



Australian Association of Musculoskeletal Medicine

CERTIFICATE IN MUSCULOSKELETAL MEDICINE

MODULE 2

ASSESSMENT AND MANAGEMENT OF NECK AND UPPER BACK PAIN

Aims

- to outline an efficient and careful approach to the assessment and management of patients with neck and upper back pain seen in a General Practice, Pain Medicine or Rehabilitation setting
- to teach the clinical features that offer the best route to a specific diagnosis, highlighting key elements of history taking, examination, investigation and current management options through case based discussions and supervised practice of hands-on skills
- to teach movement assessment, palpation of key surface anatomy landmarks in the spine and special tests to make an accurate diagnosis
- to discuss the benefits and limitations of spinal investigations
- to demonstrate and practice general and condition-specific management strategies for use in general practice
- to use small group case discussions and personal feedback on the approach to history, examination, investigation and management techniques to enhance learning

Learning Outcomes

1. Implement a systems based approach to assessment of neck and upper back complaints, minimise misdiagnosis and unnecessary investigations and improve management
2. Apply evidence-informed history taking methods for patients with neck and upper back complaints
3. Apply reliable and valid physical examination tests in patients with neck and upper back complaints
4. Defend the choice of investigations for neck and upper back pain and interpret the results in light of existing evidence about them.
5. Explain clinical reasoning skills utilised in the diagnosis of neck and upper back complaints
6. Implement effective and appropriate management strategies in patients with neck and upper back complaints, including the provision of evidence based advice

Module Components and Enrolment

The module comprises a prereading component requiring approximately 6 hours and including an open book multiple choice examination for completion and submission prior to the workshop. The prereading document covers the following topics:

- Anatomy and Biomechanics
- Referred pain patterns
- Diagnostic/Clinical Reasoning Frameworks
- Clinical features of specific pathoanatomical conditions
- Thoracic back pain
- History
- Preparation for physical examination of the neck and upper back
- Surface anatomy of the cervical and thoracic spines
- Examination of the cervical spine
- Examination of the thoracic spine
- Radiology of the cervical spine
- Prognostic indicators in cervical spine pain
- Therapy
 - Pharmacological
 - Non-pharmacological
 - Manual
 - Posture, ergonomics and body posture
 - Pectoral hypothesis
 - Facet and medial branch blocks and radiofrequency neurotomy
 - Occipital nerve blocks
 - Prolotherapy
 - Lyftogt Perineural Injection Treatment

Workshop

WHEN?	Saturday 20 th February, 2021, 8.30 am – 5.00 pm
WHERE?	View Hotel, Kingsford Smith Drive & Hunt St, Hamilton, Brisbane
CONVENOR:	Dr Michael Yelland – GP & Musculoskeletal Medicine Practitioner, Brisbane - Associate Professor, School of Medicine, Griffith University
TUTORS:	Musculoskeletal Medicine Practitioners to be announced
MODULE COST:	GPs - \$690; AAMM members - \$590; Registrars - \$490; Medical Students and Repeat modules - \$390
REGISTRATION:	Visit https://aamm.org.au/courses-conference/ for further details and to register or contact Kim Ramillon at aamm.cert@gmail.com or phone 0475 091 625

Professional development points:

This module is an RACGP CPD Accredited Activity (Activity Number 225489) and has been allocated 40 CPD program points in the 2020-2022 triennium. This activity is accredited with ACRRM (Activity Number 21378) and is eligible for 8 Educational Activity Hours and 7 Performance Review Hours.



Provisional Schedule for Workshop on 20th February 2021 (Brisbane)

TOPIC	ELEMENTS	LEARNING METHOD	TIME ALLOCATION
1.Introduction	<ul style="list-style-type: none"> Housekeeping including allocation to small groups for remainder of workshop Outline of learning objectives and schedule for the day Emphasise requirement to examine each other MCQ test answers discussed 	Presentation by convenor	8.30 – 8.50 am (20 minutes)
2. History	Targeted history for <ul style="list-style-type: none"> Neck pain Neck pain + upper limb pain Neck pain + upper limb pain + neurological symptoms Upper back pain Red flags Yellow flags/psychosocial assessment – questions and questionnaires Assessment of disability/loss of function - questions and questionnaires Present and past treatments and responses to them Past investigations/blocks Occupation/hobbies/sports 	Interactive discussion of cases and prereading	8.50 – 10.00 am (70 minutes)
Morning tea			10.00- 10.15 am (15 minutes)
3. Examination	<ul style="list-style-type: none"> Inspection Gross range of movements +/- overpressure Provocative tests (eg quadrant and Spurlings tests) Brachial plexus tension test Neurological – power/reflexes/sensation Palpation- tissue texture change/spinous processes/paraspinal tissues/muscle/trigger points Discussion of clusters of signs seen with <ul style="list-style-type: none"> Neck pain Neck pain + upper limb pain Neck pain +upper limb pain + neurological symptoms Upper back pain red flags and yellow flags Debrief on positive findings in participants after completion of examinations 	Limited demonstration Followed by practice of examination techniques on each other with review by tutors. Discussion of signs found on participants.	10.15 am – 11.45 am (90 minutes)

TOPIC	ELEMENTS	LEARNING METHOD	TIME ALLOCATION
4. Investigation and clinical reasoning	<ul style="list-style-type: none"> • Benefits vs risks • Tailoring investigations for <ul style="list-style-type: none"> • Neck pain • Neck pain + upper limb pain • Neck pain +upper limb pain + neurological symptoms • Upper back pain <ul style="list-style-type: none"> • red flags • Interpretation of results in context • Xray vs CT vs MRI vs other – West Australian guidelines • Blood tests • Workcover and medicolegal aspects • Use of injections as an investigation after briefing patient about them • Reaching a working diagnosis based on history, examination +/- investigations 	Interactive discussion of prereading applied to cases discussed earlier.	11.45 – 12.30 pm (45 minutes)
Lunch			12.30 – 1.00 pm (30 minutes)
5. Management	<ul style="list-style-type: none"> • Education • Medication • Manual techniques • Muscle energy therapy for the cervical spine • Home rotational and extension stretches for the thoracic spine and pectorals • Mobilisation <ul style="list-style-type: none"> ○ Traction of cervical spine by therapist and using cervical pillow ○ Thoracic spine <ul style="list-style-type: none"> ▪ Crossed pisiform technique ▪ Rotation in sitting technique • Trigger point <ul style="list-style-type: none"> ○ Identification ○ Release using ischaemic pressure by therapist for upper trapezius, lateral neck muscles and suboccipital muscles ○ Patient release for upper trapezius • Injections <ul style="list-style-type: none"> ○ Occipital nerve block technique 	Interactive discussion of prereading Demonstration and practice of manual techniques on each other Trial of exercises Demonstration and practice of injections using capped needles.	1.00 - 3.00 pm and 3.15 - 4.00 pm (165 minutes)

	<ul style="list-style-type: none"> ○ Discussion about prolotherapy and perineural injection treatment 		
Afternoon tea			3.00 – 3.15 pm (15 minutes)
TOPIC	ELEMENTS	LEARNING METHOD	TIME ALLOCATION
6. Follow-up and monitoring	<ul style="list-style-type: none"> • Illustrations of simple tools that can be used efficiently in general practice • Discussion of timing of follow-up 		4.00 – 4.10 pm (10 minutes)
7. Case discussions	<ul style="list-style-type: none"> • Cases provided by participants and tutors • Case details revealed progressively with questions to encourage participants to apply their knowledge and skills about neck and upper back pain 	Interactive discussion of cases.	4.10 – 4.40 pm (30 minutes)
8. Review of the workshop and next steps	<ul style="list-style-type: none"> • Key learning points in each section • Outline of post workshop activities and ALM and certificate requirements • Future modules and learning opportunities • Completion of evaluation forms 	<p>Presentation by convenor</p> <p>Completion of evaluation forms by participants</p>	20 minutes including 10 minutes completion of evaluation forms