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Discovery in the area of fetal stimulation through intravaginal music

institut marquès

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Foetuses can dance to music at 16 weeks

Queen's Bohemian Rhapsody drew one of the biggest reponses from the embryos
Denis O'Regan/Corbis

Graham Keeley Madrid
Published at 12:01AM, October 8 2015

The soothing tones of Mozart or Bach and the operatic rock of Queen's *Bohemian Rhapsody* make foetuses as young as 16 weeks "dance" in the womb, a study has found.

Unborn babies respond to music ten weeks earlier than previously believed, the researchers claim.

Three-dimensional images showed foetuses opening their mouths and sticking out their tongues when music was played .

Previously, it was thought that the human auditory system did not develop until the 26th week of pregnancy. Researchers said that the study showed that music activated brain circuits and stimulated language and communication within the womb.

The findings could

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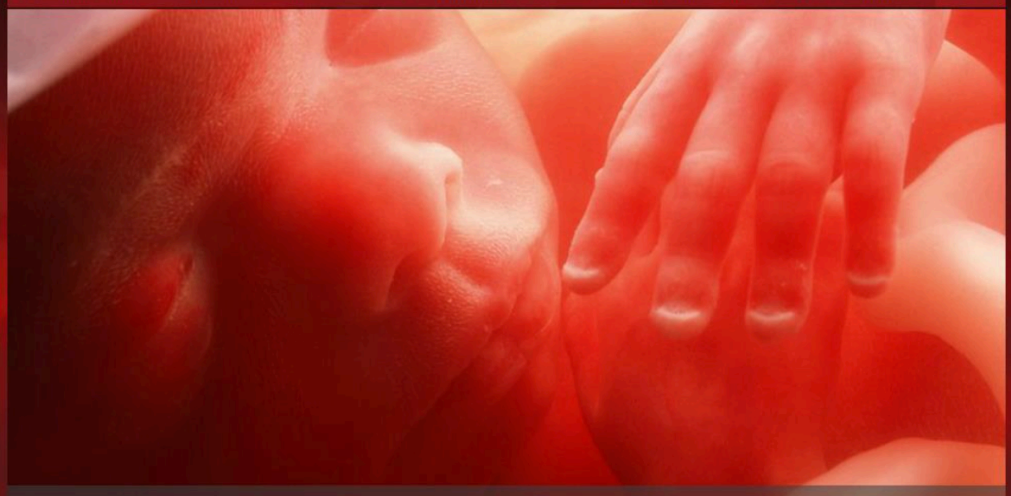

Foetuses "dance" to Bach

The soothing tones of Mozart or Bach make foetuses as young as 16 weeks "dance" in the womb, according to doctors at the Institut Marques in Barcelona

(Photo credit: Neil Bromhall / Science Photo Library)

This clip is from

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Amazing video shows babies 'SINGING' in the womb: Foetus can 'hear music as early as 16 weeks - and moves their mouth and tongue in response'

- First study to show foetuses can hear sounds as young as 16 weeks
- Pregnant women between 14 and 39 weeks took part in the study
- Music played via an intravaginal device, and via speakers on the bump
- Found 87% of foetuses responded directly to intravaginal sounds
- Moved their mouths and tongues 'as if they were trying to sing'

By LIZZIE PARRY FOR DAILYMAIL.COM

PUBLISHED: 20:37 GMT, 7 October 2015 | **UPDATED**: 12:12 GMT, 8 October 2015

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Unborn babies are able to hear in the womb at just 16 weeks gestation, a new study has revealed.

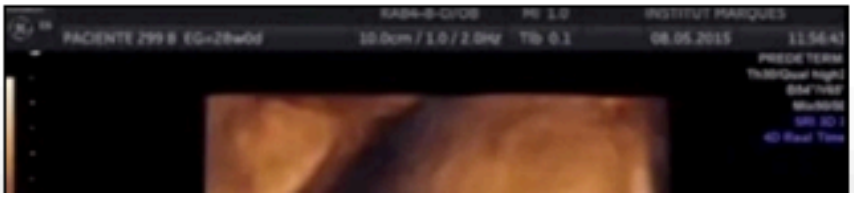
For the first time scientists at the **Institut Marques** in Barcelona have shown a foetus is able to detect sounds, and furthermore, that they respond by moving their mouths and tongues.

It is accepted that an unborn baby's ear is fully developed at week 16 of a pregnancy.

But, until now experts did not believe a foetus could hear until week 18, at the earliest but more commonly nearer 26 weeks.

Dr Marisa Lopez-Teijon, who led the study, said the findings show a foetus responds to music transmitted intravaginally by moving their mouth and tongue, 'as if they were trying to speak or sing'.

Scroll down for video



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Fascinating 4D Scan Video Shows Babies Reacting To Music In Womb In 'First Study' Of Its Kind

The Huffington Post UK | By Amy Packham

Posted: 08/10/2015 09:48 BST | Updated: 08/10/2015 09:59 BST

386 | 105 | 2 | 0 | 1

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A fascinating video has shown unborn babies reacting to music in the womb as early as 16 weeks, as part of a study into foetuses and sounds.

In the video, the babies appear to be 'singing' as their mouths open and tongues begin to move when the music is played.

Scientists at Instituto Marques in Barcelona studied pregnant women between 14 and 39 weeks and played music via an intravaginal device (called a 'Babypod') and speakers on the bump.

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Spagna, nuovo studio dimostra la percezione della musica nei feti

Una reazione alla musica già a 16 settimane di gestazione. Questo il risultato di una ricerca condotta dall' Institut Marquès di Barcellona. Ma non tutti gli studiosi concordano: "In questa fase non vi è nessuna possibilità che il feto tragga da un'esperienza sensoriale una risposta psicomotoria da adulto"

Lo leggo dopo

09 ottobre 2015

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CANTARE **Johann Sebastian Bach** a 16 settimane di gestazione. E' quanto sembra rivelare il nuovo studio pubblicato su *Ultrasound* condotto dagli scienziati dell'*Institut Marquès* di Barcellona. Gli studiosi ritengono di aver dimostrato che il feto è in grado di rilevare i suoni provenienti dall'interno dell'utero materno già a questa età, e soprattutto di reagire muovendo

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Nel pancione della mamma, un feto di 16 settimane ascolta e canta

Gli scettici: " Ciò che è accaduto è il movimento del cosiddetto sbadiglio fetale. Che sia avvenuto mentre il feto ascoltava musica è una casualità"

Adriano Palazzolo - Ven, 09/10/2015 - 13:33

commenta G+1 3 Mi piace 456

Gli scienziati dell'Institut Marquès di Barcellona hanno dimostrato che il feto di un neonato sarebbe in grado di rilevare i suoni già a 16 settimane di gestazione, e soprattutto di reagire muovendo la bocca e la lingua.

video
A 16 settimane, il feto canta nel...

Le orecchie del piccolo si sviluppano completamente a 16 settimane, ma finora si riteneva che questo non potesse udire fino a 18-26 settimane di gestazione. Ora il team di Marisa Lopez-Teijon spiega di aver fotografato una risposta precoce alla musica trasmessa a livello intravaginale: il feto muove bocca e lingua come se cercasse di parlare o cantare. E smette quando si interrompe la musica.

Lo studio è stato pubblicato sulla rivista scientifica *Ultrasound* e l'istituto spagnolo ha pubblicato un video con il montaggio delle ecografie in 3D.

Il team ha usato un dispositivo, battezzato Babypod, sviluppato per questo studio, che si inserisce nella mamma, tramite la vagina, liberando poi le note. L'esperimento è stato condotto su un gruppo di donne tra la 14esima e la 39esima settimana di gravidanza; i ricercatori hanno utilizzato gli ultrasuoni per valutare le reazioni del feto alla musica. Le note erano emesse a livello addominale (sul pancione) e intravaginale con lo speciale riproduttore musicale e tutti i piccoli hanno ascoltato la Suite in La minore di Johann Sebastian Bach.

8 ottobre 2015

Bimbo nel pancione ascolta musica e canta: il video è emozionante

La scoperta è degli scienziati dell'Istituto Marques di Barcellona e dimostrerebbe come l'apprendimento possa iniziare ancora prima della nascita

301

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17:21 - Un **bimbo** può ascoltare la musica quando è ancora nella pancia della madre. Lo dimostra un video degli scienziati dell'**Istituto Marques** di **Barcellona**. La scoperta permette di escludere la sordità del neonato ancora prima che nasca.

Un bimbo di circa quattro mesi reagisce ai suoni e muove la bocca come se volesse cantare.

La musica stimola la parte del cervello relativa ai processi

DISPOSITIVO INTRAVAGINAL PERMITE QUE O BEBÉ OIÇA MÚSICA NA BARRIGA DA MÃE AINDA MAIS DE PERTO

10 NOVEMBRO 2015 // SUSANA KRAUSS // NOTÍCIAS

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Trata-se de um dispositivo intravaginal que leva a música ao bebé e foi desenvolvido por um Instituto de referência de Ginecologia espanhol

créditos: BabyPod

Existem vários estudos que indicam que a música traz benefícios ao desenvolvimento do bebé, enquanto ainda está na barriga da mãe. E há vários produtos no mercado que ao serem colocados na barriga da grávida, permitem que a

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Spanish Researchers Discover the Way Through Which Foetuses Really Hear and Respond to Musical Stimuli

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SOURCE Institute Marquès

BARCELONA, LONDON and MILAN, October 6, 2015 /PRNewswire/ --

The study is published in the British journal, Ultrasound, this week

- The study demonstrates that a foetus of 16 weeks is already capable of properly hearing and responding to music as long as it is emitted **from the mother's vagina**.
- **The foetus can hardly hear sound from an external source and from its mother.** It perceives it in a whispered, distorted form.
- In the case of music emitted from the vagina, 87% of foetuses move their mouths or tongues and almost half pull out their tongues as far as they will go. **They perform vocalisation movements prior to the acquisition of language.**
- **The device developed for the study enables foetal deafness to be ruled out. It also makes ultrasound scans easier and reduces the stress of parents during pregnancy.**

After only 16 weeks of existence, foetuses hear and respond to music as long as it is emitted **from their mother's vagina**. Foetuses respond to this stimulus by opening their mouths and pulling their tongues out as far as possible, making vocalisation movements - prior to the acquisition of language.

This is the main conclusion of the study conducted by the team of Institut Marquès, which boasts the collaboration of Alberto Prats, Professor of Anatomy and Human Embryology of the Faculty of Medicine of the University of Barcelona.

The study, entitled ***"Foetal facial expression in response to intravaginal music emission"***, is published this week in the journal Ultrasound of the British Medical Ultrasound Society (BMUS).

According to Dr. Marisa López-Teijón, the Head of Assisted Reproduction at Institut Marquès and the principal researcher and author of the clinical study: "We have discovered that the formula for foetuses to hear like us is to emit music **from the mother's vagina**. They barely hear the sound that reaches them through their mother's abdomen: the soft tissues of the abdomen and the inside of the mother's body absorb the soundwaves".

To view the Multimedia News Release, please click:

Spanish Researchers Discover the Way Through Which Foetuses Really Hear and Respond to Musical Stimuli

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Con solo 16 semanas los fetos oyen y responden a la música

Por **LaSalud.mx** 20/11/2015 14:42:00

Siempre que ésta se emita desde la vagina de la madre.

Ellas.mx.- Con solo 16 semanas los fetos oyen y responden a la música, siempre que ésta se emita desde la vagina de su madre. Los fetos responden a ese estímulo abriendo la boca y sacando la lengua, con movimientos de vocalización -previos a la adquisición del lenguaje-.

Esta es la principal conclusión del estudio realizado por el equipo de Institut Marquès, que ha contado con la colaboración del prof. Alberto Prats, catedrático de Anatomía y Embriología Humana de la Facultad de Medicina de la Universidad de Barcelona.

El trabajo, titulado "Fetal facial expression in response to intravaginal music emission" (Expresión facial fetal en respuesta a la emisión de música vía vaginal), se publicó en octubre en la revista Ultrasound de la British Medical Ultrasound Society (BMUS).

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La tierna reacción de estos fetos al escuchar música alegrará tu día

Parece que tratan de cantar.

publicado 13 de octubre de 2015, 9:00 p.m.

Brenda Blanco
Reportera de BuzzFeed News, Español

El instituto internacional Marqués acaba de darle a algunos pequeños en desarrollo una muestra del mundo que les espera al ritmo de la música clásica.

youtube.com

Según un estudio reciente del Marqués, descubrieron que al insertar este aparato musical a través de la vagina de una mujer en embarazo, el feto puede escuchar música como lo hacemos nosotros aquí, afuera.

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Amazing video shows babies 'SINGING' in the womb: Foetus can 'hear music as early as 16 weeks – and moves their mouth and tongue in response'

By *Naija247news*

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Unborn babies are able to hear in the womb at just 16 weeks gestation, a new study has revealed.

For the first time scientists at the Institut Marques in Barcelona have shown a foetus is able to detect sounds, and furthermore, that they respond by moving their mouths and tongues.

It is accepted that an unborn baby's ear is fully developed at week 16 of a pregnancy.

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Video shows foetus 'SINGING' in the womb by moving their mouth and tongue

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BY PT EDITOR ON OCTOBER 7, 2015 HEALTH

Scientists at the Institut Marques in Barcelona claim to have shown for the first time that unborn babies can hear by the time they reach 16 weeks gestation, and that they respond as if they're singing.

스페인 연구원들, 태아가 음악 자극 듣고 이에 반응하는 방식 발견

연합뉴스 원문 | 입력 2015.10.06 16:37

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* 이번 주 영국 학술지 Ultrasound에서 발표

-- 이 연구에 따르면, 16주 된 태아는 산모의 질을 통해 전달되는 음악을 제대로 듣고 이에 반응할 수 있다고 한다.

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-- 질에서 음악이 전달될 경우 태아 중 87%가 입이나 혀를 움직였으며, 약 절반이 알아볼 수 있는 다양한 움직임으로 반응했다. 태아는 언어 습득 이전에 발성 동작을 하는 것이다.

-- 이번 연구에서 개발한 장치는 태아 난청을 배제시킬 수 있으며, 초음파 스캔을 더욱 간편하게 만들고, 임신 기간에 부모 스트레스를 줄여준다.

[편집자 주] 본고는 자료 제공사에서 제공한 것으로, 연합뉴스는 내용에 대해 어떠한 편집도 하지 않았음을 밝혀 드립니다.

(스페인 바르셀로나, 런던 및 밀라노 2015년 10월 6일 PRNewswire=연합뉴스) 음악이 산모의 질을 통해 전달된다면, 겨우 16주 된 태아도 그 음악을 듣고 이에 반응한다. 태아가 이와 같은 자극에 반응하는 방식은 입을 열고 가능한 한 멀리까지 혀를 당긴다. 언어를 습득하기 전까지 보이는 발성 동작인 것이다.

이는 Institut Marques[http://www.institutmarques.com/] 팀이 시행한 연구(http://ult.sagepub.com/content/early/2015/09/29/1742271X15609367.full)에서 나온 주요 결과다. Institut Marques는 바르셀로나 대학 해부학 및 인간 발생학 교수인 Alberto Prats와 협력하는 연구 기관이다.

'질내 음악 전파에 대한 태아의 얼굴 표현 반응'이라는 이 연구는 이번 주 British Medical Ultrasound Society(BMUS)의 학술지 Ultrasound[https://www.bmus.org/bmus-journal-and-publications/)]에서 발표됐다.

Institut Marques 보조생식 책임자이자 이번 임상 연구의 수석 연구원이며 저자인 Dr. Marisa Lopez-Teijon은 "태아가 산모의 질을 통해 전달되는 음악을 듣는 방식을 발견했다"며, "태아는 산모의 배를 통해 전달되는 소리를 거의 듣지 못한다. 배에 있는 연조직과 산모의 몸통이 음파

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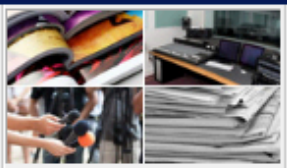
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パティシエ エス コヤマ

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「パティシエ エス コヤマ」（兵庫県三田市）オーナーシェフ 小山 進は、2015年10月28日（水）から11月1日（日）にフランス・パリで開催される世界最大のチョコレートの祭典「SALON DU C...

カテゴリ：製品について 食品／飲料 全国 近畿 兵庫県　2015-10-14 17:00

タカラトミー

手のひらサイズの本格ドリフトＲＣ「ドリフトパッケージ ナノ」１０月３１日（土）新発売！

株式会社タカラトミーは、手のひらサイズの本格ドリフトＲＣ「ドリフトパッケージ ナノ」を、２０１５年１０月３１日（土）から発売致します。

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2015年10月08日 08:39 唐主桂／綜合報導

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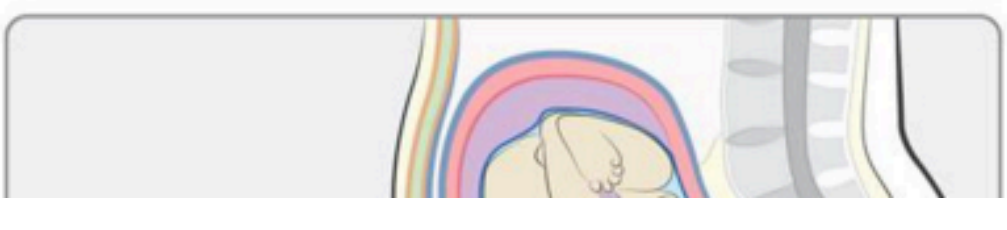
實驗中，胎兒聽到音樂後，張嘴吐舌頭的比例從正常的10%上升至50%。(截自Institut Marques影片)



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