

# Person—peripheral neuropathy indicator, code N

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# Person—peripheral neuropathy indicator, code N

## Identifying and definitional attributes

Metadata item type:	Data Element
Short name:	Peripheral neuropathy (status)
METEOR identifier:	302457
Registration status:	<a href="#">Health</a> , Standard 21/09/2005
Definition:	Whether peripheral neuropathy is present, as represented by a code.

## Data element concept attributes

### Identifying and definitional attributes

Data element concept:	<a href="#">Person—peripheral neuropathy indicator</a>
METEOR identifier:	269622
Registration status:	<a href="#">Health</a> , Standard 01/03/2005
Definition:	The outcome of assessment for the presence of peripheral neuropathy.
Context:	Public health, health care and clinical settings.
Object class:	<a href="#">Person</a>
Property:	<a href="#">Peripheral neuropathy indicator</a>

## Value domain attributes

### Identifying and definitional attributes

Value domain:	<a href="#">Yes/no/not stated/inadequately described code N</a>
METEOR identifier:	301747
Registration status:	<a href="#">Australian Teacher Workforce Data Oversight Board</a> , Recorded 25/10/2022 <a href="#">Children and Families</a> , Standard 22/11/2016 <a href="#">Community Services (retired)</a> , Standard 14/02/2006 <a href="#">Disability</a> , Standard 07/10/2014 <a href="#">Early Childhood</a> , Standard 21/05/2010 <a href="#">Health</a> , Standard 21/09/2005 <a href="#">Homelessness</a> , Standard 23/08/2010 <a href="#">Housing assistance</a> , Standard 10/02/2006 <a href="#">Independent Hospital Pricing Authority</a> , Standard 01/11/2012 <a href="#">Indigenous</a> , Standard 13/03/2015 <a href="#">Tasmanian Health</a> , Standard 08/11/2023
Definition:	A code set representing 'yes', 'no' and 'not stated/inadequately described'.

## Representational attributes

<b>Representation class:</b>	Code	
<b>Data type:</b>	Boolean	
<b>Format:</b>	N	
<b>Maximum character length:</b>	1	
	<b>Value</b>	<b>Meaning</b>
<b>Permissible values:</b>	1	Yes
	2	No

## Collection and usage attributes

**Guide for use:** CODE 9 Not stated/inadequately described  
This code is not for use in primary data collections.

## Source and reference attributes

**Submitting organisation:** Australian Institute of Health and Welfare

## Data element attributes

### Collection and usage attributes

**Guide for use:** CODE 1 Yes  
Record if peripheral neuropathy is present in the person.

CODE 2 No  
Record if peripheral neuropathy is not present in the person.

Record whether or not peripheral neuropathy is present determined by clinical judgement following assessment using pinprick and vibration (using perhaps a Biothesiometer) or Monofilament.

<b>Collection methods:</b>	<p>Examine for neuropathy by testing reflexes and sensation preferably using tuning fork (standard vibration fork 128 hz), pinprick, 10g monofilament and/or biothesiometer.</p> <p>The preferred assessment methods are monofilament and biothesiometer. These two non-invasive tests provide more objective and repeatable results than testing sensation with pinprick or a tuning fork, which are very difficult to standardise.</p> <p>1 The 'Touch-Test' Sensory Evaluation (Semens-Weinstein Monofilaments) application guidelines:</p> <ul style="list-style-type: none"> <li>• Occlude the patient's vision by using a shield or by having the patient look away or close his or her eyes.</li> <li>• Instruct the patient to respond when a stimulus is felt by saying 'touch' or 'yes'.</li> <li>• Prepare to administer the stimulus to the foot (dorsal or plantar surface).</li> <li>• Press the filament of the Touch</li> <li>• Test at a 90 degree angle against the skin until it bows. Hold in place for approximately 1.5 seconds and then remove.</li> </ul> <p>To assure the validity of the sensory test findings:</p> <ul style="list-style-type: none"> <li>• The patient must not be able to view the administration of the stimuli so that false indications are avoided.</li> <li>• The nylon filament must be applied at a 90 degree angle against the skin until it bows for approximately 1.5 second before removing.</li> <li>• If the patient does not feel the filament, then protective pain sensation has been lost.</li> </ul> <p>2 Testing vibration sensation with a biothesiometer - application guidelines:</p> <ul style="list-style-type: none"> <li>• The biothesiometer has readings from 0 to 50 volts. It can be made to vibrate at increasing intensity by turning a dial.</li> <li>• A probe is applied to part of the foot, usually on the big toe.</li> <li>• The person being tested indicates as soon as he/she can feel the vibration and the reading on the dial at that point is recorded.</li> </ul> <p>The reading is low in young normal individuals (i.e. they are very sensitive to vibration). In older individuals, the biothesiometer reading becomes progressively higher. From experience, it is known that the risk of developing a neuropathic ulcer is much higher if a person has a biothesiometer reading greater than 30-40 volts.</p>
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## Source and reference attributes

<b>Submitting organisation:</b>	National Diabetes Data Working Group
<b>Origin:</b>	National Diabetes Outcomes Quality Review Initiative (NDOQRIN) data dictionary
<b>Reference documents:</b>	<p>1997 North Coast Medical, INC. San Jose, CA 95125; 800 821 - 9319</p> <p>Duffy MD, John C and Patout MD, Charles A. 1990. 'Management of the Insensitive Foot in Diabetes: Lessons from Hansen's Disease'. Military Medicine, 155:575-579</p> <p>Bell- Krotovski OTR, FAOT, FAOTA, Judith and Elizabeth Tomancik LOTR. 1987. The Repeatability of testing with Semmens-Weinstein Monofilaments. 'The Journal of Hand Surgery,' 12A: 155 - 161</p> <p>Edmonds M, Boulton A, Buckenham T, et al. Report of the Diabetic Foot and Amputation Group. Diabet Med 1996; 13: S27 - 42</p> <p>Foot Examination -an interactive guide; Aust Prescr 2002; 25:8 - 10</p>

## Relational attributes

<b>Related metadata references:</b>	Supersedes <a href="#">Person—peripheral neuropathy status, code N Health</a> , Superseded 21/09/2005
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**DSS specific information:**

The most important aspect of grading diabetic neuropathy from a foot ulceration point of view is to assess the degree of loss of sensation in the feet.

Diabetic neuropathy tends to occur in the setting of long-standing hyperglycaemia. Peripheral neuropathy, which affects about 30% of people with either type 1 or type 2 diabetes, is the major predisposing disorder for diabetic foot disease. Peripheral neuropathy in feet results in loss of sensation and autonomic dysfunction. Neuropathy can occur either alone (neuropathic feet) or in combination with peripheral vascular disease causing ischaemia (neuro-ischaemic feet). Purely ischaemic feet are unusual, but are managed in the same way as neuro-ischaemic feet (see Australian Diabetes Society - Position Statement - The Lower Limb in People With Diabetes).

As stated by Duffy and others, the rate of lower extremity amputations can be reduced by 50% by the institution of monofilament testing in a preventive care program.

Diabetes polyneuropathy is frequently asymptomatic but may be associated with numbness, tingling and paraesthesia in the extremities, and less often with hyperesthesias. The most common form is a distal, symmetric, predominantly sensory polyneuropathy, which begins and is usually most marked in the feet and legs.

If symptomatic neuropathy is present consult with endocrinologist or physician specialising in diabetes care since options are available for the relief of symptoms.

Peripheral nerve function should be checked at least yearly in the patient with diabetes.