



# Touch Test® Sensory Evaluator

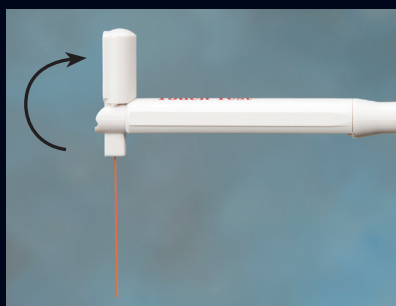
# Touch Test® Sensory Evaluator



The filament folds into a groove in the handle that is protected by the sleeve when not in use.



Rotate the sleeve 180° to expose the filament.



Flip the tip back to lock the filament into a 90° angle for application.

For more comprehensive testing, Touch Test® Sensory Evaluators are available in handy, portable kits.

Kits are packaged in convenient, protective cases.



**5 Piece Hand Kit - NC12772**

- 2.83, 3.61, 4.31, 4.56 and 6.65
- Protective case

**6 Piece Foot Kit - NC12773**

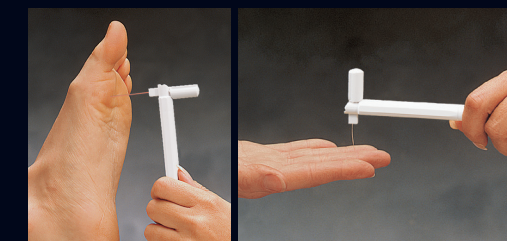
- 2.83, 3.61, 4.31, 4.56, 5.07 and 6.65
- Protective case

**20 Piece Full Kit - NC12775-99**

- All 20 sizes
- Protective case

Use to test sensation levels and obtain objective data for accurate reporting on the status of diminishing or returning sensibility.

- Evaluators are manufactured within a 5% deviation of each target force.
- The filament bends when peak force threshold is administered.
- Unique handle opens to a 90° angle. When closed, the filament is protected and the Touch Test® Sensory Evaluator can be carried safely in a pocket or portable carrying case.



North Coast Medical, Inc.  
780 Jarvis Drive, Suite 100  
Morgan Hill, CA 95037 - U.S.A.



ICON (LR) Limited  
South County Business Park  
Leopardstown, Dublin 18  
D18 X5R3, Ireland



Allenspach Medical AG  
Dornacherstrasse 5  
4710 Balsthal, Switzerland

Made in U.S.A.



North Coast Medical, Inc.  
www.ncmedical.com



North Coast

- Available in a 5 Piece Hand Kit, 6 Piece Foot Kit, and a 20 Piece Full Kit.
- Each kit is packaged in a protective case. Instructions are included.
- Individual replacement Sensory Evaluators are sold separately. See Figure 5, the Touch Test® Sensory Evaluator Chart, inside this brochure for a listing of product numbers.



**Touch Test®**  
Sensory Evaluator

Touch Test® Sensory Evaluators (Semmes-Weinstein Monofilaments) provide a non-invasive evaluation of cutaneous sensation levels throughout the body with results that are objective and repeatable. Use of Touch Test® Sensory Evaluators is indicated in diagnoses including nerve compression syndromes, peripheral neuropathy, thermal injuries and postoperative nerve repair. Each Touch Test® Sensory Evaluator is manufactured within a 5% standard deviation of each target level of force.

**Instructions:** These instructions are written for threshold testing with individual Touch Test® Sensory Evaluators, as well as comparative testing and color mapping with the Touch Test® 5 Piece Hand Kit, 6 Piece Foot Kit and 20 Piece Full Kit. Color mapping enables documentation of sensory neuropathy progression or regression. When worsened sensibility is detected, proper intervention can be implemented. Conversely, improved sensibility would indicate effective treatment intervention.

1. Testing should be done in a quiet area to help the patient fully attend to the testing procedure. Explain the testing procedure to the patient. Instruct the patient to respond when the stimulus is felt by saying “touch” or “yes”. Nonverbal patients may tap the table when the stimulus is felt.
2. Rest the patient’s extremity on a stable, padded surface. Occlude the patient’s vision by using a shield or by having the patient look away.
3. Note any areas of callus, abrasion, scarring or other blemishes by drawing on the recording form (Hand and Foot Screening Forms available online at [www.ncmedical.com](http://www.ncmedical.com)). While testing, proceed from distal to proximal and from small to large Sensory Evaluator.
4. For hand and foot evaluation and screening, use the sites indicated in Figures 1 and 2.

5. Rotate the sleeve to expose the filament. Flip tip back to lock filament into a 90° angle. Press the filament against the skin at a 90° angle until it bows. Hold in place for 1.5 seconds, then remove (see Figure 3). For Sensory Evaluators 1.65 through 4.08, apply the stimulus in the same location up to three times to elicit a response. A single response indicates a positive response. For Sensory Evaluators 4.17 through 6.65, apply the stimulus one time only.

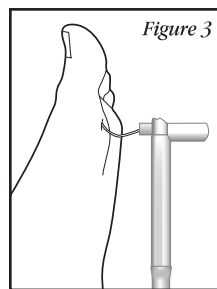


Figure 1 Hand Test Sites

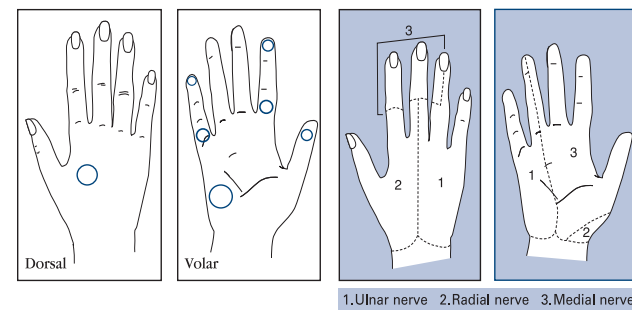


Figure 2 Foot Test Sites

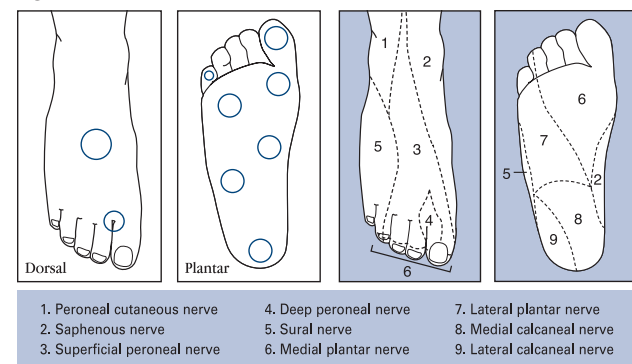
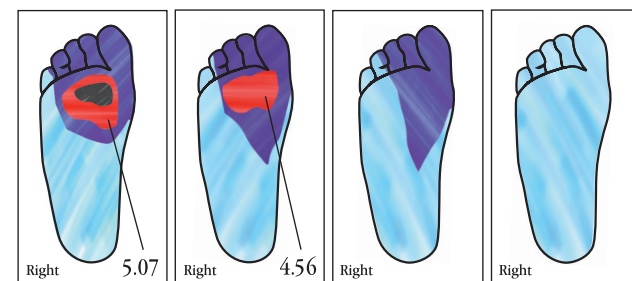


Figure 4 Sample of Documented Progression



6. To test with the Touch Test® 5 Piece Hand Kit, 6 Piece Foot Kit or 20 Piece Full Kit (NC12772, NC12773, or NC12775-99), begin with the 2.83 Sensory Evaluator. If the patient responds to the stimulus in all sites, normal cutaneous sensation can be documented and the examination is complete. If the patient does not respond to the stimulus in any area, choose the next largest Sensory Evaluator and repeat the process.

7. Record results using colored pencils or pens. When representing filaments of the same color, note which filament size was used (see Figure 4). Threshold levels indicated in Figure 5 can be used to interpret test results.

\* If testing with the 5.07 only (NC12775-14), follow instructions #1- #5. Then apply the 5.07 to the test sites shown in Figure 2. Record results using ✓ to indicate each site with sensation and X for lack of sensation.

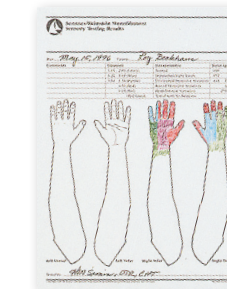
Figure 5 Touch Test® Sensory Evaluator Chart

| Product Number | Evaluator Size | Target Force <sup>1</sup> in grams | Representation (suggested colors) | Hand & Dorsal Foot Thresholds   | Plantar Foot Thresholds         |
|----------------|----------------|------------------------------------|-----------------------------------|---------------------------------|---------------------------------|
| NC12775-01     | 1.65           | 0.008                              | Green                             | Normal                          | Normal                          |
| NC12775-02     | 2.36           | 0.02                               |                                   |                                 |                                 |
| NC12775-03     | 2.44           | 0.04                               |                                   |                                 |                                 |
| NC12775-04     | 2.83           | 0.07                               | Blue                              | Diminished Light Touch          | Normal                          |
| NC12775-05     | 3.22           | 0.16                               |                                   |                                 |                                 |
| NC12775-06     | 3.61           | 0.4                                |                                   |                                 |                                 |
| NC12775-07     | 3.84           | 0.6                                | Purple                            | Diminished Protective Sensation | Diminished Light Touch          |
| NC12775-08     | 4.08           | 1                                  |                                   |                                 |                                 |
| NC12775-09     | 4.17           | 1.4                                |                                   |                                 |                                 |
| NC12775-10     | 4.31           | 2                                  | Red                               | Loss of Protective Sensation    | Diminished Protective Sensation |
| NC12775-11     | 4.56           | 4                                  |                                   |                                 |                                 |
| NC12775-12     | 4.74           | 6                                  |                                   |                                 |                                 |
| NC12775-13     | 4.93           | 8                                  | Red                               | Loss of Protective Sensation    | Loss of Protective Sensation    |
| NC12775-14     | 5.07           | 10                                 |                                   |                                 |                                 |
| NC12775-15     | 5.18           | 15                                 |                                   |                                 |                                 |
| NC12775-16     | 5.46           | 26                                 | Red                               | Loss of Protective Sensation    | Loss of Protective Sensation    |
| NC12775-17     | 5.88           | 60                                 |                                   |                                 |                                 |
| NC12775-18     | 6.10           | 100                                |                                   |                                 |                                 |
| NC12775-19     | 6.45           | 180                                | Red                               | Loss of Protective Sensation    | Loss of Protective Sensation    |
| NC12775-20     | 6.65           | 300                                |                                   |                                 |                                 |

★ = Included in Hand Kits. ○ = Included in Foot Kits. \* Individually calibrated within a 5% standard deviation.

**Care:** Touch Test® Sensory Evaluators are precision instruments. Care should be taken at all times to keep the filament covered within the protective sleeve. The filament may be cleaned with a mild instrument disinfectant. Substantially bent or kinked filaments must not be used for testing and should be discarded.

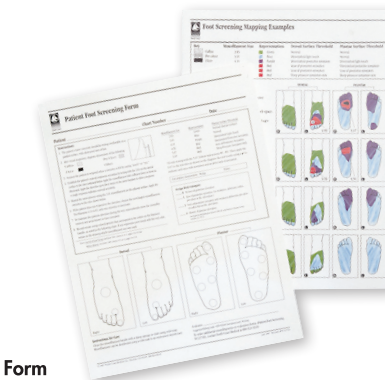
For your convenience, Hand and Foot Screening Forms are available to record evaluation results.



Hand Screening Form

- Record physical findings by coloring the areas of different sensation levels in the hand or foot illustrations. This gives a clear graphic chart of the patient’s sensibility.

Color Mapping Sample Sheet



Foot Screening Form

Forms available as PDF downloads at [www.ncmedical.com](http://www.ncmedical.com)

To be used by Healthcare Professionals Only.