

September 6, 2024

Food and Drug Administration 5630 Fishers Lane, Rm. 1061 Rockville, MD 20852

Re: Addressing Misinformation About Medical Devices and Prescription Drugs: Questions and Answers

Dear Sir or Madam,

On behalf of the Alliance for mRNA Medicines (<u>mrnamedicines.org</u>), we are pleased to submit comments on FDA's revised draft guidance on "Addressing Misinformation About Medical Devices and Prescription Drugs."¹ We agree with FDA that "Misinformation about or related to a firm's approved/cleared medical product can cause harm to both individuals and the public health in general." We appreciate FDA's recognition of the new challenges companies face in combatting misinformation and believe that revising this draft guidance is an important step forward.

About AMM:

The Alliance for mRNA Medicines (AMM) is an organization dedicated to advancing and advocating for mRNA and next-generation encoding RNA therapeutics and vaccines for the benefit of patients, public health, and society. Our mission is to propel the future of mRNA medicine, improve patients' lives, and advance scientific knowledge by convening and empowering mRNA industry leaders, innovators, scientists, and other key stakeholders.

AMM officially launched in November 2023 and has become the leading voice of the mRNA community, representing more than 60 members from North America, Europe, Asia, and Oceania. Our members demonstrate the diversity of the mRNA community, which includes biotechnology companies, pharmaceutical companies, academic institutions, service providers, contract development, and manufacturing organizations (CDMOs), all of whom are working to serve the patients who have and will benefit from mRNA vaccines and therapeutics.

The Promise of mRNA Technology:

We know that FDA is quite familiar with the role that mRNA played in the response to COVID-19, with millions of Americans having received at least one dose of a COVID-19 vaccine. While the first mRNA vaccines for COVID-19 were issued an Emergency Use Authorization in 2020, this was preceded by more than 25 years of research about how to use RNA.

The amazing story of mRNA's role in the COVID-19 response paved the way for mRNA to be used in other vaccines and treatments. We are only at the beginning of the benefit mRNA technologies will deliver to patients and public health through the revolution in vaccine development and future treatments for cancer, rare diseases, and other areas of unmet medical

¹ <u>https://www.fda.gov/regulatory-information/search-fda-guidance-documents/addressing-misinformation-about-medical-devices-and-prescription-drugs-questions-and-answers</u>



needs. The technology's agility and flexibility make it well suited for many potential applications, but misinformation about how mRNA works and potential side effects represent a significant challenge to researchers and industry and a threat to patients and public health.

Why Misinformation is a threat:

A 2022 study published in Scientific Reports discovered that among their sample group of 500 American adults, 57.6 percent reported being exposed to conspiratorial misinformation such as COVID-19 vaccines are harmful and dangerous. This same study also found "exposure to misinformation and believing it as true could increase vaccine hesitancy and reduce behavioral intention to get vaccinated" using mRNA vaccines.²

In addition, AMM conducted its own qualitative review of news coverage of mRNA, which is attached as an appendix to this letter. Our review found that while the sentiment around mRNA is largely neutral (74 percent) or positive (12 percent), 14 percent is negative. Additionally, media coverage of mRNA is most often associated with the keyword "vaccine" but is also associated with terms that indicate the possibility of misinformation about mRNA, including "magnetic," "autism," "microchip," "infertile," "alter DNA," and "5G."³

Vaccines were the dominate factor in combating the COVID-19 pandemic and allowed our society to reach a level of normalcy that seemed distant in March 2020. AMM applauds FDA for updating this draft guidance on Combating Misinformation as our community needs to increase the public's awareness of the benefits of vaccines.

AMM is also concerned misinformation could negatively impact the future development of other mRNA therapies. Investors and innovators may be reluctant to invest as heavily in mRNA technology and products if they are concerned misinformation about the technology has become pervasive. Having language such as FDA provides in the Combating Misinformation draft guidance will be valuable to AMM member firms and the broader AMM community. FDA-approved methods to combat misinformation will greatly improve the ability of these firms to educate the broader public, and so AMM applauds FDA for including example language in the draft guidance.

AMM Supports Empowering Firms to Combat Misinformation:

As mentioned above, AMM represents more than 60 members from North America, Europe, Asia, and Oceania in sectors such as biotech firms, academic institutions, and pharmaceutical companies. Unfortunately, misinformation about mRNA technologies in medicine is ubiquitous. As information is increasingly shared, discussed, and evaluated on social media at a lightning pace, the mRNA community has found themselves needing to focus resources on explaining their technology is beneficial, in addition to developing and improving their vaccines and therapies for patients. With so much misinformation swirling around on social media, our members and the broader mRNA community can sometimes feel overwhelmed. By updating this draft guidance with examples of how firms can push back on social media misinformation regarding their products and technologies, FDA is providing a valuable service to our members'

² Lee, S.K., Sun, J., Jang, S. *et al.* Misinformation of COVID-19 vaccines and vaccine hesitancy. *Sci Rep* 12, 13681 (2022). https://doi.org/10.1038/s41598-022-17430-6

³ AMM media analysis. Mar 1, 2020 to May 13, 2024.

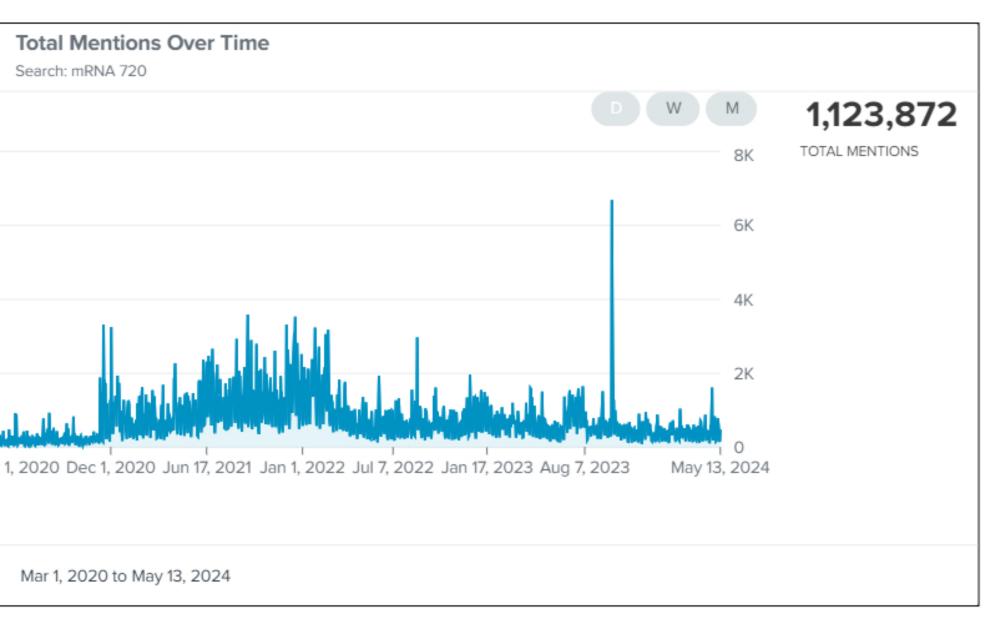


efforts to improve patients' lives. Even our members outside of the U.S. applaud the examples and framework outlined in the guidance. While these firms are not bound by FDA regulations in their home countries, they eagerly look to FDA in matters like combating misinformation.

We appreciate FDA prioritizing updating this draft guidance and look forward to seeing it finalized. If you have any questions or would like to discuss this further, please contact Clay Alspach at <u>Clay.Alspach@Leavittpartners.com</u> or Sara Singleton at <u>Sara.Singleton@Leavittpartners.com</u>.

Sincerely,

Clay Alspach, Executive Director **Sara Singleton**, Managing Director Alliance for mRNA Medicines

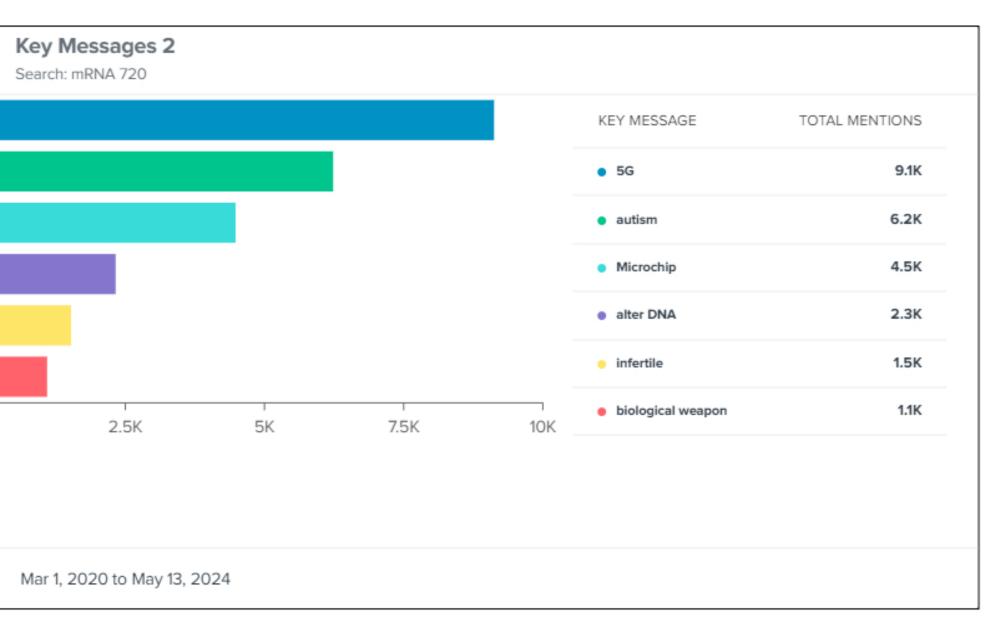




Search: mRNA 720

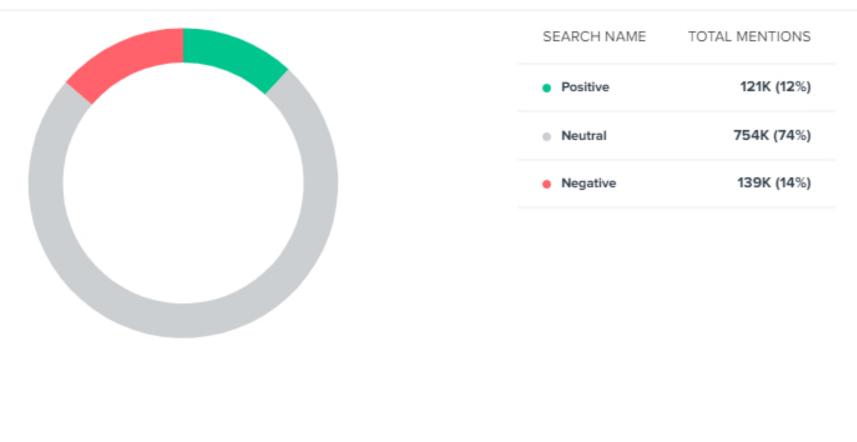
00010111111010720			
		MEDIA TYPE	AD EQUIVALENCY
		Total	\$10.61B
		Online News and Licensed Content	\$10.56B
		 Blogs 	\$50.12M
3B 6B 9	B 12B		
Mar 1, 2020 to May 13, 2024			





Sentiment

Search: mRNA 720



Mar 1, 2020 to May 13, 2024

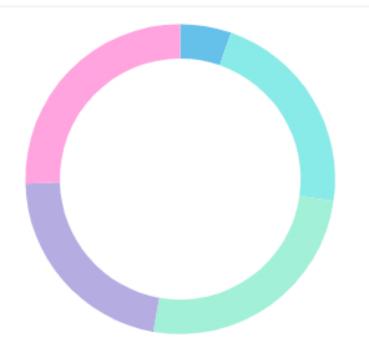
Highest Readership Search: mRNA 720 Johnson & Johnson's COVID-19 Vaccine 517M Jadakiss to Voice COVID-19 Safety 517M Δ Feb 4 · Yahoo! Jan 29 · Yahoo! The CDC Just Quietly Gave You Pe 517M 'I'm a Breastfeeding Mom And An 517M 5 Jan 22 · Yahoo! Jan 29 · Yahoo! China pushes conspiracy theories We Broke Down the Differences Betwee 517M 517M 6 Jan 25 • Yahoo! Jan 29 · Yahoo! Þ.

Mar 1, 2020 to May 13, 2024

Aggregate Readership Search: mRNA 720 MEDIA TYPE TOTAL READERSHIP 54.19B Total 53.17B Online News and Licensed Content Blogs 1B 15B 30B 45B 60B Apr 14, 2024 to May 14, 2024

Domain Authority

Search: mRNA 720



DOMAIN AUTHORITY TOTAL MENTIONS		
• 40-59	3K (26%)	
81-100	3K (25%)	
• 20-39	2.6K (22%)	
60-80	2.5K (22%)	
• 1-19	624 (5%)	

Apr 14, 2024 to May 14, 2024



Word Cloud

Search: mRNA 720

genetic material initial evidence emergency use authorization human cells spike protein mRNA-based vaccines emergency use effective vaccine biotech company Moderna mRNA vaccines coronavirus vaccine infectious diseases safety concerns mRNA vaccines weakened forms Moderna vaccines immune system actual virus clinical study Conventional vaccines enough doses vaccine candidate adverse events immune response interim analysis immune responses age groups genetic code rapid solution fully vaccinated 19 vaccine candidate Moderna vaccine prior evidence severe disease coronavirus vaccines pharmaceutical giant biotechnology company enough shots

Aug 1, 2020 to Aug 1, 2021