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UNDERSTANDING

THE TIMES

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BODY CLOCK

Bird-brain training

Night owls are at a disadvantage in a society that's structured for morning larks to prosper. Is it feasible for humans to reset their natural body clocks?

Cath Everett



Mutations in PER3 have led to the existence of "extreme larks" and "extreme owls". These make up 27% and 9% of the population respectively, according to a 2018 study of 433,268 adults in the UK published by Kristen Knutson and Malcolm von Schantz in Chronobiology International. Most people, who sit somewhere along a continuum between these two chronotype groups, are known as "hummingbirds".

Evolutionary psychologists posit that the emergence of larks and owls started as a tribal protection mecha nism. Night was the most dangerous time for early humans. It made sense to have people who could stay alert, maintain the fire and keep acknowledgment of this factor in a to appreciate that point, the Covidwatch overnight. They could then be relieved at dawn by the early risers.

An individual's chronotype can fluctuate with age. While young children and the over-60s would generally be described as larks, teenagers tend towards owlish before stabilising into their adult chronotype in their mid-20s.

PER3's influence doesn't fully account for how our body clocks are set. The suprachiasmatic nucleus located close to the optic nerve in the hypothalamus region of the brain – also plays a role in regulating circadian rhythms by responding to light and darkness. This means that our circadian rhythms are affected by the varying lengths of day and night over the year too.

A third influence is our own habits. Dr Guy Meadows, clinical director and managing partner at the London-based Sleep School clinic, explains: "Our everyday behaviour also has a strong impact on our sleep/wake timing. This is especially true at a time when people are working longer and later, while exposing themselves to a lot of lightbased stimulation from electronic devices for longer and later too."

Although the times at which we are at our most effective are partly



genetically dictated, there is little civilisation that tends to be organised around early rising.

"Variations on the phrase 'the trast, there's a huge stigma associated with being a night owl, as we ral rhythms," Meadows explains. live in a world that is, completely who fare better in the morning."

While people are only just starting 19 lockdowns have actually helped obliged to work at home. "The fact planet," Meadows says. "By con- been able to sleep in for a bit longer, which is more aligned to their natu-

This idea of alignment is imporerroneously, set up for those of us tant. For people whose lifestyles aren't in harmony with their natural

rhythms, any resultant sleep depri vation can harm their mental and physical health. Their concentration and memory can suffer and they may be vulnerable to higher levels of stress and anxiety. They may also be at greater risk of heart disease and type 2 diabetes. Studies indicate that night owls are more prone to all of these problems.

While most people need between six and eight hours of sleep a night, as many as half of all people in the West are "out of phase", according to Dr Sarita Robinson, deputy head of psychology and computer science at the University of Central Lancashire. This means that they're getting up before they want to or going to sleep later than they ought to be. This is usually down to the effects on the suprachiasmatic nucleus of the blue light emitted by compute screens and mobile phones.

So what can people, and night owls in particular, do to improve their wellbeing? Meadows' advice is to at least try to get the right amount of sleep most nights of the week.

"Keep a regular wake/sleep cycle," ne says. "If you're incurring sleep debt from going to bed too late, take measures to repay it by retiring earlier or sleeping later once a week."

Another thing that can help sleepdeprived people is the effective use some night owls who have been of light, says Dr Lindsay Browning, author of Navigating Sleeplessness early bird catches the worm' can that they haven't had to get up early and a sleep ambassador for bed be found in every language on the to commute means that they have retailer And So To Bed. For night owls, this could mean opening the curtains first thing in the morning to get as much light into their eyes as possible. Doing so inhibits the production of melatonin, the sleep hormone, and activates cortisol which makes them feel more awake. Sunrise alarm clocks, which wake people with a gradually brightening light, are a useful alternative during the darker winter months.

Meanwhile, larks who want to stay more alert in the evening should stimulate their brains with the blue light of an electronic device and refrain from dimming the lights in their homes.

Another option, Browning says, is for people to learn to work effectively with their own body clock and its natural peaks and troughs.

"It makes sense for larks to perform important tasks early in the day and for owls to save more complex activities for later," she says. "While you cannot change your chronotype, you can recognise what it is and so make your day work more ernational, 2018 effectively for you."

A SIGNIFICANT PROPORTION OF THE UK POPULATION VIEW THEMSELVES AS `EXTREME' NIGHT OWLS AND MORNING LARKS

Percentage of people who describe their chronotype as the following



HEALTH

Awake to the risks

There is an inextricable link between sleeplessness and ill-health for everyone, but research indicates that teens and over-65s who don't get enough sleep are particularly vulnerable to mental disorders

Peter Arche

e all understand that sleep | with a 45% greater risk of dementia productivity and general health. But what we might not all realise is how serious the health ramifications of sleeplessness can be, particularly for teenagers and older people.

Women's Hospital in Massachusetts duration was the strongest predictor found that a lack of sleep – defined of incident dementia. The particias five hours or less a night - can double an individual's risk of than six hours a night were at an dementia. Their study, conducted among 2,812 adults aged 65-plus, Rebecca Robbins, an instructor in also found that those getting less than six hours' sleep were at greater risk of memory loss and difficulties with language and problem-solving compared with people sleeping for at least seven hours a night

The researchers asked the participants questions covering aspects including quality of sleep, frequency of awakenings, incidence of snoring and regularity of naps. They Agostini, a lecturer at the university, then examined the links between these characteristics and outcomes including dementia and mortality. Routinely taking 30 minutes or longer to fall asleep was associated and developmental changes.

s important for our mood. The researchers also found associations between difficulty in maintaining alertness, routine napping. poor-quality sleep or sleeping no more than six hours a night with an increased risk of premature death. "Our results showed that, among

Researchers at the Brigham and all the characteristics, short sleep pants who were sleeping no more elevated risk," says researcher Dr medicine at Harvard Medical School and co-author of Sleep for Success! Everything you must know abou sleep but are too tired to ask.

> Sleep experts at the University of South Australia, Adelaide, believe that both healthcare professionals and parents need to improve their awareness of the relationships between sleep and mental health in teenagers. Dr Alex observes that sleep is especially important for people in this age group because they are going through a range of potentially stressful physical

A teenager regularly getting less | relationship between sleep deprivathan six hours' sleep a night is twice tion and dementia is a complicated as likely as average to engage in risky behaviour such as dangerous driving and drug abuse, according to the researchers.

While studies show clear correlahealth problems, scientists acknowis a harder task. Professor Derk-Jan Dijk is director of the University of Surrey's sleep research centre and a former associate neuroscientist at the Brigham and Women's Hoscauses for dementia, for instance, is a complex task, not least because of the possibility of reverse causality. "If there is something wrong with

a person's brain, it could affect their sleep," he explains. "But yes, extreme sleep patterns and disorders are associated with adverse health outcomes, including dementia." Tim Beanland, head of knowledge

nanagement at the Alzheimer's Society, also observes that the

We all accept that insufficient sleep is not good for our brain function – we understand that we may not perform well if we don't sleep well

one. Different types of dementia are associated with different sleep problems, he notes.

"Researchers aren't yet sure which way the interaction goes - whether tions between a lack of sleep and poor sleep causes or exacerbates dementia, or if dementia leads to ledge that establishing causal links poor sleep," Beanland says. "Some researchers believe that both could be true and the relationship could be circular. On top of this, the mechanisms that underlie all these interactions are unclear. More research pital. He observes that attributing is needed, particularly studies that observe large groups of affected people for long periods."

Recent research suggests that the glymphatic system – a network of vessels that clears waste chemicals from the central nervous system, mostly during sleep – may be disrupted by, and contribute to, some diseases of the brain.

Disturbed sleep is also a risk factor for numerous other health issues. Disorders such as sleep apnoea, when breathing repeatedly stops, may increase the risk of cognitive decline, while the impact of both very short and long sleep duration have been reported for many other adverse health outcomes.

Simply going to bed earlier may not be the answer to getting enough sleep, according to Dijk. He believes that the most effective solution is to by regularly going to bed a little find the "sweet spot" – the best time to go to bed for uninterrupted, highquality sleep.

sleep is not good for our brain func- than an hour on Saturday and Suntion – we understand that we may not day mornings.

POOR SLEEP AMONG OLDER PEOPLE INCREASES THEIR RISK OF DEMENTIA



s the increased risk of dementia if it routinely takes someone aged 65-plus half an hour or longer to fall asleep

$2 \times$

Over-65s who regularly sleep less thar five hours a night are twice as likely as those who sleep more than sever nours to develop dementia

Aging, 2020

POOR SLEEP AMONG **TEENAGERS HAS AN EFFECT** ON THEIR MENTAL HEALTH



leens are twice as ikely as average to ngage in risky behaviour if the regularly get less

iversity of South tralia, 202

perform well if we don't sleep well, he savs. "But there's no better way to ruin your sleep than by spending too much time in bed. For example, people who go to bed too early are likely to have their sleep interrupted."

Napping, while not always a bad thing, does not make up for a poor night's sleep, says Dijk, who adds: There are certainly healthy nappers, but it would be a bit of a mis representation to say that napping is a good thing. Healthy older people should not be sleeping during the day. If you're doing that, you're not getting enough sleep at night or there's another health problem."

If napping is not the answer, could sleeping tablets be? Referring to another research project run by the Brigham and Women's Hospital team, Robbins suggests that the answer is no. In an analysis of medication usage among older people in the US, this study found that 15% of participants routinely consumed sleep medication. This usage was ssociated with incident dementia across the follow-up interval.

While people might be tempted to use weekends to catch up on their sleep, getting a regular seven-plus hours' worth is more important. particularly for teenagers, accord ing to Agostini

There are so many reasons why i s healthier to minimise sleep loss earlier throughout the week than it is by trying to make it up over the weekend," she says. "I don't recom-"We all accept that insufficient mend a delay in wake times of more

Sleep demystified: How you can get a better night's rest

Fitbit sheds light on the complex world of sleep to help us understand how better nights can lead to better days

S

Heneghan, lead research scientist at sleep from earlier generations to prove or disprove this widely held belief.

nology. The company has tracked more about sleep patterns. has got worse," says Heneghan. "The

anecdotal, so it is not very clear." We attribute perceived poor sleep



Tiredness and fatigue are ations. So many of us long for a good beginning the next day at least as tired as we were before we went to bed.

But do we really sleep less than our parents and grandparents or is this just another urban myth? The reality is that we do not actually know, says Conor Fitbit. There simply is not the data on Heneghan is helping to lead the

tion around sleep tracking and other than 14 billion nights of sleep since 2009 and has a wealth of information "Conventional wisdom is that sleep

problem with this is that so much of what we understand about the past is

to 24/7 modern lifestyles, including ever-present lighting, internet connectivity, daily commuting to work night's sleep also had challenges from home.

tress and burnout are the | - uncomfortable bedding, livestock | curse of modern living. waking up, and demands of food gathering and herding. A study in the journal common complaints, across all gener- Nature conducted using sleep trackers on pre-industrial rural communities night's sleep yet resign ourselves to in Africa shows highly disrupted sleep patterns and low sleep duration.

> Nevertheless, there is a lot of pressure on sleep now. Heneghan says. "This is because we might be committed to getting to work early or to studying hard for qualifications to get ahead. It can feel relentless."

Lockdown and home working during the pandemic have certainly made us feel more tired; the pressure of holding it together has been overwhelming development of research and innova- at times. Yet Fitbit's data suggests that variations in our sleep patterns have physiological metrics using Fitbit tech- not been quite as pronounced as we night expect. Its research in the US cor ducted in April and May 2020 found that on average, users were getting 20 more minutes of sleep per night compared to the same month a year earlier.

> "Patterns shifted without the daily ommute to work," says Heneghan "But over time, this has come back towards the baseline as peop adjusted to this new normal."

Moving forward, Heneghan expects our sleep patterns to be influenced b the decisions we take about returning and the pressure of deadlines. But to the office and whether we go back pre-industrialisation getting a good to a daily commute or continue working

Of course, the big question is how many hours do we need for a good night's sleep? According to Heneghan there is no one size fits all answer to this question. The NHS recommends between seven and a half and nine hours of sleep but there is a lot o genetic variability, and some people are fine with six hours, he points out Margaret Thatcher was famously reported to only sleep for four hours a hight, but this is certainly rare.

There are very few people geneti cally capable of sleeping less than five nours a night," says Heneghan

One factor that influences sleep is age. Fitbit data shows that as its users get older they sleep more lightly and get less deep sleep, decreasing from ar average of 17% at age 20 to 12% at age



While modern lifestyles may have a negative impact on the quality of sleep, technology can bring benefits to how we address this issue

70. Aging is also linked to shorter time spans of sleep, although these changes are often considered normal and do not necessarily affect sleep quality or mean you could have a sleep disorde according to the charity Age UK.

When it comes to gender, Fitbit' data shows that women tend to sleep approximately 20 minutes longer that men (an average of seven hours and 40 minutes, compared to seven hours and 17 minutes for men). They also have a marginally higher percentage of REM (rapid eye movement) sleep than men REM sleep, which usually happens about 90 minutes after a person falls asleep, is important because it stimulates the areas of the brain that help with learning and is associated with increased production of proteins.

While modern lifestyles may have a negative impact on the quality of sleep, technology can bring benefits to how we address this issue. Before the launch of wearable devices, most sleep data - including quantity and quality of sleep - were only accessible via research in sleep labs, which is both costly and time consuming.

Fitbit uses a combination of the wearer's movement and heartrate patterns to estimate the duration and quality of sleep. Fitbit believes this information helps users better understand their sleep and how it impacts their overall wellbeing.

For example, variations in heart rate can be used to estimate time spent i light, deep and REM sleep. Fitbit creates a 'Sleep Score' that reflects the quality of sleep each night, with this analysis of sleep data helping users better understand their sleep patterns and take steps to improve their sleep behaviour over time

Armed with all this information abou our sleep, what steps can we take to feel more rested and ready for work the next day? Heneghan recommend sticking to a routine that works for you Fitbit data shows that people with the nost regular bedtime typically sleep longer. Keeping to a consistent bedtime

and wake time routine has been show n our data to correlate with increased total sleep time and reduced wakefulness at night.'

Sleep scientists also refer to a con ept known as `sleep hygiene', which elates to controllable factors that can help the body sleep. For example dark room is essential for the body o wind down as it stimulates the pro uction of melatonin, a key hormon or helping you fall asleep. Artificial ght and screens can offset the sleep ycle and confuse the body on wher o go to sleep. Room temperature is also important, although people's optimal sleeping temperature will vary. To get a better night's sleep, turn down the thermostat slightly or use a fan to circulate air.

It is also important to be aware that while alcohol may help you fall asleep faster, it contributes to poor overall sleep because it has been shown to lead to lighter sleep in the second part of the night with increased wakefulness. Caffeine is also a well-known leep disruptor because caffeine molecule shares a common pathway with adenosine, which is related to your overall sleepiness level

Fitbit's data shows that wearing one of its devices can help consumers improve heir sleep habits, which can in turn have a material and positive impact on their eep patterns, says Heneghan.

"People use their Fitbit to calculate w many steps they take each day and try to do better. It is similar with sleep makes people think about their sleep and how it fits in with their overall well ess. It encourages a conversation with friends and relatives about sleep and hat works for them." he conclude

For more information please visit www.fitbit.com



SLEEP HYGIENE

Clean and serene

The stresses of the Covid crisis have caused many people to experience insomnia. Adopting some straightforward sleep hygiene measures could help them to solve this problem

Marianne Elois

have found themselves tossing and turning in bed at night over the past 15 months. Even for those of us | to an increase in our production of who can still drop off easily, sleep no longer feels as restful as it was.

Insomnia has become far more prevalent worldwide during the Covid crisis. In the US, for instance, the number of Google searches for the word increased by 58% during the first five months of 2020 (when compared with the average figure recorded over the equivalent period in the preceding three years) as the infection rate rocketed, according to Science Daily.

The first serious study into what experts have termed coronasomnia the stress that people have been was conducted by two Canadian under hasn't just been personal. researchers in June 2020. Charles Morin and Julie Carrier found similarities between the effects of the pandemic and those of other traumatic events, such as wars and natural disasters, on people's sleep.

"Such a stressful life event is likely to have impaired sleep and circadian rhythms," they concluded.

Once the Covid crisis starts to ease, sleeping patterns will probably still take some time to return to how they were before the pan- lingering sense of irritability and/ demic. This means that many people will need to take steps to readjust and learn to implement better sleeping practices.

To understand how to sleep betof insomnia. Dr Abhinav Singh, a doctor on the medical review panel for the Sleep Foundation, believes that both extrinsic and intrinsic factors have been at play.

Extrinsic factors include the reduction in exposure to sunlight resulting from the various lockdown restrictions that required many of us to stay at home for much of the day. This has altered people's circadian rhythms. A decrease in physical activity and even a loss of routine at mealtimes have also had a disruptive effect. Singh uses the

he pandemic has had a | for the intrinsic causes. This stands serious impact on our for financial, emotional, distansleep. Many more people cing, unpredictability and professional/personal.

"All of these challenges have led stress hormones, which has further disrupted the onset and maintenance of sleep, reducing its overall quality," he says.

Stephanie Romiszewski, a sleep physiologist and director at the Sleepyhead Clinic, agrees that there have been several linked factors.

"Key things - including fundamental mood-boosters - that keep humans functioning well have been taken away. This has blurred the line between being awake and being asleep," she says, adding that "We've also had something other than our usual troubles to worry about: a global problem that we haven't been able to escape."

Dr Neil Stanley, an independent sleep expert, says that the effects of poor-quality sleep should not be ignored. These include problems dropping off, feelings of fatigue on waking up, extended sleep during davs off work, an inability to concentrate for extended periods and a or restlessness.

While people cannot change many of their circumstances, they are able to optimise their sleep hygiene - a term coined in the 1970s ter, we first need to know the causes to describe the behavioural and environmental steps that can be taken to address mild insomnia.



Sacrificing sleep is like taking out a high-interest loan with steep repayments in the form acronym "Fedup" as a mnemonic of poor health and performance





Even during times of heightened stress, there are things that people which helps "to cool the core and support the release of the sleep nal entry, which helps to offload

avoidance of caffeine consumption an hour of bedtime. Keeping the strongly recommended. Romiszewski believes that follow-

ing "obsessive ritualistic strategies" can actually do more harm than good, although she adds that "people have to do some consistent goalpost-setting that is influential to their body".

positively affect a sleep problem far out caffeine would," she says. "But



increase in the number of Google earches for `insomnia' in the US during the first five months of 2020 compared with the average figure over the equivalent period in the preceding three years

Journal of Clinical Sleep Medicine, 2020

Experts do agree that discovering whatever approach works best for you, rather than following prescriptive actions such as the avoidance of certain foods, is the most straightforward way to get a better night's sleep. We are all different a few of us operate best on six hours of sleep, while an evening bath might wake some people up rather than wind them down. Trial and error is the best way forward: keep a journal to track the quality of your sleep and which of your actions seem to have a positive effect on it. If certain measures clearly aren't helping, don't persist with them.

Although conventional wisdom states that cutting out technology before bedtime aids sleep, there are many mobile apps that promise to promote better rest.

"To a certain degree, sleep apps are fine," Singh says. "They tell me that the individual using them is starting to take their sleep more seriously and wants to know more. That's great. If they help to change the person's behaviour and expand heir sleep opportunity to a healthy eight-plus hours. I'm all for them.'

But he adds that moderation is key, as obsessing over statistics can do to improve their chances of sin't healthy. Romiszewski agrees. a restful sleep, says Singh, who has "Ask yourself what you're achieving developed his own protocol, which by monitoring your sleep. If you're he calls the four-play method. This using an app, ensure that you have involves performing the following a goal in place, along with strateactivities for 10 minutes each before gies for achieving it. Don't track for going to bed: take a warm shower. the sake of tracking."

Many of us will still struggle to obtain enough high-quality sleep hormone melatonin": write a jour- | even after the pandemic ends. And. sometimes, good sleep hygiene will worries: read a book: and meditate. not be enough to solve the problem. He says that such a routine helps Singh says that a good rule of to condition the brain and body for thumb is that someone might need sleep, especially when combined the help of a specialist if they are: with other measures, including the struggling to sleep more than three times a week for longer than three and exposure to blue light within months; experiencing "suboptimal daytime performance, fatigue, bedroom as dark as possible is also increased irritability, anxiety and mood disturbances"; and/or relying on over-the-counter medication or alcohol to sleep.

Romiszewski agrees. "If your sleep problem has been going on for longer than three months, it's time for you to enlist some evidence based scientific support from an "Rising at the same time each day expert with the right qualifications and getting plenty of exercise and and, most crucially, good clinical exposure to natural light and will experience," she says.

This is important, because good more significantly than, say, cutting sleep is integral to our wellbeing. "Sleep is one-third of your life. Comgive yourself permission to go to bed promising on it has significant cona little later if you aren't sleeping. sequences for the other two-thirds, The only way to induce sleep is by Romiszewski says. "Sacrificing sleep spending more time awake. Incurring mild sleep deprivation will with steep repayments in the form boost the quality of your next sleep." | of poor health and performance."



Finding the right sleep solution for you

Getting a good night's sleep takes more than simply closing your eyes. It requires the perfect levels of light, temperature and, most important of all, comfort, says mattress maker Silentnight

poses and green smoothies for breakfast, a good night's sleep is rapidly becoming the biggest wellness goal. But if it's not just about closing your eyes and hoping for the best, what actually goes into eight hours of peaceful shut eye?

"When we talk about what creates a good night's sleep, we say that everyone needs a bit of TLC - temperature, light and comfort," says Silentnight's sleep expert, Hannah Shore, "Temperature | tress and even the microclimate creis very important, we actually need to cool down our core temperature to fall asleep and encourage the release of melatonin, the sleep hormone

"Light is huge too. Before electricity we used to sleep when it was dark but now we're in a 24-hour cycle of light, screens and phones, which discourage melatonin and keep us pumped with cortisone. And then there's comfort - and that's what we really focus on as a bed brand."

Silentnight, which has been creating mattresses for more than 75 years, is on a mission to improve the nation's rest. Taking its position as the UK's most trusted bed brand seriously, it has embraced the science of sleep, combining research with rigorous testing to create total sleep solutions to suit every sleeper.

"Historically, mattresses have beer sold on spring counts," explains Shore. "People thought the more springs, the more expensive and better. But there's actually a lot of misinformation out there as to what kind of mattress suits what kind of person.

Silentnight has its own in-house testing lab - the only one of its kind in the UK - which it uses to make sure all its saved from landfill every year

ove over complicated yoga | products are just right. One of the trickiest parts of creating the perfect mattress is the fact that one person's comfortable is another person's sleepless night. "We do lots of research into comfort because it's so subjective," explains Shore, "We put some objective science behind the subjectiveness of comfort.

> It turns out there's quite a lot at play when we find the perfect bed. Silentnight has delved deep into spine alignment, pressure points on a matated under a duvet. All these things combine to give the company a complete understanding of what sleep solutions work for what kind of person and why, enabling them to provide solutions for every sleeper, to help hem sleep soundly.

This is key because it turns out we need more support on this than you might think. "Our research found that when given the choice, 68% of people would choose the wrong firmness for their body shape," says Shore



of people would choose the wrong firmness for their body shape



"Almost two in three (59%) of these people would choose a mattress that s too firm for them." This finding has trengthened the company's goal o work with individuals to find their inique sleep solution.

As well as ensuring the comfort of ustomers, Silentnight also encourages us to sleep more easily thanks o its award-winning sustainability programme. "We take it pretty seriusly within the business." says Jason Mcilvenny, senior brand and customer nsights manager at Silentnight. "Over the past couple of years we've looked t more eco design principles – manufacturing and designing products with view to reusing surplus materials, making recycling easy at our products' nd-of-life and reducing landfill."

The company is carbon neutral, offetting its emissions through part nerships with the likes of the Marine Conservation Society. It has also reduced its emissions by 31% over the ast three years and its Eco Comfort ange uses recycled plastic bottles to ake the mattresses, saving an estimated 450 million plastic bottles from andfill each yea

Now that's a good reason to sle well at night

Discover more at www.silentnight.co.uk Find us @silentnightbeds #MySile **0000**



THE NEED FOR SLEEP

We spend up to a third of our lives sleeping, yet many of us struggle to get a decent night's rest. The Covid crisis has seemingly exacerbated the problem, so it's no wonder that the market for sleep and wellness products is set to soar as people seek new and ever more inventive ways to help themselves drift off





HOW MANY HOURS BRITONS SLEEP AT NIGHT

MOST PEOPLE ARE NOT SATISFIED WITH THEIR SLEEP

Percentage of adults completely or somewhat satisfied with their sleep



THE ECONOMIC COSTS OF INADEQUATE SLEEP

Annual losses in selected countries



SOMETIMES POOR SLEEP IS DOWN TO WHOM YOU SHARE A BED WITH

Percentage of people in relationships who complain about the following bedtime behaviour by their partners





UK ADULTS SPEND A LOT OF THEIR TIME FEELING TIRED AND OFTEN RESORT TO TAKING NAPS

Frequency with which UK adults say they feel tired or nap, 11 March 2021. (Percentages may not total 100%, owing to rounding)

YouGov, 2021



27% of UK adults say that they have fallen asleep at work

THE SLEEP ECONOMY IS SET FOR RAPID GROWTH

Forecast global market value of products, services and applications connected to sleeping (\$bn) Frost & Sullivan, 2019



THERAPY

Changing minds: how CBT can break the sleepless cycle

Although many GPs still seem unaware that it can be used to treat insomnia, cognitive behavioural therapy has been proving to be an effective non-drug intervention. What does it entail?

Julie Penfold

ognitive behavioural therapy (CBT) is well established as a method of helping people to manage problems by changing how they think and act. It's often used to treat anxiety and depression, but it can also be useful for several other conditions, including bulimia, alcohol dependency and insomnia. The occasional night of poor sleep is nothing to worry about. But, if it keeps happening, finding an effective way to sleep well again can become an all-consuming task. Desperate to drift off, many of us avidly follow sleep hygiene advice (see "Clean and serene", page 6) and try herbal remedies and medications such as diphenhydramine, a sedating antihistamine designed only for short-term use. But these measures don't always work, of course. I've experienced long-term insom-

nia ever since I contracted Covid-19.

Thoroughly exhausted after months of sleeplessness, I approached my GP for help. He promptly offered me an antidepressant that helps people to sleep. CBT was never mentioned. Perhaps my doctor didn't feel that my condition was chronic (lasting more than three months) at the

time. Or maybe he was one of several GPs who, according to behavioural psychologist Alison Gardiner, simply haven't vet realised that CBT is the treatment recommended by the National Institute for Health and Care Excellence

Gardiner is the founder of Sleepstation, an NHS-approved online service that applies a set of techniques known as cognitive behavioural therapy for insomnia (CBTi) It's used by about half of the GP practices in England. "We get 47% of our referrals from

only 20 regions," Gardiner says.

When people know about the service, they use it. Some of the resistance to getting people into CBTi is down to the fact that sleep isn't really dealt with as a mental health issue. When someone tells their GP that they're depressed, say, the GP understands what to do and where to refer them. When someone presents with a sleep problem, the GP may not be aware that CBTi is a good approach. Patients are also unlikely to be aware of it."

CBT is based on the concept that our thoughts, feelings and actions are all connected, and that negative houghts and feelings can trap people in a vicious circle of behaviour. Dr Jason Ellis, professor of psychology and director of Northumbria University's centre for sleep research, describes how it's being applied to insomnia.

"CBTi is very focused on behavioural concepts," he says, "It aims to identify, challenge and change any dysfunctional beliefs, attitudes or acts that contribute to insomnia. The rationale behind it is that, when vou have insomnia, vou trv to compensate for it. All the effort you make to try to sleep, coupled with the additional time you're spending awake in bed, leaves you feeling worried, frustrated and angry – and that's how we believe that insomnia develops. CBTi aims to address those issues."

One of the first stages of the treatment is to analyse a patient's sleep hygiene to help identify any lifestyle or environmental factors that may be playing a role in their insomnia. "The interesting thing about this

component is that people with insomnia generally have good sleep hygiene," Ellis says. "But we still incorporate it, just in case.

Teaching patients the facts about sleep is another initial component. Known as psychoeducation, this aims to dispel common myths - that

Some of the resistance to getting people into CBTi is down to the fact that sleep isn't really dealt with as a mental health issue



more disturbed since the pandemic started say that they are finding the Covid crisis stressful



of these say that they are very worried about the lifting of the UK's lockdown restrictions

King's College London and Ipsos Mori, 2020

to someone's insomnia.

you woke up and got out of bed.

Loughborough University.

those with a history of bipolar dissleep apnoea.

one's sleep," Gardiner says, "What it cost them their job.



of Britons whose sleep has been

instance – that may be contributing

You also keep track of whether you how long it took you to get back to sleep. Lastly, you note what times

spending all that time in bed. It works on something called sleep pressure, one of the neurological mechanisms that control sleep."

Over the course of a day, everyone gradually builds up the need to sleep. After about 16 hours, this will usually be strong enough to help us drift off. Sleep restriction aims to keep someone with insomnia up a little longer so that their sleep pressure becomes even stronger.

"When your sleep pressure is at a very high level, it won't just help you to sleep initially; it will also enable you to get back to sleep quickly after brief periods awake," Gardiner says. "What's powerful about this technique is that it works on the physical function of sleep and has a short feedback loop. People do see a difference quite quickly."

As part of the restriction process. vour efficiency score is reviewed regeveryone needs eight hours' sleep ularly. Adhering to your sleep wineach night to function properly, for dow can help to improve your score.

"The first week will be associated with a very brief, mild form of sleep The CBTi programme will ask you deprivation, as it takes a little while to complete a sleep diary for a week for your brain to reconnect and get or two. This involves noting down back into the sleep default position,' what time you went to bed and what Ellis explains. "Once the amount of time you tried to sleep, and estimat- time that someone can sleep for ing how long it took you to drop off starts to increase, we give them an (checking the clock is not advisable). extra 15 minutes in bed for the following week. We gradually increase woke during the night and, if so, the time in bed in increments of 15 minutes as their sleep efficiency score improves."

A further element of CBTi is known Several free apps offer a sleep diary as stimulus control therapy. This is function. These include Sleepful, a designed to change how a person CBTi programme devised by the with insomnia views their bedroom. clinical sleep research team at as it's easy to start assigning feelings of dread to the space when you can't From your diary entries, you will sleep. One idea is to get out of bed if learn how long you were asleep as a you can't sleep before any frustraproportion of the time you spent in tion kicks in and do something bed, which gives a sleep efficiency | meaningless for 30 minutes before score (the normal range is 85% to trying again. Another component 90%). This leads to one of the core is the removal of behaviour such techniques of CBTi: sleep restriction as going to bed early to watch TV therapy. This is suitable for most or read a magazine. This helps to people with insomnia, but inappro- designate the bedroom as a space priate for some patients, including that's solely for sleep.

The various anxieties that can order, seizures and/or obstructive build up around the consequences of insomnia are also dealt with as part "The name of this therapy is terri- of CBTi. For instance, people may ble, because it doesn't restrict any- worry that their condition could

does do is fix a person's sleep into a "We may have to deal with some set time window. For instance, if you catastrophic thinking," Ellis says. spend 10 hours in bed but sleep for "A person's thoughts can become only five hours, there's no point irrational when they can't sleep."

Slipping off to sleep, naturally

Q&A

Nicola Elliott, founder of natural wellbeing brand NEOM, shares some top tips for a good night's sleep

Q How important is sleep for your overall wellbeing? Sleep is crucial; everything starts with it. If there is one thing I've learnt it's that I really feel it if I've had a bad night's sleep. Hello stress and anxiety, lack of energy and low mood. All the experts agree: sleep is vital for overall health and wellbeing. In short, sleep is the holy grail. If we nail that, we're onto a pretty good start the moment we wake up, which is why at NEOM we're so passionate about helping people sleep better.

Q Can I improve my sense of wellbeing for a better night's sleep?

I live by the mantra of small steps, big difference. No long unachievable tick lists, or big changes. So, kick off with the basics, such as moving more during the day and getting a dose of fresh air. Have a regular bedtime, a dark room and that all-important tech-free zone an hour before bed. I'm always giving meditation a go too, although it's not easy. Then throw in some of my personal favourites, such as a proper wind down routine, including a bath, mindful breathing and relaxing essential oils. Reading and writing things down before bed can really help clear your mind.

Q Does aromatherapy help bring on slumber?

The first essential oil blend I created was Perfect Night's Sleep which I developed for my sister who everything starts with was having trouble sleeping. It really helped her, so I know firsthand how using essential oils in your pre-bedtime routine can be a game-changer. Not only do the NEOM blends smell amazing - no single drops of lavender here, but seriously complex natural blends of up to 24 oils - they also really work to help lull you to the land of nod. As you inhale essential oils, calming signals go to your brain to help you relax for sleep

Which fragrances aid sleep and (Q) how do they work?

The two NEOM 100% natural sleep blends are Perfect Night's Sleep - the lavender has a soft and super floral scent - and Bedtime Hero, which is sweet, fruity and fresh. Both fragrances have been created to work on your sleep and have been blended within pillow mists, candles and more. Just choose the scent you like the most to | lises the power of the essential oils, it add to your bedtime routine.





Sleep is crucial: it. If there is one thing I've learnt, it's that I really feel it if I've had a bad night's sleep

Q Is there any other advice on how to sleep well?

For me, it is having a bedtime routine that includes those little tips and steps. I light my NEOM Perfect Night's Sleep candle and slowly breathe in and out, while relaxing in the tub with the sleepy, sweet and fruity vibes of the NEOM Bedtime Hero Bath Foam; the super-powerful oils hit you instantly.

Magnesium is key to my bedtime routine. The NEOM Bedtime Herc Magnesium Body Butter not only utihas an added boost of magnesium that

you absorb through the skin. I also like to read in bed every night, then I turn out the light, spritz my pillow with the NEOM Perfect Night's Sleep Pillow Mist and, no matter what sort of day I've had. I am ready to fall into a lovely slumber.

Q What matters most to NEOM?

At NEOM, we believe wellbeing starts with the little moments. Our fragrances are 100% natural with true wellbeing benefits. So, whether it is through the deeply relaxing bath that prepares you for better sleep, the candle that creates a calm zone and less stress in your busy family ome, the shower wash that helps you nave more energy ready to kickstart your day at 6am, or the fragrance in your bag with the power to give you a dailv mood boost, we trulv believe hese small additions to your daily well being toolkit make a big difference.

For more information please visit omorganics.com



OCCUPATIONAL HEALTH

From the bed sheet to the balance sheet

As the nation's 'sleep debt' deepens in the pandemic, the increasingly harmful effect that insomnia is having on people's performance at work is moving up the corporate agenda

Virginia Matthews

fficial guidance from the World Sleep Society to reserve the bed for sleep and sex" may sound like common sense, but the rulebook has been rewritten for those who've been obliged to convert their bedrooms into offices during the Covid crisis. From the comical video calls in pyjamas that characterised the early days of the pandemic to the practice of 'bedmin' – catching up on paperwork in the small hours - the com bined bedroom-workplace is an unwelcome reality for millions.

While the enthusiasts once hailed commute-free remote working as the perfect opportunity to relearn good sleep hygiene, it's now clear that the lack of face-to-face contact and the blurring of boundaries between people's professional and domestic lives can be unhealthy. particularly for those who work mostly from their beds.

Talking to employees about how much sleep they're getting is one of the last organisational taboos. For some people, it can be an intensely personal matter that relatively few managers will want to broach. Yet broach it they must. Sleep deprivation already costs the UK economy



Business leaders should foster conversations about physical and mental health in a way that encourages openness and debate, particularly now that poor sleep has become so common

> upwards of £40bn a year in lost probecoming the rule rather than the total is only likely to increase.

People who have chronic insomnia - defined as trouble falling or staying three months or longer – are more sit opposite them every day. It's quite when your interactions are restricted to the occasional video call.

"We felt from the start that coronavirus would cause a mental, as to a mobile app that offers a range as intrusive" by some employees, well as a physical, pandemic," says of sleep tools and expert guid- she argues that "business leaders Jonathan Hill, head of occupational ance. (The irony of an organisation should foster conversations about health at Anglian Water. "It is not surprising that cases of anxiety, in the boudoir – a no-no among way that encourages openness and burnout and even post-traumatic ductivity. With hybrid working stress disorder have followed in its wake, all of which have a big bearing exception in many industries, this on the quantity and quality of the that poor sleep can have are firmly sleep that people are getting."

Anglian Water has 5,000 employees, half of whom work remotely. insomnia, they are all encouraged depression and heart disease. Being their line managers" about trigger ing cognitive behavioural therapy another to discern the warning signs sessions and consultations with a to sleep." 24-hour virtual GP.

> In common with other employers. Anglian Water offers free access sleep scientists – is not lost on Hill.) At Yorkshire Building Society sleep has become so common".

(YBS) too, the detrimental effects on the HR department's radar.

"We've been marking important awareness events such as World asleep at least three nights a week for To break the stigma surrounding Sleep Day for some years now," says Michelle Elsworth, who leads YBS's vulnerable than average to obesity. to have "good conversations with wellbeing activities. "But, as the narrative has changed during the alert to the effects of a colleague's points at work or at home. They can Covid crisis, we have redoubled our sleep problems – lack of focus, irrita- then be directed towards a range of efforts to combat the anxiety levels bility, low mood – is one thing if you private healthcare services, includ- that, colleagues say, are making themselves felt as soon as they try

While Elsworth believes that asking people direct questions about their sleep patterns "would be seen advocating the use of digital tech physical and mental health in a debate, particularly now that poor Of all the problems reported by

employees in the year to March 2021 via YBS's mental health



constantly tired", Elsworth says. For front-line staff at the build-

of having difficult conversations" - particularly with newly unemployed customers who'd suddenly found themselves unable to afford their mortgage repayments - was considerable. "Many of our employees found that they couldn't shake off work at the end of their working day. This inevitably had a negative impact on their family time and their sleep," she reports.

tuted so-called check-in and checkout sessions between staff and their managers at each end of the working day. These briefings and debriefings have proved "invaluable", according to Elsworth.

At Unilever, a staff survey revealing that "sleep was an area of concern" prompted the creation in early 2021 of an online portal dedi-Sharp, its vice-president of HR in the UK and Ireland.

we're putting our people first," he says. "This has become even more important over the past year. Struggling to sleep can have such a big impact on someone's life, both inside and outside work."

any's commitment to ensuring that from wellbeing support".

POOR SLEEP HAS A SIGNIFICANT IMPACT ON PRODUCTIVITY

Employees who slept 10 or more hours a night

five hours a night

slept no more than

Employees who

Employees who reported 'always eeling tired'



RACONTEUR.NET – (R)–13

Commercial feature

platform, 40% related to "feeling ing society, the "emotional impact

To address this, YBS has insti-

"We always want to ensure that

Providing information, question-"designed to have a lasting, positive "no employee is ever more than

Elsworth notes that it's important to treat each case individually.

average hours of sleep a night in Japan, the country with the lowest nean figure

average hours of sleep a night in New Zealand, the country with the nighest mean figure

average hours of sleep a night in the cated to the topic, reports Richard UK, making it one of the best countries for sleeping, but still below the recommended eight hours

Sleep Cycle, 2021

at least part of the time, because they may function – and sleep – naires and access to free sleep better working that way," she says. therapy and coaching, the portal is "From an employer's perspective, it's all about reading the signals change". It reinforces the comp- and acting upon them."

And, with a programme of digital transformation currently in proone chat, one call or one click away gress at YBS, this is also about future-proofing the organisation.

Today's employees "expect a fully rounded wellbeing package", says "While many organisations focus Elsworth. "Although we already do on physical, mental and financial a lot for colleagues, we'll continue wellness, we also include social to ask ourselves if we can do more wellness," she says. "For some peo- to support them across all areas of ple, this may well entail swapping life – including helping them to get working from home for the office a good night's sleep."

The association between sleep and productivity of US employees across several industries. Figures compared with those of workers who slept eight hours a night



American Journal of Health Promotion 2017



The link between sleep and wellbeing

Getting a good night's sleep is vital to both our physical and mental health but for those who struggle, there are clinically proven sleep aids to help you drift off



do, as important to our bodies as nutrition and breathing, fuelling recovery from mental and physical exertion.

Poor sleep compromises both physical and mental health but many people struggle to get enough sleep and endure feelings of fatigue and lethargy, is comfortable and that all bedding is as well as a reduced sense of wellbeing.

The link between disturbed sleep and mental health is becoming more widely understood with anxiety and stress often leading to insomnia and other sleep problems.¹ This can create a vicious cycle with lack of quality sleep causing stress that, in turn, makes sleeping difficult and exacerbates underlying sleep issues.

Various studies over the years suggest that between 10% and 30% of people experience insomnia.² while a survey by the Mental Health Foundation found that 48% of adults and 66% of teenagers agree that sleeping badly has a negative effect on their mental health.³

Sleep naturally helps reduce stress and, although it can sometimes be difficult to get the recommended six to nine hours of quality sleep recommended by the NHS every night,⁴ the benefits include improved concentration levels, sharpened judgement and an improved immune system. It also regulates mood and makes you a better problem solver.

Busy schedules and working from home, as well as other elements of modern life contribute to the build-up of stress and potential corrosion of our mental health. But there are a number of ways to help sleep come more easily.

A healthy diet, regular exercise, reducing alcohol intake and avoiding caffeine after 3pm are important lifestyle improvements that can be combined with creating a healthy sleep environment. Switching off devices at least an hour before going to bed and avoiding working too late can reduce 7, https://www.sleepfoundation.org/insomnia/treatment/safe-us

eep is vital to everything we | the levels of hormones that keep the | a book can also distract the mind and body on high alert.

It is also worth taking time to create a `sleep sanctuary' by decluttering and tidying your bedroom, blocking out all light and as much noise as possible and - as we spend an estimated 25 years of our life in bed - making sure your bed washed regularly.



Getting the temperature right (18.3 degrees Celsius is optimal, according to experts⁵) and sticking to a routine where you go to bed and wake at the same time every day can help break the poor sleep cycle.

Practicing mindfulness and med tation before bed help relax the body and alleviate depression and anxiety. Listening to relaxation CDs and reading

Nyto

Nytol Herbal Tablets. Nytol Herbal Simply Sleep One-A-Night tablets contain Valerian root extract. Bot I medicinal products for use in the temporary relief of sleep disturbances. Nytol Herbal S ins Valerian root extract. A traditional herbal medicinal product for use in temporary rel ty and to aid sleep. All exclusively based upon long-standing use as traditional remedies. One-A-Night Tablets, Nytol Original 25mg Tablets and Nytol Liquid Caramel Flavour oral s mine, an aid to the relief of temporary sleep disturbance in adults. read the leaflet. UK/2021-0281

- 1. https://www.sleepfoundation.org/insomnia/stress-and-insomnia 2. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5353813/ 3. https://www.mentalhealth.org.uk/our-work/research/sleep-and-mental-4. https://www.nchs.uk/live-well/sleep-and-tiredness/how-to-get-to-sleep 5. https://www.healthline.com/health/sleep/best-temperature-to-sleep 5. https://amanetwork.com/journals/jamainternalmedicine/fullarticle/1809;
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nake it easier to sleep.

Addressing sleep problems and the sues that cause them can be difficult but lytol is committed to helping people get heir fair share of sleep. With more than 20 years' experience helping the UK get a better night's sleep, Nytol offers a range of clinically proven sleep aids that can provide all round sleep cycle support, helping you to drift off gently, improve quality of sleep and wake up feeling refreshed.

For those who prefer a product with natural active ingredient, Nytol also has a range of traditional herbal remedies to aid restful sleep.

Over-the-counter sleep aids that conain the antihistamine diphenhydramine, like Nytol, are indicated for the temporary elief of sleep disturbances but, by improving sleep in the short-term, they may help eset your sleep schedule, enabling you to progress towards consistent sleep.

The negative cycle of poor sleep and stress, and its link to mental health. could be broken by making a good ight's sleep an essential part of your life and wellbeing.

For more information please visit vtol.co.uk



DIGESTIVE HEALTH

Did somebody say 'just sleep'?

Studies suggest a possible link between insomnia and a lack of diversity in gut bacteria. The scientists say there is plenty in this for them to chew on

Katrina Megget

uncommon to crave the lic health problem. compensatory comfort of a full-fat, sugar-encrusted doughnut. Equally, a large dinner of fried of the gut microbiome," says Dr food might leave you tossing and Emeran Mayer, research professor turning in bed and waking drained of medicine at the University of the next day. But food isn't neces- California, Los Angeles, and author sarily the common denominator here. Increasingly, evidence suggests that the gut microbiome – the bacteria and other micro-organisms in our digestive tract – can influ- gut microbiome axis, which enables ence the quality of our sleep.

Research into the microbiome and its role in health and behaviour has been a hot topic for several the microbiome's own circadian years, with research suggesting links between gut bacteria and various diseases and mental health disorders, including cancer and depression. Now scientists believe that there seems to be a relationship with sleep too.

Dr David Gozal, professor of child health, medical physiology and pharmacology at the University of Missouri School of Medicine, is one of those scientists.

"Sleep is very likely have an influence on the gut microbiome," he says. "Conversely, it is very likely that changes in the microbiome have an influence on sleep."

Gozal has put this theory to the test in mice. His team transplanted faecal material from mice that had been genetically engineered to have the chronic condition obstructive sleep apnoea (OSA) into a group of normal mice. The study, published in the journal Experimental Neurology, found that the normal mice developed the OSA symptom of increased sleepiness. According to Gozal, the transplant altered the gut microbiome of the normal mice and affected their sleep.

Meanwhile, several studies have shown that people who sleep better have a more diverse and healthy gut microbiome – and they tend to be in better health generally. This is a big deal when the US Centers for Disease Control and Prevention

ad night's sleep? It's not | deem insufficient sleep to be a pub-

"Disrupted sleep may be as bad as an unhealthy diet for the health of The Gut-Immune Connection.

The interaction between the digestive system and sleep comes down to what's known as the braina bidirectional flow of information between the two systems. This is likely to be influenced by both rhythm and the regulation of sleep genes, according to Maver. It's also believed that gut bacteria produce basic molecules from food

> called metabolites, which are shuttled to, or communicate with, the brain through the axis. Although the research is still in its infancy there are numerous theories as to how this might happen. One is that the gut microbiome could affect the immune system and vary the level of immune-signalling molecules such as cytokines. Another is that it could regulate chemical messenger molecules called neurotransmitters, including the stress hormone cortisol.

A recent study in Japan, published in Scientific Reports, high lights the role that metabolites might play. Researchers compared

the intestinal contents of normal mice with those that had a depleted gut microbiome. All of the mice were fed the same diet, but the researchers found that the metabolites were different in the two groups. Significantly, the mice with depleted microbiomes didn't appear to possess the bacteria that convert the amino-acid tryptophan in food into the sleep hormone serotonin. These mice had disrupted sleep patterns.

This all leads to a tantalising proposition: if we were to alter our diet or the microbiome of our gut, could we improve our sleep? The idea certainly holds some promise. Take prebiotics food that feed the teria. Another study tific Reports found that rats on a prebiotic diet not only slept more soundly than those on a nonprebiotic diet; they were also better at dealing with stress.

When they dug deeper, rats on the prebiotic diet had fewer sleep-disrupting metabolites. They are cautiously optimistic that their findings could spawn new methods ment of approaches to promote for treating sleep problems. One of the authors of the research is Dr | ment of sleep disorders using per-Monika Fleshner, professor of integrative physiology at the University of Colorado. She says that the discovery of "an innovative alternative to sleep medications is desirable. The next step is to figure out which as an expendable commodity but dietary prebiotics can affect which rather as a major long-term detertypes of gut bacteria."

Dr Jaime Tartar, director of the Gozal adds. The gut microbiome neuroscience programme at Nova has a role to play in this, but we are Southeastern University in Florida, only just starting to discover its warns that the relationship between a nature and extent.

People need to treat sleep not as an expendable commodity but rather as a major long-term determinant of health and wellness

fibre compounds in the gut microbiome and sleep is complex. "I don't think the answer beneficial gut bac- for significantly better sleep will be simply to supplement the diet with published in *Scien*- a particular prebiotic," she says. "But this research area holds the promise of directing us towards how we can improve sleep through diet.' Manipulating the gut microbiome

could target a number of health problems associated with poor sleep, such as cardiovascular disease and diabetes. Gozal believes that a greater understanding of the the researchers found that the gut microbiome in health heralds a new approach to sleep.

> "This opens unique opportunities for 'sleepbiotics' and the develophealthy sleep, as well as the treatsonalised interventions." he savs.

Indeed, Unilever has recently joined forces with Microba Life Sciences to explore this very area.

"People need to treat sleep not minant of health and wellness,"





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