

Pfizer-BioNTech COVID-19 Vaccine

The BioNTech, [Pfizer](#) vaccine is a [vaccine](#) that aims to protect against [COVID-19](#).

Manufacturer/developer: BioNTech, Fosun Pharma, Pfizer Research name: BNT162b2 Vaccine type: RNA Administration method: Intramuscular injection

A 28-year-old woman who developed an intracerebral hemorrhage in her right temporal lobe after the first dose of the Pfizer-BioNTech COVID-19 vaccine. The patient complained of a persistent headache for four days after the first dose, along with right third nerve palsy and drowsiness. Non-enhanced brain computed tomography confirmed a 5.0 × 3.7 × 5.0 cm³-sized intracranial hemorrhage in the right temporal lobe due to the rupture of an arteriovenous malformation (AVM). Transfemoral cerebral angiography revealed that blood was supplied to the AVM by the right middle cerebral artery branch and drained into the right transverse sinus. The patient underwent surgical treatment for AVM nidus removal with hematoma evacuation on the day of admission. Her condition stabilized 10 days postoperatively. These findings indicate that clinicians should be aware that cerebral hemorrhage caused by AVM rupture may be a side effect of inoculation with the BNT162b2 mRNA COVID-19 vaccine ¹⁾.

Fan BE, Shen JY, Lim XR, Tu TM, Chang CCR, Khin HSW, Koh JS, Rao JP, Lau SL, Tan GB, Chia YW, Tay KY, Hameed S, Umapathi T, Ong KH, Prasad BMRV. Cerebral Venous Thrombosis post [BNT162b2 mRNA SARS-CoV-2 vaccination](#): A Black Swan Event. Am J Hematol. 2021 Jun 16. doi: 10.1002/ajh.26272. Epub ahead of print. PMID: 34133027.

¹⁾

Kim BH, Yoo MC. Intracranial Hemorrhage Due to Potential Rupture of an Arteriovenous Malformation after BNT162b2 COVID-19 mRNA Vaccination in a Young Korean Woman: Case Report. Vaccines (Basel). 2022 Feb 25;10(3):362. doi: 10.3390/vaccines10030362. PMID: 35334996; PMCID: PMC8953327.

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