

From: [REDACTED] <[REDACTED]>

To: "jeffrey E." <jeevacation@gmail.com>

Subject: Re: Watch What Happens to Your Brain When The Heart Pumps Blood

Date: Fri, 17 Aug 2018 14:34:40 +0000

Positional perfusion and effect on cerebral function

I like it

I've not seen any studies

I don't have a research lab but — am part of the neurosurgery gig here that is being launched soon. Can try

My two contributions:

1. I started a clot bank = store all arterial clots we retrieve from brain and my buddies send me the clots they retrieve extracranial.

Pretty fun. From world bank to clot bank.

2. The autologous mitochondrial stuff is working. All mouse research being done at UVA but it's my ideas and work. We are doing in ischemia but my long play is to do for Alzheimer (not vascular transplant but retrograde axonal)

On Aug 17, 2018, at 8:26 AM, jeffrey E. <jeevacation@gmail.com> wrote:

i suggest with different blood flows to each side dependent on right or left down , try it . diffrent thoughts , and most fmri has been done ONLY face up

On Fri, Aug 17, 2018 at 10:22 AM, [REDACTED] <[REDACTED]> wrote:

Interesting

Well watching blood flow as I do every day maybe it does - when we look at preop perfusion imaging you can definitely see regional differences in median transit times depending on the vessel

But the important structures that keep things going are all midline structures with bilateral perfusion so for good reason

You may see lateralization and more blood flow to bigger structures but not sure they matter in a resting state.

Did a super cool case very very rare the other day

You have these nuclei in your brain stem called the inferior colliculi - they are responsible for muting all of your internal sounds so you don't go crazy. Imagine hearing yourself chew and swallow and the air passing down your nasopharynx etc etc.

Usually if you infarct the blood supply to this area you infarct your brain stem and die. It's nearly impossible to selectively lesion this/these nuclei however if one of the tiny vessels has an aneurysm nearby and we have to sacrifice it

So it's a careful Discussion with the patients because even though we save their lives potentially it might drive them crazy to hear everything all the time if we unmute their internal mute. Super super super rare. But

cool anatomy.

On Aug 17, 2018, at 7:46 AM, jeffrey E. <jeevacation@gmail.com> wrote:

curious to see if laying on the side has an effect and not face up

On Fri, Aug 17, 2018 at 9:33 AM, [REDACTED] <[REDACTED]> wrote:
They are?

Doesn't matter bc the images are acquired in full volume

On Aug 16, 2018, at 11:13 PM, jeffrey E. <jeevacation@gmail.com> wrote:

id like to see it if the person is in profile facing right and or left.

On Fri, Aug 17, 2018 at 1:07 AM, [REDACTED] <[REDACTED]> wrote:
Watch short video imbedded

Cool

MRI science now aMRI

https://www-sciencealert-com.cdn.ampproject.org/v/s/www.sciencealert.com/phase-based-amplified-magnetic-resonance-imaging-brain-pulse-heartbeat/amp?amp_js_v=0.1&usqp=mq331AQGCAEoATgA#origin=https%3A%2F%2Fwww.google.com&prerenderSize=1&visiblityState=visible&paddingTop=54&p2r=0&horizontalScrolling=0&csi=1&aoh=15344822496179&viewerUrl=https%3A%2F%2Fwww.google.com%2Famp%2Fs%2Fwww.sciencealert.com%2Fphase-based-amplified-magnetic-resonance-imaging-brain-pulse-heartbeat%2F&history=1&storage=1&cid=1&cap=swipe%2CnavigateTo%2Ccid%2Cfragment%2CreplaceUrl

Watch What Happens to Your Brain When The Heart Pumps Blood

The brain of the Chiari patient showed significantly more movement in two locations compared to the healthy control.

"Better visualisation and understanding of the biomechanical properties of the brain could lead to earlier detection and monitoring of brain disorders," [says one of the team, mechanical engineer Mehmet Kurt](#) of Stevens Institute of Technology.

The researchers plan to use phase-based aMRI in clinical settings on patients with a wide range of conditions and structural brain abnormalities, to observe the different ways the brain moves in those cases.

The research has been published in the journal [*Magnetic Resonance in Medicine*](#).

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