	Painful diabetic	Painless diabetic neuropathy		
	neuropathy			
Number	111	78		
Male	77 (69.4%)	55 (70.5%)		
Age (years)	66.6 (57.2-72.3)	68.6 (60.9-73.6)		
HbA1c (%)	7.7 (6.8-8.9)	7.3 (6.5-8.0) *		
Type 2 diabetes	99 (89.2%)	74 (94.9%)		
Duration of diabetes (years)	14.1 (7.9-21.3)	13.9 (9.8-20.9)		
BMI (kg/m <sup>2</sup> )	30.5 (26.8 – 36.0)	29.8 (25.9-34.4)		
Standing BP	141/78 (128/67-152/85)	145/81 (130/71-156/88)		
Lying BP	146/78 (134/71-156/85)	146/80 (131/71-154/86)		
Orthostatic hypotension	27 (28%)	13 (17.8%)		
MRC sensory sum score	7 (3-12)	4 (2-8) +		
TCSS Total (adjusted)	11 (8-13)	8 (5-10) †		
TCSS Symptoms score (adjusted)	3 (2-4)	1 (1-2) †		
TCSS Sensory examination	4 (2-5)	2 (1-4) †		
<b>TCSS Examination</b>	8 (6-10)	7 (4-9) †		
IENFD (fibres/mm)	0.8 (0.3-1.6)	1.2 (0.4-1.9)		
Pain over last 24 hours	6 (4-8) N/A			
Seven day pain diary	5 (3.2-6.9)	N/A		
DN4	6 (4-7)	2 (1-3) †		

## Table S1. Summary of variables that were compared between the study participantswith painless and painful diabetic peripheral neuropathy

Data shown as median (interquartile range) and analysed by Mann-Whitney U Test. Categorical data were analysed by Fischer's exact test, and values and percentages are shown. Symbols reflect the differences between the respective groups: + P < 0.01; + P < 0.05

BMI – Body Mass Index; BP - Blood pressure; TCSS – Toronto Clinical Scoring System; MRC- Medical Research Council; IENFD- Intra-epidermal nerve fibre density; IENFD – Intra-epidermal nerve fibre density

	Homozygous		Heterozygous				
	W1150R	M1713V	P610W	S490N	R1110Q	W1150R	N1245S
Painless DPN	56	0	5	1	1	21	1
Painful DPN	78	4	2	4	5	33	3

## Table S2. Common Nav1.7 variants identified

Summary of the nonsynonymous substitution that have a frequency in population databases higher than 1%. The numbers indicate how many study participants from each group were found to carry these variant. Fisher test was used to examine a possible statistical difference between groups.