



Gene Therapy: Study finds mRNA COVID Vaccines enter liver and then alter DNA

Description



A Swedish study has demonstrated and confirmed that the mRNA in the Pfizer/BioNTech Covid injections infiltrates cells and transcribes its message onto human DNA within 6 hours, altering our own DNA.

The findings come after a previous [study published in October 2021](#) from Sweden found the spike protein enters our cells nuclei and impairs the mechanism cells have to repair damaged DNA.

The Highwire made an easy-to-understand video explaining the previous study, including graphics, and so it is a good starting point to help understand the significance of the latest study from Sweden.

Earlier Studies

Preclinical animal studies of the Pfizer/BioNTech Covid mRNA injection (BNT162b2) showed reversible effects on the livers of rats including: enlarged liver, vacuolation and increased enzyme levels (?GT, AST, ALP). In [the assessment report on BNT162b2 provided to EMA](#) by Pfizer, studies in rats demonstrated that the contents do not stay at the injection site and a relatively large proportion (up to 18%) of the total "vaccine" dose ends up in the liver.

Another [study in May 2021 by MIT scientists showed](#) that SARS-CoV-2 RNA can be reverse transcribed and integrated into the genome of human cells and expressed as chimeric transcripts. Although no one from corporate media or corporate science seemed to ask at the time, the findings of this study give rise to the question of whether this same reverse transcription may also occur with RNA in Covid injections.

ABC 10 News reported on the MIT study shortly after it was published.

ABC 10 News: Study suggests Covid-19 can alter DNA, 13 May 2021 (3 mins)

What is Reverse Transcription?

Pictures speak a thousand words and so rather than try to write an explanation we found a video which introduces the mechanism of reverse transcription of HIV, a retrovirus. It may be a little dated and overly simplistic but it illustrates how HIV infects a cell and replicates itself using reverse transcriptase and the host's cellular machinery.

HHMI BioInteractive: HIV Life Cycle, 5 October 2016 (5 mins)

The First Study of Reverse Transcription of Injection Spike Proteins

Because of the findings of the animal studies and the MIT study, a group of Swedish scientists from Lund University conducted a study to investigate the effect the Pfizer/BioNTech injection (BNT162b2) had on human liver cells and if Pfizer's encoded spike protein RNA can be reverse transcribed into DNA. The study, '[Intracellular Reverse Transcription of Pfizer BioNTech COVID-19 mRNA Vaccine BNT162b2 In Vitro in Human Liver Cell Line](#)', was published on 25 February 2022.

"In this study, we investigated the effect of BNT162b2 on the human liver cell line Huh7 in vitro," the study authors wrote.

The study found that the mRNA injection is able to enter the human liver cell line Huh7 and that the injections' mRNA is reverse transcribed into DNA as fast as six hours after the cells were exposed to it.

"A possible mechanism for reverse transcription is through endogenous [intracellular] reverse transcriptase LINE-1, and the nucleus protein distribution of LINE-1 is elevated by BNT162b2," the study authors wrote.

"Huh cells are 'immortal' liver tumour cells and grow ad-infinitum if you give them love," Jessica Rose explained, "LINE-1 is a reverse transcriptase that we carry and comprises ~17% of our genome!"

"Our study shows that [Pfizer's mRNA injection] ... can be reverse transcribed to DNA ... and this may give rise to the concern if [injection]-derived DNA may be integrated into the host genome and affect the integrity of genomic DNA, which may potentially mediate genotoxic side effects."

In the BNT162b2 toxicity report, no genotoxicity nor carcinogenicity studies have been provided [26]. Our study shows that BNT162b2 can be reverse transcribed to DNA in liver cell line Huh7, and this may give rise to the concern if BNT162b2-derived DNA may be integrated into the host genome and affect the integrity of genomic DNA, which may potentially mediate genotoxic side effects. At this stage, we do not know if DNA reverse transcribed from BNT162b2 is integrated into the cell genome. Further studies are needed to demonstrate the effect of BNT162b2 on genomic integrity, including whole genome sequencing of cells exposed to BNT162b2, as well as tissues from human subjects who received BNT162b2 vaccination.

[Intracellular Reverse Transcription of Pfizer BioNTech COVID-19 mRNA Vaccine BNT162b2 In Vitro in Human Liver Cell Line](#), Discussion section, Alden et al, Lund University, Sweden, 25 February 2022

In the video below, Dr. Mobeen Syed, host of Dr. Been, explains this study in layman's terms. We

have embedded the video to begin at timestamp 8:17 where he begins to explain, over the next 9 mins, reverse transcription, Huh7 cells, LINE-1 gene expression, LINE-1 protein and what this all means.**

DrBeen Medical Lectures: Pfizer Vaccine Becomes DNA in Liver Cells. (In-vitro Swedish Study), 26 February 2022 (26 mins)

The paper concludes: “Our study is the first in vitro study on the effect of Covid-19 mRNA vaccine BNT162b2 on human liver cell line. We present evidence on fast entry of BNT162b2 into the cells and subsequent intracellular reverse transcription of BNT162b2 mRNA into DNA.”

Referring to the study Dr. Peter McCullough tweeted: “Alden et al, Lund University, Sweden, confirms one of our worst fears. The exogenous [extracellular] genetic material coding for the dangerous Spike Protein is reverse transcribed into the human genome; possible long-term constitutive expression / synthesis of disease-promoting / lethal Spike.”

Was This the Plan All Along?

To answer the question whether this has been planned, below is a selection of excerpts from infamous individuals regarding gene editing, in their own words. No further comment is required, these excerpts speak for themselves, you decide.

In an interview with Charlie Rose, Klaus Schwab said: “You see the difference of this fourth industrial revolution is it doesn’t change what you are doing, it changes you. If you take genetic editing, just as an example, it’s you who are changing. And of course, this has a big impact on your identity.”

Klaus Schwab on the Charlie Rose Show, 2015 (2 mins)

Tal Zaks, chief medical officer of Moderna, stated, “In every cell there’s this thing called messenger RNA or mRNA for short, that transmits the critical information from the DNA in our genes to the protein, which is really the stuff we’re all made out of. This is the critical information that determines what the cell will do. So, we think about it as an operating system. So, if you could actually change that, ... if you could introduce a line of code, or change a line of code, it turns out, that has profound implications for everything, from the flu to cancer.”

TEDxBeaconStreet: Rewriting the Genetic Code: A Cancer Cure in the Making, Tal Zaks, 8 December 2017 (10 mins)

During an interview with Anthony Fauci on 30 April 2020, Bill Gates said he was particularly excited about pursuing a new approach called ‘RNA vaccine’. Gates explained, “Unlike a flu shot, which contains fragments of the influenza virus so your immune system can learn to attack them, an RNA vaccine gives your body the genetic code needed to produce viral fragments on its own.”

Around this time Gates made a promotional video for his “RNA vaccines.”

Welt: [Bill Gates explains Covid-19 and the race for a vaccine](#), 4 May 2020 (2 mins)

Forbes published an article on 29 November 2021 from Steven Salzberg titled, “Yes, The Vaccine

Changes Your DNA. A Tiny Bit. That's A Good Thing." And later retitled the article to "Covid Vaccines Don't Alter Your DNA – They Help Choose Cells to Strengthen Your Immune Response".

The author changed the headline to emphasise that the vaccines "don't alter your DNA" without changing any of the article's content.

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