Deleva, they're playful, intelligent -- and many believe they have healing powers.

Now scientists are close to unravelling the mystery of how dolphins can cure human ills 🗄 🦠 dane Phillmore

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natural world

hea Jemima Nielsen

first went swimming with doublins at the age of 20, she was suicidal. She'd been depressed times childhood, but then her gotimother drowned and Jemima, at 16, became seriously anterest. "My godmother and I had been incredibly close," Jemima explains. "I was so upset that my boyfriend found it really hard to cope with my grief, so we split up."

Jensine's life fell apart. "I was looking for anything to be addicted to," she says, "so I started dicting to excess." Four years later, she weighted less than six stone, and was locked in a bleek, obsculve routine of calorie-counting, tangeing and throwing up.

Her family were desperate, and nothing seemed to help. But then Jemina's mother saw dolphin researcher Horsee Dobbs on television, talking about the miraculous effect swimming with dolphins can have on depression. She contacted Horses, and a few months later Jemima was proliciting with Fungie, a wild dolphin who lives off ireland's Dingle Bay. The experience has transformed her life.

"As soon as I was in the water, he approached use," says Jemina, "I felt him madeing my legs. He came up just below me, a foot from my face, then turned on one side, and looked straight at me with one eye, I felt an immense calm. I was at peace. Everything was in that look – there was no scanching, no need to question, just me and him in a world of our own, one to one. I tried to touch him, but he dedged away playfully. He circled me, teased me, Everything was led by him – he was so gentle, as if he was weighing up what I needed. That first time in the water with him felt like forever, but also no time at all – I suppose it was about five minutes.

"A real same of love came from him. I felt incredibly privileged," Jemima continues. "I started crooming to him as I would to a baby - completely soppy and overwhelmed, and laughing and crying. All the emotions I had bottled up just poured out. He was this

wonderful free spirit; I couldn't manipulate him, I just had to be in the moment.

"The final day was the most magical, Fungle raced up to me at full speed, and at the last minute, when my heart was pounding, he vecred off. Then he jumped up within inches of one side of my hearf and leaped down the other side. It was awe-inspiring – but also great fun. When I had to leave, Fungle did a huge goodbye leap across the bows of the boat. I was speechless. At that point I wanted to stay with him forever."

Jemima's recovery began from that moment. Although her anorcais wasn't cured instantly, she came off antidepressants, felt less isolated and more sociable, passed her university finals, and started studying for a PhD. "For the very first time I began to feel a sense of future," she says.

Now 33, Jemima is happily married with two young daughters. The come such a long way," she says. The problem with depression is total inertia and a lack of confidence. The dolphin experience empowered me, and made me feel more acceptable. It was a turning point in my life."

Jemina's response is not unique. Thousands of people tell astonishing stories about the that apendic effect of swimming with dolphins. These beautiful beasts seem to nourish the soul and renew people's appreciation of life.

How they do this seems to be - as yet beyond rational scientific explanation. What we know is that they emit multi-frequency sound waves that resonate in the body, producing a bassful, exphoric semation that can release overpowering emotions.

"After swimming with Fungic, I felt an uplifting, exhibitating, profoundly peaceful sense of wellbeing," says Dr Kim Jobst, a senior registrar at Gisagow's Homeopathic Hospital, "It was akin to a state of grace. I've been trying to make sense of it ever since."

So have miemists worldwide. Splashing around with a wild but gentle 600% mammal is bound be a thrill, and is thought to stimulate the release of endorphins – the body's natural feelgood chemicals. So delphins, Dobbis suggests, are instant "stressbusters". But scientists say the chemical effects of endorphins usually wear off after a few hours, while the changes people report after delphin encounters – not just a sense of wellbeing, but also improved learning and cognitive abilities, concentration, exammunication and social skills – seem to last for weeks, even months.

Dolphins can also have a powerfully beneficial effect on seriously ill children. Since the 1970s, dolphin therapists such as Dr David Nathanson and Dr Betsy Smith in Florida have reported

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dramatic breakthroughs with autistic, brain-damaged and paralysed children. Dolphins somehow help the body's natural healing instincts to kick in. Even more remarkably, they seem to know who's sick, and want to hele.

Dr Jobet says he was amazed to see Fungie make a beeline for a woman with cancer. "He made his own decision to go to the one seriously ill person in our group," he says. "I think humans relate at a very deep level with other life forms, and our nervous system is built to do that."

Research at Mexico City's Aragon Aquarium seems to bear this out. There, dolphinis are trained to aim their sonar on to specific areas of brain-damaged children's heads. Except sometimes, says medical director Vilchis Quiroz, they refuse and start working on a different place instead. Further investigation has proved the initial human diagnosis to be wrong the dolphins had correctly targeted the damaged part of the brain. Which suggests their instinctive diagnosis is more sophisticated than a brain scan.

But do dolphins resily have intuitive healing powers, or is there a more scientific explanation? Dr Russell Bourne of Florida's
Upicedger Institute, an alternative
health centre, believes there is.
Dolphins have evolved a highly
sophinicated, multi-frequency sonar
system that allows them to "see"
with sound, he explains. These scans
reveal human problems such as
internal blockages and tumours.
"Dolphins create a sonographic
image in their own heads, and then
do something with what they see.
It might sound far-fetched, but
I believe it's true," says Dr Bourne.

Dolphins produce an ultrasonic frequency four times higher than that used therapeutically in clinics he continues. "It's clear that dolphin somet can alter human tissue."

In 1996, the Upledger Institute carried out a scientific study of dolphin-assisted therapy on 21 seriously ill patients. The results were significant: 19 patients improved, some dramatically. One child with muscular dystrophy developed such strength in his legs that he was able to pedal a boat around. Others reported reductions in pain, greater strength and flexibility, improved appearite and more restful sleep.

The isuman body it 80 per cent water, and sound travels 60 times more efficiently through water than on land. Because of this, Dr Bourne believes, sonar may affect as in profound ways that we aren't even aware of "Dolphins may send

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messages that the conscious mind doesn't respond to, but the body does, "says Dr Boutue, "When we take medicine it goes to every cell, even though we're not aware of it. Dolphins may affect our cells in the same way, perhaps by releasing chemicals or neurotransmitters,"

Dr David Cole of the Aqua? Thought
Foundation, which researches
human-dolphin interaction, takes
this theory a step further. He took
ECG readings of patients' brains
before and after dolphin swims. He
discovered that the analytical left
side and the creative right side of
the human brain synchronise after
a swim, and the brain shifts from
high-frequency beta (a state of
mind associated with action and
alertness), through aipha (a caim.

passive state) into low-frequency theta (a state linked to creativity and vivid memories). Children below the age of six spend a lot of time in the theta state. Adults reach it just before drifting off to sleep or when meditating. If your brain can't produce enough theta waves, you tend to suffer from stress.

In 1989, US psychotherapist
Dr Eugene Peniston trained people
to access the alpha and there states.
After a year, the thete group showed
profound personality changes. Not
only were they less depressed and
amicus, but they felt more sociable,
conscientious, stable and
imaginative. Some were even able
to overcome addiction. "Alphatheta brainwave training promises
an effective new treatment for

sicohol abuse, depression and eating disorders, believes Dr Peniston.

Dr Cole believes these changes are caused by "cavitation", in which ultraunic waves create areas of compression and expansion that form small buildies in the boundaries between cells. These bubbles carry hormones and other permeants that may. Dr Cole spendates, even disrupt some cancer-causing agents.

As yet this is only a theory, but it may go a long way to explaining why dolphin healing works. If a high-frequency somer blast can stimulate change in the human body at cellular level – well, who needs doctors?

But why would deliphint take the trouble to heal humans? Horace Dobbs believes that deliphins have access to the qi force, the vital energy that is the hasis of Chinese medicine. Dr. Beume takes a more prossic view. "Some people think deliphins are super-intelligent beings with mystical powers," he says. "But I think they're just deing what they naturally do." And that may be the most remarkable thing of all.

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WHO DO DOLPHINS RESPOND TO?

Not everyone, according to Horace Dobbe. He tels the story of a very weathy. American women who came over to swim with a dolprin in Wales. The dolprin was playing with Horace and his assistant when the women should at them form the book to get out of the way. When she jumped into the water, the dolprin immediately observed off. This an attribute of mind they pick up on, "Horace says. "The women had money and success, and she thought site could buy the experience. But the dolprin wasn't playing," Humilty and pedence are the keywords of success with with dolpring."

As well as inoming in on those who are it, depressed or pregnant, deprice seem to have a particular alliaby for children—perhaps because they neturally inhabit the creative "thetia" brainware state. Dophing are curious and playful and like interacting with people who do things. Don't focus your attention on them, achiese Horses Dobbe, but engage their curiosity in other ways, perhaps by lengthing underwater, or playing catching garnes with leaves. You stanked never by to touch wild dolphins. But if you are lucky, they may give you a "diolphin kies" where they come up so close to your skin that the gande movement of water between you is like a soft touch of the lips.

PLIPPER THE HERO

Dolphins have a long history of reconstructo. Mark Strengton. director of the Windle and Dolotto Conservation Society, says there are two main types of rescue: Supporting swimmers to lesso there from drowning, and protecting people from affectibly grades Sinn Gorzalez, the stryear old boy currently at the centre of a Tugof love" struggle between his father in Outpa and relatives in Migral. was the sole survivor when the rait his was on with his mother and Stockshipt seek. He says deleters leapt him company during the three days he spent floating on a tyro in shark-infected waters. The 1996, Martin Flichestern, tom Essex, was stacked by a stack of the Egyptian coast. He was bitten, four times and later resided 200 · station. These dolphins seems to THE FEMICIAL SITES CHICAGO STOUTHER THINK interping phasics at pay ung an emergency dinghy was able to Elizabeth Mistry

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