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a vehicle from 4 44 e v v v v why as an earlier here for breakfast from 6 but has done to join talks to christmas and the team for 5 live science this is a prerecorded programme so please don't call or text walk into 5 live science from the makers are assisting i'm chris smith in this out would take a look at the week's leading science breakthrough is which include a touch-sensitive soft skin for robots that can also change colour if these scientific study has been running for 70 years and two cats really land on their feet or is it just a myth class there must be some sort of ways to transmit information so einstein generally predicted that if things change they must admit gravitational waves an in-depth look at the

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recent discovery of gravitational weight what the scientists released a fine 5th 5 1st today people who go through harrowing not terrifying experiences often develop the condition called post traumatic stress disorder 4 pts the they complain of intrusive flashbacks to the event which is sufficient to make some people feel suicidal thousands disaffected like this every year the might a dose of laughing gas nitrous oxide given after the traumatic event neutralise the risk of pts d georgia will spread to use yours row read as you has evidence to suggest this might we used to be looking at nitrous oxide because you know the one otherwise it is a certain brain receptor that's critical in memory formation and one of the main things that we think contribute to pts steers the formation of these can be traumatic memories can resurfacing course please intrusive thoughts of

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images and flashbacks which kind of the cosmos and her feet yes see people can have the experience of being back at the time of the trauma kind of context and situation free and really experiencing relevant to the syrian president had it it has this i'm guessing you couldn't actually give people pts diaz unsightly unethical yeah i wouldn't have been a real hit with cf export so we've got a kind of laboratory model for the very kind of week former feet yes if you're and it's used by quite a few laps and basically it involves shown healthy volunteers really unpleasant from more isi is a verdict on the course of a week he get people to keep track they'll experience these kind of involuntary memories about aspects of the film out and we kind of images of some nasty things have happened and i'll just pop into people's minds in an involuntary your way and there's there's what we call intrusive memories and so we should people s film

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and then measure over the following week how many times are experiencing these and we be gay people either nitrous oxide gas which is the same form you get the nhs's a product called entonox says extra oxygen and it's a lot safer than the coming gas canisters of people is recreationally so they got that or a match kind of just normal air from afghanistan they breed tougher half an hour and then reassessed for the following week how many of these intrusive thoughts they had now i've i've not seen this from that idyllic and upon mine and i read a couple of ricky's someone of then they call that cinematic towards a half of this said i've yet to me anyone who has not been deeply affected by this needy if they were brave enough or steve and after just your paul test subjects as a bowler doing any studies the tried to models something it's inherently unpleasant in the year after it within ethical by

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answer is to give people something quite unpleasant to do and i did feel terrible for the participants yo having to watch it did you yeah cos much of the time you're sitting in a room with the participants what comes all quigley knowing what you having to go through yeah i have to say i agree on here is it is one of the worst things i've ever seen and this 3rd participants to go to either this match just outside mexico or the control which was an what difference did you find we if their feelings about the film why we have hypothesised was that given nest receptor the nitrous oxide blocks is really important in kind of shift the transfer of information for short term memory to long-term memory so we thought that it but cannot prevent some of those memory stabilising weaken them and what we saw is that by the 2nd day people in niger upside group greatly reduced in number of an intrusive memories about the film

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the normal i agree and and it was not until about 4 days later but we saw a significant reduction in those a normal lad but it is basically straight after sleeping in the nitrous oxide group coming out that sleepy is also really critical for this kind of stabilisation of memories into a long-term and so much so excited to have interfered with that kind of sleep depend on the stabilisation of memories has not just outside been tested in the field do we know if this works in india sort of real life events that might cause ptsd is really interesting cos it is used on the nhs currently on been paramedic teams as a pre hospital anaesthetic so it might be adding unforeseen consequences already people received mmr before the contrary quite a traumatic experience we don't know come on me whether that's subsequently affecting their memories of things you're interested in doing is looking and see if we can start monitoring the situation where people have received it