

A severe vaccine side effect: how UCLH helped identify and define it

In early 2021, the UK released new hope in the fight against COVID-19 in the form of the Pfizer and Oxford/Astrazeneca vaccines



But by mid-March, a rare and unexpected severe side effect was noticed for the Oxford/Astrazeneca vaccine at UCLH and Birmingham NHS Trust

21-year-old previously healthy male



Admission to UCLH

12-days post first dose



Symptoms

Stroke, epileptic fits, severe headache, vomiting, confusion



Imaging

Multiple blood clots in the brain, lungs, and liver; hemorrhage in the brain



Blood test

Low platelet count



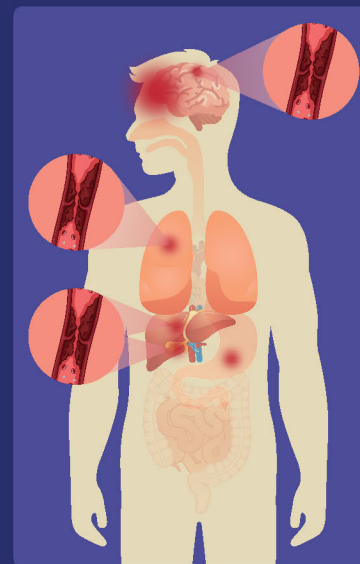
Treatment

Plasma exchange, high-dose steroids, intravenous immunoglobulin, non-heparin blood thinners (argatroban, fondaparinux, apixaban)



Discharge

4 weeks after admission



The syndrome was named **vaccine-induced immune thrombocytopenia and thrombosis (VITT)**



Oxford/Astrazeneca vaccine trials in children were stopped across the UK



A daily meeting of experts from various fields was set up to discuss all cases of VITT and develop strategies to treat and prevent it



Patients with VITT in the UK have been followed up and there have been no new cases after July 2021



The UK has supported other countries (North America, South America, Canada, Australia, and India) with the knowledge from these meetings



Only Pfizer booster vaccines have been rolled out in the UK

Good recording of post-marketing side effects and prompt action upon detection of VITT has been crucial to safely vaccinating the population