



Far and away the most common question I get from those who took one of the COVID-

19 vaccines is: "how do I get this out of my body." The mRNA and adenoviral DNA

By Peter A. McCullough, MD, MPH

products were rolled out with no idea on how or when the body would ever breakdown the genetic code. The synthetic mRNA carried on lipid nanoparticles appears to be resistant to breakdown by human ribonucleases by design so the product would be long-lasting and produce the protein product of interest for a considerable time period. This would be an advantage for a normal human protein being replaced in a rare genetic deficiency state (e.g. alpha galactosidase in Fabry's disease). However, it is a big problem when the protein is the pathogenic SARS-CoV-2 Spike. The adenoviral DNA (Janssen) should broken down by deoxyribonuclease, however this has not be exhaustively studied.

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This leaves dissolution of Spike protein as a therapeutic goal for the vaccine injured. With the respiratory infection, Spike is processed and activated by cellular proteases

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is believed to be driven by accumulation of Spike protein in cells, tissues, and organs. Nattokinase is an enzyme is produced by fermenting soybeans with bacteria Bacillus subtilis var. natto and has been available as an oral supplement. It degrades fibrinogen, factor VII, cytokines, and factor VIII and has been studied for its cardiovascular benefits. Out of all the available therapies I have used in my practice and among all the proposed detoxification agents, I believe nattokinase and related peptides hold the greatest promise for patients at this time.

Tanikawa et al examined the effect of nattokinase on the Spike protein of SARS-CoV-2.

In the first experiment they demonstrated that Spike was degraded in a time and dose

dependent manner in a cell lysate preparation that could be analogous to a vaccine

recipient. The second experiment demonstrated that nattokinase degraded the Spike

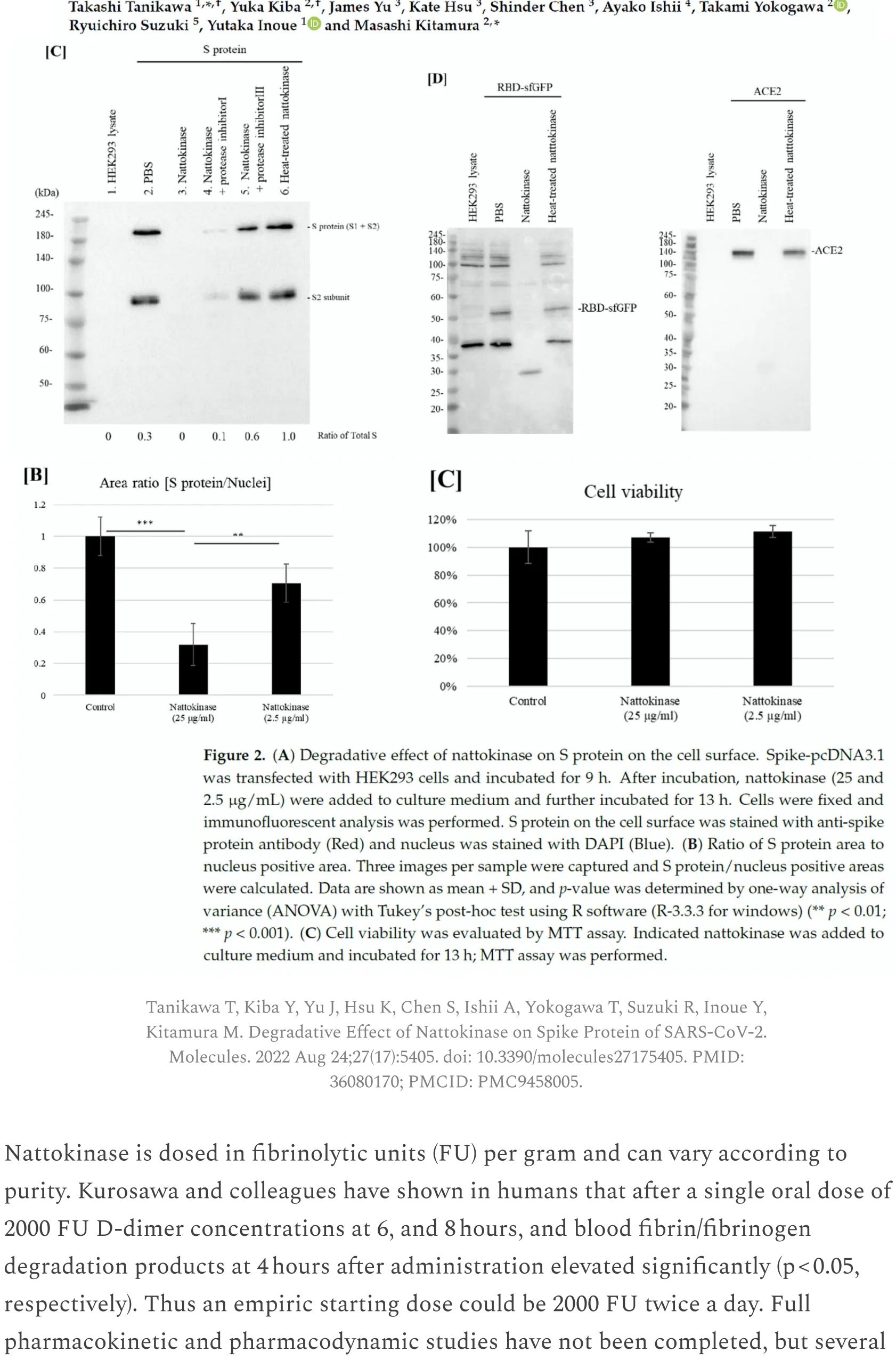
protein in SARS-CoV-2 infected cells. This reproduced a similar study done by Oba and

including transmembrane serine protein 2 (TMPRSS2), cathepsin, and furin. With

vaccination, these systems may be avoided by systemic administration and production

of Spike protein within cells. As a result, the pathogenesis of vaccine injury syndromes

colleagues in 2021. molecules MDPI Citation: Tanikawa, T.; Kiba, Y.; Yu, J.; Hsu, K.; Chen, S.; Ishii, A.; Yokogawa, Article T.; Suzuki, R.; Inoue, Y.; Kitamura, M. Degradative Effect of Nattokinase on Spike Protein Degradative Effect of Nattokinase on Spike Protein of SARS-CoV-2. of SARS-CoV-2 Molecules 2022, 27, 5405. https:// doi.org/10.3390/molecules27175405 Takashi Tanikawa ^{1,*,†}, Yuka Kiba ^{2,†}, James Yu ³, Kate Hsu ³, Shinder Chen ³, Ayako Ishii ⁴, Takami Yokogawa ²,



sick now and many believe empiric treatment is justified given sufficiently low risk of side effects and potentially high reward. My recommendation is to discuss this with your doctor or seek a specialist in holistic or naturopathic medicine who is experienced with the safety profile of nattokinase in a range of applications. If you find "Courageous Discourse" enjoyable and useful to your endeavors, please subscribe as a paying or founder member to support our efforts in helping you engage in these discussions with family, friends, and your extended circles. Tanikawa T, Kiba Y, Yu J, Hsu K, Chen S, Ishii A, Yokogawa T, Suzuki R, Inoue Y, Kitamura M. Degradative Effect of Nattokinase on Spike Protein of SARS-CoV-2.

Molecules. 2022 Aug 24;27(17):5405. doi: 10.3390/molecules27175405. PMID: 36080170;

Oba M, Rongduo W, Saito A, Okabayashi T, Yokota T, Yasuoka J, Sato Y, Nishifuji K,

directly inhibits viral infections including SARS-CoV-2 in vitro. Biochem Biophys Res

Wake H, Nibu Y, Mizutani T. Natto extract, a Japanese fermented soybean food,

Commun. 2021 Sep 17;570:21-25. doi: 10.1016/j.bbrc.2021.07.034. Epub 2021 Jul 13.

Kurosawa Y, Nirengi S, Homma T, Esaki K, Ohta M, Clark JF, Hamaoka T. A single-

dose of oral nattokinase potentiates thrombolysis and anti-coagulation profiles. Sci

Rep. 2015 Jun 25;5:11601. doi: 10.1038/srep11601. PMID: 26109079; PMCID:

years of market use as an over-the-counter supplement suggests nattokinase is safe

Based on these findings, nattokinase and similar products such as serrapeptase should

undergo well-funded, accelerated preclinical and clinical development programs. The

issue at hand is the urgency of time, similar to that with SARS-CoV-2 infection and

pharmaceutical profile to characterize the safety and efficacy of nattokinase in the

treatment of vaccine injury and post-COVID syndromes. Large number of people are

with the main caveat being excessive bleeding and cautions with concurrent

empiric early therapy. It will take up to 20 years to have a fully developed

antiplatelet and anticoagulant drugs.

PMCID: PMC9458005.

PMC4479826.

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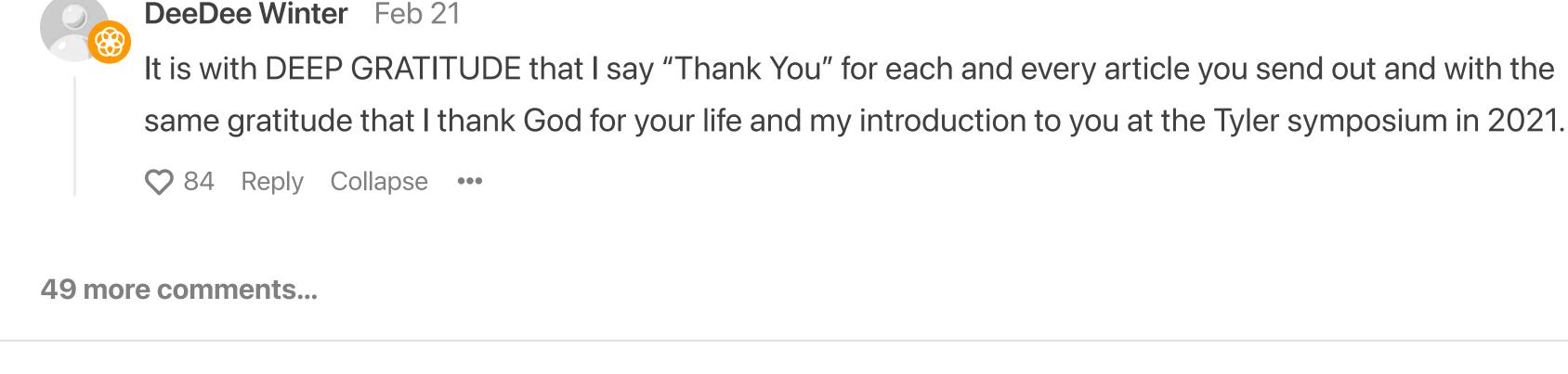
PMID: 34271432; PMCID: PMC8276596.

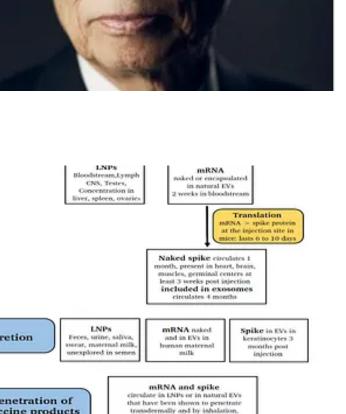
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Colleen Huber NMD Writes The Defeat Of COVID Feb 21 I have asked my covid-vaccinated patients to take nattokinase 2000 units per day, while running these





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begging families) this FDA-approved, Nobel prize winning, wonder drug.

SHAME on the hospital systems that systematically denied patients (and their

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Dietrich Bonhoeffer's theory explains much of contemporary politics and culture.

labs every 3 months: D-dimer, CBC/platelets, fibrinogen, PT/INR. Naturopathic physicians have recommended nattokinase and similar for decades for our cardiovascular patients, and I have never known it to cause new problems. It seems to be generally well-tolerated.

PETER A. MCCULLOUGH, MD, MPHTM JAN 2 7 1,008 2 354 Health of Pure Bloods Threatened by Shedding of mRNA and **Spike Protein** Vaccinated PETER A. MCCULLOUGH, MD, MPHTM NOV 22, 2022 \bigcirc 646 \bigcirc 62 \bigcirc \bigcirc

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