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Premature babies feel less pain when they hear their mothers' voice while in intensive care, study shows

- Experts led from the University of Geneva conducted tests with 20 babies
- They measured the babies' pain and oxytocin hormone levels during blood tests
- Oxytocin — oft dubbed the 'cuddle hormone' — has been linked to happiness
- Pain levels were lower and oxytocin levels were higher when the mothers spoke

By IAN RANDALL FOR MAILONLINE

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While undergoing procedures in intensive care, **premature**

babies feel less pain if they can hear their mother's voices talking to them, a study has concluded.

Premature babies — those born before 37 weeks — spend the first days-to-weeks of their lives in incubators, in which time they undergo various medical procedures.

These can include the collection of blood samples for testing, the insertion of feeding tubes and intubation for those that need help breathing.

The problem, however, is that it is often not possible to give the babies pharmaceutical painkillers — as such can interfere with neurological development.

Researchers from the University of Geneva have shown that having the mother present during procedures can lower pain levels and raise levels of oxytocin.

Oxytocin is a hormone that is associated with both happiness and attachment.

The findings, the team said, highlight the importance of parents being present while their baby is in intensive care and undergoing an important stage of development.

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While undergoing procedures in intensive care, premature babies feel less pain if they can hear their mother's voices, a study has concluded. Pictured: a mother soothes her child

The study was led by the laboratory of neuropsychologist Didier Grandjean of the University of Geneva, in collaboration with the Parini Hospital and researchers from the nearby University of Valle d'Aosta, both in northwest Italy.

It built on previous research that indicated that the the presence of a mother or father can — by means of vocal modulations — help to sooth young infants.



(In hospitals, there are other approaches used to sooth premature babies — including swaddling, sugar solutions or non-nutritive sucking with a dummy.)

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In their study, the researchers recruited 20 premature babies born in the Parini Hospital and asked their mothers to be present on some occasions when their child had blood test — a procedure in which a few drops are taken via the heel.

'We focused this study on the maternal voice,' said paper author and developmental psychologist Manuela Filippa, also of the University of Geneva.

'In the first days of life it is more difficult for the father to be present, due to working conditions that do not always allow days off,' she explained.

The experiment was conducted in three phases, which were later compared and contrasted. For one blood test, the mother was not present, while in another the mother talked to the baby and in another the mother sang to them instead.

'For the study, the mother started talking or singing five minutes before the injection, during the injection and after the procedure,' Dr Filippa added.

'We also measured the intensity of the voice, so that it would cover surrounding noise, as intensive care is often noisy due to ventilations and other medical devices.'

Samsung's 'Voices of Life' connects moms & premature babies



Using the 'Preterm Infant Pain Profile' (PIPP) — which rates pain on a scale from 0 to

► Heidi Klum, Jennifer Lopez and January Jones lead the glamour at star-studded Dolce & Gabbana fashion show in Venice

EXCLUSIVE Amy Hart's boyfriend revealed: Star confirms romance with model Sam Rason... known as the hunky hot cross bun man in Aldi's Easter ad

► Alessandra Ambrosio showcases model figure in tiny neon green bikini while playing beach volleyball... before packing on the PDA with beau Richard Lee

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21 based on expressions and measurements like heartrate and oxygenation levels — the team looked to see if the mother's presence soothed the babies.

'In order to code the behaviour of premature babies, we filmed each blood test and judged the videos "blind", by trained personnel, without sound, so as not to know whether the mother was present or not', Professor Grandjean explained.

The team found that the average PIPP dropped from 4.5 to 3 when mothers were present and talking to their child.

'When the mother sings, the PIPP is 3.8,' Professor Grandjean noted.

'This difference with the spoken voice can be explained by the fact that the mother adapts her vocal intonations less to what she perceives in her baby when she sings, because she is in a way constrained by the the melodic structure.'

Alongside using PIPP, the team also explored other ways in which the babies responded to their mothers' voices.

'We quickly turned to oxytocin, the so-called attachment hormone, which previous studies have already linked to stress, separation from attachment figures and pain,' Dr Filippa explained.

By collecting saliva samples, the team found that the babies' oxytocin levels rose from an average 0.8 to 1.4 picograms per millilitre when the mothers spoke

'In terms of oxytocin, this is a significant increase,' Dr Filippa noted.



The findings, the team said, highlight the importance of parents being present while their baby is in intensive care and undergoing an important stage of development

'We demonstrate here the importance of bringing parents and child together, especially in the delicate context of intensive care,' Dr Filippa said.

► [Iggy Azalea says she has only had three hours sleep a night for 'over a year' as she juggles work and motherhood](#)

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'Parents play a protective role here and can act and feel involved in helping their child to be as well as possible,' added Professor Grandjean.

This, he added, 'strengthens the essential attachment bonds that are taken for granted in a full-term birth.'

The full findings of the study were published in the journal **Scientific Reports**.

EXPLAINED: PREMATURE BIRTH AND ITS RISKS TO BABIES

Around 10 per cent of all pregnancies worldwide result in premature labour - defined as a delivery before 37 weeks.

When this happens, not all of the baby's organs, including the heart and lungs, will have developed. They can also be underweight and smaller.

Tommy's, a charity in the UK, says this can mean preemies 'are not ready for life outside the womb'.

Premature birth is the largest cause of neonatal mortality in the US and the UK, according to figures.

Babies born early account for around 1,500 deaths each year in the UK. In the US, premature birth and its complications account for 17 per cent of infant deaths.

Babies born prematurely are often whisked away to neonatal intensive care units, where they are looked after around-the-clock.

What are the chances of survival?

- Less than 22 weeks is close to zero chance of survival
- 22 weeks is around 10%
- 24 weeks is around 60%
- 27 weeks is around 89%
- 31 weeks is around 95%
- 34 weeks is equivalent to a baby born at full term

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► **'I struggle with believing in myself' Ulrika Jonsson gets emotional on Celebrity SAS: Who Dares Wins after 'locking herself away from people' lately**

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► **Sofia Richie goes casual chic in white T-Shirt and paisley patterned jeans while hand-in-hand with boyfriend Elliot Grainge in LA**

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► **Chris Evans and Scarlett Johansson are in talks to reunite on screen in the upcoming Dexter Fletcher-directed adventure film Ghosted**

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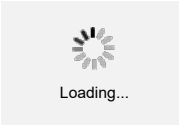
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▶ Reese Witherspoon recalls time she 'burst into tears' over 'offensive' and sexist caricature of herself

▶ Love Island's Georgia Steel shows off her toned abs in a pink crop top while Mary Bedford dons a figure-hugging dress for a night out in Manchester

▶ Ashley Tisdale works up a sweat while out on a hike in biker shorts and cropped T-Shirt... five months after giving birth to baby daughter

▶ Zendaya expresses that she was 'quite honored' to be picked by Vivica A. Fox to portray her daughter in a potential third Kill Bill movie

▶ Lizzo upsets Madonna fans by dubbing Michael Jackson and Janet Jackson as the 'King and Queen of Pop' on Twitter

▶ Jennifer Lopez suffers a fashion faux-pas as she arrives at Dolce & Gabbana event in Venice wearing a floral cape... but leaves the PRICE TAG on



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► Kelly Ripa and Mark Consuelos adjust to their 'empty nest' with selfie after sending their youngest son Joaquin off to college: 'So far we are crushing this'

► Dame Helen Mirren, 76, oozes elegance in a gold embellished ball gown as she arrives in style at the Dolce & Gabbana fashion show in Venice

► Saweetie commands attention in a silver and black ball gown as she attends the Dolce & Gabbana show in Venice

► Brian Austin Green keeps things casual in a white T-Shirt while picking up pet supplies with his three kids in Malibu

► Zoe Saldana sizzles in a racy sheer maxi dress as she packs on the PDA with husband Marco Perego at the Dolce & Gabbana show in Venice

► She's growing up fast! Bindi and Terri Irwin share adorable photos of Grace Warrior... after the 'camping expert' turns five months old

► Anti-vaxxer musician who appeared in ITV's Bad Lads' Army dies from Covid in hospital aged 40, leaving a pregnant wife behind

► The Ergoflex 5G has earned itself a reputation as a premium memory foam mattress-in-a-box - and in the current 40% off sale you can take home a double for just £444
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► 'It will be worth the wait': Jesy Nelson 'delays the release of her debut single Boyz after P Diddy says he wants to appear in her music video'

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- ▶ Brooklyn Beckham picks up a large pizza and gazes hungrily at it as he and fiancée Nicola Peltz step out in Los Angeles
- ▶ Drag Race star Gigi Goode comes out as a 'trans/non-binary person' but prefers 'she/her pronouns'... as she talks facial feminization surgery
- EXCLUSIVE Laura Whitmore wows in a floaty orange gown as she puts on a loved-up display with husband Iain Stirling at a friend's wedding in Dublin
- ▶ Suranne Jones's submarine drama Vigil is all adrift... but it still reels you in: CHRISTOPHER STEVENS dives into the naval whodunnit
- ▶ He's off the market! Married At First Sight's Chris Jensen finds love after his disastrous split with Jaimie Gardner
- ▶ Lady Kitty Spencer looks ethereal in an elegant cream sequin midi dress as she arrives for the Dolce & Gabbana fashion show in Venice
- ▶ Emma Weymouth turns heads in a feathered pink ball gown as she joins slew of stars at the Dolce & Gabbana fashion show in Venice
- ▶ Bebe Rexha arrives in a busty chainmail mini dress and matching choker for glitzy Dolce & Gabbana event in Venice
- ▶ Bag a bargain this bank holiday! The best deals to shop on Amazon this weekend - including vacuum cleaners, smart home devices, hair tools and household essentials
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- ▶ Paris Hilton calls fiancé Carter Reum 'the love of' her life in heartfelt tribute on their anniversary: 'Our love story is the best thing to happen to me'
- EXCLUSIVE Roxy Jacenko and her husband Oliver Curtis quietly 'part ways' in business deal due to 'irreconcilable differences'
- ▶ Addison Rae showcases legs in skintight romper while buying flowers in West Hollywood... as He's All That is PANNED by critics
- ▶ Rebel Wilson appears to have lost even more weight as slips into very tight trousers at The US Open after already dropping an incredible 30kg
- EXCLUSIVE Brooklyn Beckham's ex Hana Cross is '100% dating' Rafferty Law - as model is seen 'kissing' cigarette-smoking actor during a London festival
- ▶ Chantel Jeffries shows off fab figure in sports bra and skimpy shorts during stroll at farmer's market in West Hollywood
- ▶ Amanda Holden holds hands with mini-me daughter Alexa, 15, as they make a stylish arrival to dinner at Electric House
- ▶ 'I don't give a f**ki' Ulrika Jonsson, 54, doesn't care about embarrassing her four kids with risqué Instagram snaps as she 'loves' her body
- ▶ Kourtney Kardashian wraps her arms around boyfriend Travis Barker and kisses him as the couple put on another PDA-packed display in Italy



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▶ [Paloma Faith credits Covid pandemic with sparking pop star baby boom after joining new celebrity mothers Ellie Goulding and two members of Little Mix](#)

▶ [Lee 'Scratch' Perry dies at 85: Dub and reggae pioneer who worked with Bob Marley passes away in Jamaica](#)

▶ [Mila Kunis is beautiful in a baby blue dress as she shoots a scene for mystery film Luckiest Girl Alive in NYC](#)

▶ [Beyonce shows off stunning physique in figure-hugging black dress... after being left 'disappointed and angry' over \\$30M Tiffany 'blood diamond'](#)

▶ [Heidi Klum, 48, wows in red as she joins lookalike model daughter Leni, 17, and husband Tom Kaulitz, 31, on family day out in Venice](#)

▶ [Kanye West says new album Donda was released WITHOUT his approval by record label Universal](#)

▶ [Sharon Stone sports a cozy cable knit sweater and jeans with a leopard print face mask at the airport in New York](#)

▶ [Jennifer Garner sports navy sweats on a farmers' market run with daughter Seraphina in posh Pacific Palisades](#)

▶ [Kourtney Kardashian puts on a leggy display in a floral miniskirt as she arrives in Venice with boyfriend Travis Barker ahead of Dolce and Gabbana show](#)



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► **Khloe Kardashian and Tristan Thompson reignite romance rumours as they attend LeBron James' wife's surprise birthday party but leave separately**

► **Harrison Ford keeps his shades on at the supermarket in London as he hits the salad aisle amid break from shooting Indiana Jones 5**

► **Bella Thorne wows in a clinging black lace ensemble as she enjoys a night out in West Hollywood**

► **Frankie Bridge shows off her amazing figure in a black bikini... after revealing she made her husband Wayne write a WILL on their honeymoon**

► **Jo O'Meara admits to having a 'complete breakdown' following her Big Brother appearance - which saw her lose 'everything'**

► **Evan Rachel Wood says Marilyn Manson appearance at Donda listening event felt like a 'slap in the face' as she praises 'fellow survivors'**

► **Vest foot forward! Comedian Robert Webb limbers up for Strictly appearance with a run in the sun**

► **Iron Butterfly drummer Ron Bushy dies at 79: Only band member to appear on all six studio albums passes away in LA**

► **Ed Asner dies at 91: TV star known for playing Lou Grant on The Mary Tyler Moore Show 'passes away peacefully' surrounded by his family**

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▶ Greg Rutherford and Susie Verrill cuddle up to daughter Daphne, 4 months, in sweet new photos taken during fun day out at The Big Festival

▶ Geordie Shore girls Bethan Kershaw, Charlotte Crosby, Sophie Kaseai and Chloe Ferry don busty, leggy mini-dresses for brunch in Manchester

▶ The one lesson I've learned from life: Singer Kathy Sledge says you should stay friends with your husband

▶ Nene Leakes says husband Gregg is 'at home dying' and 'transitioning to the other side' amid his ongoing cancer battle

▶ Ethan Hawke talks about tension between him and Robin Williams on set of Dead Poets Society saying he found the late actor's jokes 'irritating'

▶ Bikini-clad Victoria Beckham cuddles up to her daughter Harper in sweet snaps as they enjoy 'Sunday swimming session' together in Miami

▶ Sophie Ellis-Bextor puts on a dazzling display in a green disc mini dress as she wows fans during her Manchester Pride set

▶ Tarek El Moussa and fiancée Heather Rae Young indulge in retail therapy before yacht adventure in Newport Beach ahead of her bridal shower

▶ Amber Heard buys two boxes of wine with pal in Notting Hill... after ex-husband Johnny Depp proceeds with \$50million libel lawsuit against her

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EXCLUSIVE Adele
wows in evening dress
and goes BAREFOOT as
she is seen with beau
Rich Paul at LeBron
James' wife's birthday
party

► Bride-to-be Lucy
Watson parties it up on
a catamaran during her
sun-kissed Mykonos
hen party with sister
Tiffany and friends

► Kanye West FINALLY
releases new album
Donda as fans rush to
hail it 'one of the
greatest pieces of art of
all time'

► Eddie Murphy teams up
with Jonah Hill for Netflix
comedy directed by
black-ish creator Kenya
Barris

► Joe Wicks and his wife
Rosie make the most of
the Bank Holiday
weekend as they enjoy
time together at the Big
Feastival in the
Cotswolds

► Bill Nighy wraps arm
around Anna Wintour as
they enjoy another cosy
dinner date in Rome
days after he presented
her with roses at the
same restaurant

► Bear Grylls 'plans on
knocking three flats
together to make a
mega lavish £20M home
in London's Battersea'

► Love Island bosses
'eyeing up Maya Jama or
Maura Higgins to
replace Laura Whitmore
on next year's show
following host's
lukewarm reception'

► Anitta puts on a leggy
display in a denim
miniskirt as she steps
out for dinner at BOA
Steakhouse in LA

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► **Gymnast Simone Biles celebrates one year of dating NFL player boyfriend Jonathan Owens**

► **Julianne Hough opts for form-hugging all-black outfit while taking hike with a friend in Los Angeles**

► **Malin Andersson says she had a 'scare' after suffering bleeding and lack of movement - but assures fans 'all is ok' after being checked over**

► **Actress Martha Cope joins EastEnders as Dotty Cotton's mum and will arrive on Albert Square this autumn**

► **Love Island's Liberty Poole shows ex Jake Cornish what he's missing as she unveils post break-up transformation in sizzling snaps**

► **Gabby Allen shows off her toned frame in a lemon bikini as she enjoys sun-soaked stroll along the beach with beau Brandon Myers in Ibiza**

► **Kourtney Kardashian puts on a VERY cheeky display in a Gucci thong while packing on the PDA with Travis Barker in Italy**

► **Me time! Chelsea Clinton looks deep in thought as she enjoys a jog through the Hamptons during a break from writing her children's book series**

► **David Beckham enjoys fun-filled day at a Miami waterpark with daughter Harper as he is filmed SCREAMING down a slide by 'designated videographer' Victoria**

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► 'Off on my next adventure!' Leggy Amanda Holden looks chic in a white shorts suit as she steps off a private jet after flying to meet her family

► Sex Education's Aimee Lou Wood says she thought she was 'too weird-looking' for TV roles - and RADA staff staged a 'necessary' intervention

► 'I was really shocked, disappointed and sad': Motsi Mabuse reveals she was left 'in tears' after German tabloid publishes perceived 'racial slur'

EXCLUSIVE 'I felt embarrassed': Kerry Katona 'didn't think she deserved to be happy' while trying on wedding gowns ahead of 4th marriage

► YouTube star Jan Zimmerman, 22, is 'linked to rise in Tourette symptoms' among fans mimicking his tics and outbursts, study shows

► Amber Turner, Amy Childs and Chloe Sims step out looking sensational for the TOWIE press night in Bournemouth

► Candyman horror flick 'exceeded all industry expectations' and tops the box office with \$22M... with Free Guy and Paw Patrol trailing behind

► Lucy Watson looks chic in a bikini and shirt as she totes a 'bride' handbag for her Mykonos boat hen party with sister Tiffany and friends

► Rita Ora shows off her sizzling figure in a skimpy black bikini as she soaks up the rays on sun-drenched getaway

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► 'This is the lowest I've ever been': Cheryl's older brother Andrew Tweedy, 41, reveals he's living in a tent and is begging for money on the streets

► Khloe Kardashian blasts the 'fake s****' that is being spread about her personal life in Twitter diatribe: 'It's pathetic but also infuriating'

► Robin Wright puts her figure on display as she cuddles her husband Clement Giraudet while bikini-clad daughter Dylan Penn gets romantic with a mystery man in St. Tropez

► Nicola Peltz cuts an edgy figure in a pinstripe blazer and paisley headscarf as she enjoys romantic dinner date with fiancé Brooklyn Beckham

► William and Kate are 'seriously considering a move to Windsor' to be closer to the Queen as they prepare for a senior role at the heart of The Firm

► Conor McGregor looks dapper in a red patterned shirt as he enjoys a night out with glamorous fiancée Dee Devlin

► Tiger King star Carole Baskin sells longtime rival Joe Exotic's former zoo... and deal bans property from being used as a zoo for 100 years

EXCLUSIVE Sharon Stone, 63, continues to put on a brave face amid her nephew's organ failure as she poses in a black bra and hot pants

► Isla Fisher cuts a stylish figure in a flirty floral dress as she attends a CinefestOZ luncheon in Perth



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► Rita Ora sets temperatures soaring as she poses on a beach in a barely-there fish net dress and black thong bikini

► Sienna Miller flashes her svelte torso in classic white T-shirt and baggy jeans as she steps out in NYC with a red bow in her hair

► Sarah Paulson responds to backlash over wearing a 'fat suit' to play Linda Tripp in Impeachment: American Crime Story

► Lizzo makes even getting a COVID-19 test look glamorous as she gets her nose swabbed with her hair and makeup fabulously done up

► Saweetie keeps her cool during tropical getaway as she pours water over her bikini-clad body

► Megan Thee Stallion turns heads while Remy Ma sizzles in plunging frock as they celebrate 18th anniversary of Jay-Z's 40/40 Club

► Sylvester Stallone calls his daughter Sophia a 'source of bravery and pride' as he posts gushing tribute to her in honor of her milestone 25th birthday

► £100million man Jack Grealish shows off his love of designer clothes in a £3,000 outfit (including £380 bucket hat!) at Leeds Festival

► Lord Of The Rings star Sean Astin photobombs the same woman... 26 YEARS apart



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▶ **Kylie Minogue's ex-fiancé Joshua Sasse welcomes his second child with wife Louisa Ainsworth - as he reveals his daughter's very sweet name**

▶ **'I'm ready for a baby': Gemma Collins, 40, says she will try to start a family NEXT YEAR with on-again beau Rami Hawash, 46, as part of reality show**

▶ **Little People, Big World star Amy Roloff ties the knot with Chris Marek on an Oregon farm: 'Our marriage is a lifetime together'**

▶ **'Be as wild as your bikini!': Chloe Lewis turns up the heat as she shows off her toned figure in an animal print two-piece while holidaying in Ibiza**

▶ **Married At First Sight stars reveal their very relatable weight struggles after stacking on the kilos during Covid lockdown**

▶ **Bebe Rexha makes a grand entrance donning plunging polka dot dress to Dolce & Gabbana party in Venice**

▶ **Jennifer Lopez smolders in a beige silk bedtime romper for JLO Beauty... as her beau Ben Affleck is 'seriously thinking about proposing'**

▶ **Justin Bieber becomes Spotify's most listened to artist with more than 83.3 million monthly listeners**

▶ **Louise Redknapp puts on a busty display in a chic black bikini during Ibiza vacation with friends**

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- ▶ 'They don't want to stoke flames': Strictly Come Dancing bosses 'WON'T' pair Katie McGlynn and her ex-flame Giovanni Pernice' for the new series
- ▶ Heidi Klum puts her cleavage front and center in dazzling curve-clinging dress as she attends Dolce & Gabbana bash in Venice
- ▶ Michael Bublé pays tribute to his son Noah, who was diagnosed with cancer at three years old, on his birthday: 'Today my hero turns 8'
- EXCLUSIVE 'It's been an extremely scary 24 hours': RHOC's Tanya Bardsley is hospitalised after collapsing at photoshoot
- ▶ Charles for sale: Prince orders a probe as it's revealed fixers offered wealthy donors dinner with him and a stay at Dumfries House for £100,000
- ▶ Channing Tatum and Zoe Kravitz continue to fuel romance rumours as they take a stroll in New York City after having lunch with a friend
- ▶ Olivia Rodrigo looks smitten in a sassy skirt and stacked boots during date night with boyfriend Adam Faze
- ▶ Kim Kardashian and estranged husband Kanye West are working on their relationship - after she appeared at his Donda show in a wedding gown
- ▶ Joe Swash's sister Shana is engaged! Ex-EastEnders star who played Demi Miller reveals she is set to marry her carpenter boyfriend

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- ▶ Lily Allen cuts a comfortable figure in jeans and a longline top as she make a swift exit from the West End following her show 2:22 A Ghost Story
- ▶ Countryfile's Helen Skelton displays her ample assets and sensational figure in chic bikinis during Malta break with sons Ernie, 6, and Louis, 4
- ▶ Multi-millionaire Damien Hirst is ready to knock spots off a rival artist named Loafgreen - who used his famous design to decorate a pair of Crocs
- ▶ Jannine Barrosa dies at 61: The star of the Netflix show Instant Hotel passed away two months ago as the family says 'she will be forever missed'
- ▶ Vanessa Hudgens embraces her wild side as shows off her toned physique in a barely-there neon green and zebra print bikini for day by the pool
- ▶ Reese Witherspoon, 45, is makeup-free as she poses with daughter Ava, 21, and son Deacon, 17: 'I'm lucky to be their mom'
- ▶ Brooklyn Beckham cuts a casual figure while his fiancée Nicola Peltz rocks a leather jacket and bandana as they step out for juice in Los Angeles
- ▶ 'Bring back the Spice Girls!': Melanie C, 47, flashes her abs in a sporty ensemble on stage at Gone Wild festival after picking up LGBT Award
- ▶ Gordon Ramsay's daughter Holly, 21, shows off her toned physique in a tiny mismatched bikini as she poses on board a yacht in Cornwall



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▶ Caroline Flack's mother says she can't bear to watch Love Island's Laura Whitmore in 'the same dress and pose' as her late daughter

▶ Kim Kardashian slips into a skimpy gold bikini... after claims she is 'working on her marriage' with Kanye West

▶ Lady Amelia Windsor, 26, is spotted cuddling up with a dashing young fellow at the Wilderness Festival

▶ Ronaldo rebooted: Cristiano first came to the UK as a pimply youth with his mum but he returns as a father-of-four who's the king of a £1billion empire

▶ Jamie Lee Curtis seems in bright spirits as she paints a smiley face on a neighborhood signpost

▶ Pregnant Rosie Huntington-Whiteley conceals her bump in a chic white co-ord as she makes first appearance since baby announcement

▶ 'You feel sexy': Cheryl shares racy confession as she reveals R&B music 'gets her in the mood of love' during her new BBC Sounds show

▶ Mabel steals the show in a scarlet cut-out jumpsuit as she takes centre stage at Leeds Music Festival

▶ Demi Rose sets pulses racing as she poses topless after showing off her curves in an embellished bikini top in Ibiza



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► **Model Sabrina Percy to follow Lady Kitty Spencer's lead and wear a D&G gown when she weds Franco Manca pizza heir in Chelsea**

► **Kim Kardashian and Kris Jenner met Lorne Michaels for lunch to 'catch up'... amid reports beauty mogul is 'in talks' to host SNL's season premiere**

► **Khloe Kardashian's ex Tristan Thompson wears a sharp suit as he is seen at a party thrown by the wife of LeBron James**

EXCLUSIVE **Kourtney Kardashian and Travis Barker can't keep their hands off each other as they enjoy PDA-packed vacation in Italy**

► **Lady Kitty Spencer looks chic in a green suit as she attends the Dolce and Gabbana launch party in Venice alongside pal Emma Weymouth**

► **Jenni Falconer, 45, shows off her incredibly toned physique in a hot pink bikini by the pool as she enjoys a sun-soaked holiday in Spain**

► **Bikini days! Kylie Jenner, Olivia Culpo, and Nikki Lund slip into their sizzling swimsuits for the last week of summer**

► **Kim Kardashian shares BTS shots from Kanye West's Donda show dressed as a bride - amid claims she is angry he included Marilyn Manson**

► **BBC's Rosie Millard to marry the multi-millionaire she left her family for in a North London ceremony next week**

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▶ Michael Jackson's family hopes to record a new track that features previously unheard work from Michael... after he died in 2009 at age 50

▶ Child actor Matthew Mindler, 19, is found dead near his college campus after going missing: Starred opposite Paul Rudd in movie Our Idiot Brother

▶ Romeo Beckham's girlfriend Mia Regan shows off her model figure in a tiny white Stella McCartney bikini and pink Crocs

▶ Usain Bolt announces he will release his debut album next week as he returns to the spotlight following the birth of his daughter Olympia

▶ Mila Kunis is beaming as she shares a passionate kiss with Finn Wittrock on the set of Luckiest Girl Alive

▶ Beaming Davina McCall looks the picture of happiness as she holds hands with her boyfriend Michael Douglas in Notting Hill

▶ Carol Vorderman, 60, puts on a VERY busty display in a flimsy red bikini as she emerges from the water while enjoying a 'really lazy day' in Wales

▶ Kobe Bryant's widow Vanessa Bryant attends the Dolce and Gabbana event in Venice, Italy with friend Ciara

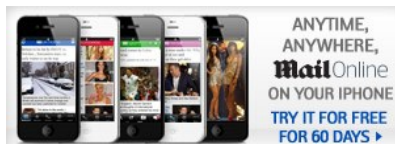
▶ Cat Deeley nails casual chic in a white T-shirt and light blue jeans as she leaves Radio 2 after standing in as replacement host for Rylan Clark-Neal

▶ 'A week of health and healing': Selma Blair poses in an off-the-shoulder swimsuit after revealing she is in remission amid ongoing multiple sclerosis battle



► Myleene Klass matches with her mini-me son Apollo, two, in leopard print during family day out at The Big Feastival

► Jacob Elordi puts an arm around girlfriend Kaia Gerber as the couple continues their romantic weekend together with a to-go breakfast



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GADGET REVIEWS

iPad Pro review: Apple takes the tablet to new heights (at a price)



Apple's new iPad is blazingly fast, gorgeous to look at, and quite simply the best tablet out there - and for a lot of people, probably the best computer out there.

43 comments 1 video

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The small smart display with big potential: Google Home Hub review



Google is late to the game with its Home Hub, but the low price and AI features make it a great choice for controlling your home, showing pictures and even helping run your life.

1 comment 2 videos

'Good enough for most people': iPhone XR review



On one hand, the XR lacks the high-resolution screen and dual-lens camera on the XS. but it is \$250 cheaper and still get most of the other cutting-edge features found on the more expensive model.

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The Pixel 3 outsmarts the iPhone (IF you trust Google with all your information)



AI seems to permeate every part of its software, from the ability to answer calls for you to being able to almost perfectly predict your morning commute.

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Bigger and better in every way: Apple's XS really does take the iPhone to the Max



Apple's new iPhone XS and XS Max go on sale on Friday - and the biggest handset Apple has ever made is also its best (and possibly unsurprisingly, its most expensive).

24 comments 1 video

The \$250 beauty device that works like 'Photoshop for your face'



Israeli beauty-tech firm Pollogen has launched its Genio Personal device, which stimulates oxygen from beneath the skin's surface to give you a clearer, fresher face within minutes.

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iOS 12 review: The update that really will improve your iPhone



Rather than cram in a plethora of new features, Apple's latest update is about boosting stability, with improvements in everything from FaceID and battery life.

211 comments 2 videos

Naim Atom: The hifi that will change the way you listen to music



It's eye-wateringly expensive at \$2,999, but Naim's Uniti Atom is a revelation, an integrated amplifier that makes it easy to stream music at a quality you've probably never heard before.

comments

The \$1,000 wireless speaker that really IS worth the price: Naim Mu-so Qb review

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Naim's incredible Mu-So Qb takes you back to the good old days - where the music captivates and entralls, rather than simply being something in the background.

comments 1 video

The hi-tech \$2,000 spin bike that really could change your life



Peloton's hi-tech bike lets you stream live and on demand rides to your home - and it's one of the best examples of fitness technology out there - at a price.

comments 1 video

The best all in one wireless speaker you'll ever hear: Naim Mu-so review



It might not be a name familiar to the US market, but Naim is a legendary British brand hoping to make a splash with the American launch of its \$1499 Mu:So speaker.

3 comments 1 video



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