as well hence the calmer referendum if you like on the economic policy of the chav the Easter movement and that's why so many people think this could be really important moment in Venezuela's economic future to was euros think you are much hundreds of millions of people around the world live with pain on a Daily basis one of the biggest problems with the current pain relief drugs such as morphine is that they can become addictive and Gaza lose effectiveness of time but now for the very 1st time scientists have made a woman who was born in capable of feeling pain to feel pain and this breakthrough could help develop new types of safer and better pain relief Professor John Wood from University College London led the research and asked him why people felt very pain is tremendously important as a survival mechanism in fact many people that are born without preconditions died very young because they damage themselves they don't turn over in this sleepy may get knocks the endgame green and so on all kinds of bad things happen if you can't avoid damaging similar threw

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red paint so pain is really very very useful the big issue is chronic pain conditions which don't serve any purpose so I guess it's all about the striking a balance because zero you need to have painted protective body protected to choose to know when to pull away from hot kettle for example but you don't want to be in pain constantly for something which is going to damage a body an amazingly about one in 5 of the population have a problem and about 6 or 7 % the population so that's 3 4 million people in the UK have really debilitating pain condition that makes life a misery even working with a woman who feels no pain because of a rare genetic mutation me how did her condition help you make a breakthrough in research this is a work of Jeff Woods and James Cox Cambridge they found a number of families that were pain free and they managed to map the genes that underlay this condition and missing The a single protein the was involved summing the conduct science called energy from wind 7 we've been working on the same are

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putting in animal models and then what did you find there was causing the condition the producing something much more something which they usually would sack for that we set out to her have a look at whether this channel was doing other things apart from conducting electrical signals and we found a seem to be linked to the expression of these hope you would like proteins of the found the body and the players normal role in regulating pains rush it's so this is an unexpected element of our findings which we think you need to be quite significant in terms of drug development so what happens as the body has its own natural painkiller and and these people producing so much more than that there were feeling pain is accurate day yes so although the electrical activity of this protein which sends signals into the central nervous system in response to an enforced and really although this is an important aspect of the year activity it seems that most of the panel jeez here in the patients is caused by high levels of these indulgent

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as a pure peptides so this is really surprising and we know that the use of for £ fighter Thomas a receptors things like more freedom aren't but what's really intriguing is that the axis of these people have over a lifetime open withdraw life which is not decent surprising and is working on for decades so that really is very exciting in terms of treating people with low dose of pure peptides you're right one end and you now have to reverse the process is the correct what we're trying to do is mimic the genetic condition with drug and we're trying to find a scientist how exactly this electrical signalling molecules somehow controls the production of these are pure pop tarts are many many conditions respond pre-world were few bits but there are these problems and addiction and also high doses can stop me breathing and so on if we can cover doses down dramatically by car administering you are now 1.7 for constructed the really quite a large range of paying conditions that might be amenable to treatment that's what we hope although it's not clear

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that it will work for everything I've had cancer pain seems to be quite different in terms of this mechanism from many of the pink types dealing with that is still a conundrum when a little short that the with the breeze Tom will be relevant to which I found very fascinating that's different types of things for different types of pain 1st John would reverse a college in London at don't forget that you can listen to act against any of the stuff that the we do the interviews for example we can find a morbid is also the from false Lash effect to do this is the BBC world service the for the news here's came to connect said to tell you that by the next edition of the conversation to would bring dance performances to life lesson vitamins background living honeycomb new settlements