

Switch Site Location & Positioning Chart

This document provides guidelines for linking reliable, consistent and repeatable movements to potential switch site locations and positions. It also provides some benefits and challenges for each specific movement and location. This chart is meant to be a guide. Remember, switch type selection is highly dependent on the unique profile of the person using a switch.

Note of caution: If the person using a switch is also operating their wheelchair with a body movement (i.e.: leaning their head back), you must select a different movement for the function of communication (i.e.: tilting their head to the right) in order to keep the two functions separate.

		Har	nd
What movement was selected?	Position of Switch		Important Notes
		Benefits	 Can be mounted to table or lap tray with Velcro Easy to consistently position the switch on a flat surface
Pressing down	Flat on surface	Challenges	 Difficult to position when a flat surface is not accessible Can be fatiguing if the individual tends to move their arm around Mis-hits are common because of difficulty lifting off the switch Accuracy may be negatively affected if the individual has difficulty reaching a specific spot consistently
	Recessed into	Benefits	 Potential for fewer mis-hits than above position
	laptray		 Requires specific fabrication of laptray and mounting of switch Requires extra effort to hit the switch
		Challenges	 Accuracy may be negatively affected if the individual has difficulty reaching a specific spot consistently

Reaching forward	In front of hand	Benefits	 Accommodates a variety of movements of the hand (i.e. punch, palm or finger movement) Easy to position switch
The state of the s	Ten	Challenges	 Must target a specific spot Release may be difficult for some individuals
Lifting Wrist	Above hand	Benefits	 Potentially good control because the movement is small and specific Ease of release may result in reduced mishits
15	- To-	Challenges	 Positioning switch so it won't move can be challenging Difficult to position when not in wheelchair Repetitive movement against gravity can be fatiguing
Moving to the side	Next to hand	Benefits	 Potentially good control because the movement is small and specific Ease of release may result in reduced mishits
Turning hand in or out	Con Con	Challenges	 Requires additional equipment for positioning switch in each location Difficult to position when user is not in a supported position
Grasp	In hand	Benefits	 Potentially good control because the movement is small and specific Ease of release may result in reduced mishits The arm can be anywhere as long as the hand can grasp
Mary -		Challenges	 Can be difficult to release if spasticity is present Often requires frequent repositioning May be difficult for others to place correctly Interference from the cord may occur

Finger			
What movement was selected?	Position of Switch		Important Notes
		Benefits	 Requires only Velcro to mount on table or lap tray Easy to consistently position switch
Pressing down	Flat on surface essing down	Challenges	 Difficult to position when not in wheelchair Can be fatiguing if the individual tends to move their arm around Mis-hits are common because of difficulty lifting off the switch Accuracy may be negatively affected if the individual has difficulty reaching a specific spot consistently
		Benefits	Accidental hits may be avoided
	Recessed into laptray	Challenges	 Requires specific fabrication of laptray and mounting of switch Requires extra effort to activate the switch Accuracy may be negatively affected if the individual has difficulty reaching a specific spot consistently
Thumb	In palm	Benefits	 Takes advantage of what may be a strong isolated movement Easy setup for others using a Velcro strap
		Challenges	May require repositioningCords may interfere with movement
7	On fingers	Benefits	 Takes advantage of what may be a strong isolated movement Easy setup for others using a Velcro strap
		Challenges	May require repositioningCords may interfere with movement

		Hea	ad
What movement was selected?	Position of Switch		Important Notes
		Benefits	 Tends to be movement that can be produced consistently Will not interfere with glasses
	At jaw line	Challenges	 Positioning may be difficulty especially in bed Could interfere with maintaining gaze on target if individual tries to look at the switch or if it is positioned far from jaw May trigger Asymmetrical Tonic Neck Reflex (ATNR) reflexes in some individuals Partners may mistake movement for "no" response but would certainly learn to distinguish over time
		Benefits	 Some individuals may prefer with this location
Turning head	At cheek	Challenges	 Position near mouth may result in saliva production or rooting behaviors in some individuals May trigger ATNR reflexes in some individuals Partners may mistake movement for "no" response but would certainly learn to distinguish over time
		Benefits	Some individuals may prefer with this location
	At temple	Challenges	 Position near eye may interfere with glasses Need to consider potential for damage to eye if the individual's movement is inconsistent Partners may mistake movement for "no" response but would certainly learn to distinguish over time Individual could lose focus if they tend to look at the switch Should not be considered if the individual wants to look at the switch

		Benefits	Will not interfere with glasses
Tilting head	At jaw line	Challenges	 Positioning may be difficulty especially in bed Could interfere with maintaining gaze on target if individual tries to look at the switch or if it is positioned far from jaw May trigger ATNR reflexes in some individuals Partners may mistake movement for "no" response but would certainly learn to distinguish over time
		Benefits	Some individuals may prefer with this location
	At cheek	Challenges	 Position near mouth may result in saliva production or rooting behaviors in some individuals May trigger ATNR reflexes in some individuals Partners may mistake movement for "no" response but would certainly learn to distinguish over time
Leaning head back	Behind head	Benefits	Switch is not obvious to others
	Definite flead	Challenges	 Partners may mistake movement for "yes" response but would certainly learn to distinguish over time Individual cannot see switch
Lowering head	Under chin	Benefits	 Some individuals may prefer with this location Can be a good alternative if other head movements are problematic
		Challenges	 Position near mouth may result in saliva production or rooting behaviors in some individuals May result in loss of eye contact with partners or ability to see target on device May trigger ATNR reflexes in some individuals

 Partners may mistake movement for "yes" response but would certainly learn to distinguish over time

Shoulder			
What movement was selected?	Position of Switch		Important Notes
Shrugging shoulders	Above shoulder	Benefits	 Tends to be movement that can be produced consistently
		Challenges	 Positioning of switch may be challenging. Partners may mistake movement for "I don't know" response but could learn to distinguish over time Potential for accidental hits with movement of the wheelchair

		Elbo	OW .
What movement was selected?	Position of Switch		Important Notes
Backward	Vertical behind elbow	Benefits	 Takes advantage of strong one directional movement
	eibow	Challenges	 Positioning of switch may be challenging Partners may mistake movement for "I don't know" response but could learn to distinguish over time Potential for accidental hits with movement of the wheelchair
Away from body to side	Vertical next to elbow	Benefits	Takes advantage of strong one directional movement
4	4-1	Challenges	 Positioning of switch may be challenging Can be difficult to release switch Cannot see target

Toward body	Vertical between body and elbow	Benefits	Takes advantage of strong one directional movement
		Challenges	Positioning of switch may be challengingCan be difficult to release switchCannot see target

		Kne	ee
What movement was selected?	Position of Switch		Important Notes
Movement:	Next to knee	Benefits	 Takes advantage of strong one directional movement
Open	E PI	Challenges	Positioning of switch may be challenging
Movement: Close	Between knees	Benefits	Takes advantage of strong one directional movement
\$ P	\$ P	Challenges	 Positioning of switch may be challenging Can be difficult to release switch
Movement:	Above knee	Benefits	Takes advantage of strong one directional movement
A	承	Challenges	 Positioning of switch may be challenging Mis-hits may occur if startle reflex is present Potential for fatigue to interfere with use

		Leg and	d Foot
What movement was selected?	Position of Switch		Important Notes
Lifting lower leg	Front of lower leg	Benefits	 Takes advantage of strong one directional movement
TX.	T/s	Challenges	 Positioning of switch may be challenging. Can be difficult to release switch. Mis-hits may occur if startle reflex is present
Pushing backward with lower leg	Behind lower leg	Benefits	Takes advantage of strong one directional movement
77	77	Challenges	 Positioning of switch may be challenging. Can be difficult to release switch Mis-hits may occur if startle reflex is present
Lifting foot	Above foot	Benefits	Takes advantage of strong one directional movement
1	5	Challenges	 Positioning of switch may be challenging Mis-hits may occur if startle reflex is present
Pushing down	Below foot	Benefits	Takes advantage of strong one directional movement
with foot		Challenges	 Positioning of switch may be challenging Can be difficult to release switch Strong pressure could break a switch Mis-hits may occur if startle reflex is present
Foot/Duching		Benefits	Takes advantage of strong one directional movement
Foot/Pushing down with toes	Below toes	Challenges	 Not recommended for those with excess tone in the foot or toe areas Recommended for use in bed because gravity is not impacting activation Can be difficult to release switch Mis-hits may occur if startle reflex is present

	Isolate	ed Muscle	Movements
What movement was selected?	Position of Switch		Important Notes
	On/near eyebrow	Benefits	 Takes advantage of strong one directional movement
Eyebrow lift		Challenges	 Positioning of switch may be challenging Can interfere with use of facial expression and eye gaze/contact for communication
	Near eye	Benefits	Takes advantage of strong one directional movement
Eye blink		Challenges	 Positioning of switch may be difficult to permit natural eye blinks versus intentional Can interfere with use of facial expression and eye gaze/contact for communication
	On muscle	Benefits	Can be an option when success is not met through typical movement patterns
Contraction		Challenges	 Sensors to control switch must be worn Positioning of switch may be challenging initially and for caregivers Consistency may be challenging if contraction is not strong