

A person who shows signs of a stroke should get medical treatment right away. The faster treatment can be done, the less risk there is of permanent damage to the brain. Quick action by a doctor can sometimes reduce the damage or prevent more damage. Many effects of a stroke require medical care such as oxygen or an intravenous line to provide the patient with fluids and nourishment. If a stroke is still in the process of happening, drugs to prevent blood clotting such as a heparin may be given. If the stroke has already happened these drugs are not effective. If the stroke is caused by a blood clot, two options to treating a stroke may be used - either together or alone: The use of clot dissolving drugs such as tissue plasminogen activator (tPA) or streptokinase. This is best done within about three hours of the start of stroke symptoms. The use of a clot removal device such as the Penumbra Stroke System. This system can be used up to eight hours after the start of symptoms. An examination must be done quickly to rule out the possibility of a hemorrhage, which can't be treated with clot-dissolving drugs. Removing blood vessel blockages after a small stroke or transient ischemic attack may reduce the risk of future strokes. In this case, carotid artery stenting or treating aneurysms or arteriovenous malformations may be recommended.

To reduce swelling and pressure on the brain in people with an acute stroke, drugs such as mannitol, or rarely, corticosteroids may be given.

While dead brain tissue cannot be restored, intensive rehabilitation can help many people overcome disability by training other parts of the brain to do what the damaged part originally did. Rehabilitation usually begins quickly to keep the patient's muscles strong, to prevent muscular contractions and pressure sores and to teach the patient to walk and talk again. Rehabilitation may continue after a patient leaves the hospital.

A stroke's impact varies widely, depending on how severe it was and what parts of the brain it affected. Many people recover all or most of their ability to function in daily life after a stroke. Others can be left unable to move, speak or eat normally.

Strokes that cause unconsciousness or impair breathing or heart function are particularly serious. Functioning problems that continue after six months are most likely to be permanent, although some people continue to improve slowly. People who are younger and in better general health tend to recover faster and more completely.

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