



For viruses a microscope, for germs self-reflection

Coffee Beans

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When we read the article "He examines covid on Fico's behalf. Dug up his microscope and calls for a ban on vaccines" [1], the older one of us remembered that in the 1960s there was a large sign on the wall under the small stairs in Albertov (a district in Prague), painted in lime, which read "On germs with self-reflection". The sign had political overtones, of course, and the Slovak purchase of a microscope for the study of vaccines against Covid-19 also has political overtones. The microscope bought by Boris Kotlar, the Slovak Commissioner for the investigation of the pandemic, isn't suitable today for the analysis of the side effects of vaccines and the study of micro-organisms. It is sad that the citizens of Slovakia are being subjected to harsh misinformation.

Boris Kotlár refers to very well-known critics of the vaccination strategy and crisis measures during the Covid-19 pandemic caused by the SARS-CoV-2 virus. He cites Dr Richard M. Fleming, an American cardiologist who introduces himself on his account on the social network X as a 'physicist, nuclear and preventive cardiologist, lawyer, biologist, chemist and psychologist'. However, he is better known as a disinformant [2].

Others to whom Boris Kotlar refers are Dr Sucharit Bhakdi, a German microbiologist of Thai origin, who considers the Covid-19 pandemic to be a 'fake' [3], Robert W. Malone, who has questioned the safety and efficacy of anti-Covid vaccines [4], and our colleagues Prof. Jaroslav Turánek [5], Prof. Jiří Beran [6] and Dr. Sonia Peková [7], who made critical observations during the pandemic regarding the pandemic itself, crisis measures and the efficacy and safety of vaccines. So, what is the case with the efficacy and safety of anti-viral vaccines and their possible side effects?

Living creatures are not perfect. If this were not the case, living matter would end at the very beginning of its origin, without the possibility of further development. Thus, everything in living matter has alternatives, which are already given by the existence of alleles, i.e. specific forms of genes responsible for a certain trait, or by the occurrence of mutations that lead to a change in a gene and thus to a change in a certain trait.

This "imperfection" enables the multiplicity of living matter and the multiplicity of individuals to respond to external stimuli, be it information, various stressors including psychological pressure (misinformation), injury, infection, drugs, or even an administered vaccine.

This broader introduction is necessary to understand why some people have different problems after receiving vaccines. This is due to their genetic background, their general medical history and also their memory of natural and adaptive immunity, which has been shaped by previous contacts with microorganisms and other substances of different antigenic composition.

This is why people react differently not only to vaccines but also to different drugs. If you open the "package information" of any drug, notice that the drug has "possible side effects". These are divided into 'very common' if they occur in more than one in ten patients, 'common' if they occur in 1 in 10 patients, 'uncommon' if they affect one in 100 patients and 'rare side effects' if they affect one in a thousand patients.

This is because all drugs, and of course vaccines, are, generally speaking, foreign to the body and the body has to react to them. React according to how individual organism is "set up". That is why, in drug research, both positive and negative effects are always evaluated, both must be properly declared, and those drugs and vaccines are then used. This has an undeniable effect with negligible risk. It is therefore quite logical that there are cases of health complications following the administration of vaccines, some more, others less. This is also true for Covid-19 vaccines.

The most common real or suspected side effects reported with Covid-19 vaccines include fatigue, mild swelling at the injection site, muscle and joint pain, fever and diarrhea. Five different Covid-19 vaccines have been approved in the European Union. Several billion doses of these vaccines have been administered in Europe. With such a large number of vaccine administrations, it is clear that side effects are being reported. In 2022, the numbers presented in the attached table [9] were presented.

Vaccine / brand	Imunogen	Vaccines applied	Known side effects	%
Comirnaty / Pfizer and BioNTech	mRNA vaccine (modified Nucleosid)	545 000 000	522 530	0,096
Spikevax / Moderna	mRNA-1273	103 000 000	124 410	0,121
Vaxverzia /Astra Zeneca	Vector vaccine (ChAdOx1)	69 000 000	231 326	0,335
Janssen / Janssen-Cilag	Vector vaccine (Ad26)	19 000 000	35 027	0,184
Nuvaxovid / Novavax	Protein vaccine	45000*	More than 1-10	10*

Note: The numbers reported for Nuvaxovid vaccine are from two studies listed at: <https://sukl.gov.cz/media/tiskove-zpravy/ema-doporucila-k-registraci-nuvaxovid-vakcinu-proti-covid-19/>

For these health complications, Israeli clinical immunologist Yehuda Shoenfeld and his colleague Agmon-Levin (*1948) coined the term ASIA, which stands for autoimmune/inflammatory syndrome induced by adjuvants [10]. The authors do not consider adjuvants to be only adjuvants in vaccines, but also other foreign substances artificially injected into the body. It is believed that the occurrence of ASIA syndrome is related to the genetic predisposition of the individual (with HLA-DRB1*01 or HLA-DRB4 alleles) and is the result of the interaction of external and endogenous factors that trigger autoimmune phenomena [11].

It is therefore perfectly in line with nature that negative reactions to both drugs and vaccines occur. But it must always be stated that vaccines, and indeed medicines, have saved orders of magnitude more people than they have caused reversible or irreversible damage to health.

I don't know that I was saved by a vaccine and I won't tell anyone, if I had an adverse reaction to a vaccine, and I would know about it, I would certainly tell someone. That is just the principle when information about adverse effects spreads quickly and is subsequently a source of misinformation.

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