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So proud of their hero dads: The



'I'd have him and his family shot': Trolls



I'll get you fired! What Clarkson



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BREAKING NEWS: Radio DJ Dr Fox



Russell & Bromley shop assistant stole



Terrify footag

Green light for cutting-edge cancer treatment: Government approval for £250m proton beam therapy centres marks first time life-saving treatment will be available on the NHS

- Health Secretary Jeremy Hunt gave go-ahead to £250 million plans
- Two new centres will be built at hospitals in London and Manchester
- Conventional radiotherapy destroys cancer cells but harms healthy tissue
- Benefits of proton beam therapy lie in fact it eradicates the disease while limiting the amount of collateral damage to surrounding tissues
- Made headlines when Ashya King's parents fled to Spain with him last autumn desperate to fund the treatment at a hospital in Prague
- Hampshire Police issued an arrest warrant and the couple were detained
- NHS finally agreed to fund Ashya's treatment which finished in October

By LIZZIE PARRY FOR MAILONLINE

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Children battling cancer will benefit from cutting-edge proton beam therapy on the NHS for the first time, it was announced today.

Health Secretary Jeremy Hunt today gave the go-ahead to £250 million plans to build two centres in London and Manchester.

The new facilities will give hundreds of cancer patients, particularly children, access to the highly-targeted form of radiotherapy.

The key benefit of proton beam therapy is that it can treat hard to reach cancers without causing damage to the surrounding, healthy, tissues.

Conventional radiotherapy, which is used to treat around 150,000 patients each year, uses high energy beams of radiation to destroy cancerous cells.

But one side effect is that it can cause collateral damage to the surrounding, healthy, tissues.

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Katie Price reveals the challenges of caring for disabled son Harvey, 12, and admits 'he does play up for mummy sometimes' Mother-of-five



Kate's smile for our brave British heroes: Duchess of Cambridge appears moved as she hears tributes to fallen



Health Secretary Jeremy Hunt today gave the go-ahead to £250 million plans to build two proton beam therapy centres in the UK, one in London and another in Manchester



Proton beam therapy made headlines last autumn when Brett and Nagheme King, fled Southampton General Hospital with their son Ashya King in September. Deciding they didn't want the five-year-old to have conventional radiotherapy, they fled to Spain to sell a house to fund the proton beam therapy in Prague

That damage, especially in children and young patients, can leave them at higher risk of side effects, which in some cases include developing secondary cancers later in life.

The benefit of proton beam therapy lies in its ability to eradicate the cancer cells while leaving the healthy surrounding tissues unaffected.

Whereas traditional radiation blasts the area where the tumour is growing, proton beams stop once they hit the cancerous cells, reducing the damage.

It is estimated 10 per cent of radiotherapy patients, around 15,000 people a year, would benefit from proton beam therapy.

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The two centres are set to open in 2018 at University College London Hospital and the Christie NHS Foundation Trust in Manchester.

Patients in the UK who currently need the treatment are sent abroad to specialist centres in the US. Some have their treatment funded as part of NHS England's overseas programme, while others raise the money to fund their own therapy.

The cutting-edge treatment made headlines last autumn when five-year-old Ashya King was taken from Southampton General Hospital by his parents Brett and Naghemeh.

The couple were concerned about the side effects of the conventional treatment their son was to receive in the UK, and decided they wanted him to have proton beam therapy in Prague.

They fled to Spain where they planned to sell a house to fund the treatment. But Hampshire Police issued a European Arrest Warrant after discovering the family had left hospital.

The couple were then held by police in Malaga, Spain, before international outcry prompted their release.

NHS England's Medical Director, Professor Sir Bruce Keogh said: 'Today's announcement will help us to move ahead with fully equipping the new facilities in Manchester and London.'

'This is a key milestone in being able to offer this important treatment in the UK.'

It is thought the two centres in London and Manchester will have the capacity to treat up to 1,500 patients a year.

Senior clinical oncologist Dr Nick Plowman, who works at St Bartholomew's and Great Ormond Street hospitals, told MailOnline the announcement will change the face of cancer treatment in the UK.

He said it has the potential to help thousands of patients, particularly those diagnosed with childhood cancers, head and neck cancers and prostate cancer.

In addition he said many other forms of the disease could be treated using the technology.

'This is a very desirable decision,' he told MailOnline.

'As the Ashya King case in the autumn brought to the public attention, protons are much better than usual radiotherapy, by reducing the collateral damage to the adjacent tissues.'

'Nowhere is that more important than in the growing child.'

'Eighty years after traditional radiotherapy the treatment can manifest itself as secondary cancers.'

'For older people it is less important but still necessary, as older patients could still see their treatment manifest as cancer later in their lives.'

'This treatment promises a lot of advantages.'

WHAT IS PROTON BEAM THERAPY?

Proton beam therapy is an advanced form of radiotherapy that targets tumours with great precision.

The radiation that uses beams of protons - small parts of an atom - rather than high energy X-rays, used in conventional radiotherapy.

Unlike an X-ray, the proton stops after striking the target rather than continuing to travel through the body.

It enables therapists to direct the beam at a tumour more precisely.

The beam can be more finely controlled, in both its width and its depth, so higher doses of radiation can be more safely delivered to tumours, with less risk to healthy tissues.

The treatment has been shown to be beneficial in the treatment of many different tumours, including those found in the head and neck, eye, central nervous system, lung, prostate and gastrointestinal tract.

The precision of the pencil beam scanning makes it especially beneficial in treating tumours adjacent to critical and sensitive organs, such as the eye, brain and spinal cord.

Source: Mayo Clinic

Federer was left re-faced after boy plucked from crowd LOBBED the ball for winning shot during exhibition match Beaten by flawless shot



'I'd have him and his family shot': Top Gear producer trolled for role in Clarkson's suspension by angry fans who also circulate his email

Dancing his socks off! Dermot O'Leary gets all-star support as he continues 24 hour dance marathon for Comic Relief In aid of Red Nose Day



Former WAG Danielle Lloyd steps out in diamante-embellished nude tracksuit as she embraces single life Divorced footballer Jamie O'Hara



Getting better with age! David Beckham is his dapper best as he smoulders in sexy shoot to celebrate 10 years of his fragrance



Pregnant Keira Knightley opts for comfort as she displays her growing bump in a loose-fitting black dress for day out with husband James Righton



Victoria Beckham risks ruining her flawless make-up as she sheds a TEAR at Alexander McQueen fashion gala At V&A in London.



Tickled pink! Rihanna displays her unique style in sickly sweet tonal outfit and oversized furry scarf as she arrives for TV appearance in New York



'I've been all kinds of sizes!': Jessica Simpson jokes about her weight during Today Show appearance as she confesses she 'couldn't be more in love'



Touching moment Robert Downey Jr. gives bionic Iron Man arm to young boy, 7, born with a missing limb Lovely gesture from



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Conventional radiotherapy, pictured, is used to treat around 150,000 patients each year and uses high energy beams of radiation to destroy cancerous cells. But one of side effects is the treatment can cause collateral damage to the surrounding, healthy, tissues

'THIS LIFE-SAVING TREATMENT CAN'T COME SOON ENOUGH', SAYS MOTHER OF GIRL, 7, FORCED TO TRAVEL TO THE US FOR CUTTING-EDGE CARE

The mother of a young cancer patient forced to take her daughter to the US for proton beam therapy today welcomed the Government's announcement.

Michelle Lea, who with her husband Sam put their family house on the market to try and raise funds for treatment, urged the Department of Health to act 'as quickly as possible'.

Their daughter Frankie-Rose was diagnosed with a rare brain tumour in August.

After chemotherapy failed to reduce the size of the tumour, specialists told Mr and Mrs Lea, from Kent, their daughter's best hope was proton beam therapy.

They put their Erith home up for sale to try and raise £140,000 to travel to the US for Frankie-Rose's treatment.

But strangers stepped in donating a staggering £185,000.



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Frankie-Rose Lea, seven, was diagnosed with a rare brain tumour last August. Her family travelled to Oklahoma so she could undergo proton beam therapy, right

The family travelled to Oklahoma in the US where Frankie-Rose underwent treatment. When she

Avenger Tony Stark



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BREAKING NEWS:
Radio DJ Dr Fox arrested for a third time after new woman comes forward with sex assault claims
Former Pop Idol judge



I'll get you fired! What Clarkson ranted at Top Gear producer during 30-minute f-word tirade as it emerges that he turned HIMSELF in over hotel fracas



Ferne McCann flashes her toned legs in semi-sheer skirt as she hit the town with fellow singletons Jessica Wright and Lauren Pope



Newly-single Pamela Anderson takes son Brandon along as her plus one to movie premiere in Los Angeles
Filed for divorce from Rick Salomon



Kourtney Kardashian shows off her post-baby curves in skin-tight jeans as she enjoys lunch date with Scott Disick
Couple have three kids



Big Brother is definitely watching! Bikini-clad Aisleyne Horgan-Wallace puts on a busty display as she enjoys a spa break



Cressida Bonas shows off her impeccable dance moves as she stars in new short film for Mulberry
Cressida Bonas has Prince Harry's ex



'Roses are red and so is my bath': Supermodel Cara Delevingne enjoys

arrived at the centre she was unable to walk, but since having the therapy the seven-year-old can now walk unaided.

Her mother told MailOnline: 'My fear is that we are still a long way off a treatment centre with open doors and though I am delighted for all the families this could help in the future, for us it's too little too late.

'I still find it hard to believe this life-saving treatment is not yet available in the UK, when it is so readily available in other parts of Europe and America.

'Life saving treatment for children should in my opinion be a priority for the NHS and I can't help thinking that had less been spent on cosmetic procedures or weight loss surgeries it might already be available.

'I only hope that this becomes a reality sooner rather than later because every month that passes will see more families facing the nightmare we have been through.'

She said that uprooting the entire family to relocate to Oklahoma for the duration of daughter Frankie-Rose's treatment had been their only option.

That meant taking her two sons then aged five and 11 out of school for ten weeks.

Mrs Lea said: 'Both her father and I wanted to be there for our daughter through the treatment and there's no way we could have considered leaving our sons behind.

'It was a massive disruption to their lives that would not have occurred had treatment been available in the UK - not to mention the difference it would have made to Frankie-Rose.



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After chemotherapy failed to reduce the size of the tumour, specialists told Mr and Mrs Lea, from Kent, their daughter's best hope was proton beam therapy

a luxury soak in petal-filled tub

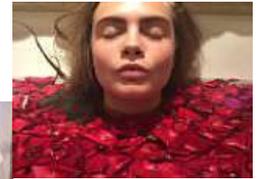
Relaxing after fashion week



Kimberley Walsh elongates her slender post-baby frame in a pair of retro wide-legged trousers for This Morning slot

Girls Aloud singer

Taking a leaf out of her book! Amy Childs cuts a stylish figure in peach mindress as she attends Michelle Mone's launch party



Kelly Brook celebrates her slimmer figure as she draws attention to her slender pins in flirty sky blue dress at charity event
Newly toned physique



Pregnant Fearne Cotton dons towering platform heeled boots and stylish rolled-up jeans as she heads to work

Expecting second child



Ola Jordan layers up in chic camel wrap coat and leather boots as she joins husband James at Cheltenham Festival

Suffered devastating ski injury last year



£1,795 boots, £1,070 leggings and a £580 hoodie: Inside Kim Kardashian's eye-wateringly expensive Paris Fashion Week wardrobe



Hot mamas! Holly Willoughby shows off her post-baby body in little black dress as she reunites with pregnant BFF Fearne Cotton for Celebrity Juice



Michelle Mone debuts new shorter hair as she steps out in daringly plunging dress at book launch party
Launch of her own autobiography



Michelle Rodriguez shows off her cleavage while dripping in sweat as she emerges from the gym after intense workout session
Cara Delevingne's ex





They put their Erith home up for sale to try and raise £140,000 to travel to the US for Frankie-Rose's treatment. But strangers donated a staggering £185,000

'But we had to do what we thought was best for them and the family. We needed to be together to get through it. These were all decisions that we wouldn't have needed to agonise over had the treatment been available here.'

She described how from the moment their daughter was diagnosed 'normality went out of the window'.

'It is the most diabolical time in your life and you are craving normality and familiarity, the comfort and support of family and friends yet instead you have to leave your home and everything you know to fly half way around the world and leave all that behind when you need it most,' she said.

'Not to mention the time spent fundraising to get there when you are trying to come to terms with such devastating news. Thankfully for us we had amazing public support but not all families will have been so fortunate.

'To think that others might be spared that is truly wonderful and I welcome it with open arms but should it have been her sooner? Yes. It can't be available soon enough in my opinion.'

Frankie-Rose was treated for eight weeks in Oklahoma where her parents say the improvement to her condition was incredible.

She arrived not being able to walk without help – but finished her treatment walking to collect a 'graduation' certificate.

But they will have to wait for scans to know if the treatment has been successful.

But some experts have questioned the 2018 time frame, predicting patients will not benefit from the new treatment until at least 2020.

Oncologist professor Karol Sikora told MailOnline he is doubtful the Government's aim of 2018 is achievable.

'It will be at least four years from when they choose the machines, so I predict it will be at least 2020 before patients benefit.'

Professor Sikora added: 'This is a limited therapy used for a diverse range of cancers.

'It is an exciting development, knowing it will happen.

'But it is likely to be years before patients benefit directly.'

Dr Plowman added that he can foresee a situation in 10 years time when every major cancer centre across England have five or six traditional radiotherapy machines and one that offers proton beam therapy.

'They will be extra machines, used in cases where you particularly don't want to expose a patient to low dose radiation.'

But the specialist, who also works for Advanced Oncotherapy, urged the Government to invest in the latest technology, rather than opting for older, more expensive machines.

That's a ridiculously good look! Ben Stiller struts onto the Zoolander 2 set in Rome holding a sword umbrella
Back for second movie



Kate Moss turns heads in sheer lace gown worn over skimpy bodysuit as she leads glamour at glittering Alexander McQueen gala dinner in celebration of new fashion exhibition



She's got some front! Victoria Beckham puts on a VERY busty display in dramatic floral cut-out gown at Alexander McQueen gala alongside her husband



The stunning models covered in intricate tattoos vying to make inkings the next big thing on the catwalk
Changing 'narrow-minded beauty ideals'



Bringing in the experts! Strictly champion Caroline Flack displays her fancy footwork as she supports pal Dermot O'Leary on his dance marathon



Braless beauty Jessica Lowndes flashes a hint of sideboob in a slinky black dress with a daring thigh-high split
90210 actress



It's official: The oversized butt has beaten the bust in Hollywood. So WHO has the best one?
Jennifer Lopez and Kim Kardashian lead the way



Will this be the next Let It Go? Disney releases new song Making Today A Perfect Day from their short film Frozen Fever
Highest grossing animated movie ever



Rihanna confirmed as the newest face of Dior's Secret Garden campaign - after being spotted shooting scenes for the brand at the Palace of Versailles

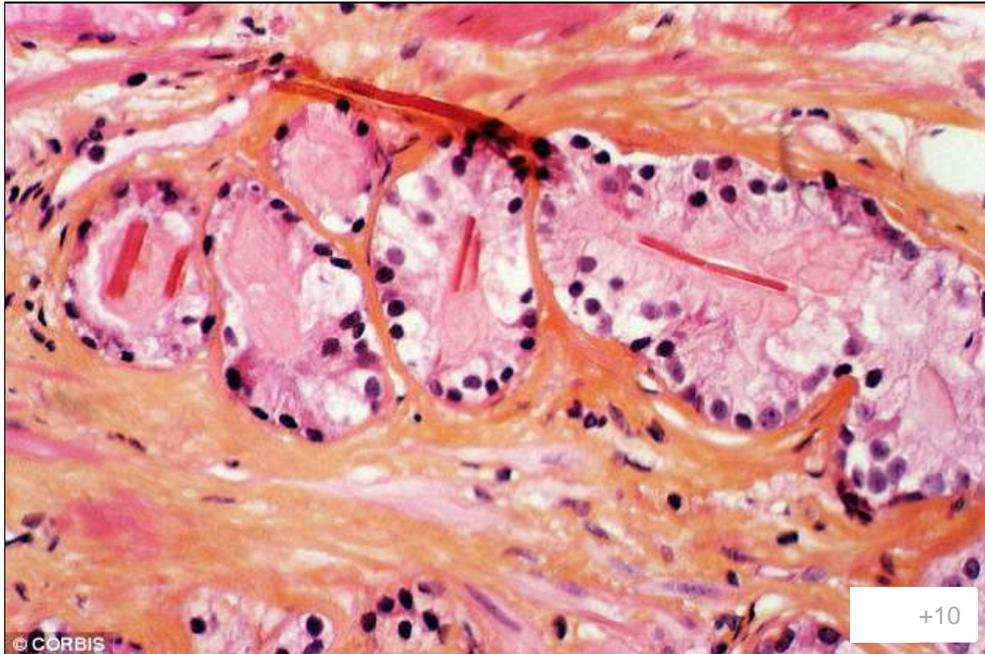


'Love you, wherever you are': Fifi Geldof shares poignant childhood photo with tragic sister Peaches on what would have been her 26th birthday



Amy Jackson shows off the body that made her

'This could have happened 10 years ago,' he added. 'If it wasn't for the fact the machines that create proton beams are so expensive.



The benefit of proton beam therapy, which is best used targeting childhood cancers and prostate cancer, pictured, among others, lies in its ability to eradicate the cancer cells while leaving the healthy surrounding tissues unaffected. Experts told MailOnline it is particularly beneficial to children, reducing side effects



An artist's illustration of how the new Proton Beam Therapy Centre at London's University College Hospital could look when it open to patients in 2018. It is thought the new centre will be able to treat around 750 patients every year, with a further 750 patients a year treated in Manchester

'They are so expensive there are just 38 or 39 across the world, one of which is in Prague, where Aysha King was treated.'

He added: 'The technology is developing rapidly and the government must move with it.

'While the Government's investment is welcome, it has taken so long in procurement whilst the technology is developing so rapidly that the equipment selection, based on yesterday's technology, will be outdated by the time it comes into service and, embarrassingly for the Government, be in the shadow of newer machines that are to be placed around the country by the private sector.'

Responding to the announcement today, David Probert, from University College London Hospital (UCLH), said the centre will have the capacity to treat 750 patients a year.

'Today's announcement is fantastic news for patients and gives us the green light to provide UK-based care to the hundreds of children, teenagers and adults who can benefit most from this highly specialised treatment,' he said.

'Proton beam therapy's main advantage is that less normal tissue is affected by treatment, giving

a Bollywood superstar as she poses in white underwear in steamy Maxim shoot



Flashing the flesh! Jennifer Nicole Lee shows off her impressive bikini body on Miami beach
Model famously lost 70lbs

Nicole Kidman looks in good spirits at LAX as her sister speaks out on how the family are coping six months after their beloved father's sudden death



Denzel Washington sports an impressive mustache as he prepares to saddle up for a remake of The Magnificent Seven
Getting in character



Kerry Washington flaunts her natural beauty on the cover of Marie Claire - just one month after rival publication InStyle was forced to deny 'whitening' her skin



Trim and toned! Example's wife Erin McNaught shows off slim pins and tiny tum just two months after giving birth to baby Evander



Rear-ly impressive! Australian TV presenter Kerri-Anne Kennerley, 61, pulls a Madonna and flashes her toned derriere on ASTRA Awards red carpet



Hat-ty birthday! Rita Ora steps out in wide-brimmed fedora and matching camel coat as she joins her father for celebratory dinner



She's got the London look! Georgia May Jagger cuts a stylish figure in chic trench coat and tanned leather boots as she films new Rimmel commercial



Tamara Ecclestone displays her svelte figure in gym gear as she jogs during idyllic day out with daughter Sophia in London's Hyde Park



patients a greater chance of avoiding long term side effects.

'When completed in 2018 UCLH's Proton Beam Therapy centre will be able to treat up to 750 patients each year, housed in a dedicated centre which will also contain Europe's largest haematological inpatient medical facility and a short-stay surgical unit.

PROTON BEAM THERAPY COULD MEAN DIFFERENCE BETWEEN LIFE AND DEATH FOR CHILDREN LIKE ASHYA KING

In October last year, five-year-old Aysha King left intensive care after undergoing proton beam therapy.

The youngster underwent 30 rounds of the cutting-edge treatment at a hospital in Prague.

His case made headlines after his parents, Brett and Naghemeh King, fled Southampton General Hospital with their son in September.

The couple were concerned about the side effects of the conventional treatment their son was to receive in the UK.



Ashya King underwent 30 rounds of proton beam therapy at a hospital in Prague last autumn

Instead they wanted Ashya to undergo proton beam therapy in Prague.

When the NHS said it would not fund his treatment, they fled to Spain where they planned to sell a house before travelling on to Prague.

However, Hampshire Police issued a European Arrest Warrant after discovering the family had left hospital.

The couple were then held by police in Malaga, Spain.

Ashya was taken to hospital and his family were told they could not visit him.

They were held in police custody for 72 hours before an international outcry led to an order to release the Kings.

Following tests Ashya was deemed suitable for proton beam therapy, and in an unusual move the NHS agreed to fund his treatment on September 26.

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Her royal thigh-ness



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Abi Ward from Cardiff



Kanye West is threatened by hacker group Anonymous in video calling him a 'spoiled little brat' who will no longer be tolerated



Meow! Victoria Justice looks like a fetching feline in a lacy cat suit