

# World Congress on INFECTIOUS AND CONTAGIOUS DISEASE CONFERENCE

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## **Black Cumin as a Candidate for the Treatment Of Autoimmune Hepatitis (AIH) Caused by The COVID-19 Vaccination**

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The correlation between covid-19 vaccination and autoimmune hepatitis (AIH) were reported as a slight increase in peripheral immunoglobulins and intrahepatic enrichment of plasma and B cells. Strikingly, cytotoxic CD8 T cells (CD38-expressing) were the most enriched to the extent that they were the most abundant immune cells in the liver. These observations implicated T cells as the pathogenic cell type associated with the vaccination-related immune hepatitis as the novel AIH subtype. These findings indicated that vaccination with BNT162b2 might cause immune-mediated hepatitis by vaccine-elicited cellular immunity mechanisms. Prophet Muhammad SAW said, "Indeed, in black cumin there is a cure for all kinds of diseases except death." The important contents in black cumin are thymoquinone, dithymoquinone, thymohydroquinone and thymol. Therefore black cumin can activate and awaken the system immunity with its ability to increase levels of helper T cells, suppressor T cells and natural killer cells, all of which are lymph cells. In addition to the active ingredients inside the black cumin oil also contains carotene which converted by the liver into vitamin A which functions as a destroyer of damaged cells which can cause cancer. The fifteen amino acids, proteins and linolenic as well as volatile oils, alkaloids, saponins and which has antiviral substances for against infections so that it can used to treat AIH. Black cumin oil also contains various minerals, calcium, sodium, potassium, magnesium, selenium and iron are needed in small amount but has an important role in helping the function of other enzymes in creating immunity.

### **Biography**

Amalia Tri Utami has completed the PhD in 30 years old with cum laude. Her current preoccupation is being the mother of her three children. In addition, she is also a lecturer at a leading university in the city of Malang in the Anatomical Pathology Department. Her hobbies are reading Al-Quran and sports such as treadmill and horse riding.