

Neuropathy

- A significant percentage of neuropathies are caused by underlying conditions (eg diabetes) or treatments.
- Commonly, however, no underlying cause is able to be identified.
- Symptoms are highly variable, especially sensory symptoms.
- Depending on the clinical features, peripheral neuropathy can be broadly classified as *polyneuropathy* (diffuse involvement, usually beginning distally), *mononeuropathy* (single nerve involvement), *mononeuritis multiplex* (focal involvement of 2 or more nerves), *plexopathy* (involvement of brachial or lumbosacral plexus) or *neuronopathy* (involvement of nerve cell body rather than its axon)

Differential based on clinical time course

- Acute (days)
 - Guillain-Barre syndrome
 - Acute intermittent porhyria
 - Critical illness polyneuropathy
 - HIV
- Subacute (weeks to months)
 - Exposure to toxins/medications
 - Nutritional deficiency (eg B12)
 - Metabolic derangements (eg DM)
 - Paraneoplastic syndrome
 - CIDP (chr inflam demyelinating polyneurop)
 - MGUS (monoclonal gammopathy of uncertain significance)

- Chronic or insidious (years)
 - Hereditary neuropathy
 - Metabolic derangements (eg DM)
 - HIV
 - CIDP
 - MGUS
- Relapsing/remitting course
 - CIDP
 - Acute intermittent porphyria

FBE, EUC, LFTs, fasting glucose, B12, folate, CRP, ANA,

- Toxin exposure
- HIV

ENA, serum and urine electrophoresis

Investigations Required

Information Required

- Presence of Red flags
- Duration
- Prior medical history
- Current, and any relevant prior medications
- Alcohol intake
- Family history of neuropathy
- Relevant examination findings

Fax Referrals to Neurology

• Flinders Medical Centre

Fax: 8204 4059

On the basis of the information provided, the patient will be triaged to consultation only, nerve conduction studies initially, or consultation and nerve conduction studies.

Red Flags Acute onset (refer to ED for assessment) Progressive symptoms and signs (days – weeks)	Sphincter disturbance (cord pathology likely) Associated respiratory compromise
 Suggested GP Management Perform suggested investigations Unless a direct cause can be identified and corrected, only symptomatic treatment can be offered with membrane stabilizing agents such as amitriptyline, carbamazepine or pregabalin 	 Clinical Resources Reference: Williams, O. Medlink. Clinical evaluation of peripheral neuropathies (updated October 2010).

www.sahealth.sa.gov.au/SALHNoutpatients

Version	Date from	Date to	Amendment
2.0	September 2016	October 2018	Removed RGH details
2.0	October 2019	October 2021	No changes
3.0	December 2022	December 2024	Fax number updated