Eastern Daily Press, Friday, June 2, 2006

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Helping the children to walk tall.

Smith running around his hard to believe this is a child year until he is a teenager.

- and the diagnosis was that it leaving him crippled by the time he reached his late teens.

But a revolutionary operation using hi-tech instrumentation will mean that Thomas will grow into a strong, tall and straightbacked young man, able to enjoy life to the full.

At the beginning of April, he underwent six hours of surgery at the Norfolk and Norwich University Hospital to straighten his spine with screws and "growing rods" beside it. Consultant orthopaedic and spinal surgeon Am Rai says the reason Thomas will need two operations a year until his teens is that every six months the rods will be extended. "Effectively, the

instrumentation will grow as Thomas grows," said Mr Rai.

More than a dozen children are seen at the N&N's spinal clinic each week with the condition and three major operations on the scale of the surgery Thomas had are carried out each month to straighten curved spines.

His parents Iain and Lorna from Hemsby noticed that Thomas was not standing up straight just before Christmas 2004. But it was only later, when his mother took him to the doctors with a cough, that suspicions were aroused.

asked me to take his top off and he saw straight away that his shoulders were not correct."

made arrangements that eventually led to a referral to the always knew that we would have hopefully he will have a normal N&N to see Mr Rai.

said it was his spine," said Mrs forward to the time when he Smith. "We thought that perhaps comes through it, but I think we **COMMENT - Page 26**

To see three-year-old Thomas Scoliosis – curvature of the spine – is a garden kicking a football, it is Condition that can leave children crippled who will need two operations a for life, but revolutionary surgery at year until he is a teenager. Thomas was born with Norfolk's flagship hospital is offering hope scoliosis - curvature of the spine to families across East Anglia that their would get progressively worse, children grow up straight and tall. Health Correspondent **MARK NICHOLLS** reports.

> he would have a brace on for a are now through the worst of it. anything about scoliosis. But for what he did." then we were told that Thomas were devastated.

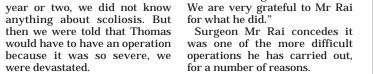
"We were told that if he did not eight he would be leaning right for me to detach from the over and it could affect his lungs.

decade.

"We feel as though we have got over the biggest hurdle and we incision was made along his were glad to have it done and are back to expose the vertebrae and now just looking forward to the screws inserted as anchor points time when it is all over."

similar position offered them straighten the spine. speak about the operation that not affected. will help Thomas lead a normal life

anything went wrong, but if we straightening the spine. hadn't had it done he would "It was awful for us when he months at a time, but looking individual."



"He is about the same age as have it done, by the time he was my son and it was very difficult patient. His parents were extremely anxious, which is His parents are pleased the what is to be expected and as he major operation is over, though was about to go down to surgery realise that he will need two his mother said to me he is my hour-long ops a year for a only son, his life is in your hands, please take care of him."

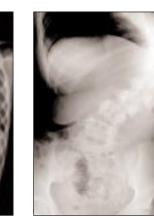
During Thomas' operation an above and below the curve to Speaking to a family in a which rods were attached to

support at a difficult time in the During the operation nerves on process, and that is a factor in his legs and arms were Mr and Mrs Smith, who have a monitored to ensure the daughter Natalie, 6, deciding to neurology of the spinal cord was

"One of the dangers is that this can cause paralysis which would Like many parents faced with be a disaster in anyone, but such a major operation, the especially a child. There is an Smith family had doubts over inherent risk of this between 1whether they could or should put 500 and 1-1000," said Mr Rai. "We Mrs Smith said: "The doctor their son through such a trauma. monitor to see if we cause nerve "I kept thinking what if damage, particularly when

"As Thomas grows the The GP, it emerged, had seen perhaps blame us for not having instrumentation will grow with cases of scoliosis before and the operation," said Mrs Smith. him. At the end of his treatment, But Mr Smith added: "We which may be another 10 years, it done. We are just taking it six trunk length and be a normal





THE SPECIALIST TEAM BEHIND THE LIFE-CHANGING OPERATIONS

Scoliosis is a condition that is tackled by a specialist team at the Norfolk and Norwich University Hospital.

It involves spinal surgeons,

physiotherapists, anaesthetists and patient liaison staff who can talk to families about the operation and what it entails or put them braces, ward nurses and a skilled team of directly in touch with other families who have theatre nurses as well as a muscular-skeletal been through a similar experience and help them understand the decision-making process

The team also includes surgeon Robert Crawford; two dedicated consultant

Kerr; patient liaison officer Ann Chandler, who is also the Scoliosis Association regional representative; paediatric physiotherapist

Veronica Van-Ree; Gordon Lindsay who is responsible for measuring patients and fitting damage is not caused to the spine during radiologist.

Am Rai explained that before major surgery all the cases are fully discussed by the specialist team at the N&N, which is the only be treated by a body brace which helps to

anaesthetists in Dr Paul Barker and Dr Lorna unit in East Anglia offering a comprehensive spinal service

Pictures: JAMES BASS/ANGELA SHARPE/SUPPLIED

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The surgery can often be risky and lengthy with a key element being the careful monitoring of the nerves to ensure that the operations.

The unit sees 10-14 cases of scoliosis a week from the region, most referred via GPs, Consultant orthopaedic and spinal surgeon and performs up to three major operations such as those on Thomas every month. While some cases need surgery, many can

an opportunity to lead a normal life. - and children - in a similar situation to talk

to one another. Mr Rai said: "Sometimes making the

straighten the spine naturally. But if scoliosis is untreated the curvature gets worse and eventually leads to increased pain, causes lungs problems and difficulty in breathing. Mr Rai said: "The operations are pretty high risk, but the results can be very good. It is

satisfying to give a good cosmetic appearance for the child and also give them The patient liaison officer enables families

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I'm so happy to be standing straight at last

Teenager Francesca Hilliard, pictured right, lived with scoliosis for much of her life without realising it.

Her mum Marianne often asked her to "stand up straight" but the family never suspected anything untoward until December 2002 when Francesca was 12.

Now 15, she said: "I was lying on the floor and I felt quite uncomfortable. I asked mum to have a look at my back. It looked like it was out of place.

Francesca went to see her GP who referred her to consultant orthopaedic and spinal surgeon Am Rai who decided to operate.

"Until that point I had a fairly normal childhood," she says. "I had never broken any bones before and had been really healthy "But I didn't find it difficult

to decide to have the operation. I just wanted to have it put right."

Francesca was 13 when she had the five-hour op, which saw long metal rods straighten the middle part of her spine. The results are significant. She now stands upright and has more confidence.

"Now I get out a lot more, I do more active things and I have a lot more confidence about myself.

"I am now just determined to go out and enjoy myself," said Francesca, who is studying for GCSEs at Wymondham High School and plans to go on to Norwich City College to do her A-levels and later to university after that.

"Whenever I meet Mr Rai I am so thankful that he has been able to help me and make me so much happier with myself." After the operation,

Francesca who lives with her family at Maple Close. Wymondham, was on her feet within a week. Her mum said: "When she

got out of bed the biggest thing the years it seemed as though remain in place for life.



she was losing height.

Like many parents of children with Scoliosis, Mrs Hilliard feels she should have spotted Francesca's condition earlier

"She kept saying she was uncomfortable and at one time I felt really awful when I told her to stand up straight and she said 'I am standing up straight' and I said to her 'no you are not.'"

Mr Rai said: "While Francesca did not have an obvious curvature of the spine, it was quite noticeable to the trained eye. "Her curvature was of 65-70

degrees and that is quite significant. "Our concern with this was

that it would progress as she got older and she would not be able to lead an active lifestyle with the curve moving at 0.5-1 degree a year.

"It was quite a major operation and one of the biggest risks is that damage can be done to the nerves and cause paralysis."

Unlike Thomas. Francesca noticed was that she was so will only need one operation. much taller, about three Her spine has been fused in inches, and she looked so position with titanium screws upright, it was a big moment and rods and because she has for us as parents because over finished growing they will

BEFORE AND AFTER: Main image, an X-ray of of Thomas Smith's spinal deformity. Below, from left, Thomas Smith with his mum Lorna, his X-ray after the operation, Francesca Hilliard's pre-operation X-ray and how her spine looked after surgery.

decision to have the operation is the most difficult one and it can be a great help if that experience can be shared.

"Patients who come in with significant curvatures are often introverted, particularly adolescents, and it can have a profound influence on their outlook in terms of confidence.

"But it is a privilege to be able to offer this type of service to patients. We see them at clinic and then see them go out mostly with **Scoliosis Association**:

a happy outcome." The unit deals with all aspects of spinal surgery from scoliosis, fractures, tumours, and degenerative conditions such as disc pro-lapses.

There are hopes that the team can see the expansion of the special spinal injuries clinic and eventually work toward having a spinal injuries rehabilitation centre.

Links

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