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RE: HB0699 Favorable With Amendments

My name is Heather Hudson, and I live near Gainesville, Florida. I would like to be included in the zoom testimony in support of the above bill and amendments. My Covid-19 mRNA vaccine LNP research and my son's Vaccine injury story were published in 2022 by Dr. Tess Lawrie and in 2023 by the Children's Health Defense Network. I have also co-authored an upcoming book with my son's physician.

My son was 21 when he was hospitalized with a large pulmonary embolism in his left lung after his Pfizer Covid-19 vaccine. He had thrombosis and thrombocytopenia, and due to the pressure on his heart, he developed two leaky valves and more. He developed Antiphospholipid syndrome after his shot, is disabled, and relies on prescriptions to live. His peers have also suffered adverse reactions, blood clots, and heart issues following these injections. Covid-19 vaccine labels have since been amended after Thrombosis & Thrombocytopenia Syndrome (TTS) and Myocarditis were linked to the Covid-19 shots.

Hoping to prevent others from enduring what my son did, and because his lab work revealed that he had a life-threatening reaction to components in the LNP portion of the injection, I got to work studying the LNP shell (platform) of the mRNA shots. I found that the PEGylated lipid component PEG (polyethylene glycol) in the LNP can cause life-threatening reactions that have been known for over twenty years. I also saw that the lipid is often misrepresented as only an allergen to the public and the shareholders of Pfizer and Moderna. It is also listed in the mRNA shots in this way. As a result, many medical professionals don't know that the LNP PEGylated lipid can cause autoimmune reactions (including blood clotting), and anaphylaxis, even in those who are not allergic to PEG. The LNP is not the only issue by far. But I focus on it as these known life-threatening LNPs are used in the current Covid-19 injections and are slated for future injectables, including the childhood schedule vaccines.

Known reduced efficacy & altered biodistribution: Pharmaceutical companies have unsuccessfully attempted to circumvent the PEGylated lipid ABC phenomenon, found in twenty years of peer-reviewed literature, and briefly described: 1. Rapid blood clearance- a second PEGylated LNPs injection is rapidly cleared when given several days after the first dose. 2. Altered biodistribution- adverse effects due to alterations in the biodistribution. 3. Reduced efficacy- repeat dosages weaken the immune system.

Overall, it is a misrepresentation to say the shots would stay in the arm, that the PEGylated lipid is only an allergen, and that the lipid was made safer. These issues are disproven in years of medical history.

As a mother who has seen the devastation that takes place to those who suffer life-threatening adverse events, I wish to inform others about these long-known issues in the LNP shell of the Covid-19 vaccines.

Thank you,

Heather Hudson

Quotes and References:

"The analysis included 11 studies with 58,620,611 subjects in which COVID-19 vaccination correlated with an increased risk of myocarditis or pericarditis. The study showed a greater risk of myocarditis or pericarditis in individuals who received the second dose of COVID-19 vaccine compared with those who only received the first dose of the COVID-19 vaccine [1] [2]."

(This speaks to the "one-two punch" seen in PEG adverse reactions- PEG antibodies triggered by the first dose are said to prime the immune system for increased risk of an adverse event with the second dose).

PEG reactions are not limited to allergies (as is often misspoken in medical literature). Crossover reactions and CARPA (Complement Activation- Response Pseudo Allergy) are possible reactions discussed in more than 20 years of lipid/liposomal drug journal articles and literature [3][4][5][6].

As found Science magazine article in December 2020, "Nevertheless, the companies were aware of the risk. In a stock market prospectus filed on 6 December 2018 [7], Moderna acknowledged the possibility of "reactions to the PEG from some lipids or PEG otherwise associated with the LNP." And in a September paper, BioNTech researchers proposed an alternative to PEG for therapeutic mRNA delivery, noting: "The PEGylation of nanoparticles can also have substantial disadvantages concerning activity and safety." [8] This article includes the PEG concerns of the LNP developers & the Senior VP of BioNTech.

"Recently, unusual cases of (epi-)myocarditis after vaccination with mRNA-based anti-SARS-CoV-2 vaccines have been documented...[9][10]"

1. Jill Murphy, Higher Incidence of Myocarditis, Pericarditis Found After COVID-19 Vaccination November 14, 2022 <https://www.pharmacytimes.com/view/higher-incidence-of-myocarditis-pericarditis-found-after-covid-19-vaccination>
2. Gao J, Feng L, Li Y, et al. A Systematic Review and Meta-analysis of the Association Between SARS-CoV-2 Vaccination and Myocarditis or Pericarditis. September 25, 2022. Accessed November 3, 2022. <https://doi.org/10.1016/j.amepre.2022.09.002>
3. Polyethylene Glycol Immunogenicity: Theoretical, Clinical, and Practical Aspects of Anti-Polyethylene Glycol Antibodies: *ACS Nano*:2021, 15, 9, 14022–14048 Publication Date: September 1, 2021, <https://pubs.acs.org/doi/10.1021/acsnano.1c05922>
4. PEGylated liposomes: immunological responses / Marwa Mohamed,a,b Amr S. Abu Lila,a,c,d Taro Shimizu,a Eman Alaaeldin,b Amal Hussein,b Hatem A. Sarhan,b Janos Szebeni,e,f and Tatsuhiro Ishidaa DOI: [10.1080/14686996.2019.1627174](https://doi.org/10.1080/14686996.2019.1627174)
5. Patkó, Zsófia and Szebeni, János. "Blood cell changes in complement activation-related pseudoallergy" *European Journal of Nanomedicine*, vol. 7, no. 3, 2015, pp. 233-244. <https://doi.org/10.1515/ejnm-2015-0021>
6. Science.gov Sample records for accelerated blood clearance (multiple ABC phenomenon peer-reviewed medical journal pages/papers) <https://www.science.gov/topicpages/a/accelerated+blood+clearance>
7. [Moderna removed that particular stock market prospectus link from this article, but the Wayback Machine copied it here] <http://web.archive.org/web/20210117025507/https://investors.modernatx.com/node/9031/html/> I have also downloaded it and have it on a thumb drive.
8. SCIENCEINSIDERHEALTH- Suspicions grow that nanoparticles in Pfizer's COVID-19 vaccine trigger rare allergic reactions- Life-threatening responses seen in at least eight people could be linked to polyethylene glycol, known to trigger reactions to some drugs -21 DEC 2020BYJOP DE VRIEZE <https://www.science.org/content/article/suspicions-grow-nanoparticles-pfizer-s-covid-19-vaccine-trigger-rare-allergic-reactions>
9. Schwab, C., Domke, L.M., Hartmann, L. et al. Autopsy-based histopathological characterization of myocarditis after anti-SARS-CoV-2-vaccination. *Clin Res Cardiol* (2022). <https://doi.org/10.1007/s00392-022-02129-5>
10. Prevention CfDca. Advisory Committee on Immunization Practices (ACIP). Coronavirus disease 2019 (COVID-19) vaccines. Accessed 2021. <https://www.cdc.gov/vaccines/acip/meetings/slides-2021-06.html>.