

NEUROLOGY and STROKE

NALHN Outpatient Service Information, Triage & Referral Guidelines

Description of Service:

The NALHN Neurology and Stroke Service provides a tertiary service to patients with neurological conditions.

Conditions Seen Include:

- > [Epilepsy & First Seizure Clinics](#)
- > [Headache Clinic](#)
- > [Movement Disorders Clinics](#)
- > [Multiple Sclerosis & Neuroimmunology Clinics](#)
- > [Nerve Conduction and Electromyography Clinic](#)
- > [Neuromuscular Clinics](#)
- > [Stroke Clinic](#)
- > [TIA Rapid Assessment Clinic](#)

Exclusions:

- > Patients **under 18 years** old (alternative: paediatric neurologist at the Women's and Children's Hospital)
- > Patients **already being assessed/treated** for the same condition at another South Australian public hospital (alternative: current treating neurologist or private neurologist)
- > Patients who are seeking assessment as part of an **active Work Cover** claim (alternative: private neurologist)
- > Elderly patients requiring assessment/treatment of **multiple complex medical problems** (alternative: Geriatric Medicine)
- > Patients requiring assessment/treatment of **sleep disorders**, including narcolepsy (alternative: Respiratory/Sleep Medicine)
- > Patients requiring assessment/treatment for **back or neck pain** *without* focal neurological deficits and/or normal imaging (alternative: Spinal Clinic or Pain Management Unit)
- > Patients requiring assessment/treatment for **complex/longstanding pain disorders** (alternative: Chronic Pain Unit)
- > Patients requiring assessment/treatment for **non-specific symptoms**—such as feeling lightheaded, tingling or poor concentration—which may not necessarily be neurological in origin (alternative: additional evaluation in primary care setting then general physician if work up in primary care setting does not clarify things).

Referral Criteria:

- > Please include copies of all reports and results
- > Patients are seen based on the urgency, as judged from the referral, so referring doctors are urged to give a full and detailed referral to ensure that this is equitably managed.

NALHN prefers all referrals to be named to a clinician providing the service (see list below)

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Consultants

- > Dr Janakan Ravindran, Head of Unit
- > Dr Deborah Field
- > Dr Andrew Moey
- > Dr Graham Norton
- > Dr Wilson Vallat

Neuroimmunology (MS) & Neuromuscular
Neuroimmunology (MS) & Neuromuscular
Stroke & Headache & Botox clinic
Epilepsy & 1st Seizure Clinic
Movement Disorders

Clinical Practice Nurses

Sally Castle - TIA Nurse
Ruth Withey - Parkinson's Nurse
Vanessa Maxwell - MS Nurse

For More Information or to Make a Referral

Location: LMH OPD Area 2 – 2nd Floor Consulting Suites

Referral Fax Number: 8182 9355

Phone Number: via LMH Switchboard 81829000

Or

Location: MH OPD Area 2&3 – Ground Floor MH

Referral Fax Number: 8161 2591

Phone Number: via MH Switchboard 8161 2000

For more information about NALHN Outpatient services - www.sahealth.sa.gov.au/NALHNoutpatients

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EPILEPSY , FIRST SEIZURE & EEG CLINICS

- Strongly suspected new onset seizure disorder where the event is witnessed and/or there are features highly suggestive of seizure which does not meet any of the exclusion criteria below
- Patients with known epilepsy requiring ongoing shared management of refractory epilepsy
- Patients with known epilepsy for consideration of epilepsy surgery or vagal nerve stimulator insertion
- Patients with known epilepsy in the setting of planned or current pregnancy
- Patients requiring video EEG monitoring for diagnostic uncertainty or seizure classification
- Patients with previous seizure requiring specialist assessment for the purposes of obtaining a **commercial** drivers' licence (Note: private drivers' licences usually do not require specialist assessment. See [Assessing Fitness to Drive guidelines](#) for more information)
- Patients with known epilepsy wishing to withdraw anticonvulsant medication
- Patients with recent hospital admission for new onset seizures where specific epilepsy outpatient follow-up is required for ongoing diagnostic and/or management issues.
- **If referring to the clinic with suspected seizure – also send a referral for an EEG to be undertaken at the Neurology Dept. LMH**

Conditions which are not assessed by Epilepsy/First Seizure Clinics include:

- Seizures occurring in the setting of drug and/or alcohol intoxication or withdrawal
- Acute symptomatic seizures i.e. occurring in the setting of severe systemic illness, severe metabolic disturbance or concussion
- Unconscious collapse where no available collateral history or no features to strongly suggest seizure disorder
- Convulsive syncope
- Assessment primarily for the purposes of private drivers' licence renewal (this can be done using the [Assessing Fitness to Drive guidelines](#) by the patient's treating doctor, including their general practitioner)
- Seizures where diagnosis and investigations already complete +/- therapy commenced
- Patients with confirmed diagnosis of functional/psychogenic non-epileptic seizures
- Seizures occurring in the setting of advanced dementia

Information Required

- Clinical history & Prior management if applicable

Investigations Required

- EEG – please refer to LMH Neurology

Suggested GP Management - Referral to Neurology dept. for an EEG

Urgent < 1month	SEMI-URGENT Target <3months	NON-URGENT/ROUTINE
<ul style="list-style-type: none"> > New onset seizure not yet assessed/treated > Known epilepsy in setting of current pregnancy <p>Please Note:</p> <p>A Fitness to Drive Certificate is <i>NOT</i> a criteria for an urgent assessment</p>	<ul style="list-style-type: none"> > New onset seizures recently admitted to hospital for which specific outpatient follow-up for investigation/treatment is required > Known epilepsy (uncontrolled) for consideration of epilepsy surgery > Known epilepsy (uncontrolled) for ongoing shared care > Known epilepsy in setting of planning pregnancy (not yet pregnant) > Requiring video-EEG for diagnosis and/or classification 	<ul style="list-style-type: none"> > Known epilepsy (well controlled) wishing to withdraw medication > Previous seizures requiring specialist assessment for purposes of obtaining a commercial driver's licence

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HEADACHE CLINIC

- Migraine with or without aura which is:
 - requiring acute treatment more than 8 to 10 days per month and note responding to prophylaxis in usual dose range (see [eTG Neurology Guidelines on Migraine](#)) OR
 - requiring frequent emergency department or hospital treatment *or* days off work
 - atypical or where the diagnosis is uncertain
 - If referral is for **botulinum toxin therapy** where patient already assessed and meets PBS criteria
- Suspected trigeminal autonomic cephalgia (i.e. cluster headache, paroxysmal hemicrania, etc.)
- Other headaches where specialist input is required for diagnosis and management
- Conditions which are not assessed by Headache Clinic include:
- Patients with typical tension-type/migraine headache who have not trialled at least two prophylactic medications (must be listed in the referral)
- Headaches known to be due to secondary to disease better managed by alternative specialty clinic (e.g. cerebral vasculitis)
- Chronic pain syndromes (consider referral to Chronic Pain Unit)
- Non-specific symptoms which may not be neurological (e.g. feeling lightheaded, poor concentration) (consider referral to General Physician if initial evaluation in primary care does not clarify situation)

NOTES: *If receiving a referral for headaches with 'red flag' features consider referral to the Emergency Department*

Information Required

- Clinical history & prior management

Investigations Required

- Any scans previously undertaken

Red Flags

consider referral to ED LMH if positive for below

- 🚩 features of raised ICP – worse in the morning, exacerbated by coughing, sneezing, straining or bending forwards
- 🚩 associated focal neurological signs/ altered or impaired consciousness
- 🚩 abrupt onset – thunderclap headache
- 🚩 new onset progressive headache in pt > 50 yrs age – consider GCA

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URGENT Target < 1 month	SEMI-URGENT Target <3months	NON-URGENT/ROUTINE
<ul style="list-style-type: none"> > Headache with possible 'red flag' features which do not warrant ED presentation (discretion of triaging clinician) > Cluster headache/TAC not currently controlled > New onset migraine with atypical/focal neurological features > Suspected idiopathic intracranial hypertension (consider referral to ophthalmology at the time of triage) <p><i>Please arrange urgent MRI for all CAT 1 Headaches at the time of triaging</i></p>	<ul style="list-style-type: none"> > Disabling headache/migraine which has failed to respond to two prophylactic medications (must be listed in referral) > Headache/migraine with recurrent ED presentations, hospital admissions or days off work > Cluster headache/TAC currently managed/in remission but needed ongoing assessment/management 	<ul style="list-style-type: none"> > Headaches not meeting above criteria where specialist input is required for diagnosis or management

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MOVEMENT DISORDER CLINICS

Appropriate referrals include patients with:

- Tremor
- Involuntary movements suggestive of chorea, tics, myoclonus or dystonia
- Ataxia of uncertain cause
- Spasticity of undetermined cause
- Suspected or confirmed Parkinson's disease
- Suspected or confirmed atypical parkinsonism
- Gait disorders of uncertain aetiology
- Suspected or confirmed Huntington's disease
- Management of dystonia and blepharospasm with Botox

Patients which may not be appropriate:

- Patients of advanced age (>80 years) and/or have significant co-morbidities (e.g. dementia): consider General Medical or Geriatric Clinics
- Patients with established cause for symptoms (e.g. post-stroke spasticity): consider alternatives (e.g. rehabilitation)

Information Required

- Clinical history, prior management including medical therapy

Investigations Required

-

URGENT
Target < 1month

SEMI-URGENT
Target <3months

NON-URGENT/ROUTINE

Triaging of suspected or diagnosed movement disorders to the subspecialty clinic is dependent on the rapidity of progression and/or degree of associated disability and is at the discretion of the triaging clinician.

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MULTIPLE SCLEROSIS & NEUROIMMUNOLOGY CLINICS

Appropriate referrals include patients with:

- Suspected or confirmed multiple sclerosis – including relapsing-remitting, secondary progressive & primary progressive forms
- Suspected or confirmed neuromyelitis optica spectrum disorders (NMOSD)
- Optic neuritis with suspicion for multiple sclerosis
- Suspected or confirmed myasthenia gravis or Lambert-Eaton myasthenic syndrome (LEMS)
- Suspected or confirmed neurosarcoidosis
- Suspected or confirmed cerebral vasculitis
- Suspected or confirmed autoimmune encephalitis

Where the request is for symptom management please consider if the problem may be more appropriately referred to a Rehabilitation Clinic.

Conditions which are **not** assessed by Multiple Sclerosis/Neuroimmunology Clinics include:

- Non-specific changes seen on an MRI Brain without any clinical symptoms to suggest a demyelinating disorder – if additional advice regarding the scan results is required, please discuss the case with the reporting radiologist in the first instance.

Information Required

- Clinical history & prior investigations

Investigations Required

- NA

Red Flags

-  rapidly progressive symptoms

URGENT

Target < 1month

- > *Please consider whether new onset conditions need hospital admission*
- > Any of the above conditions which are new onset that do not require hospital admission

SEMI-URGENT

Target <3months

- > Any of the above who have already been assessed and a relatively stable but require ongoing specialist follow up

NON-URGENT/ROUTINE

- > Any referral for **second opinion** needs to be triaged by the consultant responsible for the clinic
- > Chronic longstanding stable neuroimmune disorder (e.g. secondary progressive MS) for ongoing care

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NERVE CONDUCTION AND ELECTROMYOGRAPHY CLINIC

- Diagnosis/evaluation of carpal tunnel syndrome and other compressive neuropathies
- Diagnosis/evaluation of peripheral neuropathy
- Diagnosis/evaluation of myopathy
- Diagnosis/evaluation of neuromuscular junction disorders
- Diagnosis/evaluation of suspected amyotrophic lateral sclerosis
- Diagnosis/evaluation of suspected radiculopathy
- Diagnosis/evaluation of suspected brachial plexus disorders

Information Required

- Clinical history & examination, prior investigations

Investigations Required

- NA

Red Flags

- if rapidly progressive symptoms consider referral to ED LMH

This is a guideline only. The clinical scenario may change the appropriate triage category significantly.

URGENT Target < 1month	SEMI-URGENT Target <3months	NON-URGENT/ROUTINE
<ul style="list-style-type: none"> > Suspected Guillain-Barre syndrome (consider need for admission) > Any rapidly progressive and/or disabling neuropathy where vasculitis/autoimmune cause considered > Suspected amyotrophic lateral sclerosis > Suspected new onset disabling myopathy > Suspected new onset neuromuscular junction disorder > Acute/subacute brachial plexus disorders 	<ul style="list-style-type: none"> > Suspected carpal tunnel syndrome > Suspected ulnar neuropathy > Chronic neuropathy with degree of disability > Suspected radiculopathy 	<ul style="list-style-type: none"> > Non-specific sensory symptoms > Chronic neuropathy with no or minimal disability

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NEUROMUSCULAR CLINICS

Appropriate referrals include patients with:

- Suspected acquired primary muscle diseases (e.g. myopathy, myositis)
- Suspected late-onset hereditary nerve and muscle diseases
- Disabling, progressive or 'red flag' peripheral neuropathy (subacute, motor predominant, non-length-dependent, associated systemic symptoms, or associated autonomic dysfunction)
- Confirmed acquired or hereditary muscle disorder with ongoing surveillance/medical management issues
- Confirmed acquired or hereditary neuropathy requiring treatment and/or ongoing surveillance/medical management

Conditions which are **not** assessed by Neuromuscular and Peripheral Neuropathy Clinics include:

- Myopathy in setting of other severe systemic illness known to cause myopathy (e.g. severe hypothyroidism)
- Confirmed hereditary or acquired muscle disorder with no ongoing medical management/surveillance issues (consider referral to rehabilitation services)
- Confirmed hereditary peripheral neuropathy with no ongoing medical management/surveillance issues (e.g. genetically confirmed Charcot-Marie-Tooth disease) (consider referral to rehabilitation specialist)
- Peripheral neuropathy not fulfilling the above criteria (consider referral to General Neurology Clinic, if specialist input required)

Information Required

- Clinical history, examination and any prior relevant investigations

Investigations Required

- NA

Red Flags

- 🚩 rapidly progressive symptoms – refer to ED at LMH

URGENT Target < 1month

- > Subacute and/or significantly disabling suspected new onset muscle disease
- > Subacute and/or significantly disabling suspected new onset peripheral neuropathy
- > Subacute and/or significantly disabling suspected new onset neuromuscular junction disease

SEMI-URGENT Target <3months

- > New onset muscle, neuromuscular junction or nerve disease not meeting Cat 1 criteria
- > Suspected late-onset hereditary nerve or muscle disease where there is a degree of disability
- > Confirmed acquired or hereditary muscle, neuromuscular junction or nerve disease with ongin medical management/surveillance issues

NON-URGENT/ROUTINE

- > Suspected late-onset hereditary nerve or muscle disease where there is **no** significant current disability
- > Non-specific, non-disabling symptoms for assessment regarding possible underlying muscle or nerve disorder

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STROKE CLINIC

Appropriate referrals include patients with:

- Patients requiring ongoing management for prior stroke or stroke-related complications
- Patients requiring ongoing management for venous sinus thrombosis
- Patients requiring ongoing management for carotid artery dissection
- Patients requiring ongoing management for cerebral amyloid angiopathy

Conditions which are not assessed by Stroke Clinics include:

- Patients with a remote history of stroke without recent neurological symptoms
- Patients with recent stroke without specific ongoing diagnostic or management issue
- Patients where the primary purpose of the review is to assess fitness to drive (consider referral to Driving Fitness Assessment Clinic through Rehabilitation Medicine)

Information Required

- Prior history including details of prior management

Investigations Required

- NA

Red Flags

- 🚩 acute stroke symptoms and signs – call SAAS ASAP

URGENT Target < 1month	SEMI-URGENT Target <3months	NON-URGENT/ROUTINE
<ul style="list-style-type: none"> > New onset focal neurological symptoms > 4 weeks prior to referral attributable to likely stroke 	<ul style="list-style-type: none"> > NA 	<ul style="list-style-type: none"> > NA

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TIA RAPID ASSESSMENT CLINIC

Appropriate referrals include patients with:

1. Patients with acute onset of possible transient ischaemic attack symptoms within the last 4 weeks

Conditions which are not assessed by TIA Rapid Access Clinics include:

1. Patients with persisting symptoms (send patient to the Emergency Department)
2. Patients with symptom onset greater than 4 weeks prior (redirect to **Stroke Clinic**)

Information Required

- History and prior investigations

Investigations Required

-

Red Flags

- ongoing focal neurological signs – refer ED LMH

URGENT Target < 1month

Triaging for this service is performed by the TIA Clinic. All forwarded to the clinic as Cat 1 Appoint Immediately.

SEMI-URGENT Target <3months

NA

NON-URGENT/ROUTINE

NA

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