

Table 1. Comparison of items within five neuropathic pain screening tools (*shaded boxes highlight features shared by two or more tools*). (Reproduced with permission, Bennett et al. 2007).

	LANSS ^a	DN4 ^a	NPQ	painDETECT	ID Pain
<i>Symptoms</i>					
Pricking, tingling, pins and needles	•	•	•	•	•
Electric shocks or shooting	•	•	•	•	•
Hot or burning	•	•	•	•	•
Numbness		•	•	•	•
Pain evoked by light touching	•		•	•	•
Painful cold or freezing pain		•	•		
Pain evoked by mild pressure				•	
Pain evoked by heat or cold				•	
Pain evoked by changes in weather			•		
Pain limited to joints ^b					○
Itching		•			
Temporal patterns				•	
Radiation of pain				•	
Autonomic changes	•				
<i>Clinical examination</i>					
Brush allodynia	•	•			
Raised soft touch threshold		•			
Raised pin prick threshold	•	•			

^a Tools that involve clinical examination.

^b Used to identify non-neuropathic pain.

Table 2. Model parameters from Bayesian model averaging of successive ‘peripheral neuropathic pain’ models.

Criteria	9	29	3	12	31	15	14	37	27	18	7	35	16	34	36
Model 1															
BMA: PP	100	93.0	87.0	56.8	53.8	37.3	8.3	4.6	4.4	4.2	1.7	0.6	0.0	0.0	0.0
EV	2.93	2.12	1.90	0.99	0.69	0.45	0.06	-0.03	0.02	0.03	0.01	0.00	0.00	0.00	0.00
SD	0.78	0.89	1.00	1.01	0.74	0.67	0.26	0.20	0.16	0.16	0.09	0.04	0.00	0.00	0.00
Model 2															
BMA: PP	100	92.8	86.7	58.1	53.5	38.2	8.5	4.7	4.5	4.3					
EV	2.92	2.11	1.90	1.01	0.69	0.46	0.06	-0.03	0.02	0.03					
SD	0.78	0.90	1.01	1.01	0.74	0.67	0.26	0.20	0.16	0.17					
Model 3															
BMA: PP	100	92.5	86.1	59.1	55.2	38.3	8.9	4.9	4.7						
EV	2.93	2.09	1.88	1.03	0.71	0.46	0.07	-0.04	0.03						
SD	0.78	0.90	1.01	1.02	0.74	0.67	0.27	0.20	0.16						
Model 4															
BMA: PP	100	92.1	85.4	59.2	56.4	38.5	9.3	5.2							
EV	2.93	2.09	1.86	1.04	0.73	0.46	0.07	-0.04							
SD	0.78	0.91	1.02	1.02	0.75	0.76	0.27	0.21							
Model 5															
BMA: PP	100	91.7	86.3	57.8	55.9	38.7	9.8								
EV	2.92	2.08	1.89	1.01	0.72	0.46	0.07								
SD	0.78	0.92	1.01	1.02	0.74	0.67	0.28								
Model 6															
BMA: PP	100	92.1	86.0	57.1	56.1	40.5									
EV	2.92	2.11	1.88	0.99	0.72	0.48									
SD	0.78	0.91	1.02	1.01	0.74	0.68									
Model 7															
BMA: PP	100	90.1	82.3	57.2	68.0										
EV	3.06	1.98	1.74	0.99	0.92										
SD	0.76	0.92	1.04	1.01	0.75										
Model 8															
BMA: PP	100	100	93.2		66.1										
EV	3.23	2.61	2.08		0.86										
SD	0.74	0.51	0.88		0.73										
Model 9															
BMA: PP	100	100	100												
EV	3.19	2.68	2.54												
SD	0.69	0.49	0.64												

Abbreviations: BMA-Bayesian model averaging, PP-Posterior probability (%), EV-Expected value (regression coefficient), SD-Standard deviation of the EV. Variables within models listed in descending order of Posterior probability.

Table 3. Indices of classification accuracy from successive regression models.

	CA	Sensitivity	Specificity	PPV	NPV	LR+	LR-	DOR
Model 1	94.2	89.2	95.7	85.8	96.8	20.82	0.11	184.76
Model 2	94.2	89.2	95.7	85.8	96.8	20.82	0.11	184.76
Model 3	94.0	89.2	95.4	85.0	96.8	19.52	0.11	172.69
Model 4	94.0	89.2	95.4	85.0	96.8	19.52	0.11	172.69
Model 5	94.0	89.2	95.4	85.0	96.8	19.52	0.11	172.69
Model 6	94.0	89.2	95.4	85.0	96.8	19.52	0.11	172.69
Model 7	94.0	89.2	95.4	85.0	96.8	19.52	0.11	172.69
Model 8	94.0	87.3	96.0	86.4	96.2	21.81	0.13	164.31
Model 9	93.8	86.3	96.0	86.3	96.0	21.57	0.14	150.86

Values are presented as ‘%’ (except LR +, LR -, DOR).

Abbreviations: CA- Classification Accuracy, PPV-Positive Predictive Value, NPV-Negative Predictive Value, LR +-Positive Likelihood Ratio, LR -- Negative Likelihood Ratio, DOR-Diagnostic Odds Ratio.

Table 4. Model parameters for criteria in the final ‘peripheral neuropathic pain’ model.

Criteria	Regression Coefficient	SD	95% CI Lower	95% CI Upper	OR	OR 95% CI Lower	OR 95% CI Upper
3 History of nerve injury	2.54	0.64	1.29	3.80	12.64	3.59	44.49
9 Dermatomal distribution	3.19	0.69	1.85	4.53	24.29	6.33	93.18
29 Nerve movement tests	2.68	0.49	1.72	3.65	14.64	5.59	38.37

Abbreviations: SD-Standard deviation, 95% CI-95% confidence interval, OR-Odds ratio.

Table 5. Cross-tabulation of classification accuracy of the final ‘peripheral neuropathic pain’ model.

	Reference standard positive	Reference standard negative
Cluster positive	88 patients	14
Cluster negative	14	336

Table 6. Indices of classification accuracy for the final ‘peripheral neuropathic pain’ model.

	Value	95% CI Lower	95% CI Upper
CA	93.8	91.2	95.8
Sensitivity	86.3	78.0	92.3
Specificity	96.0	93.4	97.8
PPV	86.3	78.0	92.3
NPV	96.0	93.4	97.8
LR+	21.57	12.84	36.24
LR-	0.14	0.09	0.23
DOR	150.86	69.4	328.1

Values are presented as '%' (except LR +, LR -, DOR).

Abbreviations: CA- Classification Accuracy, PPV-Positive Predictive Value, NPV-Negative Predictive Value, LR +-Positive Likelihood Ratio, LR -- Negative Likelihood Ratio, DOR-Diagnostic Odds Ratio.