

Blood clots may be linked to Johnson & Johnson vaccine in extremely rare cases

Of the nearly **7 million people** who have received a dose of Johnson & Johnson's COVID-19 vaccine, **six individuals** have reported potentially related blood clots. The reported blood clots are an uncommon condition called **sinus vein thrombosis** in which blood vessels that drain blood from the brain become obstructed. The obstructed vein can cause pressure resulting in symptoms **similar to a stroke** as well as cause blood vessels to rupture. The link to the vaccine **has not been confirmed**, but officials have called for a pause in the administration of the vaccine. The Pfizer and Moderna vaccines have reported **no similar incidents**.

Superior sagittal sinus

Sinus vein thrombosis

Bleeding into brain tissue

