



Symptom	Best Tuple	Algorithm	prod	sens	spec	perf
Asymptomatic						
Occipital neck headace	(8, 10, 11, 15)	DT	0.47	0.62	0.76	0.69
Bifrontal headace						
Holocranial headace						
Hemicranial headace						
Any Headache	(4, 6, 13, 15, 16)	LDA	0.49	0.93	0.53	0.79
Hydrocephalus	(6, 7, 8, 10, 11, 12, 13)	DT	0.51	0.66	0.78	0.72
Visual Alterations	(3, 5, 8, 11, 12, 13, 14)	DT	0.44	0.50	0.89	0.85
Syringomyelia	(2, 12)	DT	0.51	0.74	0.69	0.72
Fatigue						
Instability	(12, 14, 15)	DT	0.52	0.64	0.82	0.76
Sensory Loss	(4, 7, 9, 11, 12, 13, 15)	DT	0.51	0.65	0.78	0.72
Anxiety	(2, 5, 9, 12)	DT	0.57	0.68	0.83	0.79
Depression	(2, 5, 6, 8, 9, 15, 16)	DT	0.62	0.68	0.91	0.88
Motor Weakness	(4, 6, 7, 8, 11)	DT	0.54	0.65	0.84	0.77
Dysphagia	(4, 5, 6, 10, 11)	DT	0.56	0.63	0.89	0.84
Dysphonia						
Gait Disturbances	(4, 5, 10, 13, 15)	DT	0.64	0.73	0.87	0.84
Paresthesia Upper Limbs	(2, 8, 10, 13, 15, 16)	DT	0.49	0.74	0.66	0.64
Paresthesia Lower Limbs	(3, 7, 9, 13, 14, 16)	DT	0.63	0.76	0.83	0.78
Upper Limbs Pain	(4, 7, 8, 11, 12, 13)	DT	0.69	0.77	0.91	0.88
Lower Limbs Pain						
Neck Pain	(2, 3, 6, 12, 13, 14)	QDA	0.45	0.51	0.88	0.74
Difficulty Swallowing	(4, 8, 11, 16)	DT	0.66	0.72	0.92	0.89
Nystagmus	(2, 4, 6, 10, 11)	QDA	0.58	0.58	1.00	0.92
Kyphoscoliosis	(6, 9, 11, 12, 13, 14)	DT	0.67	0.80	0.84	0.83
Complex Craniocervical Malformation						
Retrocurved Odontoid	(2, 3, 4, 11, 12, 15)	DT	0.63	0.68	0.92	0.87
Other CVJ Malformations	(4, 6, 14, 16)	DT	0.56	0.67	0.85	0.82
Cough Headaches	(2, 5, 8, 9, 10, 12, 15)	QDA	0.52	0.73	0.71	0.71
Dizziness	(4, 6, 12, 14)	DT	0.49	0.62	0.80	0.74
Vertigo						