

MEDICAL BREAKTHROUGHS **RESEARCH SUMMARY**

TOPIC: SAVING ALI FROM A CHEMO-INDUCED BRAIN BLEED
REPORT: MB #5116

BACKGROUND: A brain hemorrhage is a type of stroke. It's caused by an artery in the brain bursting and causing localized bleeding in the surrounding tissues. This bleeding kills brain cells. Brain hemorrhages are also called cerebral hemorrhages, intracranial hemorrhages, or intracerebral hemorrhages. They account for about 13% of strokes. The 30-day mortality rate ranges from 35% to 52% with only 20% of survivors expected to have full functional recovery at six months.

(Sources: <https://www.webmd.com/brain/brain-hemorrhage-bleeding-causes-symptoms-treatments>
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3443867/#:~:text=The%20overall%20incidence%20of%20spontaneous,functional%20recovery%20at%206%20months.>)

DIAGNOSING: Symptoms of a brain hemorrhage depend on the area of the brain involved. In general, symptoms of brain bleeds can include sudden tingling, weakness, numbness, or paralysis of the face, arm or leg, particularly on one side of the body, headache, nausea and vomiting, seizures, difficulty swallowing, and trouble breathing and abnormal heart rate. A doctor will examine you immediately if any type of brain hemorrhage is suspected. Diagnosis is usually made based on the results of an evaluation of physical symptoms, CT scan, MRI, or MRA.

(Source: <https://my.clevelandclinic.org/health/diseases/14480-brain-bleed-hemorrhage-intracranial-hemorrhage#:~:text=Brain%20bleeds%20%E2%80%93%20bleeding%20between%20the,of%20face%2C%20arm%20or%20leg.>)

NEW TECHNOLOGY: Endovascular embolization is a minimally invasive procedure that essentially enables a neurosurgeon to treat subdural hematomas safely and effectively – a type of brain bleed located between the outside of the brain and the covering of the brain – without open brain surgery. Instead, a catheter is inserted in a large blood vessel at the top of a patient's leg and navigated up into the blood vessels in the head. Through that catheter, microscopic particles called embospheres are delivered to stop the bleeding. Once that happens, the brain and the body can begin to heal.

(Source: <https://altairhealth.com/new-minimally-invasive-surgery-opens-door-to-treatment-for-previously-inoperable-brain-bleeds/#:~:text=A%3A%20Endovascular%20embolization%20is%20a,brain%20%E2%80%93%20without%20open%20brain%20surgery.>)

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If this story or any other Ivanhoe story has impacted your life or prompted you or someone you know to seek or change treatments, please let us know by contacting Marjorie Bekaert Thomas at mthomas@ivanhoe.com