



ACRRM

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Fellowship Education Program

Semester D - 2024

Resource list

[Module 1 - Rheumatology and Immunology](#)

[Module 2 - Neurology and Rehabilitation](#)

[Module 3 - Infectious Diseases](#)

[Module 4 - Eyes, Ears, Mouth and Nose](#)

[Module 5 - Endocrinology](#)

Module 1 - Rheumatology and Immunology

Rheumatology is the diagnosing, treating and managing diseases of the joints, muscles and bones. This includes:

- arthritis – where joints are painful, swollen and stiff
- other musculoskeletal conditions - which affect bones, muscles, tendons, ligaments as well as joints
- autoimmune diseases – where the musculoskeletal system and other body parts, including eyes, skin, internal organs and the nervous system, can be inflamed.

Immunology is the treatment of health issues brought on by immune system problems. Also known as allergists, immunologists are doctors who diagnose, treat, and work to prevent immune system disorders.

Topics covered:

- Acute Polyarthritis - Rheumatoid Arthritis
- Myositis
- Inflammatory Connective Tissue Disease
- Vasculitides
- Scleroderma

Acute Polyarthritis - Rheumatoid Arthritis

[Chronic musculoskeletal conditions : Rheumatoid arthritis - Australian Institute of Health and Welfare \(aihw.gov.au\)](#)

[Clinical guideline for the diagnosis and management of early rheumatoid arthritis \(racgp.org.au\)](#)

[Early diagnosis and management of rheumatoid arthritis: algorithm \(racgp.org.au\)](#)

[Rheumatoid arthritis: reading & resources - NPS MedicineWise](#)

Inflammatory muscle conditions

[Cataract - Eye Disorders - MSD Manual Professional Edition \(msdmanuals.com\)](#)

[Myositis Association, 2022](#)

[Pathogenesis of inflammatory myopathies - UpToDate](#)

[Rhabdomyolysis: Epidemiology and etiology - UpToDate](#)

Inflammatory Connective Tissue Disease

[2019 EULAR/ACR Classification Criteria for Systemic Lupus Erythematosus - PMC \(nih.gov\)](#)

[AFP: Systemic lupus erythematosus – when to consider and management options](#)

[Clinical Practice Guidelines | Sjögren's Foundation \(sjogrens.org\)](#)

[How to Treat | AusDoc](#) - Will need to set up an account – Free access.

[Inflammatory Connective Tissue Disease – Therapeutic Guidelines](#)

[Mixed connective tissue disease - UpToDate](#)

[Systemic lupus erythematosus: an update | The Medical Journal of Australia \(mja.com.au\)](#)

[Systemic-lupus-erythematosus.aspx \(racgp.org.au\)](#)

Vasculitides

[DermNet NZ – All about the skin | DermNet NZ](#)

[Vasculitides - Knowledge @ AMBOSS](#)

Scleroderma

[Diagnoses & Tests - National Scleroderma Foundation](#)

Hinchcliff, M., Varga, J. 2008. [Systemic Sclerosis/Scleroderma: A Treatable Multisystem Disease](#) | AAFP. American Family Physician. Volume 78.

<https://scleroderma.org/living-well-with-scleroderma/>

[Scleroderma - symptoms, causes and treatment | healthdirect](#)

[Supporting the Scleroderma Community | Scleroderma Australia | Home](#)

[Scleroderma: Definition, Types, Symptoms, Causes, and Treatment \(webmd.com\)](#)

[Scleroderma - symptoms, causes and treatment | healthdirect](#)

[Systemic sclerosis | DermNet NZ](#)

Red flags in scleroderma. November 2008, Australian Family Physician 37(10):831-4; Source; PubMed; Authors: Qiang Li. Qiang Li. Reprinted from Australian Family Physician Vol. 37, No. 10, October 2008

[What is scleroderma \(systemic sclerosis\) | More Than Scleroderma](#)

Module 2 - Neurology and Rehabilitation

A GP is the first point of call for many people facing neurological issues or requiring support during rehabilitation. Some of the major conditions that may present at a GP clinic or hospital include:

- Parkinson Disease, Essential Tremor
- Rehabilitation, Abnormal Gait
- Headache in Adults
- Multiple Sclerosis, Guillian-Barre Syndrome and Motor Neurone Disease

Neurology and Rehabilitation resources

[Back to index](#)

[2: Rehabilitation of patients after stroke | The Medical Journal of Australia \(mja.com.au\)](#)

[Abnormal Gait: Gait Disorder Types, Causes & Treatments \(clevelandclinic.org\)](#)

[Acute cerebellar ataxia: MedlinePlus Medical Encyclopedia](#)

[ADL Assessments by Recovery Partners | Injury Management \(rrp.com.au\)](#)

[Ataxia | Johns Hopkins Medicine](#)

[Cerebellum and neurodegenerative diseases: Beyond conventional magnetic resonance imaging - PMC \(nih.gov\)](#)

[Depression and anxiety after stroke... | Stroke Foundation - Australia](#)

[Frontal Lobe Syndrome - PubMed \(nih.gov\)](#)

[Gait Analysis - an overview | ScienceDirect Topics](#)

[Introduction to Primary Health Care - ACRRM course](#)

[Murtagh Collection \(mhmedical.com\)](#)

[Stroke Pathway June 2017.pub \(sahealth.sa.gov.au\)](#)

Module 3 - Infectious Diseases

Identifying and treating infectious diseases are an integral part of a GP's role. In rural and remote areas, particular infectious diseases present in the clinic. Understanding the causes, treatments and possible referral process is essential to patient welfare.

This module covers the following topics:

- Zoonoses and Febrile Conditions
- Travel Medicine
- Antimicrobial Stewardship
- Infectious Diseases and Pregnancy
- Leprosy and TB

Zoonoses and febrile conditions

[Home Page - Australian Q Fever Register](#)

[Q Fever - Early Diagnosis and Vaccination](#)

Travel Medicine

[ACRRM Yellow Fever Vaccination Course](#)

[History of immunisation in Australia | NCIRS](#)

[Home - Fit for Travel](#)

[Homepage | Smartraveller](#)

[Journal of Travel Medicine | Oxford Academic \(oup.com\)](#)

[NaTHNaC - Home \(travelhealthpro.org.uk\)](#)

[Travelers' Health | CDC](#)

[Travel Doctor-TMVC | Travel Health Experts](#)

[Travel Medicine and Infectious Disease | Journal | ScienceDirect.com by Elsevier](#)

[Tropimed - Travel Medicine Support System](#)

[Vaccine preventable diseases | The Australian Immunisation Handbook \(health.gov.au\)](#)

[WHO | World Health Organization](#)

References

- [AFP: Travel and immunosuppressant medication](#)
- [Assessing fever in the returned traveller. Gherardin and Sission. Australian Prescriber 2012](#)
- [Assessment of febrile illness in the returned traveller. P Leggat. AFP 2007](#)
- [eTG \(Therapeutic Guidelines\)](#)
- [Infections in the returned traveller MJA 2002](#)
- [Management of Traveller's Diarrhoea \(BMJ\)](#)
- Murtagh's General Practice 8th edition
- [Parasitic causes of prolonged diarrhoea in travellers - Diagnosis and management \(AFP\)](#)
- [RACGP - Advising travellers about management of travellers' diarrhoea](#)
- [RACGP - Are we there yet? Travel vaccinations for Australian children](#)
- [Travel advice for the immunocompromised traveler: prophylaxis, vaccination, and other preventive measures - PMC \(nih.gov\)](#)
- [The pre-travel consultation](#)
- [Travel vaccination. S Lau. AFP 2007](#)
- [Traveller's diarrhoea](#)
- [Traveller's Diarrhoea. Bob Kass. Australian Family Physician Vol. 34, No. 4, April 2005](#)
- [The returned traveller with diarrhoea. Goldsmith and Leggat, AFP 2007](#)
- [Yellow Book Home | Travelers' Health](#)
- Yung et al. Manual of Travel Medicine. Third edition, Melbourne 2011. IP Communications. Kindle Edition.

Antimicrobial Stewardship

[AURA report on antimicrobial use and resistance in human health AURA 2019: Third Australian report on antimicrobial use and resistance in human health | Australian Commission on Safety and Quality in Health Care](#)

[National AMR Strategy Australia's National Antimicrobial Resistance Strategy – 2020 and beyond | Antimicrobial resistance \(amr.gov.au\)](#)

[NPS Antimicrobial stewardship: what's it all about? - Australian Prescriber \(tg.org.au\)](#)

Perinatal Infections

[Clinical guidelines - WA Health](#)

[Guidance for maternity and newborn care: NSW Health](#)

[Perinatal and congenital infections: Queensland Health](#)

[South Australian Perinatal Practice Guidelines \(SAPPG\)](#)

References

- RANZCOG, 2019, [Management-of-Hepatitis-B-in-pregnancy-C-Obs-50.pdf \(ranzcog.edu.au\)](#)
- RCOG, 2015, [Chickenpox in Pregnancy \(Green-top Guideline No. 13\) | RCOG](#)
- RCOG, 2019, [Care of Women Presenting with Suspected Preterm Prelabour Rupture of Membranes from 24+0 Weeks of Gestation \(Green-top Guideline No. 73\) | RCOG](#)
- Schrag SJ, Zell ER, Lynfield R, Roome A, Arnold KE, Craig AS, Harrison LH, Reingold A, Stefonek K, Smith G, Gamble M, Schuchat A for the Active Bacterial Core Surveillance Team, 2002, A population-based comparison of strategies to prevent early-onset group B streptococcal disease in neonates, *New England Journal of Medicine*, 347(4): 233–39
- Verani JR, McGee L, Scrhag S for the Division of Bacterial Diseases, National Center for Immunization and Respiratory Diseases, 2010, Prevention of Perinatal Group B Streptococcal Disease – Revised Guidelines from CDC, 2010;59 (RR-10):1-36.

Leprosy

A Handbook of skin conditions in Aboriginal Populations of Australia Dr Allen C Green 2001 (reprinted 2007)

[A Handbook Of Skin Conditions in Aboriginal Populations of Australia, Allen C. Green : Delwyn Dyall-Smith, Alan Cooper, Australian Dermatology Research and Education Foundation Australia, Office for Aboriginal and Torres Strait Islander Health : Free Download, Borrow, and Streaming : Internet Archive](#)

Dermnetz

[Leprosy \(Hansen disease\) | DermNet \(dermnetz.org\)](#)

NT and WA guidelines on the management of Leprosy:

[Control of Leprosy in the Northern Territory Guidelines.pdf](#)

[WATBCP-WA-Leprosy-Guideline.pdf \(health.wa.gov.au\)](#)

Remote Primary Health Care Manuals.

[Health Care Manuals Overview - CRH - Centre for Remote Health](#)

[Resources - Hot North](#)

Tropical Health Orientation Manual (THOM). Alice Springs, NT: Centre for Remote Health; 2020.

[Tropical Health Orientation Manual - CRH - Centre for Remote Health](#)

Websites:

[HealthPathways Northern Territory \(healthpathwayscommunity.org\)](#)

[Home | RPHCM \(remotephcmmanuals.com.au\)](#)

National Guide to a health assessment for aboriginal and torres strait islander people

[RACGP - National guide to a preventive health assessment for Aboriginal and Torres Strait Islander people](#)

WHO Guidelines for the Diagnosis, Treatment, and Prevention of Leprosy 2018

[9789290226383-eng.pdf \(who.int\)](#)

TB

- ACRRM online learning module - ADI - Tuberculosis and the experiences of Australian Doctors International in Papua New Guinea

Current annual TB incidence data available – WHO

[2.1 TB incidence \(who.int\)](#)

[Global Tuberculosis Report 2022 \(who.int\)](#)

Department of Home Affairs - Health examinations

[What health examinations you need \(homeaffairs.gov.au\)](#)

eTG complete (Therapeutic Guidelines) > Antibiotic > Tuberculosis

Hemoptysis: Evaluation and Management

JOHN SCOTT EARWOOD, MD, Dwight D. Eisenhower Army Medical Center, Fort Gordon, Georgia, TIMOTHY DANIEL THOMPSON, MD, Mendoza Clinic, Fort Bliss, Texas, Am Fam Physician. 2015 Feb 15;91(4):243-249. [Hemoptysis: Evaluation and Management | AAFP](#)

Guideline: Laboratory Diagnostic Tests and Interpretation - NSW Health March 2017

[lab-diagnosis-tb-guideline.pdf \(nsw.gov.au\)](#)

List of countries with a tuberculosis incidence of 40 cases per 100,000 persons or greater – NSW Health

[High TB incidence countries \(nsw.gov.au\)](#)

Medicare Benefits Schedule - Item 69471 (IGRA testing)

[Item 69471 | Medicare Benefits Schedule \(health.gov.au\)](#)

- Murtagh's Diagnostic Strategies, 1e
- Murtagh's General Practice, 7e

National Department of Health Tuberculosis Information Portal

[Tuberculosis \(TB\) | Australian Government Department of Health and Aged Care](#)

Ritz N, Tebruegge M, Camacho-Badilla K, Haeusler GM, Connell TG, Curtis N. To TST or not to TST: is tuberculin skin testing necessary before BCG immunisation in children? *Vaccine* 2012; 30(8): 1434–6.

The Australian Immunisation Handbook.

<https://immunisationhandbook.health.gov.au/vaccine-preventable-diseases/tuberculosis>

The Strategic Plan for Control of Tuberculosis in Australia, 2016–2020: Towards Disease Elimination

The National Tuberculosis Advisory Committee for the Communicable Diseases Network Australia, *Commun Dis Intell* (2018) 2019;43, (<https://doi.org/10.33321/cdi.2019.43.10>) Epub 15/04/2019 [ntac the strategic plan for control of tuberculosis in australia, 2016–2020.pdf \(health.gov.au\)](#)

Position statement on interferon- γ release assays for the detection of latent tuberculosis infection Dept of Health 2017 <https://www1.health.gov.au/internet/main/publishing.nsf/Content/cdi4104-c>

For further information on the epidemiology and management of TB in Australia see Guidelines below;

Guidelines

Control of Tuberculosis. Canberra Hospital and Health Services. Operational Procedure 2017

[Control of Tuberculosis.docx \(live.com\)](#)

Guidelines for Tuberculosis Control in Western Australia September 2019

[WATBCP-Guidelines-for-TB-Control.pdf \(health.wa.gov.au\)](#)

Guidelines for the control of Tuberculosis in the Northern Territory

[TB Guidelines May 2016.pdf \(nt.gov.au\)](#) Centre for Disease Control 5th Edition May 2016.

Guideline - Treatment of tuberculosis in adults and children Qld Health December 2021

[Clinical Practice Guidelines | Queensland Health](#)

Management, control and prevention of tuberculosis. Guidelines for health care providers. State Government Victoria May 2015

[tb-guidelines-2015.pdf \(health.vic.gov.au\)](#)

NT Govt Department of Health

[Tuberculosis \(TB\) | NT Health](#)

NTAC (National TB Advisory Committee) guidelines, publications, position statements

[National Tuberculosis Advisory Committee | Australian Government Department of Health and Aged Care](#)

[Tuberculosis – CDNA National Guidelines for Public Health Units | Australian Government Department of Health and Aged Care](#)

WHO TB Guidelines

[TB guidelines \(who.int\)](#)

[WHO eTB Guidelines \(recmap.org\)](#)

State and Territory TB services and information:

ACT TB service

[Tuberculosis.pdf \(act.gov.au\)](#)

NT CDC TB unit contact details

[Centre for Disease Control contacts | NT Health](#)

NT CDC – further information

[Public health and notifiable diseases | NT Health](#)

NSW health TB information

[About the NSW TB Program](#)

Principles for the Management of Tuberculosis in New South Wales - [PD2022_007.pdf \(nsw.gov.au\)](#)

QLD health TB services

[Contact a tuberculosis service | Queensland Health](#)

SA TB Services

[SA Tuberculosis services in CALHN | SA Health](#)

Tasmania

[Recurrent Respiratory Infections/Tuberculosis - Outpatient Clinics, Tasmanian Health Organisation \(outpatients.tas.gov.au\)](#)

WA TB Control Program

[Anita Clayton Centre \(healthywa.wa.gov.au\)](#)

[Referral to the Western Australian Tuberculosis Control Program \(health.wa.gov.au\)](#)

[About the Western Australia Tuberculosis Control Program \(health.wa.gov.au\)](#)

WA TB Information

[Tuberculosis \(health.wa.gov.au\)](#)

Victorian Tuberculosis Program (includes links to guidelines, forms, further information)

[Victorian Tuberculosis Program | The RMH](#)

Epidemiology:

[Tuberculosis notifications in Australia, 2014 - The department of health](#)

- [Department of Health and Aged Care | Tuberculosis notifications in Australia, 2014 the strategic plan for control of tuberculosis in australia 2021 2025.pdf \(health.gov.au\)](#)

National Notifiable Diseases Surveillance System – Notification rate of tuberculosis, received from state and territory health authorities in the period of 1991 – 2018 and year-to-date notifications for 2019 (accessed 2/12/19)

- http://www9.health.gov.au/cda/source/rpt_4.cfm

NSW TB reports

[Epidemiology - Tuberculosis \(nsw.gov.au\)](#)

[2021-tb-report.pdf \(nsw.gov.au\)](#)

[The epidemiology of tuberculosis in the Australia Capital Territory, 2006-2015 - PubMed \(nih.gov\)](#). Commun Dis Intell Q Rep.2017 Sep 1;41(3):E231-E240.

Tuberculosis in Queensland, Published by the State of Queensland (Queensland Health)

[report-tb-qld-2017-2019.pdf \(health.qld.gov.au\)](#)

[tb-epi-summary-2022.pdf \(health.qld.gov.au\)](#)

[Tuberculosis | Communicable disease control guidance \(health.qld.gov.au\)](#)

WHO Global Report - Australia

[WHO Australia | World Health Organization](#)

[Global Tuberculosis Programme \(who.int\)](#)

Module 4 - Eyes, Ears, Mouth and Nose

Numerous conditions will present at a clinic or hospital that are related to eyes, ears, mouth or nose. It is important to understand these conditions so that a diagnosis can be completed and treatment offered. In rural and remote areas, the GP may be the only person able to diagnose and treat these conditions.

Topics include:

Eyes

- Progressive Bilateral Visual Loss
- Sudden Loss of Vision
- The red eye

Ears, nose and throat

- Hearing Loss
- Otitis Media in Children
- Allergic Rhinitis and Polyps
- Vertigo and Tinnitus
- Facial Pain and Swelling

Dizziness and Vertigo

Branch, Jr. W.T., Barton, J.J.S. Approach to the patient with dizziness. Published in 2020.

Hain, Timothy, Feb 19, 2022. 'Vestibular Neuritis and Labyrinthitis'. [Vestibular neuritis and labyrinthitis \(dizziness-and-balance.com\)](#)

Harry Hohnen. 'Neurological examination. Geekymedics.com. 'The Head Impulse, Hystagmus, Test of Skew (HINTS) Examination. Last updated: November 12, 2021

[Vestibular and Balance \(hearingaidsoman.com\)](#)

HINTS to Diagnose Stroke in the Acute Vestibular Syndrome. Three-Step Bedside Oculomotor Examination More Sensitive Than Early MRI Diffusion-Weighted Imaging

[Vertigo the Big 3](#) • LITFL • Vertigo evaluation and treatment

Jorge C. Kattah, Arun V. Talkad, David Z. Wang, Yu-Hsiang Hsieh and David E. Newman-Toker HINTS to [Diagnose Stroke in the Acute Vestibular Syndrome | Stroke \(ahajournals.org\)](#)

Kattah, J.C., Talkad, A.V., Wang, D.Z et. Al. HINTS to diagnose Stroke in the Acute Vestibular Syndrome – Three Step Bedside Oculomotor Exam More Sensitive than Early MRI DWI. Published in 2009.

Neuhauser H.K. The Epidemiology of Vertigo and imbalance. Published in 2013.

Originally published 17 Sep 2009 <https://doi.org/10.1161/STROKEAHA.109.551234> Stroke. 2009;40:3504–3510

Facial pain and swelling

[ABCDs of Emergency Medicine, 9th Edition 2021](#)

[Clinical Practice Guidelines : Sore throat \(rch.org.au\)](#)

[Clinical Practice Guidelines : Acute upper airway obstruction \(rch.org.au\)](#)

[Ludwig angina • LITFL • CCC Infectious diseases](#)

[Therapeutic Guidelines](#)

Module 5 - Endocrinology

Endocrinology is about the treatment of people with a range of conditions that are caused by problems with hormones, such as diabetes, menopause and thyroid problems.

Hormones are part of the endocrine system, a series of glands that produce and secrete hormones that control many different bodily functions. The endocrine system includes:

- the pituitary gland
- the thyroid gland
- the parathyroid gland
- the adrenal glands
- the pancreas
- ovaries and testes

This module covers the following topics:

- Diabetes
- Thyroid Disease
- Hypercalcaemia
- Cushing Syndrome
- Hyponatraemia & SIADH
- Pituitary Gland Disorders

Hypercalcaemia

[Assessment of hypercalcaemia - Differential diagnosis of symptoms | BMJ Best Practice](#)

[The Role of Calcium in Human Aging \(nih.gov\)](#)

[Medical Management of Hypercalcemia \(researchgate.net\)](#)

Cushing Syndrome

[Factsheet-Cushings-Disease-Final-12-Feb.pdf \(pituitary.asn.au\)](#)

[File:Cushings 25.jpg – Physiopedia \(physio-pedia.com\)](#)

Hyponatraemia & SIADH

[Central Pontine Myelinolysis | National Institute of Neurological Disorders and Stroke \(nih.gov\)](#)

[Demeclocycline - an overview | ScienceDirect Topics Hyponatraemia • LITFL • CCC Electrolytes](#)

[The Role of V2 Receptor Antagonists in the Treatment of Hyponatremia](#)

[SIADH • LITFL • CCC Electrolytes](#)

[What is Addison's Disease? \(news-medical.net\)](#)

Pituitary Gland Disorders

[Pituitary gland | healthdirect](#)