Shoulder Function Index (SFInX)

clinical assessment form and instructional manual



Table of Contents

Shoulder Function IndeX - clinical assessment form	3
Shoulder Function Index - hierarchy of SFInX items	4
Descriptions of SFInX items	5
ITEM 1: drinking from a cup	6
ITEM 2: washing opposite armpit	7
ITEM 3: washing back opposite shoulder	8
ITEM 4: combing hair/running hand through hair	9
ITEM 5: tucking shirt into pants	10
ITEM 6: washing lower back	11
ITEM 7: lying on affected side	12
ITEM 8: reaching behind to get an object	13
ITEM 9: holding an object for a longer period	14
ITEM 10: carrying a heavy object with two hands	15
ITEM 11: placing an object on a shelf at shoulder level	16
ITEM 12: moving an object above head level	17
ITEM 13: throwing a ball with two hand over-head	18
Recommendations for items requiring equipment	19
SFInX items linked to the ICF	20

Shoulder Function IndeX - clinical assessment form

Patient name: _____

Time after injury (in weeks): _____ Side of injury: R / L

Item	s	Scores					
			0		1		2
1	Drinking from a cup		Unable		Able		
2	Washing the opposite armpit		Unable		Able		
3	Washing the back of the opposite shoulder		Unable		Partially able		Able
4	Combing hair		Unable		Partially able		Able
5	Tucking shirt into pants		Unable		Partially able		Able
6	Washing lower back		Unable		Partially able		Able
7	Lying on the affected side		Unable		Partially able		Able
8	Reaching behind to get an object		Unable		Able		
9	Holding an object for a longer period		Unable		Able		
10	Carrying a heavier object with two hands		Unable		Partially able		Able
11	Placing an object on a shelf at shoulder level		Unable		Able		
12	Sustaining activity above head (e.g. hanging up washing)		Unable		Partially able		Able
13	Throwing a ball with two hands over-head		Unable		Partially able		Able
Tota	al number of points (raw score)		0 -	+		-	

Conversion from raw score to SFInX score

Raw score	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
SFInX score	0	12	20	27	32	36	40	43	46	49	52	55	58	61	64	67	70	73	77	81	89	100

Shoulder Function Index - hierarchy of SFInX items

HARDEST	ITEM 3	washing back opposite shoulder
1	ITEM 6	washing lower back
	ITEM 12	moving an object above head level
	ITEM 13	throwing a ball with two hands overhead
	ITEM 4	combing hair/running hand through hair
	ITEM 8	reaching behind to get an object
	ITEM 10	carrying a heavy object with two hands
	ITEM 11	placing an object on a shelf at shoulder level
	ITEM 5	tucking shirt into pants
	ITEM 9	holding an object for a longer period
	ITEM 2	washing opposite armpit
1	ITEM 7	lying on affected side
EASIEST	ITEM 1	drinking from a cup

Descriptions of SFInX items

ITEM 1: drinking from a cup

Description The ability to lift the cup to the mouth to drink, and to place the

cup back is being judged.

Equipment cup

Position sitting

Instruction place a cup without handles (or instruct not to use the handles) in

front of the person to be tested. (clinician)

Instruction while keeping your head in an upright position, reach and pick up (patient)

the cup with the hand of the affected arm. Move the cup to your

mouth to drink, then place the cup back.





Decision Able rules

reaches for the cup with the hand of the affected arm, picks up the cup, moves the cup to the mouth and places the cup back to starting position; affected arm is held off the body;

movements of the affected arm are unsupported

Unable cannot take the cup to the mouth to drink; or less (for

example, unable to reach or pick up cup)

ITEM 2: washing opposite armpit

Description The ability to simulate washing of the opposite armpit is being

tested

Equipment --

Position sitting

Instruction (patient)

reach with the hand of the affected arm to the armpit of the opposite arm and apply pressure while moving the hand of the

affected arm backward and forward, up and down



Decision Able rules

reaches, applies pressure and is able to move the palm of the hand of the affected arm in all directions under the armpit of the opposite side; movements of the affected arm should be unsupported; comparison of hand positioning with the unaffected side is recommended

Unable

cannot reach the opposite armpit equally far as the unaffected arm (reaching with fingers only is not sufficient to 'wash' the opposite armpit)

OR

reaches, but cannot apply pressure and/or make movements with the hand of the affected arm

ITEM 3: washing back opposite shoulder

Description The ability to simulate washing of the back of the opposite

shoulder is being tested

Equipment --

Position sitting

Instruction (patient)

reach with the hand of the affected arm across the body to the back the opposite shoulder and apply pressure while moving the

hand of the affected arm sideways



Decision Able

reaches, applies pressure and moves the hand of the affected arm sideways; movements of the affected arm should be unsupported; comparison of hand positioning

with the unaffected side is recommended

Partially Able reaches equally far as the unaffected arm, but cannot apply pressure and/or make the required movements to the

sides with the hand of the affected arm

Unable cannot reach the back of the opposite shoulder equally far

as the unaffected arm (for example, reaches top of

opposite shoulder only)

ITEM 4: combing hair/running hand through hair

Description The ability to simulate combing hair (or running hand through

hair) with the affected arm is being tested

Equipment --

Position sitting

Instruction (patient)

while keeping your head in an upright position, move the fingers and palm of the hand of the affected arm from your forehead over

the top of the head into your neck





Decision Able rules

moves fingers and palm of the hand of affected side from the mid-forehead into the neck; movements of the affected arm are unsupported; head is held in upright position

Partially Able moves fingers and palm of the hand of affected side from the mid-forehead through hair to the top of the head; unable to move over the top of the head and/or moves the hand from the top of the head to behind the ear/side of the head; head is held in upright position

Unable

cannot move fingers and palm of the hand of affected side to the top of the head; or less

ITEM 5: tucking shirt into pants

Description The ability to tuck in shirt (or similar) into pants (or similar) in a

standing position is being tested

Equipment --

Position standing

Instruction tuck your shirt into the pants using the hand of the affected arm

(patient) on the affected side





Decision Able rules

uses the hand of the affected arm to tuck in the shirt on the affected side at the front (from zip/middle), the side and

the back (to spine/middle)

Partially Able uses the hand of the affected arm to tuck in the shirt on the

affected side at the front and the side

Unable uses the hand of the affected arm to tuck in the shirt on the

affected side at the front only; or less

ITEM 6: washing lower back

Description The ability to simulate washing of the lower back (lumbar spine

area) is being tested

Equipment --

Position standing

Instruction move the palm of the hand of the affected arm to your lower back. (patient) Apply pressure while moving the hand in all directions over your

lower back





Decision Able rules

reaches the lower back with the hand of the affected side; is able to put the palm of the hand flat onto the lower back while applying pressure and moving the hand in all directions (up, down, right, left) over the lower back

Partially Able reaches the lower back with the hand of the affected side; and puts the palm of the hand flat onto the lower back; unable to move the hand

Unable

cannot put the palm of the hand of the affected arm flat onto the lower back; or less (for example, cannot reach the lower back with the hand of the affected side)

ITEM 7: lying on affected side

Description The ability to lie on the affected side with the unaffected arm in

front of the body is being tested. Use a single pillow for head

support in lying position

Equipment bed

Position lying

Instruction lie on the affected side with the unaffected arm in front of your

(patient) body





Decision Able rules

lies on the affected side; that is, directly on top of the

affected shoulder, with the unaffected arm in front of and

across the body

Partially Able lies partially on the affected side; that is, on the scapula rather than the head of the humerus, with the unaffected

arm in front of and across the body

Unable does not lie on the affected side

ITEM 8: reaching behind to get an object

Description The ability to reach behind (for example, to back seat in a car) to

pick up an object is being tested

Equipment object (for example, heavy book, bottle; approximately 1.5 kg)

Position sitting; with the back supported by the backrest of the chair

Instruction the chair on which the person to be tested will be seated, has to be (clinician)

positioned in front of a second chair or plinth. The object is placed on the second chair or plinth. The object on the second chair or

plinth is approximately one arm's length behind the person

reach for and pick up the object on the chair behind you with the Instruction hand of the affected arm, bring it forward, and place it onto your (patient)

lap



Decision Able rules

reaches behind for the object; picks up the object and brings the object forward onto lap using the hand of the affected arm.

The strategy chosen is not to be judged (for example, internal/external rotation of the shoulder)

The person must remain seated in approximately the starting position; that is, with back supported by the backrest of the chair with the legs forward. Rotating away from the backrest by a large amount from the backrest is not permitted

Unable reaches behind for the object, but unable to bring the object forward (for example, due to movement required or weight of object); or unable to reach behind for the object

ITEM 9: holding an object for a longer period

Description The ability to hold an object (for example, shopping bag) for a

longer period

Equipment object (for example, shopping bag with contents; approximately 3

kg)

Position standing

Instruction lift up and then hold the object for 30 seconds in the hand of the

affected side with you arm by you side (patient)



lifts and holds the object for 30 seconds; affected arm is held Decision Able rules

off the body, the affected arm is unsupported

Unable lifts and holds the object for <30 seconds; or unable to lift

the object

ITEM 10: carrying a heavy object with two hands

Description The ability to carry/hold heavier items with two hands is being

tested

Equipment object (for example, a full box, weights; approximately 6 kg)

Position standing and walking

Instruction person to be tested starts with approximately 90 degrees of elbow (clinician)

flexion; tester provides the person to be tested carefully with the

object

Instruction hold the object with both hands with elbows at right angles. Then, walk 5 metres forward, turn around and walk forwards back to the (patient)

starting position



Decision Able holds the object equally in two hands; walks forward, turns rules

and walks back without compensation in holding the object

Partially holds the object with two hands, but compensates so that Able the unaffected side is carrying more of the weight (for

example, by changing position of the object in the hands);

or needs to rest/pause

Unable holds the object for short period only; or less

ITEM 11: placing an object on a shelf at shoulder level

Description The ability to lift and then place an object on a shelf (or similar) at

shoulder level is being tested

Equipment object (for example, book, bottle; approximately 1.5 kg)

Position standing; one arm's length from shelf

Instruction place the object on the shelf at shoulder level using the hand of

(patient) your affected arm



Decision Able rules

lifts and places the object on the shelf at shoulder level; movements of the affected arm are unsupported at all times

Large compensation by standing on toes, or leaning

backward (extension in upper body) with the aim to raise

the object is not permitted

Unable lifts the object but not high enough to place on the shelf at

shoulder level; or less

ITEM 12: moving an object above head level

Description The ability to perform a prolonged activity above the head, such as

hanging up washing or moving books/plates from one side to

another on a shelf above the head, is being tested

Equipment object (for example, book, bottle; approximately 1.5 kg)

Position standing

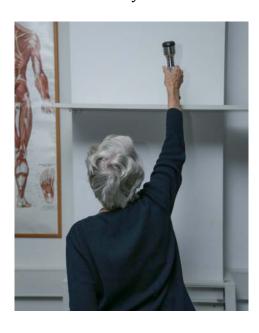
Instruction before instructing the person to be tested, the tester is to place the (clinician) object on a shelf above the head, approximately in line with the

position of the person's left shoulder

Instruction take the object in the hand of the affected arm, lift the object off the (patient) shelf and move the object from left (shoulder width) to right

(shoulder width) and from right to left, and repeat this five times.

Try not to rest the arm by putting the object down on the shelf



Decision Able

rules

takes and lifts the object off the shelf; maintains this forward flexion-elevation position while making

movements sideways ten times (5x left-to-right-to-left)

without rests

Partially Able takes and lifts the object off the shelf; moves the object sideways for less than ten times before needing to rest (for

example, by placing the object on the shelf)

Unable takes and lifts the object off the shelf only; or unable to lift

the object but moves (slides) it sideways on the shelf; or

less (for example, cannot reach for the object)

ITEM 13: throwing a ball with two hand over-head

Description The ability to throw a ball overhead using two hands is being

tested

Equipment ball (for example, soccerball or basketball)

Position standing

Instruction provide the person to be tested with a ball (clinician)

ensure that the person to be tested holds the ball in front of their

body at waist level with two hands (starting position).

Stand approximately 5 metres in front of the person to be tested

Instruction bring the ball with two hands (patient) over and behind the head, into

your neck. Then, throw the ball forward (by bringing the ball back over the head, then forward) to the tester



Decision Able

makes the movements as required; controls the ball with

both hands; and creates a forward throw to tester

approximately 5 metres away

Partially makes the Able both hand

makes the movements as required; controls the ball with

both hands; then,

creates a forward throw, but is unsuccessful in distance (balls drops) or direction (not to tester) OR compensates

clearly by flexion of the head

OR

brings the ball straight above the head or further back (but not into the neck); controls the ball with both hands; and has a successful throw in both distance and direction

Unable makes the movements as required only or less (for

example, unable to make required movements); unable to

make a throwing action

Recommendations for items requiring equipment

Chair

Items in which the position is "sitting" have to be performed in a standardised chair without armrests and without rollers. The person to be tested should have the feet on the floor, and the back supported by the backrest. In case testing is performed at a person's home, a kitchen chair is often sufficient and recommended.

Item 1

Cup

A cup (no use of handles), mug or little water bottle containing some water or of some weight is recommended. A person has to be able to, or show they are to, drink from the cup.

Items 7

Bed

A hospital bed or plinth which is adjustable in height, or a person's own bed at home should be used for testing. A single pillow should be used for comfort. Additional pillows might be needed for a person's comfort in lying position if the person has a certain condition e.g. apnea.

Items 8, 11 and 12

Object Use of a heavy book, 1.5L bottle water, weight or other object, which weights or approximates 1.5 kg and which is able to be held comfortably 1.5 kg in one hand is recommended.

Item 9

Bag + A small box, two 1.5L bottles water, weight or other object which Object weights or approximates 3 kg, placed in a (shopping) bag is 3kg recommended.

Item 10

6kg

Object Use of a pile of heavy books, a box, weight(s) or other object(s) which weight(s) or approximate(s) 6 kg, and can be held in two hands (with shoulders in neutral, elbows in 90 degrees flexion, forearms neutral or supinated) is/are recommended.

Item 13

Ball Use of a soccer/football (or similar) is recommended.

SFInX items linked to the ICF

			Additional
item		ICF code/category	information
1.	Drink from a cup	d4300 Lifting	cup without
		d560 Drinking	handles
2.	Washing the opposite armpit	d5100 Washing body	opposite
		parts	armpit
3.	Washing the back of the	d5100 Washing body	back of
	opposite shoulder	parts	opposite
			shoulder
4.	Combing hair	d5202 Caring for hair	combing,
			running hand
			through hair
5.	Tucking shirt into pants	d5400 Putting on	tucking shirt
		clothes	
6.	Washing lower back	d5100 Washing body	above your
		parts	head
7.	Lying on the affected side	d4150 Maintaining a	on the affected
		lying position	side
8.	Reaching behind to get an	d4452 Reaching	
	object	d4300 Lifting	
9.	Holding an object for a	d4301 Carrying in the	shopping bag
	longer period	hands	
		d6200 Shopping	
10.	Carrying a heavier object	d4301 Carrying in the	heavy object
	with two hands	hands	
		d4600 Walking around	
		within the home	
11.	Placing an object on a shelf	d4300 Lifting	
	at shoulder level		
12.	Sustaining activity above	d4300 Lifting	
	head (e.g. hanging up	d6400 Washing and	
	washing)	drying clothes and	
		garments	
13.	Throwing a ball with two	d4454 Throwing	ball with two
	hands over-head	d4300 Lifting	hands

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