you arrive at your destination, until your body caught up to the local time. Also, it is justifiable to use a sleeping pill after you arrive because sleeping in a novel environment. Halcion is not recommended because it has been associated warmestic episodes, especially when combined with alcohol. I prefer Ambien 5-10 mg or Sonat (new non-benzodiazepine sedative-hypnotics that appear safe and effective). With any sleeping alcohol intake should be quite conservative (I recommend no more than one drink).

To reset the body clock with flying in an eastward direction, it is necessary to promote a advance (resetting the body clock to an earlier time). To advance your clock, take melatonin at the day of departure. On arrival calculate the time for taking melatonin by adding the number of zones crossed to 3 p.m. For example, on arriving in London (8 time zones from Portland), melatonid ideally be taken at 11 p.m. local time the first night. On a shorter trip, for example New should take it at 6 p.m. on the first night. On the subsequent 3-4 nights (as your internal rhythm adjusting), melatonin can be taken an hour or two earlier each day. For example, 10 p.m. on day London, then 9 p.m. on day 3 etc until you feel you have adjusted to local time then stop. Ther known interaction between melatonin and sleeping medication.

Recommendations for a Westward Flight

Most (but not all) people have less jet lag after a westward flight compared to an eastward Because the natural cycle of the internal body clock is longer than 24 hours, it is usually easier your day than to shorten it.

Example: A flight to Tokyo. When traveling westward, getting to sleep is less of a prol staying asleep. Therefore sleeping medication with a longer duration of action, e.g. Prosom, R Ambien (see above), will help prevent the accumulation of sleep debt. Sleep medication also h counteract the discomforts of the flight and allows one to sleep at times when the internal clock promoting alertness. With the use of any sleeping pill, alcohol intake should be quite conserva recommend no more than one drink).

To reset the body clock in a westward direction, you need to take melatonin at a time th promotes a phase delay (resets your clock to a later time). To delay your clock, take melatonin on the day of the departure. On arrival calculate the time for taking melatonin by subtracting to of time zones crossed from 6 a.m. For example, on arriving in Tokyo (8 time zones), melatoning ideally be taken at 10 p.m. local time the first night. On a shorter trip, for example Hawaii, ideally be taken at 3 a.m. on the first night (if you happen to be awake). On the subsequent 3 of melatonin can be taken an hour or two later each day, for example, for Tokyo, 22p.m. on day 2 12 a.m. on Day 3. There is no known interaction between melatonin and sleeping medication.

*Melatonin is currently available in 3 mg tablets or capsules from health food stores and phan is a suitable dose for the applications described. Melatonin is not classified as a drug, so it has received testing for safety that is required by the FDA for pharmaceuticals.