

# 5-Item Sacral Sparing Questionnaire

## Assessment Overview

### Assessment Area

**ICF Domain:**

Body Functions

**Subcategory:**

Sensory and Pain

### You Will Need

**Length:**

5-Items – less than 5 minutes

**Scoring:**

Each item is answered either “Yes”, “No” or “N/A”. The items are assessed individually and are not summarized in a single score.

### Summary

The Sacral Sparing Questionnaire is a survey of 5 questions involving various aspects of a patient’s bowel movement routine. Each question is answered as: “yes”, “no”, or “N/A”.

Question 1: Ability to feel perianal tissue

Question 2: Ability to feel water temperature on perianal tissue

Question 3: Ability to feel finger in rectum

Question 4: Ability to feel enema tube in rectum

Question 5: Ability to hold enema tube in rectum for more than 1 minute

### Availability

Available for free here:

<https://scireproject.com/outcome-measures/outcome-measure-tool/a-5-item-sci-sacral-sparing-self-report-questionnaire/#1467983894177-6b9fb7a3-f550>

## Assessment Interpretability

### Minimal Clinically Important Difference

Not established in SCI

### Statistical Error

Not established in SCI

### Typical Values

**Mean Sensitivity and Specificity values:**

Q1: Sensitivity: 98%, Specificity: 92%

Q2: Sensitivity: 88%, Specificity: 95%

Q3: Sensitivity: 98%, Specificity: 94%

Q4: Sensitivity: 96%, Specificity: 100%

Q5 (w/ increased AST):

Sensitivity: 100%, Specificity: 27%

Q5 (w/o increased AST):

Sensitivity: 89%, Specificity: 98%

(Liu et al. 2017, N=102 (83M, 19F), median age (IQR): 46 (32.8-56.3), tetraplegia: n=57, paraplegia: n=45)

## Measurement Properties

### Validity – **High**

#### **High** Consistency Test between Sensation and Q1 of questionnaire:

$\kappa$  coefficient = 0.91

#### **High** Consistency Test between S4-5 Sensation and Q2 of questionnaire:

$\kappa$  coefficient = 0.79

#### **High** Consistency Test between Deep Anal Pressure and Q3 of questionnaire:

$\kappa$  coefficient = 0.93

#### **High** Consistency Test between Deep Anal Pressure and Q4 of questionnaire:

$\kappa$  coefficient = 0.93

#### **High** Consistency Test between Voluntary Anal Compression and Q5 of questionnaire:

$\kappa$  coefficient = 0.70

(Liu et al. 2017, N=102 (83M, 19F), median age (IQR): 46 (32.8-56.3), tetraplegia: n=57, paraplegia: n=45)

**Number of studies reporting validity data: 1**

### Reliability – **Not Established in SCI**

Not established in SCI

**Number of studies reporting reliability data: 0**

## Responsiveness

### Floor/Ceiling Effect:

Not established in SCI

### Effect Size:

Not established in SCI

### Number of studies reporting responsiveness data:

Not established in SCI