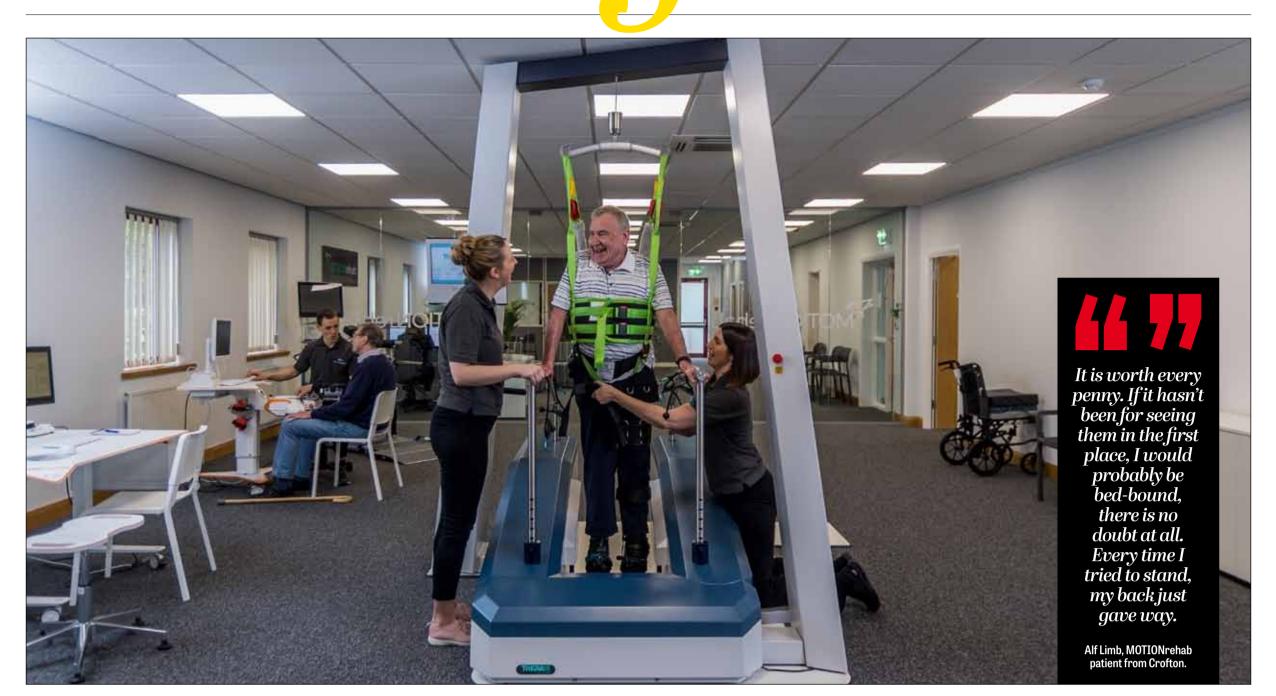
# Features Comment



# **ROBOTICS CHANGING LIVES**

MOST PEOPLE would think nothing of walking 135 steps, but for the usually wheelchair-bound Alf Limb, completing such a distance is his equivalent of successfully running a marathon. The 77-year-old former butcher is one of the patients of a new neuro-rehabilitation centre in Yorkshire which is using state-ofthe-art robotics and virtual reality technology to offer fresh hope to people whose lives have been dramatically restricted by the often-sudden onset of



### In an unremarkablelooking office building on the outskirts of

all. It was very stressful for my wife and daughter," he says.

Alf says he believes the new facility will make a considerable difference to the lives of him and his family. "With post-polio syndrome I know I'm not going to get a lot better. But this therapy can hopefully keep it at a level and stop it getting worse too quickly.' For centre owner Sarah Daniel, Alf's experience is a perfect example

of what she hopes the new facility can achieve. She has invested £500,000 in involve patients completing simple games like moving a dog on a screen to collect a bone and building a train track that help with physical and mental recovery, offer the chance of a faster recovery.

"Rehabilitation is based around the 'practice makes perfect' adage: the more you do, the better you get," she says. "We've seen rehabilitation results improve significantly when exercises are repeated more frequently over longer periods of time: ideally several

## **Company hopes** to work with NHS

THE CENTRE is 'exploring options' to work with the local NHS, Sarah Daniel says.

She says the company has already collaborated with Leeds University and has had discussions with local NHS leaders about potential ways their services could be used by the

Sarah says patients will soon be

able to make use of virtual reality

goggles which show them avatars

of their body parts to help aid their

becoming available later this year.

technology helps make treatment

for patients, with "motivating and

more interesting and engaging

challenging" therapy offering a

greater chance of it succeeding.

"It is really exciting," she says.

recovery, with that technology

She says the use of such

health service in future.

or be able to return home. But I have now done both. Being a sportsman and a confident character I couldn't accept the prognosis. I wanted as much physiotherapy as I could get. I have put my heart and soul into that and tried to get myself back on my feet and I have come on leaps and bounds."

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Physios from MOTIONrehab have assisted with his recovery and Gary. who can now walk with the aid of a walking stick, hopes the new centre will eventually assist him to regain the

disabilitv.

Before the pioneering new facility - the only one of its kind in the UK and run by a company called MOTIONrehab - opened this week at a business park in Morley, Alf was only able to manage a few steps across his living room on a zimmer frame, with the support of a physiotherapist and his wife Judith following immediately behind with his wheelchair should he fall over.

But in his two attempts on a 'robotic gait trainer' called Lyra at the facility this week, Alf has managed to do the equivalent of well over 100m each time – far outstripping what he has previously been able to achieve. The machine works by holding feet in place on mobile foot plates to replicate natural walking patterns. The result is that users are able to make up to 40 times as many steps compared to treadmill training or manual walking practice.

"It is amazing really," he tells *The* Yorkshire Post at the official opening of the centre on Thursday morning. "I wouldn't be doing much more than 12 steps per week and now I have just done 135 steps on the machine this morning."

Alf, from Crofton near Wakefield, contracted polio as a seven-year-old. "I made quite a good recovery," he says. "I

# Leeds, new technology is transforming the lives of stroke victims and brain injury sufferers. Chris Burn reports.

walked out of hospital and a lot of the others who were in there with me came out in wheelchairs so I considered myself quite lucky."

He managed a full working life, first as a butcher and then in a plastics factory, before eventually retiring. However, in 2010 problems began when a knee replacement went badly wrong and resulted in him relying on an uncomfortable caliper. After five years, he upgraded it for what should have been a superior carbon fibre version. But the way in which it altered the way he walked - combined with post-polio syndrome gradually weakening his muscles - resulted in his back collapsing 12 months ago and Alf being confined to a wheelchair. "It was terrible. I had always tried to keep myself quite active so it was devastating. I couldn't do anything at

the centre after researching similar clinics in Europe last year. However, the Yorkshire facility is currently the only one in the UK to provide such high intensity rehabilitation programmes. It builds on the existing work of the specialist physiotherapy company, which has bases in Harrogate, York and Hull and has merged its Leeds and Bradford operations at the new site in Morley.

But because their work is not covered by the NHS, treatment does not come cheap. The intensive programmes, which involve 80 hours of rehab over a period of four to seven weeks, cost in the region of £5,500. However, for Alf it is a worthwhile investment. "It is worth every penny. If it hadn't been for seeing them in the first place by now I would probably be bedbound, there is no doubt at all. Every time I tried to stand, my back just collapsed, it just gave way. I would say to anyone in a similar position to myself definitely go for it."

Sarah says her typical patients have suffered from injuries that affect their brain function and mean it needs to be 'rewired' to relearn what were previously basic tasks like turning a key in a lock or putting a card in a cash machine. She says the new machines, which are designed to treat all aspects of arm and leg rehabilitation and

hours a day. People want to get well and they want to get their lives back and high intensity rehabilitation has a crucial role to play.'

Another patient making use of the centre is ex-golfer Gary Day, who lives in Guiseley. Gary had a stroke three years ago at the age of 42 after damaging his arteries in a cycling accident. His condition was so serious he spent more than a year in hospital and was given a bleak prognosis by doctors caring for him. "I was bedridden and was told there was a strong likelihood I wouldn't walk again

TRANSFORMING LIVES: Alf Limb, pictured using the gait trainer, and Gary Day, above, are among those hoping to benefit from the centre. PICTURES: JAMES HARDIST

use of his left arm, which has been one of the main effects of his stroke.

Another patient recovering from a stroke hoping the centre will further assist his rehabilitation is 69-year-old Malcolm Moon from Bradford. In 2015, he had a stroke so serious that doctors believed he had no chance of recovery and his family made the agonising decision to switch off his life-support machine. As the family gathered by his bedside to say their final goodbyes, he squeezed his nephew's hand - leading him to be affectionately known as 'the miracle man' in hospital. He gradually recovered but even then his family were warned that as the former carpet retailer was unable to swallow at that stage he may be left unable to eat, drink or speak - but he can now do all three. Malcolm says the new facility is "amazing" and hopes it can allow him to make further progress in his ongoing recovery

Sarah says: "Getting someone to go to the toilet themselves doesn't make headlines but it make a massive difference to a person. Helping somebody become able to walk their child to school again or go back to a hobby they loved, for us that is a good day in the office."

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An epic run, a dream gig, and a record-breaking nude

1. How many times has wheelchair racer David Weir won the London **Marathon?** 

a) Six b) Seven c) Eight d) Nine

#### 2. Sir Mo Farah set a new British record in the London Marathon. To the nearest minute, what is it?

a) Two hours four minutes b) Two hours six minutes c) Two hours eight minutes d) Two hours nine minutes

#### 3. When do Yorkshire next play a County Championship cricket match at Headingley?

a) May 29 b) June 29 c) July 29

	<b>/</b>
	Quiz of the week Test your knowledge
	the week
	Test your knowledge
I	d) August 29
	4. Which pop singer is returning to EastEnders?
	a) Hannah Spearitt b) Jo O'Meara
	c) Martin Kemp
	d) Rachel Stevens
	E. Whone is Wen Hones, a new

5. Where is War Horse, a new **First World War memorial** sculpture, to have its home?

a) Dentdale Meadow b) Mill Pond Meadow c) Roundhay Park d) Yorkshire Sculpture Park

#### 6. The average UK adult has more than how many living relatives according to a study by family history firm, Ancestry? a) 4,000 b) 9,000 c) 16,000 d) 23,000

7. A nude painting by which famous artist has a £107 price tag - the highest estimate ever placed on a work at auction - when it goes under the hammer next month? a) Gustav Klimt b) Amedeo Modigliani c) Pablo Picasso

#### d) Diego Velázquez

8. Which rock star said it was a "dream come true" to open for the **Rolling Stones when they bring** their new tour to the UK next month?

a) Liam Gallagher b) Noel Gallagher c) Ed Sheeran d) Sir Paul McCartney.

#### 9. Amber Rudd is MP for which constituency?

a) Bexhill and Battle b) Hastings and Rye c) Horsham d) Mid-Sussex

10. The number of parking tickets handed to drivers has risen by

almost what amount in just 12 months, according to the RAC Foundation? a) One million b) Two million c) Three million d) Six million

**11. The Yorkshire Post's outgoing Features Editor Sarah Freeman** wrote a biography of who? a) Gary Barlow b) Charlotte Brontë c) Sir Michael Palin d) The Bay City Rollers.

7) B - Amedeo Modigliani. 8) A - Liam Gallagher. 9) B - Hastings and Rye. 10) A - One million. 11) B -Charlotte Bronte. Spearitt. 5) B - Mill Pond Meadow. 6) C - 16,000. Auswers: 1) C - Eight. 2) B - Two hours Answers: 0) D - August 29. 4) A - Hannah



**MARATHON MAN:** Mo Farah came third in last weekend's 2018 Virgin Money London Marathon. PICTURE: PA