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R MICHAEL MOSLEY, who died last week, will be fondly remembered for his popular TV programmes, his best-selling books, podcasts and his regular weekly column in this newspaper.

But perhaps his greatest skill — and his lasting legacy — will prove to be his ability to distil complex scientific concepts into simple, actionable tips that everyone can understand and might be tempted to try.

Michael tirelessly championed health

and longevity and his suggestions were always backed by solid, evidence-based research (or the sometimes bizarre experiments he conducted on himself).

He was a passionate advocate for encouraging people to take responsibility for their own health and he steadfastly believed that small lifestyle changes can magnify and grow to create a big impact.
There is no doubt that his advice helped

to improve many lives, so here, in the first of a three-part tribute series which will run today, in tomorrow's Mail on Sunday and in Monday's paper, are 160 of the lifechanging tips he gave the nation, in his own words, starting with his groundbreaking approach to weight loss.

NO NEED TO DIET **EVERY DAY**

THE idea you don't need to cut calories every day to lose weight was revolutionary when the 5:2 was introduced in 2012. Fasting for two days a week and eating normally for five evolved into the Fast 800 Keto, which incorporates the same key principles but encourages a 3:4 split, where you 'fast' (800-1,000 calories a day) for four days and eat healthily for three

If you have a lot of weight to lose — or you are hoping to reverse a diagnosis of type 2 diabetes — Fast 800 Keto works best with a fast-track weight-loss period of 800 calories every day. But at the heart of the concept is the classic intermittent fasting which makes the plan much easier

to keep going long-term.

Most people find they can happily stick to the calorie restriction during the week if they can relax the rules slightly (by increasing portion sizes and introducing healthy carbohydrates) over a long weekend.

Today, the Fast 800 Keto is regarded by the medical profession as an excellent way to lose weight and improve health, including helping those at risk of type 2 diabetes improve their blood sugar levels

GO FOR TWO MEALS INSTEAD OF THREE

YOU can speed weight loss and improve blood sugar and cholesterol levels, cut your risk of type 2 diabetes and even slow age-related decline in brain health by incorporating Time-Restricted Eating (TRE) into your life. This is a form of intermittent fasting in which you eat your day's meals within a narrower

Aim for a 12:12 pattern (eating all your meals within a 12-hour window). Some people find two slightly larger meals each day can be more convenient and satisfying than three smaller meals. One popular pattern is having a late breakfast skipping lunch, then eating an

TEACH YOUR BODY TO BURN FAT

BY ENSURING your calorie allowance includes plenty of protein (meat, fish, eggs), healthy fats (olive oil, nuts) and not many carbohydrates, you can create the ideal conditions for your body to go into a state of 'ketosis'. This is when it releases compounds from your fat stores and converts them into chemicals called ketones which can be used as fuel.

Amazingly, ketosis doesn't just mean you're burning fat, it also promotes the release of hunger suppressing hormones

life-changing tips that Michael Mosley gave the nation and how they can transform YOUR health

In a major new series to mark his great legacy, here's the very best of Dr Michael Mosley's science-backed advice, starting today with his tried-and-tested approach to weight loss

the combination of fibre and flavonoids which

are produced by plants to protect them from

sunlight and disease. These can be

found in or just under the apple's skin

so eat unpeeled for top

Apples have been shown to cut the

risk of diabetes. They also contain

health-boosting vitamins C and K. plus

minerals like copper and potassium.

MAKE SURE YOU PRIORITISE PROTEIN

FOR effective weight loss you maintenance of a healthy immune need to ensure you are eating system and we need it to build plenty of good quality protein (meat, fish, eggs, nuts and seeds, the infrastructure of our bodies.

One U.S. study found women given 75g of

dried apple every day (equivalent to two fresh apples) for six months

reduced their cholesterol levels by

23 per cent, and, despite the extra

calories, the apple eaters lost 1.5kg

The benefits are thought to lie in

iust over 3lb — in weight, too.

THE nutritious compounds in apples could aid

essential for producing hormones, it helps with the repair and muscles, enzymes and much of

TWO APPLES A DAY MELT POUNDS AWAY

and dairy products). Protein is But many of us aren't eating enough. In fact, research shows lack of good quality protein in our diet could explain why we are get-ting fatter. Australian researchers have discovered that we have a

when the protein content of the food we eat is too low, we are compelled to go on eating until we have satisfied that protein need.

■ IF YOU are sticking to an 800at least 50g of protein a day.

■ ON NON-FAST days when you don't need to count calories 60 80g of protein a day is advised and closer to 100g for the elderly, as they absorb less protein.

■ WHEN aiming to maintain weight loss you can achieve optimal health and prevent weight gain by eating 1g of protein per kg of body weight (so, if you weigh 80kg, that's 80g of protein a day).

IF YOU'RE VEGAN, **SHUN FAKE MEATS**

IF YOU are vegan, be clever in vour protein choices, as many



MONITORING YOUR PROGRESS WILL KEEP YOU MOTIVATED

daily are, on average, 6.5kg lighter than

idies show that regular snack-

those who weigh themselves monthly.

■ REMIND your-

self why you are

1 MEASURE your waist. Put a tape measure just above your belly button and breathe naturally (don't hold your tummy in!). Repeat every two weeks (at the same time each day) to check your progress. If you don't have a tape measure, cut a length of string to your height, fold it in half, then see if it fits around your tummy. Your waist should, ideally, be less than half your height.

2 TAKE your blood pressure — if you are hypertensive your blood pressure should start to come down when you

3 TAKE a photo. You will want to show people the 'before' and 'after' in a few weeks' time and you'll kick vourself if you haven't got photographic evidence.

4 KEEP a diary of your progress and log the main reasons why you want to lose weight (it's good to flick back to whenever you feel yourself wobbling).

5 GARNER support — tell family of your plans and reasons for losing weight. Making a commitment means you're more likely to stick to it, and people are less likely to offer you 'treats'.

on your plate.

THREE WEIGHT MAINTENANCE TIPS

1. SERVE yourself smaller portions than you're used to. 2. EAT slowly and mindfully (if you eat fast, you eat more). **3.** DON'T be afraid to leave food

REMOVE TEMPTATION FROM YOUR LIFE

WILLPOWER is hugely overrated and relying on it is one of the main reasons why so many diets fail. Help yourself by creating an environment in which it is easier to succeed than to fail.

This may mean changing your route to work to avoid passing your favourite coffee shop where you buy your frothy coffee and muffin (a cappuccino and muffin easily adds up to 500 calories).

And it almost certainly means clearing your house of tantalis ingly tempting junk food and 'treats'. At the very least, put all the snacks in one cupboard and either lock it and give the key to your partner or put a large skull and crossbones on the door and hope that will deter you.

19 FOODS TO EAT **IN ABUNDANCE** healthy old age, don't you?

THESE foods are packed with nutrients and fibre and should form the basis of every healthy meal. Eat them freely without counting calories at any stage of vour weight-loss journey. You can drizzle them with a little extra virgin olive oil or scatter with grated parmesan cheese.

Leafy green veg: Spinach, kale, cabbage, broccoli, cauliflower, Brussels sprouts, chard, spring beans, mangetout, courgettes.

ia in your gut, so they can work Salad: Lettuce, rocket, endive, cucumber, tomatoes, peppers.

THREE WAYS TO DRINK MORE WATER

WATER is your weight-loss friend and staying hydrated is key to minimising 'carb withdrawal'. You should be drinking enough fluid so that you are going to the loo to wee at least 6–7 times over a 24-hour period.

Any time you feel tempted to

TURN OVER FOR MORE

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water and wait ten minutes. The cravings will pass.

1. TAP water is more enjoyable if you keep a jug cooled in the fridge.

2. ADD slices of lemon to jazz it up.

3. AIM to drink a big glass of water when you wake up in the morning, a big glass mid-morning and a glass with each meal.

TEN TIPS TO SURVIVE A DINNER PARTY

1. LET your hosts know beforehand that you are following a healthy eating plan, to minimise undue pressure on the day.

2. OFFER to bring a dish and make a huge, healthy salad to share.

3. BRING fizzy water to drink.

4. TIME your previous meals so you don't arrive hungry.

5. DECLINE alcohol.

6. DO NOT touch the nibbles. Not even one crisp. Avoid standing near them.

7. MAKE a healthy selection from the food, basing your meal on protein and green leafy vegetables or salad.

8. HAVE a well-prepared 'speech' ready for anyone who tries to persuade you that dieting is pointless.

9. IF CRAVINGS strike, take a moment to run through a quick deepbreathing exercise.

10. REMIND yourself, these gettogethers are all about the people, not

TEN WAYS TO IGNORE RESTAURANT TEMPTATIONS

1. CHECK the menu online if you can and decide what you plan to order.

2. ASK for extra salad or extra green vegetables in place of potatoes or rice.

3. TIME your other meal or meals that day so that you are not starving hungry when you go out.

4. OFFER to be the designated driver so you have an excuse not to drink.

5. ASK for tap water for the table and keep drinking throughout the evening.

6. REFUSE bread and breadsticks.

7. IF EVERYONE is ordering a starter, ask for a simple green salad.

8. IF YOU can't find a healthy main meal, order two starters instead.

9. EAT slowly, putting your knife and fork down between every mouthful. 10. SKIP dessert.

13 WAYS TO MAKE YOUR DIET MEDITERRANEAN

THE Mediterranean diet is widely seen as one of the healthiest on the planet and studies show the combination of fresh real foods is optimal for health and weight loss. Maximise your 'M score' by following these guidelines:

1. USE olive oil for cooking and salad dressings.

2. EAT more than two portions of vegetables a day (not including potatoes).

3. EAT two or more portions of fruit per day.

4. EAT less than one serving of processed meat (ham, bacon, sausage) per day.

5. HAVE plain yoghurt three or more times per week.

6. THREE or more servings of legumes per week. **7.** THREE or more servings of

wholegrains per week.

8. EAT oily fish or shellfish three

 $DR\ MICHAEL\ MOSLEY\ shared$ advice with Daily Mail readers every week in his Saturday column, including these tips on

SIX WAYS TO GET MORE PROTEIN INTO YOUR DIET

the best ways to boost weight loss.

■ START your day with eggs (6g of protein per egg).

■ ADD smoked salmon or a couple of bacon rashers to two eggs and that will push you up to 30g.

■ OR YOU might opt for kippers for breakfast. A small kipper, around 100g, will give you 25g of protein.

■ GREEK yoghurt is also a good way to top up protein levels, particularly if you add nuts. A small serving (200g) with nuts will deliver around 25g of protein.

■ FOR lunch, or your evening meal, your best bet for a protein boost is meat or fish, with a palm-sized piece of either delivering about 30g of protein.

■ IF YOU'RE a vegetarian, then beans and lentils are a protein-packed option. One cup (200g) of cooked lentils provides around 20g of protein. And tofu, which is a great meat substitute, gives you about 18g of protein per 150g.

FOUR WAYS TO KEEP BLOOD SUGAR LEVELS STABLE

■ DELAY drinking coffee until an hour after waking. A couple of hours before you wake up, your body releases a big shot of the stress hormone cortisol to get you ready for the day ahead and one cup of coffee (even taken black and without sugar) can boost that spike. Better to delay it until those initial blood sugar levels are falling.

■ TAKE a 15-minute walk 60-90 minutes after eating so your muscles use up some of the surplus sugar in your blood.

■ DRINK a tablespoon of apple cider vinegar in water before having a sugary snack or carb-heavy meal (the acetic acid in the vinegar slows the breakdown of carbs into sugar).

■ COOK, cool and then reheat carbheavy meals such as rice, pasta and potatoes to change their structure so they become 'resistant' to gut enzymes that break them down, causing a smaller blood sugar surge.

SEVEN TRICKS TO SPEED UP YOUR METABOLIC RATE

ONE reason we are gaining weight is because studies show our metabolic rate (the measure of the amount of calories you burn daily to keep going)

9. EAT cakes and biscuits less

10. EAT a serving of unsalted nuts

11. COOK with garlic, onions

and tomatoes three times

12. SIT at the table to eat at least

13. DRINK fizzy drinks less than

three or more times per week.

than three times per week.

a week.

twice a day.

is falling. In fact, over the past 40 years, average metabolic rates have slowed so much that men are burning about 220 calories less a day and women 122 less.

HARNESSING THE POWER OF PROTEIN

■ EAT more meat and dairy products (and fewer ultra-processed foods) studies show when you reduce levels of saturated fat in the diet, metabolic rate drops, but a ketogenic diet (high in fat and protein) helps maintain metabolic rate.

■ TURN the thermostat down. You burn calories keeping your core temperature within a healthy range and your body will produce more metabolically active 'brown fat' which raises metabolic rate.

■ DO MORE resistance exercises, such as press-ups and squats, as muscles burn energy even when you are sleeping.

■ EAT spicy foods. Chilli is thought to rev-up the body's fat-burning mechanisms.

■ DRINK plenty of water to give your metabolism a little boost. The body has to expend energy to warm the fluid to body temperature and water plays an

important role in the way the body burns fat.

■ EAT more protein. This will boost your metabolic rate, as your body uses more energy digesting and absorbing protein than foods that are high in carbs.

■ DRINK green tea. It contains bioactive substances such as caffeine and antioxidants that can boost metabolism and break down fat cells. The caffeine in coffee has a small effect, too.

SIX FOODS TO HELP **BEAT SUGAR CRAVINGS**

RESEARCH shows a particular type of fibre, called inulin, can reduce cravings for sugary foods because it helps boost good' bacteria such as bifidobacteria in the gut which produce the 'feel good'

hormone, dopamine.

Inulin supplements of 3g a day are considered safe, but you may experience side-effects such as bloating, diarrhoea, constipation and cramps from such concentrated doses. Instead, you can get inulin from these foods:

■ Garlic ■ Onions ■ Leeks

■ Asparagus

■ Bananas

■ Jerusalem artichokes

RULES TO KEEP WEIGHT bigger hurdle to jump. **LOSS ON TRACK**

■ DON'T go back to old eating patterns — 'normal' for you was very probably too much food.

■ CATCH weight gain before it escalates. Weigh yourself regularly or put a tape measure around your stomach. It's much easier to catch weight regain before it's gone too far than wait and have a

■ ENLIST the support of friends and family. Say: 'It's going to be hard. And there will be times when I'm going to fall off the wagon. But I need you there to encourage me.'

■ ADAPTED by LOUISE ATKINSON from Fast 800 Keto by Dr Michael Mosley

(Octopus, £9.99). © Michael Mosley 2018. And Just One Thing by Dr Michael Mosley (Octopus, £9.99). © Michael Mosley 2023. To order a copy of either book for £8.99 (offer valid to 30/06/24; UK P&P free on orders over £25), go to mailshop.co.uk/books or call 020 3176 2937.

IN TOMORROW'S The Hail How to sleep soundly – and tips to pep up your sex life



In tribute to his impact on the nation's health, the Mail has compiled 160 of his most life-changing tips in a three-part series.

Today we put the spotlight on sleep and sex. Like weight loss, sleep held an enduring fascination for Dr Mosley who was tormented by insomnia for nearly 30 years, ultimately resolving his sleep issues through judicious application of his own methods

Here are his scientifically-backed tweaks to get you sleeping soundly through the night – and some tried and tested ways to boost your libido.

NO MORE LIE-INS

THE single most important change you can make to maximise your chance of getting more deep sleep is to stick to a regular sleep schedule – going to sleep and waking up at the same time every day.

Studies show people with irregular sleep patterns may have a higher risk of dementia and a weekend lie-in will only mess up the body's natural circadian rhythms. This might not be a problem when you're young, or if you are lucky enough to sleep well, but if you're prone to insomnia, this shortfall could be enough to tip you into a run of bad nights

GO TO BED LATER

IF YOU suffer from insomnia, the time spent in bed awake can be stressful enough to set up a bad pattern of behaviours which puts your brain in stress mode whenever your

head hits the pillow.

One of the most effective ways to break this vicious cycle is to spend LESS time in bed. This is called sleep restriction therapy.

The idea is that restricting the amount of time you spend in bed intensifies your urge to sleep, so after a few days of this, when your head does hit the pillow, you drop off quickly into a deep and restorative sleep. With practice, your brain re-learns to asso-

ciate being in bed with being asleep, rather than stress about not sleeping.

It's not easy, but it is powerfully effective. Even the most stubborn cases of insomnia can be shifted – often with the support of a sleep specialist.

If you are prone to waking up multiple times during the night, try going to bed an hour later than normal, but make sure you stick to the same alarm call each morning - weekends included - and no napping is allowed.

If, after a week, you are sleeping better, then give yourself an extra 20 minutes in bed.

The mild restriction may be enough to concentrate your sleep 'muscle' allowing you to sleep more deeply with fewer interruptions.

EAT YOUR WAY TO BETTER SLEEP

EMERGING research shows the trillions of 'good' bacteria that live in your gut produce compounds which play an important role in helping you sleep soundly.

Shift your diet towards a healthier, more Mediterranean way of eating. Switch to using olive oil, upgrade to wholegrains (such as brown rice, wholegrain pasta. seeded wholegrain bread) and snack on nuts not crisps – all of which are fantastic tips for reducing the inflammation that leads to arthritis and other painful

Part 2 of our major new series celebrating our much-loved writer and his gloriously simple science-backed advice that transformed Britain's health...

Michael Mosley's life-changing tips on how you can sleep more soundly and pep up your love life

conditions that can keep people

• Increase the range and variety

HAVE YOU GOT THE

• Your pillows should be soft yet supportive - and

should be replaced every couple of years. If you

fold it and it doesn't spring back open, then it

probably isn't giving your neck enough support

If you sleep on your back, pick a thinner pillow

that doesn't prop the head too high, putting stress

Stomach sleepers need a really thin pillow, or no pillow

at all, to ensure the spine stays straight and to minimise

• For those who sleep on their side (the most popular

position), a standard pillow will do.

diet to feed the 'good' bacteria in your gut which manfacture serotonin. This

improves mood, helps regulate appetite, digestion, sleep and sexual desire. Research shows that people with the most

 Cut back on ultra-processed food (UPFs) to reduce your intake of ar and additives that often contain emulsifiers your gut microbes do not enjoy

Reducing UPFs
will help starve ating inflamma tion, contributing to anxiety, depres sion, weight gain and sleepless nights.

meat, fish, beans or tofu) with every meal to support the basic functions of the bod and improve your chances of a good night's sleep. Aim for a daily target of 1 to 1.5g of protein per kg of body weight per day

out the 'bad' bacteria which can impair sleep quality by cre-• Experiment with probiotic foods such as sauerkraut, kimchi and

> **MOVE MORE TO AID DEEPER SLUMBER**

AN EARLY morning walk exposes you to bright light. This helps set

THE best way to ring-fence good sleep,

night after night, is by setting a regular bedtime and creating a wind-down routine

1 Eat your last meal at least three hours before you go to bed so the digestive

process doesn't interfere with your core

eating forces the gut to spring into action,

2Enjoy a ten-minute soak in a hot bath an hour before bedtime. The warm water raises your body temperature, increasing

the circulation of blood to your skin,

hands and feet. Afterwards, your core

temperature will slowly drop over the

course of an hour, helping to trigger changes in the brain which induce sleep.

hours before bed as bright lights can reduce production of the sleep-inducing

Dim the lights around your house a few

Shun the nightcap. While a few drinks

might help you drop off, they will

kefir which contain live bacteria to

show people who eat fermented

foods have lower stress levels and

enrich vour microbiome. Studies

which raises body temperature.

oody temperature, which should be starting to fall as bedtime approaches. Late-night

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your circadian rhythm which means you are more likely to feel sleepy at bedtime

Weight or resistance training will help preserve muscle mass and boost your sleep efficiency. One study showed resistance exercises could increase the amount of good-quality sleep by an average men who are physically active are less likely to need regular night time trips to the loo.

Exercise is thought to help by

reducing body size, improving sleep, decreasing nervous system activity and lowering levels of

steps to

bedtime routine

Listen to mellow music before turning in.

Studies have shown that older adults who listen to relaxing music before bed fall

asleep faster, sleep longer and wake up less

during the night. The ideal sleep-inducing

tunes have a slow rhythm of 60 to 80 beats

Our your mobile phone on sleep mode an hour before bed and hide it in a drawer

or charge it in another room so you're not tempted to scroll (it's not so much the light

from the screen that's the problem as the

stimulation from unexpected messages).

Electronic devices excite the brain just at

the point where you need everything to be calm and relaxed.

Remove the TV and any computers.

a dreamy

Climb into bed before midnight – your

brain gets its deepest sleep during the first half of the night.

OCheck that your bedroom is cool – 18C

(64F) helps the hibernation process.

9If you are a sensitive sleeper (or your partner snores), wear earplugs.

10 Keep a notebook by your bed and before switching off the light each

night, jot down a list of everything you need

to do the next day. One US study found this

gets vou asleep nine minutes quicker – a

Keeping a journal also appears to reduce

similar impact to taking a sleeping pill.

the tendency to wake up in the night.

CUT BACK ON CAFFEINE AFTER LUNCH

THE caffeine in coffee, tea, cola and energy drinks perks you up because it binds to sleep-inducing receptors in your brain that would otherwise be occupied by

adenosine - the natural hormone that helps you feel sleepy. So if you struggle with sleep, cut

back to two or three cups of coffee a day maximum – and all before

The average half-life of caffeine is around five hours, which means half the caffeine in a 6pm cup of coffee will be still running around your system at 11pm and you could still be feeling the effects at 4am.

Caffeine sensitivity varies according to gender, age, weight,

COCOA?

A CUP of hot chocolate or a bowl of cereal just before bed may sound soothing but it is a bad idea. Your pancreas, which closed down for the night. so it won't be ready for the big sugar hit that cereal or cocoa will deliver. This will cause your blood sugars to rise and keep on rising into the night, which is bad for sleep as well as for your body. Any protein in the food will also cause your stomach to release acid triggering reflux (heartburn).



genetics and any medication (the Pill can dramatically slow your liver's ability to break caffeine

TAKE NAPS TO BOOST

A 20-minute nap pushes the reset button, increasing alertness and attention, as well as sharpening motor skills. Best time is seven

enough time to move into 'slowwave' sleep, which can help to

taken in the morning, gives you access to REM (rapid eye movement) sleep which can

If you are very sleep-deprived but still need to function, try a coffee snooze: Drink a cup of strong black coffee, set your alarm for 20 minutes' time, lie down and

YOUR MOOD AND WITS

NOT only can napping boost mood and wellbeing, but large studies have shown a link between regular napping and good heart health. It can improve your thinking skills and strengthen your capacity to learn. But don't nap if you're trying sleep restriction.

hours after waking.

A 60-minute nap gives you enhance memory.
A 90-minute nap, particularly

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sleep. It takes 20 minutes for the caffeine to hit your brain. You should be buzzing as your alarm

HOW TO CALM AN OVERACTIVE MIND

BREATHING exercises help to still your busy mind by forcing you to focus on specific counting patterns as you breathe calmly and deeply. Try these:

•4-2-4 breathing: Breathe in deeply through your nose to a count of four, hold for two, then exhale for a count of four. Repeat

• Alternate-nostril breathing: Breathe out through your mouth and use your right thumb to close vour right nostril, breathe in deeply through your left nostril to a count of four, now switch sides and block your left nostril with your left thumb and breathe out to a count of four. Repeat 10 times.

DO YOU REALLY NEED A NEW MATTRESS?

THE life expectancy of mattresses varies considerably, but watch out for sagging, as this can throw your spine out of alignment and affect the quality of your sleep. A mattress topper might provide sufficient cushioning and support and will be much cheaper than buving a new mattress.

WHAT TO DO IF YOU **WAKE IN THE NIGHT**

WAKING in the middle of the night becomes more common as we get older because we sleep less deeply.

 Resist the urge to check the time (it only creates stress).

•Try 'progressive muscle relaxation': breathing steadily, first inhale and contract one muscle group (for example make a fist with your right hand) for five seconds, then exhale as you release

the tension in that muscle.
As you do so, imagine those stressful feelings flowing out of your body. Relax, then progress around your body from your fingers to your toes, contracting and releasing one muscle group at a time. You should be asleep before you reach your toes.

●If you find your brain is buzzing it is important to realise that at night your filters are down and your thoughts will be less rooted in reality than they might be during the day. Try to accept that catastrophising thoughts ('I'll be so tired tomorrow my boss with sack me') are not real. It can help to give negative thoughts a name,

AS A Daily Mail columnist and health writer, Michael Mosley shared many tips to rev up our love lives. Here are just some of them...

- SWITCHING to a Mediterranean diet should give your sexual prowess a bit of a boost, as studies show that oily fish, olive oil, garlic and onions help to improve blood flow to the sexual organs and minimise the risk of impotence. In one study, women who consistently ate a Mediterraneanstyle diet scored higher on desire, arousal, lubrication, orgasm, and satisfaction. Another trial found that men who consumed more fruit, vegetables, nuts, wholegrains and olive oil over a two-year period reported an improvement in erectile function.
- FOODS rich in omega-3 fatty acids (such as oily fish) have been shown to help increase testosterone, which is crucial for sex drive and performance. Omega-3s are also believed to help prevent the build-up of plaque in your arteries, which can help to promote blood flow to those all-important areas of the body during sex.
- EAT more beetroot the nitrates in this root vegetable can help lower blood pressure and increase blood flow to the sexual organs. The Romans used beetroot as an aphrodisiac.
- PISTACHIO nuts are thought to help lower blood pressure and reduce the risk of heart disease. One study showed men who ate 100g a day for three weeks experienced firmer erections and increased blood flow to the penis.
- LEAFY greens such as spinach, kale and Swiss chard are excellent sources of magnesium, which has been

shown to positively affect testosterone levels. One 2011 study showed that magnesium supplements could prompt a testosterone hike.

STOP smoking - cigarettes damage the small arteries and nerves that are so important

for getting and maintaining an erection (40 per cent of regular smokers have problems in this department). Women are also affected because smoking cigarettes can cause circulation problems that can lead to reduced arousal and

Take a tip from

the Romans... eat

beetroot to put lead

in your pencil

intimate dryness.

ENJOY a glass of red wine.A study of 798 Italian women found that those drinking one to two glasses of red wine a day reported greater 'sexual desire' as well as 'overall sexual function'

such as 'Donald'. When they appear you can say to yourself 'oh there's Donald sounding off again'. This sounds crazy, but it works.

●Try saying to yourself 'I am enjoying being awake, let's see how long I can stay awake for'. Studies show the 'paradoxical intention' of deliberately trying to stay awake when you are desperate to go to sleep can lead to you falling asleep.

•Deep breathing exercises can reduce stress by activating the parasympathetic system which causes your heart to slow and your blood pressure to drop. Start by taking a slow, deep inhale through

the nose, allowing the air to fill your lungs. Hold for a count of two, then breathe out slowly through your mouth.

•Give yourself a strict 20 minute time limit. If, after 20 minutes, you are still awake, you should get out of bed and out of your bedroom. Good sleep depends on you associating bed with sleep and sex, nothing else – and particularly not with worrying. The main thing is to try

not to worry about being awake.

If you can't sleep, don't watch TV or scroll through social media (too stimulating). Listen to soothing music, a dull podcast or read a book vou have read before. When you

start to feel sleepy, go back to bed.

MAKE TIME TO GET AMOROUS

SEX can improve your sleep. That is because regular sex boosts levels of the chemical oxytocin (also known as the 'love hormone' as it aids human bonding) while reducing levels of stress hormones such as cortisol. But sex seems to be a more effective sleep aid for men than for women.

STOP THE SLEEPWALKER

IF YOUR child or partner sleep-walks at around the same time every night, try gently waking them about half an hour before they would normally start sleep-walking. This should disrupt their sleep cycle, and in some cases that is enough to stop their parasomnia (the name for any sort of unusual physical effect that interrupts nor-

mal sleep)
You will need to do this every evening for at least a week to break the cycle.

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● Adapted by Louise Atkinson from 4 Weeks To Better Sleep by Dr Michael Mosley, published by Octopus, priced £14.99). To order a copy for £13.49, visit mailshop.co.uk/books or call 020 3176 2937. Offer valid until June 30. UK p&p free on orders

MISSED PART ONE IN YESTERDAY'S MAIL? Scan here to read on Mail+

IN TOMORROW'S Daily Mail Balance test that's a lifesaver and what to feed your brain Daily Mail, Monday, June 17, 2024 Daily Mail. Mondey June 17, 2024 Page **25**

Sing every day. Get off the bus a stop early. And stand on one leg while brushing your teeth. In the final part of our tribute series to columnist the world loved, here are...

Michael Mosley's

brilliantly

R Michael Mosley's greatest skill – and his lasting legacy – was his ability to distil complex scientific concepts into simple, actionable advice that everyone can understand and try out for themselves. He made it his mission to unearth small changes which can have a big impact on our mental and physical health. Here, in the final part of our tribute series highlighting 160 of the life-changing tips he gave the nation, are the insightful tweaks and tricks the insightful tweaks and tricks he shared for boosting body strength and brainpower.

DANCE AWAY DEPRESSION AND DEMENTIA

DANCING has been shown to be more effective at improving your muscles, balance and brain health than traditional fitness exercises. It can alleviate depression, reduce the risk of heart disease and stroke, boost memory and protect against dementia. Brain-imaging studies reveal that it can boost the areas associated with memory and processing as you work out what to do with your arms and legs, and dancing with others can have powerful, stress-reducing effects.

FIRE UP YOUR BRAIN WITH **SOUATS AND PRESS-UPS**

PRESS-UPS and squats are some of the best exercises for your heart and brain. Squats – where you bend your knees as if you are about to sit on a chair – work the biggest muscles in your body (your thighs and buttocks) and are probably the best single exercise you can do. And press-ups are a fast and very effective way to increase upper-body strength. The amount you can pump out in one session also seems to be a good predictor of heart health. A healthy man in his 50s should be able to do 20, a woman at least ten.

Both exercises are good for the brain. Studies show they help to stimulate blood flow to the hippocampus, a part of the brain responsible for learning and memory.

Squats have also been shown to stimulate the release of a hormone called BDNF (brain-derived neurotrophic factor), which

encourages the growth of new brain cells and connections. Think of it as fertiliser for your brain.

Interestingly, research shows squats have a more powerful brain-boosting effect than walking or jogging. Three to five minutes of squats three times a week is even more effective in terms of boosting brain health than a brisk 30-minute jog three times a week.

Press-ups have a similar effect Experts believe it is the action of your head moving up and down, working against gravity, that benefits the brain.

The good news is you can still get the brain benefits even if you only try squats and press-ups for the first time later in life.

The key is to start gradually to avoid injury. If you have an existpressure or are frail, talk to your doctor before starting.

to boost brain power and help you live longer **HOW TO DO A PRESS-UP:** Lie face with your knees on the ground. down with the palms of your hands under your shoulders and ground. Keep your body straight. With your elbows at right angles with the floor, push up. When you start, it might be easier to do this

AS Dr Mosley pointed out in one of his

that a positive outlook is a predictor for

Saturday Daily Mail columns, studies show

living a longer life. If you're naturally a bit of a grump, try these tips to enhance positivity:

1. SET yourself small simple health goals and

pat yourself on the back when you've

2. KEEP your friends and family close and

HOW TO DO A SQUAT: Stand with your feet hip-width apart. Bend from the hips, keeping the weight in your heels. Keeping your back straight, bend until your thighs

you are preparing to sit in a chair.

TEN TWEAKS TO GET MORE ACTIVE

FOUR WAYS TO BE MORE POSITIVE evidence that having close friends is one of the most important forms of protection against

TWEAKS

stress and premature aging. 3. STRIKE up conversations with strangers in the supermarket or coffee shop

4. SMILE - even if you have to fake it. Studies show the effect of curling your mouth into a grin triggers chemical changes which reduces extend your social network. There's abundant stress and boosts happiness.

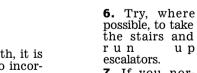
every aspect of your health, it is important to find ways to incorporate activity into your day. Housework and gardening counts but try these other tips to increase your activity levels:

1. Buy a bike and cycle when you can. 2. If your destination is less than a mile away, why not walk? It will take you less time than waiting for a bus or finding somewhere to park.

3. Stand while talking on the phone. You'll burn calories and sound more assertive.

4. Use a basket at the shops rather than a shopping trolley. That way you do a bit of resistance training at the same time.

5. Drink lots of water. This not only keeps you hydrated but also increases the need for bathroom breaks, which means in turn more short, brisk walks.



7. If you normally take a bus or train to work. get off at an ear-lier stop than usual and walk the rest of the

8. If you drive to work or the supermarket, park at the far end of the car

9. Keep resistance bands – stretchy cords that offer resist-ance when you pull on them – or small hand weights near your desk. Do arm curls between meetings

10. Organise a lunch



FIVE EASY AND EFFECTIVE **WAYS TO GET FIT**

1. Begin the day with a brisk walk. Getting out within an hour or two of getting up gives you the benefits of exercise PLUS exposure to natural light, and this combina-tion can improve your sleep (by helping to reset your body clock), boost your mood, increase your fitness and cut your risk of heart disease and diabetes. Any walk –

short, long, fast or slow – will strengthen muscles and bones, reduce joint and muscular pain, burn a few calories and increase energy levels.

2. Download a seven-minute workout app (they're free) – it will get you doing a quick but effective series of cardio and strength exercises each day. No matter how busy you are, you've got seven minutes to spare.

3. Embrace the speedy effectiveness of High-intensity Interval Training (HIIT) which condenses the benefits of a much longer workout into just a few minutes. You have to give maximum effort in three or four 20-second bursts (with a short rest in between), whether you're on an exercise bike, doing sprints, jumping jacks or even running up the stairs.

4. Make a regular weekly (or bior resistance training using This helps maintain and build

important muscle mass which naturally declines with age.

READ POETRY

OUT LOUD

READING poetry aloud is a

areat way to reduce stress. The rhythm automatically

slows down our breathing which in turn activates the

parasympathetic nervous

system to slow down the

heart, reduce stress

and incite a feeling

of calm

STAND ON

ONE LEG

BALANCE is something most of

us take for granted, but it slowly

slips out of our grasp as we get

older putting us at risk of falls.

But you can very swiftly improve your balance. By inte-

grating balance exercises into

your day, you can boost your

core strength, posture and co-

ordination and stand up

straighter (which reinforces

messages from sensors in your

inner ear, muscles, joints and eves that tell your brain where

vour body is in space and keep

balancing skills active is to stand

on one leg for a few minutes

every day. Just shift your weight

on to one leg while brushing

your teeth or waiting for the

kettle to boil. You might want

to start by resting a hand on the

When you can happily balance

for 30 seconds on each leg, try

doing it with your eyes closed

for a more intensive challenge.

sink, or the back of a chair.

The easiest way to keep your

you from falling over).

5. If you really haven't got time to with each 'snack' (such as running up and down the stairs, taking a quick speed-walk around the block or jogging on the spot while you wait for the kettle to boil) lasting anything from 20 seconds to ten minutes. Studies show squeezing a few of these short periods of activity into your day can improve blood glucose and blood pressure more effectively than a 30-minute workout because when we stop exercising, our metabo lism keeps

going a bit more quickly for a while as we recover. It doesn't matter what you do as long as you are elevating your heart rate and get-ting a bit warm.

TOP UP ON VITAMIN D

WHEN the sun comes out, roll up your trouser legs and sleeves and spend 10-15 minutes soaking up those rays. Recent research suggests a short blast of sunshine each day in spring and summer could help lift our mood, lower blood pressure and keep our immune system in good shape. Our skin is a Vitamin D factory which takes free sunlight and transforms it into this amazing nutrient. As well as being vital for strong bones, Vitamin D contributes to a well-functioning immune system. Studies have shown people with very low Vitamin D are at greater risk of heart disease, dementia, diabetes, multiple sclerosis and even some forms of cancer. Sunlight also triggers the release and it can help lower blood

SING YOUR HEART OUT

SINGING is a great way to boost mood, reduce anxiety and even relieve chronic pain. Whether you're belting out show tunes in the shower or getting your vocal chords around Gregorian chants, singing stimulates the release of endocannabinoids. These are chemicals naturally produced in our bodies that have a very similar structure to those found in the cannabis plant; in high concentration, they can have mood-boost-

Studies show a single session of singing can be enough to lead to improvements in mood and measurable reductions in stress and inflammation. The natural high you get from singing can also help with pain relief. There's plenty of evidence that learning to play a musical instrument also offers waves of benefit for the brain studies show regular practice working memory which is some-

■ Take a snooze after lunch – studies show a 20-minute nap can improve thinking skills and strengthen your capacity to learn. t pushes the reset button, increasing alertness and attention as well

and mood.

olate feed the good bacteria in the gut, prompting them to produce

compounds which travel to the heart and brain and boost cere bral blood flow which aids learn-

- Jump on to the children's video games – research shows that action-packed gaming (particularly those which involve quick thinking, navigating around environments, and finding visual tar gets) can be good for your brain and even for your eyesight. They have been shown to boost working memory (your ability to remember more than one thing at a time), your focus and your ability to multi-task.
- Commit to learning new skills the process of learning, no matter what your age, forces your brain to generate new brain cells, forge new pathways and grow new connections, thereby boosting your brain power. One of the best skills you can acquire is learning a new language, because juggling between sounds, words, concepts and grammatical and social rules enhances blood flow and connect tions across the entire brain. It can even improve intelligence. But for maximum benefit, you have to
- practise for five hours a week. ■ Read books - particularly fic tion. Reading is not only good for empathy and social skills, it can improve memory and protect against depression. Fiction acts as a 'whole brain' workout as your brain works to imagine the settings, sounds, smells and tastes described, and this activates the many different areas of the brain that process these experiences in real life. Research from Yale found those who read for 30 minutes a day lived, on average, 23 months
- longer than those who didn't. ■ Count your blessings: There is solid science that getting into the can make vou feel happier, lower your blood pressure, improv sleep, ease pain and even rewire
- Glug a glass of water. Studies show being hydrated can improve attention and help with problemsolving. It also enhances physical performance; helps you keep calm and can boost your mood. Water makes up 60 per cent of our bodies and 90 per cent of our brains and even losing 1 to 2 per cent of it is enough to impair our cogni tive function. That's why drinking more water leads to improve ments in both working and short

TWO UNEXPECTED WAYS TO BOLSTER IMMUNITY

1. Take a cold shower - the blast of cold helps to fire up your body's defence mechanisms which helps you handle stress and infection. Cold-water immersion has an anti-inflammatory effect, which is important given that so many conditions – Alzhe imer's, type 2 diabetes, heart disease, depression – have their root in chronic inflammation.

2. Get outside into parkland, meadows or forest. Studies show being in green spaces helps reduce stress and anxiety and can boost your immune system. By taking deep breaths you will be inhaling phytoncides - the essential oils given off by trees which protect the trees from microbes and insects. but which have been shown to strengthen the immune system.

■ Adapted by LOUISE ATKIN-SON from Just One Thing by Dr Michael Mosley (Octopus, £9.99). © Michael Mosley 2023. To order a copy for £8.99 (offer valid to 30/06/24, UK P&P free on orders over £25) go to www.mailshop

HOW TO BOOST BRAIN FUNCTION

as sharpening motor skills.

■ Fill your office space with houseplants – studies by Nasa show certain plants can clear the air of toxic particles and experts believe a green indoor environment can elp boost memory, productivity

■ Nibble on a square of dark choc-