# **GOOD HEALTH**

Surgery patients sent home at risk of opioid addiction

CAMPAIGN

**SAVE THE** 

PRESCRIPTION

**PILL VICTIMS** 

**By RACHEL** 

**ELLIS** 

They are especially dangerous

for older patients who are more

likely to have underlying health

Opioid prescriptions increased

veen 1998 and 2016, accord-

Lancet Psychiatry, with the

by 34 per cent in England

ing to a 2019 study in the jour-

size of the doses of the drugs on

The number of people pre-

scribed opioids grew by another

two million between 2006 and

2017, according to research by

the University of Manchester,

with prescriptions of codeine

increasing five-fold over this

period; and the strong opioid

Professor Lobo says this

increase was probably due to

poor management of patients'

expectations of pain, so they

'want to be pain free rather

The new study looked at the

records of 499 adults who'd

undergone routine surgery.

including hernia repair and gall

bladder removal, in 14 NHS

hospitals in England in March

discharged with an opioid pre-

scription — a quarter were not

told when they should stop tak-

ing the drugs, and more than 70

per cent received no written

advice on weaning themselves

off the drugs, defying official

The study also found that

there was no guidance or train-

ing on opioid prescribing in any of the hospitals included.

'This study identified a pat-

tern of poor opioid prescribing

practices, and a lack of guid-

ance and formal training,' says

guidance.

It found that 21 per cent were

than have manageable pain'.

oxycodone 30-fold.

which can be fatal

problems.

the rise, too.

nal

HOUSANDS of NHS patients are being prescribed potentially addictive opioid drugs without safeguards to prevent them from becoming hooked, new research published in the journal Anaesthesia shows.

Opioid medication, such as codeine, tramadol and oxycodone, can be highly addictive and is at the centre of the socalled opioid epidemic.

The new study, the first to look at opioid prescribing following surgery in the UK, revealed that despite more than a fifth of patients being discharged from hospital with an opioid prescription, hospitals are failing to carry out basic steps to reduce the chance of patients becoming dependent on these Daily Mail

drugs. Researchers from Nottingham University found that a third of patients are not given a time limit for taking opioids and two thirds do not receive any written advice about how to wean themselves off the medication. which can become addictive within a matter of weeks.

This goes against national advice from the Medicines and Healthcare products Regulatory Agency (MHRA), issued to minimise the risk of addiction. Furthermore, none of the doctors who oversee post-op care at the 14 hospitals included in the study had received training in prescribing opioids following surgery, despite this being in the MHRA guidelines, researchers found. Only one of the hospitals advised GPs to avoid

repeat opioid prescriptions. Dileep Lobo, a professor of gastro-intestinal surgery, who led the study, said the findings were 'concerning'

'Having surgery is a major risk factor for opioid addiction, because these drugs are widely used for pain relief following operations,' he told Good Health. 'We know patients can become dependent on opioids in just two weeks, but are more likely to do so if they take them for 90 days after surgery.

Previous research has shown that up to a quarter of patients prescribed opioids following surgery will be taking them for more than three months (if pain continues for more than 90 days, it is considered chronic pain and should be treated with non-opioid medications and strategies such as exercise and talking therapy, unless it is cancer pain)

Professor Lobo adds: 'The poor and haphazard prescribing habits identified in this study are known to contribute to opioid misuse and are concerning.

'Without safeguards, patients are more likely to become addicted. This can have devastating consequences both to their health and their lives.'

Opioids can have a range of side-effects, including sleepiness, nausea, anxiety and irritability, which can affect people's ability to work, carry out daily tasks and sustain relationships. Taken at higher doses they can Professor Lobo. 'Patients preslow breathing and heart rate, scribed opioids following sur-



gery should be told the dose and duration of treatment so they know when they should stop taking it and how they should do that

'This would help to prevent doctors providing repeat prescriptions without assessing whether the patient still needs the drug, which we know has been happening more during the pandemic and is more likely to lead to addiction.

Particularly worrying is the prescribing of long-acting opioids such as oxycodone for severe pain because it is much more difficult to reduce the dose of these drugs due to their longlasting effects, making dependence more likely, says Professor Lobo.

The MHRA issued guidance in 2020 on the prescribing of opioids. However, these are rudimentary' and 'do not give advice on how to manage postoperative pain and how to wean patients off opioids', says Proessor Lobo

To address this issue, he and a team of other specialists have put together a ten-point plan to improve opioid prescribing following surgery.

Published in the journal Anaesthesia last year, the plan includes avoiding long-acting opioid drugs, such as oxyco done, because of the greater difficulty reducing the dose; limiting the number of drugs prescribed at discharge from nospital to a week's worth and avoiding automatic repeat prescriptions (for instance, a GP should check there are no complications causing the pain and prescribe non-opioid painkillers if possible)

Professor Lobo is now planning to repeat the study to see if opioid prescribing habits have improved over the last three years, and another to look at the extent of repeat opioid prescriptions after surgery.

'Opioids are good analgesics and are needed in the short term for many patients,' says

Professor Lobo. 'However, the duration of prescribing and dosage following surgery should be limited and long-acting preparations should be avoided as they are more likely to result in long-term

'Despite MHRA and other guidance, prescribing of opioids is still suboptimal,' he says.

OR many years doctors have used body weight as a key indicator of overall health, but it's now clear that some people can be slim yet unhealthy, or even overweight but apparently in rude health (although this still divides expert opinion). Now research by the Mayo Clinic in the U.S. suggests health can be more accurately defined — and longerity predicted — by four other

more accurately defined — and longevity predicted — by four other health parameters: aerobic fitness, muscular strength and endurance, flexibility and body composition. Experts believe these are more useful than any measurement of your weight.

These are all things you can check yourself at home - and importantly, by working to improve your scores, you can boost your health and resistance to illness and disease as you get older.

We asked leading experts for the best DIY at-home tests to check on these four health parameters — with tips for how best to work to improve them.

### **AEROBIC FITNESS**

AEROBIC fitness measures your body's ability to take in and use oxygen, and is closely linked to overall health.

'The process of taking oxygen and using it to produce energy for your muscle cells integrates many of the body's most important systems including muscles, heart, lungs and blood vessels, and as such it is a good indicator of a broad range of your bodily functions,' explains Dr Stuart Gray, a senior lecturer in exercise and metabolic health at Glasgow University.

Scientists measure aerobic fitness using a 'Vo2 max' score, the maximum amount of oxygen your body can utilise during exercise. This score can be improved through challenging your lungs and heart with regular exercise.

The higher your score, the better because it suggests your body is more efficient at taking oxygen from the air and delivering it to your muscles. The more oxygen they get, the more nutrients you can transform into the fuel your muscles use to contract and perform

Do one of the following three tests to measure your current level of aerobic fitness and then repeat the tests monthly to monitor your progress.

#### TEST #1: Check your resting heart

THE number of times your heart beats per minute when you're at rest provides a snapshot of how well the heart muscle is functioning, with a slower beat (usually) a sign of stronger heart health and an efficient cardio-vascular system.

Many studies have linked a high resting heart rate with a shortened life expectancy — a faster heartbeat indicates that your heart is having to work harder, suggesting your cardiovascular system isn't working at its best.

Age, chronic sleep deprivation, excess weight, smoking and prolonged stress can all cause your resting heart rate to speed up — regular exercise tends to slow it because it builds strength in the heart muscle, meaning it can pump a greater amount of blood with each heartbeat.

The best way to test your resting heart rate is lying in bed, having just woken up. Clear away all distractions and don't speak during the measurement. Now simply place your index and middle fingers on either the side of your neck or the inside of your wrist. Set a timer for 15 seconds and count the beats, then multiply the number of beats by four.

Take your measurement more than once on consecutive mornings to get a **70s:** 29+, men; 25+, women baseline figure, then repeat the exercise each month

#### Scores to aim for:

NUIE: women's (smaller) nearts natu rally beat slightly faster than men's: If you're in your

**40s:** 57-66 beats per minute for men; 60-69, women.

**50s:** 58-67, men; 61-69, women 60s: 57-67, men; 60-68, women

**70s:** 56-65, men; 60-68, women

## TEST #2: The step test

THIS simple test which was devel- MUSCULAR STRENGTH oped at Harvard University in 1942 is widely used as broad measure of physical fitness and cardiovascular strength as it measures the rise in



exertion — not speeding up too much and returning to normal swiftly afterwards

Set a timer to three minutes: step up and down off the bottom step of your stairs (follow a pattern of 'up, up' then down, down' so both feet are on the step before you step down) at a rate of 24 steps per minute for three minutes (to help you set the right pace, set the interval timer on your phone to bleep 24 times per minute or say 'one elephant' for up and 'two elephants' for down to approximate the correct speed). After three consecutive minutes, rest in a chair for one minute and then immediately take your pulse.

### Scores to aim for:

**40s:** 90-106 beats per minute for men; 96-119, women

**50s:** 93-112, men; 101-124, women **60s:** 96-115, men; 103–126, women **70s:** 102-118, men; 105-130, women

### TEST #3: The walking test

USE a car to measure exactly one mile (1,609m) of unobstructed path on flat, even ground, or go to a running track (one mile is four laps around the innermost lane). After briefly warming up (march on the spot for a few minutes) start a stopwatch and set off to walk that mile as fast as you can. At the end of the mile record how long it has taken you

This test was devised in 1986 by hysiologists and cardiologists at the University of Massachusetts to measure VO2 max without the need for laboratory equipment, as it evaluates the capacity of your lungs in relation to the volume of exercise you can tolerate

'By exercising regularly, and by repeating this test every two months you should see your times improve — or at the very least plateau rather than decline naturally with age,' says Dr Grav

# Scores to aim for:

40s: 13 minutes. men; 14 mins, women

50s: 13.24 mins, men; 14.42, women **60s:** 14 mins, men; 15, women **70s+:** 15 mins, men; 18, women

YOU can also use the time it took you to walk that mile to work out your VO2 max by also measuring your heart rate immediately after you finish the walk: put both figures into an online calculator (such as this one bri-anmac co.uk/rockport.htm).

#### V02cmax scores to aim for:

**40s:** 39+ for men; 34+, women **50s:** 36+, men; 31+, women **60s:** 32+, men; 28+, women

**WHAT TO DO:** The 'best way' to improve aerobic health is to find something vou enjoy 'which you can build into your daily life, long term', says Dr Gray. He recommends regular cycling, swimming, running or walking — but he says it can take three to six months before you notice improvements in aerobic health and adds that because aerobic health naturally declines with age, plateauing on your scores over time can actually be a mark of success

# **AND ENDURANCE**

Muscle strength and endurance is key to preventing falls and as Naveed Satyour heart rate caused by exercise, tar, a professor of metabolic medicine and the speed at which your heart rate at Glasgow University, explains, it is recovers afterwards. The idea is that a also important for general good health: healthy heart will cope better with the 'with increased activity, blood vessels

he says.

# sit to stand test

30 seconds. Grav.

# GOOD HEALTH ———

What's the best predictor of health? As the Body Mass Index falls out of favour because of flawed results...

Forget BMI, **40** try these simple at-home n strength very rapidly, 'the immediate feedback is hugely **FLEXIBILITY** fitness tests to WE become less flexible with age but the degree to which we lose flexibility can be an indicator of failing joint, muscle and tissue health. Professor Skelton explains that a large part of flexibility is genetic: 'Some people can still touch their toes in their 80s,' says Professor Skelton. become shorter, connective tissue predict your becomes more fibrous, and we gradually lose the range of movement in our joints'. it,' she says. 'Flexibility is something we should all be working on daily. Regularity is key,' A good range of movement ensures blood supply to the joints, HEALTH FUTU

pressure can often lower and the heart then finds it easier to pump blood around the body, improving ability to supply oxygen to tissues.

Measure your strength using both of the following tests.

# TEST #1: The 30-second

THIS measures the number of times you can rise from and sit back on to a chair in 30 seconds, and is a standard way of measuring leg strength and endurance. 'It's a great indicator of muscular strength and endurance because if integrates co-ordination, power

and balance,' says Dr Gray. Sit comfortably on a dining room chair, your feet firmly on the ground, your arms folded. Set a stopwatch, then stand (without using your hands or arms for support) and immediately sit again gently as many times as you can in

'When you find this easy, you can increase the challenge by progressing to a softer, lower easy chair which demands greater strength and balance to get up from and down without support,' says Dr

Dawn Skelton, a professor of ageing and health at Glasgow Caledonian University says her team regularly uses tests like these to assess fitness levels in older populations. 'This test is a great measure of lower limb strength which is needed to climb stairs, walk distances, get out of a chair, bath or car and rise from the floor,' she

### Her team has devised scores to aim for:

**50s:** 15-21, men; 12-20, women **60s:** 12-18, men; 10-16, women **70s:** 10-17, men; 10-15, women **80s:** 8-13, men; 9-13, women

## TEST #2: Push up

push up is a good way build and measure upper body muscular endurance, and it has become a basic fitness test to assess upper body fitness.

To perform a proper push up, place your hands flat on the ground, underneath but slightly wider than your shoulders. Lift to a high plank position with your body in line from head to hip to heels. Bend your elbows and lower your body in a straight line until your elbows are bent at a 90-degree angle and your chin touches the floor. Then push back up.

For the test, set a timer, and see how many good press-ups you can perform in one minute (as you get tired, your form will drop, but only

'good' press ups count). The Mayo Clinic offers the below scores to aim for as 'indicators of good fitness level' based on age and gender. If you are new to push ups, use the target as a goal to work towards.

### Scores to aim for:

**20s:** 28, men; 20, women **30s:** 21, men; 19, women 40s: 16, men: 14, women **50s:** 12, men; 10, women

60s+: 10, men and women

WHAT TO DO: Dr Grav recommends short bursts of activity using resistance bands (an inexpensive length of latex used to do exercises) or body weight (such as squats or press-ups).

Just four or five press-ups a day 'in any position that is comfortable is enough to help to maintain upper body strength', adds Professor Sattar. (Build the strength you need to perform proper press-ups by trying the same action standing against a well; then progress to putting your hands on a kitchen worktop, and ultimately move to the proper press-up position on the floor, with your weight on your knees rather than your toes.)

Dr Gray says that the added bonus is that unlike other areas of fitness, 'you will see improvements

which keeps them healthy, and it stops inactive muscles shortening, or lengthening which can pull the spine and joints out of place. Check your upper and lower body flexibil-ity with both of these tests.

'But generally with age, muscles

'It really is a case of use it or lose

### TEST #1: The 'back scratch'

SHOULDER flexibility is important for everyday tasks such as brushing our hair. Professor Skelton adds: 'We also all need good shoulder function to lift ourselves out of the bath, or to push ourselves up off a bed in later life, and if you trip, you need to be able to reach out and grab something shoulder flexibility is often the key difference between a trip becoming a fall.

As a measurable test, place one hand behind your head and back over the shoulder and reach as far as possible down the middle of your back, your palm touching your body and the fingers directed downwards. Place the other arm behind your back, palm facing outwards and fingers upward, and reach up as far as possible, attempting to touch or overlap the middle fingers of both hands.

Ask someone to guide your hands so they're aligned, one above the other, and to measure the distance between the tips of the middle fingers. A minus (-) score means you could not touch the fingers of both hands, a plus (+) score means you overlapped your hands. Scores to aim for: (from Profes-

sor Skelton's 'Later Life Training

50s: -10cms to 1cm, men; -5 to 7cms, women

60s: -17cms to -2cms, men; -10cms to 5cms, women **70s:** -20cms to -5cms, men; -12cms

to 2cms. women 80s: -25cms to -7cms, men; -17cms to -2cms, women

### TEST #2: Chair sit and stretch test

THIS is designed to measure lower body flexibility in older adults. Sit on the edge of a straight-backed chair about 17in (44cm) high. Keep one foot flat on the floor, then extend the other forward with your knee straight, heel on the floor, toes pulled towards you (ankle at 90 degrees).

Place one hand on top of the other, with the tips of the middle fingers even. Sit up tall, inhale then as you exhale, bend at the hip and reach forward towards your toes. Keep your back straight and your head up (don't curve forward). Hold the stretch for two seconds.

Ask someone to measure the distance between the tip of your fingers and your toes.

With regular stretching exercises, your flexibility should improve.' says Professor Skelton. 'so use this test to measure your improvements and to check you are not becoming increasingly inflexible with age.

### Scores to aim for:

**50s:** 5-10cm past your toes, men; 10-15cm, women. **60s:** touching toes, men; 5cms past

toes, women 70s: 5-10 cms short of your toes,

men; 5cms short of your toes, women 80s: 10cm short, men; 5cms short,

women

WHAT TO DO: The key is practice and Professor Skelton also recommends warming up before stretching to ensure a good supply of blood into the joints and muscles. 'The best time to stretch is at the end of an exercise session,' she says. 'Yoga and Pilates are fabulous, and I recommend swimming — as long as you do front crawl or back stroke which require you to use your shoulders and twist your torso. It doesn't matter how good or bad you are — the key is to aim to improve on your range of movement.'

