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## Pfizer COVID Vaccine Reduces Sperm Quality — But for How Long?

*The authors of a study showing Pfizer's COVID-19 vaccine reduces sperm quality concluded the reduction was temporary, but others who examined the data behind the study questioned that assertion.*

By [Julie Comber, Ph.D.](#)

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Pfizer's [COVID-19](#) vaccine reduces sperm quality — including sperm concentration and total motility count (the total number of moving sperm in a sample) — according to a [peer-reviewed study](#) published June 17 in the journal *Andrology*.

The authors of the study concluded the negative effect of the Pfizer vaccine on sperm quality was temporary. However, some people who examined the data behind the study questioned that conclusion.

The authors of the *Andrology* study set out to investigate whether vaccination with Pfizer's mRNA shot affects sperm quality partly because studies have [reported](#) that SARS-CoV-2 interacts with angiotensin-converting enzyme 2 (ACE2) receptors to enter host cells — and testicular cells (Sertoli, Leydig, spermatozoa, and spermatogonia) [have ACE2 receptors](#).

[Pfizer's preclinical data](#) from animal studies also showed small amounts of the Pfizer mRNA vaccine end up in the ovaries and testes after injection.

The researchers conducted the retrospective longitudinal multicenter study at three sperm banks in Israel. Thirty-seven sperm donors provided 220 semen samples.

The study participants had received two doses of the Pfizer-BioNTech (BNT162b2) vaccine, were negative for SARS-CoV-2 based on PCR or serological tests and did not have any symptoms of SARS-CoV-2 infection.

One or more samples were obtained at the following time points: T0 = the baseline, before vaccination; T1 = 15-45 days after vaccination; T2 = 75-150 days after vaccination; T3 = 150 days or more after vaccination.

The authors measured the volume of the semen sample, the sperm concentration in the sample, sperm motility and the total motile count. The [total motile count](#) refers to the total number of moving sperm in the sample.

The authors found no significant change in the above parameters between T1 and T0 (baseline).

At T2 (75 to 150 days after vaccination), sperm concentration was significantly lower due to a decrease of -15.4% compared to T0. The total motile count was also reduced by 22.1%, significantly lower compared to T0.

“Although concentration and TMC [total motile count] were reduced also on T3, these values did not reach statistical significance (table 2).”

### **Not everyone who examined the data agreed with study's conclusions**

The researchers wrote that the impact of Pfizer's mRNA shot on sperm concentration and total motile count was temporary and that it was statistically significant only at T2, 75 to 150 days after vaccination, at which point the sperm quality recovered.

But others who examined the data questioned the authors' assertions.

[Writing on Substack](#), journalist [Alex Berenson](#) argued “a five-month decrease hardly qualifies as temporary for someone trying to start a family.”

More troubling, Berenson and [other writers](#) said, the paper's data may not support the researcher's assertion that sperm concentration and total motile count returned to normal after five months.

“In fact,” wrote Berenson, “by some measures, levels continued to decline.”

The key table from the study is Table 2, below.

Accepted A

Table 2: Percentage and absolute change<sup>1</sup> compared to T0 as reference measured by repeated measures analysis (total samples)

		Change <sup>1</sup>		95%CI	p-value
Semen volume	T0 <sup>2</sup>	Ref			
	T1	10%	-3.9%	25.8%	
	T2	-4.5%	-14.7%	7%	0.214
	T3	9%	-6.3%	26.8%	
Sperm concentration	T0	Ref			
	T1	-14.5%	-27.9%	1.4%	
	<b>T2</b>	<b>-15.4%</b>	<b>-25.5%</b>	<b>-3.9%</b>	<b>0.044</b>
	T3	-15.9%	-30.3%	1.7%	
Sperm motility	T0	Ref			
	T1	2.7	-1	6.6	
	T2	-1.9	-4.9	1.7	0.058
	T3	-4.1	-8.2	0.1	
Total Motile Count	T0	Ref			
	T1	-2%	-19.9%	20.1%	
	<b>T2</b>	<b>-22.1%</b>	<b>-35%</b>	<b>-6.6%</b>	<b>0.027</b>
	T3	-19.4%	-35.4%	0.6%	

<sup>1</sup> Volume, concentration, and TMC are presented as *percentage* change compared to T0 while motility change is presented as *absolute* change.

<sup>2</sup>T0 – pre-vaccination baseline control; T1, T2, and T3 – short, intermediate, and long-term evaluations after 15-45, 75-150, and over 150 days after vaccination date, respectively.

As previously mentioned, at T2 (75-150 days post vaccination), sperm concentration and total motile count are both down. The authors considered a [p-value](#) of less than 0.05 to be statistically significant and bolded the table entries for sperm concentration and total motile count at T2.

Looking at T3 (at least 150 days post vaccination), we see sperm concentration goes down a bit further to 15.9% compared to T0, and total mobile count is -19.4% — not much better than -22.1% at T2.

The p-values are not given, and the [authors write](#), “Although concentration and TMC [total mobile count] were reduced also on T3, these values did not reach statistical significance.”

However, these numbers hardly show the “recovery” to normal sperm parameters that the researchers claim. This may warrant requesting the original data, and the p-values for the T3 entries.

In addition, T3 was the last sampling time, at least 150 days (5 months) post vaccination, with the average sample taken 175 days after vaccination, plus or minus 27 days.

So the longest time between vaccination and sampling was 202 days, just under 7 months. What happens more than 7 months later?

The change in sperm motility was presented as an absolute change from T0, and was down at T2, but just above the authors’ cutoff for significance. It is even further down at T3, but presumably this also did not reach statistical significance, since no p-value is reported.

Rather than acknowledging this, [Berenson wrote](#), “The authors offered the best possible spin on their data, while at the same time publishing the figures themselves near the end of the paper so that other researchers could see the reality for themselves.”

[Ran Israeli](#) on Twitter, and [Berenson](#) and [bad cattitude](#) on Substack, pointed out the researchers focused on the median instead of the average.

The average is calculated by adding up all the values, then dividing by the total number of values. The [median is calculated](#) by taking the “middle” value, the value for which half of the values are larger and half are smaller.

Seems like the authors took advantage of the Median vs Average differences to suggest that everything was fine 150 days after vaccination.

Is it really so?

Median disadvantages:

“Median is not affected by very large/very small values.”

We need more data!<https://t.co/heIBOkO00F> [pic.twitter.com/5rjPmjFuUC](https://pic.twitter.com/5rjPmjFuUC)

— Ran Israeli (@RanIsraeli) [June 19, 2022](#)

[According to Berenson](#):

“Both the median and the average can be valuable statistics. Using the median rather than the average will hide extreme outliers.

“In this case, the fact that the average fell much more than the median is a sign that some of the men probably had near-zero sperm counts in both the second and third time periods — and that fact is arguably more important than the median change.”

To explain why this matters, particularly when it comes to the total motility count of sperm, [bad cattitude](#) used this example: If 10 people have a total motility count of 10, then the average is 10 and so is the median.

“The two are interchangeable in a homogeneous population.”

But if one person’s sperm count drops to zero — an important outlier — then the average is 9, but the median stays the same: 10.

If another person’s total motility count drops to zero, the average is now 8 (a 20% drop), but the median is still 10. We can see how the median can give a different picture than the average.

[Berenson](#) and [bad cattitude](#) both pointed out that it seems common these days for researchers with findings that could raise concerns about the mRNA shots to tone down their findings in order to get published.

Berenson said this tactic “is likely a response to the overwhelming political pressure to hide the deepening crisis around the safety and efficacy of shots that governments have given to over a billion people worldwide.”

These authors of the study in *Andrology* went a step further, [writing about](#) the “dramatic phenomenon of fake news” spreading in societies and countries.

They concluded: "Since misinformation about health-related subjects represents a [public health threat](#), our findings should support vaccination programs."

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### **Julie Comber, Ph.D.**

Julie Comber is a freelance science reporter for The Defender.

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**Beatrice** • 4 days ago

Should we be expecting Bill Gates and his artificially intelligent sperm to repopulate the world according to ' their' transhuman standards?

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**Joe Kosugi** • 4 days ago

“Five Months” is damage control as another powerful study shows a horrendous side effect, and one that vax bio distribution studies(particularly the one from Japan which a FOIA request brought out) strongly suggested would happen. The spike proteins and lipid nano particles move all around the body, they do not remain in the deltoid. They can be found in significant quantities in testes and ovaries. The immune system then attacks the spike proteins and LNP’s, which are in the ovaries and testes. That destroys healthy tissue. Sperm will be effected; and watch for future massive increases in testicular and ovarian cancers. Dr Peter McCollough talked about this over a year ago, as did Dr Charles Hoffee.

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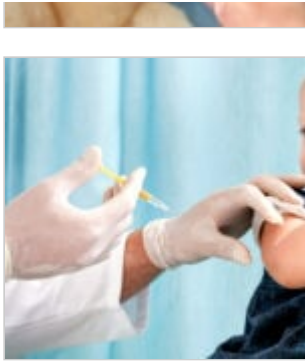
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