What is positioning?

After a stroke, muscles can be affected in various ways, causing pain, spasticity, and problems with speed and range of motion. One way to minimize these effects is to properly support, position, and align your body. While in the hospital or rehabilitation centre, your healthcare professional will suggest ways to position your body that are safe and comfortable. This may include teaching proper techniques when transferring from sitting to standing, or using devices such as foam wedges or slings to maintain support.

Why is positioning important after a stroke?

Proper positioning can be useful to minimize or prevent pain and stiffness that are commonly present post-stroke. It can also help you to regain movement that was lost after your stroke, or limit future problems with movement. In addition, proper positioning has been shown to increase awareness and protection of the weaker side of the body.
Some common positions recommended following a stroke

Positioning while lying on your back
Pillows are placed behind the shoulder, head, weaker arm, and hip. The feet are placed in a neutral position.

Positioning while lying on the weaker side
When lying on the weaker side, one or two pillows are placed under the head, the weaker shoulder is positioned comfortably on a pillow, the stronger leg is forward on one or two pillows, and the weaker leg is straight out. Pillows are also placed in back and in front of the body.

Positioning while lying on the stronger side
One or two pillows are placed under the head, while the weaker shoulder is placed forward with the weaker arm supported by pillows. The weaker leg is placed toward the back on pillows.

Positioning while sitting up
The individual is seated at the centre of the chair or wheelchair, their arms placed forward onto pillows on their lap or on a table. Feet are placed flat on the floor or on footrests with knees bent directly above the feet.
Positioning while sitting in bed
Sitting up in bed is recommended for short periods only as it is better to sit in a chair as soon as possible. The individual will sit upright, well supported by pillows. Arms are placed on pillows on either side of the body and legs are extended comfortably.

Positioning during transfers
During transfers to a chair or from a chair to another chair, positioning of the weaker shoulder and upper arm is important. The weaker arm should always be supported during transfers, and it is important that no one pull on the arm as it can cause pain in your shoulder that will be difficult to eliminate once created. For getting out of bed, it may be useful to install a bar beside your bed that you can hold onto with your stronger arm to help push yourself up to the standing position.

(Photo courtesy of www.invisiblecaregiver.com)

Positioning while standing and walking
While standing up and moving around, slings and supports are used for positioning of the weaker arm.
How effective is positioning after stroke?

Positioning the weaker arm using slings or supports when standing, moving and walking has been shown to be effective in preventing and reducing shoulder pain and shoulder subluxation (dislocation of the shoulder).

However, research indicates that there are no significant benefits to positioning the weaker arm using slings or supports when sitting or lying down. This has not been proven to be effective in preventing or reducing shoulder pain or subluxation, or in improving range of motion, functional independence or awareness of the affected limb.

Although there is limited evidence regarding the benefits of positioning for the shoulder and arm during transfers, it is strongly recommended to protect the weaker arm by supporting it (and never pulling on it) when moving from one position to another.

What devices can I use for positioning?

Positioning devices exist for various purposes, including support and padding. Below you will find examples of some of the devices that are available to aid in positioning. Your health care provider can give you information on positioning aids that are appropriate for your specific needs.

Slings
Various slings are available and can be used following a stroke to support your weaker arm while you are standing or during transfers. Slings can prevent pain that is caused by dislocation of the shoulder.

Pillows
Pillows are used for padding and protection of some pressure points of the arm and legs, such as elbows, knees, and heels.
Head Donut
This supports the back of your head when lying down.

Wedges
Wedges are placed under your knees to prevent you from sliding in a chair while sitting down.

Arm trough
Arm troughs are placed on the armrest of the wheelchair to keep your weaker arm from hanging over the side. A strap can also be added to the trough to provide additional support.

Lap trays
Lap trays are attached to the armrest of a wheelchair and lie across your lap. This will allow you to rest your weaker arm on the tray.

Harness
These can be used for the weaker shoulder. They are often adjustable and fastened with Velcro. A shoulder harness offers support by fitting over the weaker shoulder, and passing behind the neck to strap onto the stronger arm.
Where can I get the devices to aid in positioning?

Your healthcare professional will help you choose the devices that are appropriate for your needs as well as ensure a proper fit. If they cannot supply you with your positioning aids they will direct you to a supplier from whom you can purchase these devices. Be sure to get information from your supplier or healthcare provider on proper cleaning and maintenance of your positioning aid.

How much does it cost?

Positioning devices are available for purchase either from your rehabilitation facility or directly from the supplying companies themselves. Suppliers range in price. It is possible that your positioning devices may be covered by your health insurance.

Are there any side effects/risks?

There are generally no side effects to proper positioning after a stroke. It is important to consult with a healthcare professional who can give you appropriate advice, since incorrect positioning can put strain on your muscles, cause discomfort, and of course will not give beneficial results.

Who can help me with positioning?

It is important that a trained healthcare professional show you how to properly and safely position your body and upper limb following a stroke. This type of advice is usually provided by a physical or occupational therapist. Your therapist can also teach proper positioning techniques to your family and friends so that they can help you as well.