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Advanced Training in Dermatology

Curriculum standards



About this document

The new Advanced Training in Dermatology curriculum consists of curriculum standards and learning, teaching, and assessment (LTA) programs.

This document outlines the curriculum standards for Advanced Training in Dermatology for trainees and supervisors. The curriculum standards should be used in conjunction with the Advanced Training in Dermatology LTA program.

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Program overview

Purpose of Advanced Training

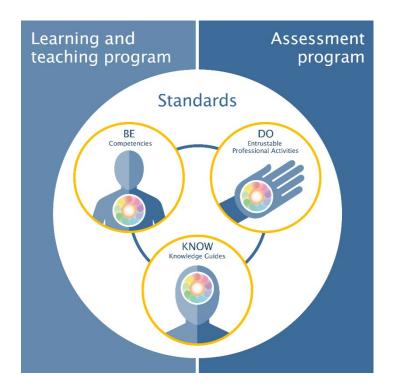
The RACP offers Advanced Training in 33 diverse medical specialties as part of Division, Chapter, or Faculty training programs.

The purpose of Advanced Training is to develop a workforce of physicians who:

- have received breadth and depth of focused specialist training, and experience with a wide variety of health problems and contexts
- are prepared for and committed to independent expert practice, lifelong learning, and continuous improvement
- provide safe, quality health care that meets the needs of the communities of Aotearoa New Zealand.



RACP curriculum model



The RACP curriculum model is made up of curricula standards supported by learning, teaching, and assessment programs.

Learning and teaching programs

outline the strategies and methods to learn and teach curricula standards, including required and recommended learning activities.

Assessment programs outline the planned use of assessment methods to provide an overall picture of the trainee's competence over time.

The curricula standards outline the educational objectives of the training program and the standard against which trainees' abilities are measured.



Competencies outline the expected professional behaviours, values, and practices of trainees in 10 domains of professional practice.



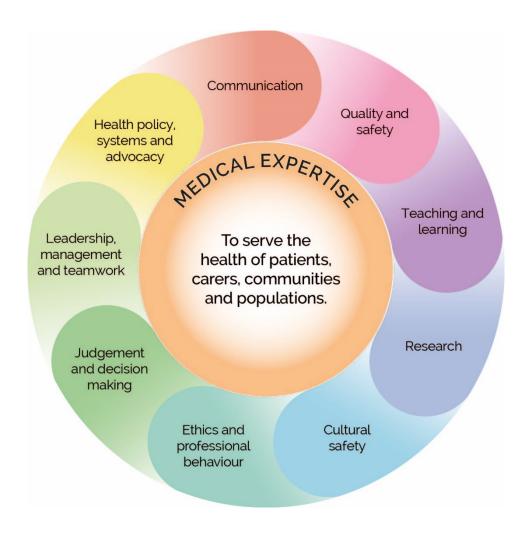
Entrustable Professional Activities (EPAs) outline the essential work tasks trainees need to be able to perform in the workplace.



Knowledge guides outline the expected baseline knowledge of trainees.

Professional Practice Framework

The Professional Practice Framework describes 10 domains of practice for all physicians.



Learning, teaching, and assessment (LTA) structure

The learning, teaching and assessment structure defines the framework for delivery and trainee achievement of the curriculum standards in the Advanced Training program.

Advanced Training is structured in three phases. These phases will establish clear checkpoints for trainee progression and completion.

- 1 Specialty foundation
- Orient trainees and confirm their readiness to progress in the Advanced Training program
- 2 Specialty consolidation
- Continue trainees' professional development in the specialty and support progress towards the learning goals
- 3 Transition to Fellowship
- Confirm trainees' achievement of the curriculum standards, completion of Advanced Training, and admission to Fellowship
- Support trainees' transition to unsupervised practice



Figure 1: Advanced Training learning, teaching, and assessment structure

- An **entry decision** is made before entry into the program.
- A **progress decision**, based on competence, is made at the end of each phase of training.
- A **completion decision**, based on competence, is made at the end of the training program, resulting in eligibility for admission to Fellowship.



Advanced Training is a **hybrid time- and competency-based training program**. There is a minimum time requirement of full-time equivalent experience, and progression and completion decisions are based on evidence of trainees' competence.

Dermatology specialty overview

Dermatology is concerned with the diagnosis and treatment of diseases of the hair, nails, and skin. Dermatologists treat patients of all ages, from infants and children to adolescents and adults. Dermatology involves, but is not limited to:

- the study, research, and diagnosis of cancers, cosmetic and ageing conditions, diseases, and disorders of the hair, nails, and skin, and the genital and oral mucous membranes
- the investigation and management of these conditions through the application of expert knowledge and skills in clinical diagnosis, dermatopathology, immunotherapy, laser therapy, performing cosmetic and dermatologic surgery, photodynamic therapy, phototherapy, the prescribing of topical and systemic medications, and the use of energy-based devices.

Dermatologists provide holistic, patient-centred care, participate in multidisciplinary teams, and provide expert consultation and advice to primary care practitioners and medical and surgical colleagues. They work flexibly across inpatient, outpatient, and virtual platform settings. The specific nature of care provided by dermatologists includes, but is not limited to:

- specialist clinical and diagnostic skills. Dermatologists have an expert understanding
 of the structure and function of the skin in health and disease, and require detailed
 knowledge of the aetiology and pathogenesis, clinical features, differential diagnosis,
 epidemiology, histopathology, investigations, and prognosis of skin conditions.
 Dermatologists are also astute observers and physicians. They require good clinical
 history taking and examination skills to achieve accurate diagnoses.
- management of skin disorders across the lifespan. Dermatologists must understand benign and malignant tumours of the skin and their management, and have expertise in the use of dermoscopy and in the diagnosis and management of skin conditions. Dermatologists must also have broad experience of medical specialities, as skin diseases are often complicated by or associated with systemic comorbidities and medication use.
- use of procedural and surgical skills. For dermatologists, the accurate diagnosis
 of skin diseases / lesions requires thorough clinical examinations and, in selected
 cases, the use of biopsies to obtain histopathology. These elements form essential
 initial steps leading to the appropriate selection of therapeutic procedures, and are
 therefore a prerequisite to proper management in procedural dermatology.

Dermatologists provide person-centred care with a focus on communication, respect, and advocacy, including:

- raising awareness of skin cancer risks
- helping treat and manage conditions including inflammatory, infectious, autoimmune, oncological, and genetic skin disorders, such as acne, alopecia, eczema, psoriasis, skin cancer, and vitiligo
- an understanding of the impact of chronic skin disorders on cultural, mental, and spiritual wellbeing.

Some of the key professional skills and qualities dermatologists embody include:

- the ability to work sensitively with a variety of patients. Dermatologists appreciate the differences in the presentation of skin conditions in patients of different ethnic origins and all age groups, and develop an ability to care for children suffering with dermatological conditions, and their families, in a professional and empathetic manner.
- **strong communication skills.** Dermatologists must develop a personable interviewing technique and an ability to relate to patients from all walks of life. It is also essential that they appreciate when referral to a more appropriate or more qualified practitioner in a particular subspecialty is necessary.
- managing resources for the benefit of patients and communities. Dermatologists apply a biopsychosocial approach to ensure the delivery of cost-effective, efficient, and safe care for the benefit of their patients and communities.
- **applying a scholarly approach.** Dermatologists conduct academic research, following standard research principles (such as ethics, conflicts of interest, and methods), to discover better ways of understanding, diagnosing, treating, and preventing disease. They apply research to improve the treatment and management of patients.

Dermatology learning goals

The curriculum standards are summarised as 15 learning goals. The learning goals articulate what trainees need to be, do and know, and are assessed throughout training.

BE Competencies	1. <u>Professional behaviours</u>
DO EPAs	 Team leadership Supervision and teaching Clinical assessment and management Investigations and procedures Communication Care of acutely unwell dermatological patients Quality improvement Virtual care
KNOW Knowledge guides	 10. Foundations and clinical sciences of dermatology 11. Paediatric dermatology 12. Medical dermatology 13. Skin tumours and skin cancers 14. Procedural dermatology 15. Dermatology treatments

Curriculum standards

Competencies

Competencies outline the expected professional behaviours, values, and practices that trainees need to achieve by the end of training.

Competencies are grouped by the 10 domains of the professional practice framework.

Competencies will be common across training programs.

Learning goal 1. Professional behaviours



Medical expertise

Professional standard: Physicians apply knowledge and skills informed by best available current evidence in the delivery of high-quality, safe practice to facilitate agreed health outcomes for individual patients and populations.

Knowledge. Apply knowledge of the scientific basis of health and disease to the diagnosis and management of patients.

Synthesis. Gather relevant data via age- and context-appropriate means to develop reasonable differential diagnoses, recognising and considering interactions and impacts of comorbidities.

Diagnosis and management. Develop diagnostic and management plans that integrate an understanding of individual patient circumstances, including psychosocial factors and specific vulnerabilities, epidemiology, and population health factors in partnership with patients, families, whānau, or carers¹, and in collaboration with the healthcare team.

¹ References to patients in the remainder of this document may include their families, whānau, and/or carers.

Communication



Professional standard. Physicians collate information, and share this information clearly, accurately, respectfully, responsibly, empathetically, and in a manner that is understandable.

Physicians share information responsibly with patients, families, carers, colleagues, community groups, the public, and other stakeholders to facilitate optimal health outcomes.

Effective communication. Use a range of effective and appropriate verbal, nonverbal, written and other communication techniques, including active listening.

Communication with patients, families, and carers. Use collaborative, effective, and empathetic communication with patients, families, and carers.

Communication with professionals and professional bodies. Use collaborative, respectful, and empathetic clinical communication with colleagues, other health professionals, professional bodies, and agencies.

Written communication. Document and share information about patients to optimise patient care and safety.

Privacy and confidentiality. Maintain appropriate privacy and confidentiality, and share information responsibly.

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Quality and safety

Professional standard. Physicians practice in a safe, high-quality manner within the limits of their expertise.

Physicians regularly review and evaluate their own practice alongside peers and best practice standards, and conduct continuous improvement activities.

Patient safety. Demonstrate a safety focus and continuous improvement approach to own practice and health systems.

Harm prevention and management. Identify and report risks, adverse events, and errors to improve healthcare systems.

Quality improvement. Participate in quality improvement activities to improve quality of care and safety of the work environment.

Patient engagement. Enable patients to contribute to the safety of their care.

Teaching and learning

Professional standard. Physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and evaluating evidence.

Physicians foster the learning of others in their profession through a commitment to mentoring, supervising, and teaching.2

Lifelong learning. Undertake effective self-education and continuing professional development.

Self-evaluation. Evaluate and reflect on gaps in own knowledge and skills to inform self-directed learning.

Supervision. Provide supervision for junior colleagues and/or team members.

Teaching. Apply appropriate educational techniques to facilitate the learning of colleagues and other health professionals.

Patient education. Apply appropriate educational techniques to promote understanding of health and disease amongst patients and populations.



Research

Professional standard. Physicians support creation, dissemination and translation of knowledge and practices applicable to health.2

They do this by engaging with and critically appraising research, and applying it in policy and practice to improve the health outcomes of patients and populations.

Evidence-based practice. Critically analyse relevant literature and refer to evidence-based clinical guidelines, and apply these in daily practice.

Research. Apply research methodology to add to the body of medical knowledge and improve practice and health outcomes.

²Adapted from Richardson D, Oswald A, Chan M-K, Lang ES, Harvey BJ. Scholar. In: Frank JR, Snell L, Sherbino J, editors. The Draft CanMEDS 2015 Physician Competency Framework - Series IV. Ottawa: The Royal College of Physicians and Surgeons of Canada; 2015 March.

Cultural safety

Professional standard. Physicians engage in iterative and critical self-reflection of their own cultural identity, power, biases, prejudices and practising behaviours. Together with the requirement of understanding the cultural rights of the community they serve; this brings awareness and accountability for the impact of the physician's own culture on decision-making and healthcare delivery. It also allows for an adaptive practice where power is shared between patients, family, whānau and/or community and the physician, to improve health outcomes.



Physicians recognise the patient and population's rights for culturally-safe care, including being an ally for patient, family, whānau and/or community autonomy and agency over their decision-making. This shift in the physician's perspective fosters collaborative and engaged therapeutic relationships, allows for strength-based (or mana-enhanced) decisions, and sharing of power with the recipient of the care, optimising health care outcomes.

Physicians critically analyse their environment to understand how colonialism, systemic racism, social determinants of health and other sources of inequity have and continue to underpin the healthcare context. Consequently, physicians then can recognise their interfacing with, and contribution to, the environment in which they work to advocate for safe, more equitable and decolonised services and create an inclusive and safe workplace for all colleagues and team members of all cultural backgrounds.³

Critical reflection. Engage in iterative and critical self-reflection and demonstrate cultural safety in the context of their own cultural identity, power, biases, prejudices and practising behaviours.

Allyship. Recognise the patient and population's rights to culturally safe care, including being an ally for patient, family, whānau and/or community autonomy and agency over their decision-making.

Inclusive communication. Apply culturally-safe communication, acknowledging the sharing of power, and cultural and human rights to enable patients, families and whānau to engage in appropriate patient care decisions.

Culturally safe environment. Contributes to a culturally safe learning and practice environment for patients and team members. Respect patients may feel unsafe in the healthcare environment.

³ The RACP has adopted the Medical Council of New Zealand's definition of cultural safety (below): Cultural safety can be defined as¹.

The need for doctors to examine themselves and the potential impact of their own culture on clinical interactions and healthcare service delivery.

[•] The commitment by individual doctors to acknowledge and address any of their own biases, attitudes, assumptions, stereotypes, prejudices, structures, and characteristics that may affect the quality of care provided.

The awareness that cultural safety encompasses a critical consciousness where healthcare professionals and healthcare organisations engage in ongoing self-reflection and self-awareness and hold themselves accountable for providing culturally safe care, as defined by the patient and their communities.

^{1.} Curtis et al. "Why cultural safety rather than cultural competency is required to achieve health equity". International Journal for Equity in Health (2019) 18:174

Ethics and professional behaviour



Professional standard. Physicians' practice is founded upon ethics, and physicians always treat patients, their families, communities, and populations in a caring and respectful manner.

Physicians demonstrate their commitment and accountability to the health and wellbeing of individual patients, communities, populations, and society through ethical practice.

Physicians demonstrate high standards of personal behaviour.

Beliefs and attitudes. Reflect critically on personal beliefs and attitudes, including how these may impact on patient care.

Honesty and openness. Act honestly, including reporting accurately, and acknowledging their own errors.

Patient welfare. Prioritise patients' welfare and community benefit above self-interest.

Accountability. Be personally and socially accountable.

Personal limits. Practise within their own limits and according to ethical principles and professional guidelines.

Self-care. Implement strategies to maintain personal health and wellbeing.

Respect for peers. Recognise and respect the personal and professional integrity, roles, and contribution of peers.

Interaction with professionals. Interact equitably, collaboratively, and respectfully with other health professionals.

Respect and sensitivity. Respect patients, maintain appropriate relationships, and behave equitably.

Privacy and confidentiality. Protect and uphold patients' rights to privacy and confidentiality.

Compassion and empathy. Demonstrate a caring attitude towards patients and endeavour to understand patients' values and beliefs.

Health needs. Understand and address patients', families', carers', and colleagues' physical and emotional health needs.

Medical and health ethics and law. Practise according to current community and professional ethical standards and legal requirements.

Judgement and decision making



Professional standard: Physicians collect and interpret information, and evaluate and synthesise evidence, to make the best possible decisions in their practice.

Physicians negotiate, implement, and review their decisions and recommendations with patients, their families and carers, and other health professionals.

Diagnostic reasoning. Apply sound diagnostic reasoning to clinical problems to make logical and safe clinical decisions.

Resource allocation. Apply judicious and cost-effective use of health resources to their practice.

Task delegation. Apply good judgement and decision making to the delegation of tasks.

Limits of practice. Recognise their own scope of practice and consult others when required.

Shared decision making. Contribute effectively to team-based decision-making processes.

Leadership, management, and teamwork



Professional standard. Physicians recognise, respect, and aim to develop the skills of others, and engage collaboratively to achieve optimal outcomes for patients and populations.

Physicians contribute to and make decisions about policy, protocols, and resource allocation at personal, professional, organisational, and societal levels.

Physicians work effectively in diverse multidisciplinary teams and promote a safe, productive, and respectful work environment that is free from discrimination, bullying, and harassment.

Managing others. Lead teams, including setting directions, resolving conflicts, and managing individuals.

Wellbeing. Consider and work to ensure the health and safety of colleagues and other health professionals.

Leadership. Act as a role model and leader in professional practice.

Teamwork. Negotiate responsibilities within the healthcare team and function as an effective team member.

Health policy, systems, and advocacy



Professional standard. Physicians apply their knowledge of the nature and attributes of local, national, and global health systems to their own practices. They identify, evaluate, and influence health determinants through local, national, and international policy.

Physicians deliver and advocate for the best health outcomes for all patients and populations.

Health needs. Respond to the health needs of the local community and the broader health needs of the people of Aotearoa New Zealand.

Prevention and promotion. Incorporate disease prevention, health promotion, and health surveillance into interactions with individual patients and their social support networks.

Equity and access. Work with patients and social support networks to address determinants of health that affect them and their access to needed health services or resources.

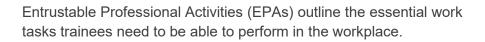
Stakeholder engagement. Involve communities and patient groups in decisions that affect them to identify priority problems and solutions.

Advocacy. Advocate for prevention, promotion, equity, and access to support patient and population health needs within and outside the clinical environment.

Resource allocation. Understand the factors influencing resource allocation, promote efficiencies, and advocate to reduce inequities.

Sustainability. Manage the use of healthcare resources responsibly in everyday practice.

Entrustable Professional Activities





#	Theme	Title
2	Team leadership	Lead a team of health professionals
3	Supervision and teaching	Supervise and teach professional colleagues
4	Clinical assessment and management	Clinically assess and manage the ongoing care of patients
5	Investigations and procedures	Plan, prepare for, perform, interpret, and provide aftercare for important practical procedures and investigations
6	Communication	Communicate effectively and professionally with patients, carers, families, health professionals, and other community members engaging with the health service
7	Care of acutely unwell dermatology patients	Assess, triage, and manage the early care of acutely unwell dermatological patients
8	Quality improvement	Identify and address failures in health care delivery
9	<u>Virtual care</u>	Provide virtual care for dermatology patients or virtual dermatology advice to referrers

Learning goal 2: Team leadership

Theme	Team leadership		
Title	Lead a team of health professionals		
Description	This activity requires the ability to: prioritise workload manage multiple concurrent tasks articulate individual responsibilities, of team members understand the range of team members acquire and apply leadership technic collaborate with and motivate team encourage and adopt insights from the act as a role model	pers' skills, expertise, and roles ques in daily practice members	
Behaviours			
Professional practice framework domain	Ready to perform without supervision Expected behaviours of a trainee who can routinely perform this activity without needing supervision	Requires some supervision Possible behaviours of a trainee who needs some supervision to perform this activity	
	The trainee will:	The trainee may:	
Medical expertise	 synthesise information with other disciplines to develop optimal, goal-centred plans for patients⁴ use evidence-based care to meet the needs of patients or populations assess and effectively manage clinical risk in various scenarios demonstrate clinical competence and skills by effectively supporting team members 	 demonstrate adequate knowledge of healthcare issues by interpreting complex information assess the spectrum of problems to be addressed apply medical knowledge to assess the impact and clinical outcomes of management decisions provide coordinated and quality health care for populations or patients as a member of a multidisciplinary team 	
Communication	 provide support and motivate patients or populations and health professionals by effective communication demonstrate a transparent, consultative style by engaging patients, families, carers, relevant professionals, and/or the public in shared decision making work with patients, families, carers, and other health professionals to resolve conflict that may arise when planning and aligning goals 	 communicate adequately with colleagues communicate adequately with patients, families, carers, and/or the public respect the roles of team members 	

 $^{^{5}}$ References to patients in the remainder of this document may include their families, whānau, and/or carers.

	 demonstrate rapport with people at all levels by tailoring messages to different stakeholders 	
Quality and safety	 identify opportunities to improve care by participating in surveillance and monitoring of adverse events and 'near misses' identify activities within systems to reduce errors, improve patient and population safety, and implement cost-effective change place safety and quality of care first in all decision making 	 participate in audits and other activities that affect the quality and safety of patients' care participate in interdisciplinary collaboration to provide effective health services and operational change use information resources and electronic medical record technology where available
	regularly self-evaluate personal professional practice, and	accept feedback constructively, and change behaviour in response
	implement changes based on the resultsactively seek feedback from	 recognise the limits of personal expertise, and involve other health professionals as needed
	supervisors and colleagues on their own performance	demonstrate basic skills in facilitating colleagues' learning
Teaching and learning	 identify personal gaps in skills and knowledge, and engage in self-directed learning 	
and loarning	 maintain current knowledge of new technologies, health care priorities, and changes of patients' expectations 	
	 teach competently by imparting professional knowledge 	
	 manage and monitor learner progress, providing regular assessment and feedback 	
	 demonstrate culturally competent relationships with professional colleagues and patients 	demonstrate awareness of cultural diversity and unconscious bias
Cultural safety	 demonstrate respect for diversity and difference 	 work effectively and respectfully with people from different cultural backgrounds
	 take steps to minimise unconscious bias, including the impact of gender, religion, cultural beliefs, and socioeconomic background on decision making 	
	promote a team culture of shared accountability for decisions and	 support ethical principles in clinical decision making
	outcomesencourage open discussion of ethical and clinical concerns	 maintain standards of medical practice by recognising the health interests of patients or populations
Ethics and professional behaviour	 respect differences of multidisciplinary team members 	 as primary responsibilities respect the roles and expertise
Bollavioui	 understand the ethics of resource allocation by aligning optimal patients and organisational care 	of other health professionalswork effectively as a member of a team
	effectively consult with stakeholders, achieving a balance of alternative views	 promote team values of honesty, discipline, and commitment to continuous improvement

	 acknowledge personal conflicts of interest and unconscious bias act collaboratively to resolve behavioural incidents and conflicts such as harassment and bullying 	 demonstrate understanding of the negative impact of workplace conflict
Judgement and decision making	 evaluate health services and clarify expectations to support systematic, transparent decision making make decisions when faced with multiple and conflicting perspectives ensure medical input to organisational decision making adopt a systematic approach to analysing information from a variety of specialties to make decisions that benefit health care delivery 	 monitor services and provide appropriate advice review new health care interventions and resources interpret appropriate data and evidence for decision making
Leadership, management, and teamwork	 combine team members' skills and expertise in delivering patient care and/or population advice develop and lead effective multidisciplinary teams by developing and implementing strategies to motivate others build effective relationships with multidisciplinary team members to achieve optimal outcomes ensure all members of the team are accountable for their individual practice 	 understand the range of personal and other team members' skills, expertise, and roles acknowledge and respect the contribution of all health professionals involved in patients' care participate effectively and appropriately in multidisciplinary teams seek out and respect the perspectives of multidisciplinary team members when making decisions
Health policy, systems, and advocacy	 engage in appropriate consultation with stakeholders on the delivery of health care advocate for the resources and support for healthcare teams to achieve organisational priorities influence the development of organisational policies and procedures to optimise health outcomes identify the determinants of health of the population, and mitigate barriers to access to care remove self-interest from solutions to health advocacy issues 	 communicate with stakeholders within the organisation about health care delivery understand methods used to allocate resources to provide high-quality care promote the development and use of organisational policies and procedures

Learning goal 3: Supervision and teaching

Theme	Supervision and teaching		
Title	Supervise and teach professional colleagues		
Description	This activity requires the ability to: provide work-based teaching in a variety of settings teach professional skills create a safe and supportive learning environment plan, deliver, and provide work-based assessments encourage learners to be self-directed and identify learning experiences supervise learners in day-to-day work, and provide feedback support learners to prepare for assessments		
Behaviours			
Professional practice framework domain	Ready to perform without supervision Expected behaviours of a trainee who can routinely perform this activity without needing supervision	Requires some supervision Possible behaviours of a trainee who needs some supervision to perform this activity	
	The trainee will:	The trainee may:	
Medical expertise	 combine high-quality care with high-quality teaching explain the rationale underpinning a structured approach to decision making consider the patient-centric view during consultations consider the population health effect when giving advice encourage learners to consider the rationale and appropriateness of investigation and management options 	teach learners using basic knowledge and skills	
Communication	 establish rapport and demonstrate respect for junior colleagues, medical students, and other health professionals communicate effectively when teaching, assessing, and appraising learners actively encourage a collaborative and safe learning environment with learners and other health professionals encourage learners to tailor communication as appropriate for different patients⁵, such as younger or older people, and different populations 	demonstrate accessible, supportive, and compassionate behaviour	

⁵ References to patients in the remainder of this document may include their families, whānau, and/or carers.

	 support learners to deliver clear, concise, and relevant information in both verbal and written communication 	
	 listen and convey information clearly and considerately 	
	 support learners to deliver quality care while maintaining their own wellbeing 	observe learners to reduce risks and improve health outcomes
Quality	 apply lessons learnt about patient safety by identifying and discussing risks with learners 	
and safety	 assess learners' competence, and provide timely feedback to minimise risks to care 	
	 maintain the safety of patients and organisations involved with education, and appropriately identify and action concerns 	
	 demonstrate knowledge of the principles, processes, and skills 	 demonstrate basic skills in the supervision of learners
	of supervisionprovide direct guidance to learners in day-to-day work	 apply a standardised approach to teaching, assessment, and feedback without considering
	 work with learners to identify professional development and learning opportunities based on their individual learning needs 	 individual learners' needs implement teaching and learning activities that are misaligned to learning goals
	 offer feedback and role modelling 	 adopt a teaching style that
	 participate in teaching and supervision of professional development activities 	discourages learner self-directedness
Teaching	 encourage self-directed learning and assessment 	
and learning	 develop a consistent and fair approach to assessing learners 	
	 tailor feedback and assessments to learners' goals 	
	 seek feedback, and reflect on own teaching by developing goals and strategies to improve 	
	 establish and maintain effective mentoring through open dialogue 	
	 support learners to identify and attend formal and informal learning opportunities 	
	 recognise the limits of personal expertise, and involve others appropriately 	
Research	 clarify junior colleagues' research project goals and requirements, and provide feedback regarding the merits or challenges of proposed research 	 guide learners with respect to the choice of research projects ensure that the research projects planned are feasible and of suitable standards

	•	monitor the progress of learners' research projects regularly, and may review research projects prior to submission support learners to find forums		
		to present research projects		
	•	encourage and guide learners to seek out relevant research to support practice		
	•	role model a culturally appropriate approach to teaching	•	function effectively and respectfully when working and teaching with
	•	encourage learners to seek out opportunities to develop and improve their own cultural safety		people from different cultural backgrounds
Cultural safety	•	encourage learners to consider culturally appropriate care of Māori (tangata whenua) into patients' management		
	•	encourage learners to consider culturally appropriate care of Pacific peoples into patients' management		
	•	consider cultural, ethical, and religious values and beliefs in teaching and learning		
	•	apply principles of ethical practice to teaching scenarios	•	demonstrate professional values, including commitment to
Ethics and professional behaviour	•	act as a role model to promote professional responsibility and		high-quality clinical standards, compassion, empathy, and respect
bellavioui	•	ethics among learners respond appropriately to learners seeking professional guidance	•	provide learners with feedback to improve their experiences
	•	prioritise workloads and manage	•	provide general advice and
		learners with different levels of professional knowledge or experience	•	support to learners use health data logically and effectively to investigate difficult
	•	link theory and practice when explaining professional decisions		diagnostic problems
	•	promote joint problem solving		
Judgement and decision making	•	support a learning environment that allows for independent decision making		
	•	use sound and evidence-based judgement during assessments and when giving feedback to learners		
	•	escalate concerns about learners appropriately		
	•	maintain personal and learners'	•	demonstrate the principles and
Leadership, management,	continuing professional leadership in	practice of professionalism and leadership in health care		
and teamwork	•	maintain professional, clinical, research, and/or administrative responsibilities while teaching	•	participate in mentor programs, career advice, and general counselling

- create an inclusive environment in which learners feel part of the team
- help shape organisational culture to prioritise quality and work safety through openness, honesty, shared learning, and continued improvement

Health policy, systems, and advocacy

- advocate for suitable resources to provide quality supervision and maintain training standards
- explain the value of health data in the care of patients or populations
- support innovation in teaching and training
- incompletely integrate public health principals into teaching and practice

Learning goal 4: Clinical assessment and management

Theme	Clinical assessment and management		
Title	Clinically assess and manage the on	going care of patients	
Description	 This activity requires the ability to: identify and access sources of relevant information about patients⁶ obtain patient histories, including medication histories examine patients synthesise findings to develop provisional and differential diagnoses select, plan, and use evidence-based clinically appropriate investigations interpret the results and outcomes of investigations discuss findings with patients, their families, and/or carers, and generate management plans choose appropriate medicines or procedures based on an understanding of pharmacology and clinical sciences, taking into consideration age, benefits, comorbidities, patient preferences, potential drug interactions, and risks manage chronic and advanced conditions, comorbidities, complications, and disabilities provide continuity of care facilitate patients' self-management and self-monitoring present findings and collaborate with other health professionals. 		
Behaviours			
Professional practice framework domain	Ready to perform without supervision Expected behaviours of a trainee who can routinely perform this activity without needing supervision The trainee will:	Requires some supervision Possible behaviours of a trainee who needs some supervision to perform this activity The trainee may:	
Medical expertise	 elicit accurate, organised, and problem-focused medical histories, considering physical, psychosocial, and risk factors perform full physical examinations to establish the nature and extent of problems synthesise and interpret findings from histories and examinations to devise the most likely provisional diagnoses via reasonable differential diagnoses assess the severity of problems, likelihood of complications, and clinical outcomes develop management plans based on relevant guidelines, and consider the balance of benefit and harm by taking patients' personal sets of circumstances into account 	 take patient-centred histories, considering psychosocial factors perform accurate physical examinations recognise and correctly interpret abnormal findings synthesise pertinent information to direct clinical encounters and diagnostic categories assess patients' knowledge, beliefs, concerns, and daily behaviours related to their chronic condition and/or disability and its management contribute to medical record entries on histories, examinations, and management plans in a way that is accurate and sufficient as a member of multidisciplinary teams 	

⁶ References to patients in the remainder of this document may include their families whānau, and/or carers.

- assess common dermatological conditions and common skin tumours
- regularly assess and review care plans for patients with chronic conditions and disabilities, based on short- and long-term clinical and quality of life goals
- provide documentation on patients' presentation, management, and progress, including key points of diagnosis and decision making, to inform coordination of care
- ensure patients contribute to their needs assessments and care planning
- monitor treatment outcomes, effectiveness, and adverse events
- choose evidence-based investigations and frame them as an adjunct to comprehensive clinical assessments
- assess patients' concerns, and determine the need for specific tests that are likely to result in overall benefit
- develop plans for investigations, identifying their roles and timing
- recognise and correctly interpret abnormal findings, considering patients' specific circumstances, and act accordingly
- identify patients' disorders requiring pharmacotherapy
- consider non-pharmacologic therapies
- consider age, allergies, chronic disease status, lifestyle factors, potential drug interactions, and patient preference prior to prescribing new medications
- plan for follow-up and monitoring

develop appropriate management plans

- communicate openly, listen, and take patients' concerns seriously, giving them adequate opportunity to ask questions
- provide information to patients and their family or carers to enable them to make fully informed decisions from various diagnostic, therapeutic, and management options
- communicate clearly, effectively, respectfully, and promptly with other health professionals involved in patients' care

- anticipate, read, and respond to verbal and nonverbal cues
- demonstrate active listening skills
- communicate patients' situations to colleagues, including senior clinicians
- provide healthy lifestyle advice and information to patients on the importance of self-management
- work in partnership with patients, and motivate them to comply with agreed care plans

Communication

- encourage patients' self-management through education to take greater responsibility for their care, and support problem solving
- encourage patients' access to self-monitoring devices and assistive technologies
- communicate with multidisciplinary team members, and involve patients in that dialogue
- explain to patients the potential benefits, burdens, costs, risks, and side effects of each option, including the option to have no investigations or treatment
- demonstrate safety skills, including infection control, adverse event reporting, and effective clinical handover
- obtain informed consent before undertaking any investigation or providing treatment (except in an emergency)
- ensure patients are informed of the material risks associated with any part of proposed management plans
- use innovative models of chronic disease care, using telehealth and digitally integrated support services
- review medicine use and ensure patients understand safe medication administration to prevent errors
- support patients' self-management by balancing between minimising risk and helping patients become more independent
- participate in quality improvement processes impacting on patients' abilities to undertake normal activities of daily living
- identify adverse outcomes that may result from proposed investigations, focusing on patients' individual situations

- perform hand hygiene, and take infection control precautions at appropriate moments
- take precaution against assaults from confused or agitated patients, ensuring appropriate care of patients
- document histories and physical examination findings, and synthesise with clarity and completeness
- participate in continuous quality improvement processes and clinical audits on chronic disease management
- identify activities that may improve patients' quality of life

Quality and safety

set defined objectives for clinical teaching encounters, and solicit

- feedback on mutually agreed goals
- obtain informed consent before involving patients in teaching activities

regularly reflect upon and

self-evaluate professional

development

- require assistance with setting goals and objectives for self-learning
- self-reflect infrequently
- deliver teaching considering learners' level of training
- use clinical practice guidelines for chronic diseases management

Teaching and learning

- turn clinical activities into an opportunity to teach, appropriate to the setting
- contribute to the development of clinical pathways for chronic diseases management, based on current clinical guidelines
- educate patients to recognise and monitor their symptoms, and undertake strategies to assist their recovery
- use appropriate guidelines, evidence sources, and decision support tools
- compile, analyse, interpret, and evaluate information relevant to the research subject
- prepare reviews of literature on patients' encounters to present at journal club meetings
- search for and critically appraise evidence to resolve clinical areas of uncertainty
- provide patients with relevant information if proposed investigations or treatments are part of a research program
- obtain written consent from patients if the investigation or treatment is part of a research program

- refer to guidelines and medical literature to assist in clinical assessments when required
- demonstrate an understanding of the limitations of evidence and the challenges of applying research in daily practice
- recognise appropriate use of review articles

- use plain-language patient education materials, in patients' primary language when available, and demonstrate cultural and linguistic sensitivity
- demonstrate effective and culturally safe communication and care for Māori (tangata whenua) and Pacific peoples
- use professional interpreters. health advocates, or family or community members to assist in communication with patients, and understand the potential limitations of each, including legal and ethical issues
- acknowledge patients' beliefs and values, and how these might impact on health
- recognise and manage unconscious bias
- incorporate Māori views on health, including the four cornerstones of the Māori health model known as te whare tapa whā

- display respect for patients' cultures, and attentiveness to social determinants of health
- display an understanding of at least the most prevalent cultures in society, and an appreciation of their values
- appropriately access interpretive or culturally focused services
- provide culturally safe chronic disease management

Cultural safety

Research

hold information about patients demonstrate awareness of the in confidence, unless the release legal and ethical issues around of information is required by law care of children or public interest demonstrate professional conduct consider patients' decision-making and understanding around issues capacity specific to gender diversity demonstrate professional conduct identify patients' preferences regarding management and the and values, including compassion, role of families in decision making empathy, respect for diversity, not prioritise personal interest integrity, honesty, and partnership Ethics and or professional agendas at the to all patients professional expense of patient or social share information about patients' behaviour health care, consistent with privacy share information between laws and professional guidelines on confidentiality relevant service providers use consent processes for the acknowledge and respect the contribution of health professionals release and exchange of health information involved in patients' care assess patients' decision-making capacity, and appropriately identify and use alternative decision makers apply knowledge and experience demonstrate clinical reasoning to identify patients' problems, by gathering focused information making logical, rational decisions, relevant to patients' care and acting to achieve positive outcomes for patients use a holistic approach to health, considering comorbidity, risk, and uncertainty use the best available evidence for the most effective therapies and interventions to ensure quality care implement stepped care pathways in the management of chronic Judgement and diseases and disabilities decision making recognise patients' needs in terms of both internal resources and external support on long-term health care journeys evaluate the benefits, costs, and potential risks of each investigation in a clinical situation adjust the investigative path depending on test results received consider whether patients' conditions may get worse or better if no tests are selected work effectively as a member of share relevant information with multidisciplinary teams to achieve members of the healthcare team the best health outcomes for patients Leadership. management. demonstrate awareness of and teamwork colleagues in difficulty, and work within the appropriate structural systems to support them while maintaining patient safety

- coordinate whole-person care through involvement in all stages of patients' care journeys
- use a multidisciplinary approach across services to manage patients with chronic diseases and disabilities
- develop collaborative relationships with patients, families, carers, and a range of health professionals
- participate in health promotion, disease prevention and control, screening, and reporting notifiable diseases
- aim to achieve optimal cost-effective patient care to allow maximum benefit from the available resources
- use health screening for early intervention and chronic diseases management
- assess alternative models of health care delivery to patients with chronic diseases and disabilities
- participate in government initiatives for chronic diseases management to reduce hospital admissions and improve patients' quality of life
- help patients access initiatives and services for patients with chronic diseases and disabilities
- select and justify investigations regarding the pathological basis of disease, appropriateness, utility, safety, and cost effectiveness
- consider resource utilisation through peer review of testing behaviours

- identify and navigate components of the healthcare system relevant to patients' care
- identify and access relevant community resources to support patients' care
- demonstrate awareness of government initiatives and services available for patients with chronic diseases and disabilities, and display knowledge of how to access them

Health policy, systems, and advocacy

Learning goal 5: Investigations and procedures

Theme	Investigations and procedures		
Title	Plan, prepare for, perform, interpret, and provide aftercare for important practical procedures and investigations		
Description	 This activity requires the ability to: select, plan, and use evidence-based procedures and investigations in partnership with patients⁷, their families, and/or carers obtain informed consent set up the equipment, maintaining an aseptic field perform procedures manage unexpected events and complications during and after procedures and investigations provide aftercare for patients communicate aftercare protocols and instructions to patients and medical and nursing staff interpret the results and outcomes of procedures and investigations, including imaging and reports communicate the outcome of investigations and procedures to patients 		
Behaviours	and their general practitioners.		
Professional practice framework domain	Ready to perform without supervision Expected behaviours of a trainee who can routinely perform this activity without needing supervision The trainee will:	Requires some supervision Possible behaviours of a trainee who needs some supervision to perform this activity The trainee may:	
Medical expertise	 select procedures by assessing patient-specific factors, risks, benefits, and alternatives perform a range of common procedures confidently and consistently communicate to team members all allergies / adverse reactions identified, and take precautions to avoid allergies / adverse reactions during procedures check patients have complied with preprocedural preparation confirm the correct position / site / side / level on patients for planned procedures recognise and effectively manage complications arising during or after procedures 	 assess patients, and identify indications for procedures check for allergies and adverse reactions consider risks and complications of procedures interpret results of common diagnostic procedures organise and document postprocedural review of patients provide rationale for investigations act on and understand the significance of abnormal test results consider patient factors and comorbidities consider age-specific reference ranges 	

⁷ References to patients in the remainder of this document may include their families, whānau, and/or carers.

- recognise and correctly interpret normal and abnormal findings of diagnostic procedures
- set up and perform basic infection control procedures in an office
- set up for dermatological procedures, and clear up afterwards
- choose evidence-based investigations and frame them as an adjunct to comprehensive clinical assessments
- assess patients' concerns, and determine the need for specific tests that are likely to result in overall benefit
- develop plans for investigations, identifying their roles and timing
- recognise and correctly interpret abnormal findings, considering patients' specific circumstances. and acting accordingly
- document procedures accurately in the clinical notes, including informed consent, procedures requested and performed, reasons for procedures, medicines given, aseptic technique, and aftercare
- explain procedures clearly to patients, families, and carers, including reasons for procedures, potential alternatives, and possible risks, to facilitate informed choices
- counsel patients sensitively and effectively, and support them to make informed choices
- address patients', families', or carers' concerns relating to procedures, providing opportunities to ask questions
- tailor language according to individual patients' age and capacity to understand
- communicate effectively with team members, patients, families, and carers prior to, during, and after procedures
- check team members are confident and competent in their assigned roles
- explain to patients the potential benefits, burdens, costs, risks, and side effects of each option, including the option to have no

- explain the process of procedures to patients without providing a broader context
- help patients, families, and carers choose procedures
- communicate with members of procedural teams so all team members understand who each member is
- discuss postprocedural care with patients, families, and carers
- complete relevant patients' documentation, and conduct appropriate clinical handovers
- discuss the indications, benefits, complications, and risks of investigations with patients before ordering investigations
- explain the results of investigations to patients
- arrange investigations, providing accurate and informative referrals. and liaise with other services where appropriate

Communication

- use clear and simple language, and check that patients understand the terms used and agree to proceed with proposed investigations
- identify patients' concerns and expectations, providing adequate explanations on the rationale for individual test ordering
- confirm whether patients understand the information they have been given, and whether they need more information before deciding
- use written or visual material or other aids that are accurate and up to date to support discussions with patients
- explain findings or possible outcomes of investigations to patients, families, and carers
- give information that patients may find distressing in a considerate

obtain informed consent or other valid authority before undertaking any procedure

- set up all necessary equipment, and consistently use universal precautions and aseptic technique
- confirm patients' identification, verify the procedure, and, where appropriate, the correct position / site / side / level for the procedure
- check that information on patients' consent forms matches procedures to be performed
- identify, document, and appropriately notify of any adverse events or equipment malfunction
- identify adverse outcomes that may result from proposed investigations, focusing on patients' individual situations

provide information in a manner so that patients, families, and carers are fully informed when consenting to any procedures

- demonstrate an inconsistent application of aseptic technique
- identify patients using approved patients' identifiers before any treatments or interventions are initiated
- perform a procedure in an unsafe environment
- consider safety aspects of investigations when planning them
- seek help with interpretation of test results for less common tests or indications or unexpected results

Teaching and learning

Quality and safety

- refer to and/or be familiar with relevant published procedural guidelines prior to undertaking procedures
- organise or participate in in-service training on new technology
- provide specific and constructive feedback and comments to junior colleagues
- initiate and conduct skills training for junior staff

- participate in continued professional development
- help junior colleagues develop new skills
- actively seek feedback on personal technique until competent
- undertake professional development to maintain currency with investigation guidelines

	 use appropriate guidelines, evidence sources, and decision support tools participate in clinical audits to improve test ordering strategies for diagnoses and screening 	
Research	 provide patients with relevant information if a proposed investigation is part of a research program obtain written consent from patients if the investigation is part of a research program 	 refer to evidence-based clinical guidelines consult current research on investigations
Cultural safety	 consider individual patients' cultural perception of health and illness, and adapt practice accordingly 	 respect religious, cultural, linguistic, and family values and differences consider patients' cultural and religious backgrounds, attitudes, and beliefs, and how these might influence the acceptability of proposed investigations
	perform common procedures confidentlyidentify appropriate proxy decision	perform procedures when adequately supervisedfollow procedures to ensure
	makers when requiredshow respect for knowledge	safe practiceidentify appropriate proxy decision
	 and expertise of colleagues maximise patient autonomy in decision making remain within the scope of the 	 makers when required choose not to investigate in situations where it is not appropriate for ethical reasons
	authority given by patients (with the exception of emergencies)	 practise within current ethical and professional frameworks
Ethics and professional behaviour	 discuss with patients how decisions will be made once the investigation has started and the patient is not able to participate in decision making respect patients' decisions to refuse investigations, even if their decisions may not be 	 practise within own limits, and seek help when needed involve patients in decision making regarding investigations, obtaining the appropriate informed consent, including financial consent, if necessary
	 appropriate or evidence based advise patients when there may be additional costs, which they may wish to clarify before proceeding 	
	 explain the expected benefits as well as the potential burdens and risks of any proposed investigations before obtaining informed consent or other valid authority 	
	 demonstrate awareness of complex issues related to genetic information obtained from investigations, and subsequent disclosure of such information 	

- acknowledge patients' beliefs and values, and how these might impact on health
- incorporate Māori views on health, including the four cornerstones of the Māori health model known as te whare tapa whā
- identify roles and optimal timing for diagnostic procedures
- critically appraise information from the assessment and evaluation of risks and benefits to prioritise patients on a waiting list
- make clinical judgements and decisions based on available evidence
- select the most appropriate and cost-effective diagnostic procedures

Judgement and decision making

- adapt procedures in response to assessments of risks to individual patients
- select appropriate investigations on the samples obtained in diagnostic procedures
- evaluate the benefits, costs, and potential risks of each investigation in a clinical situation
- adjust the investigative path depending on test results received
- consider whether patients' conditions may get worse or better if no tests are selected

- prioritise which patients receive procedures first (if there is a waiting list)
- assess personal skill levels, and seek help with procedures when appropriate
- use tools and guidelines to support decision making
- seek help for choosing the optimal procedures for patients when needed
- choose the most appropriate investigations for clinical scenarios in discussion with patients
- recognise personal limitations and seek help in an appropriate way when required

- explain anticipated events, critical steps, and equipment requirements to teams on planned procedures
- provide staff with clear aftercare instructions, and explain how to recognise possible complications
- identify relevant management options with colleagues, according to their level of training and experience, to reduce error, prevent complications, and support efficient teamwork
- coordinate efforts, encourage others, and accept responsibility for work done
- assess the roles that other members of the healthcare team perform, and what other sources of information and support are available

- check that all relevant team members are aware that a procedure is occurring
- discuss patients' management plans for recovery with colleagues
- demonstrate understanding of what parts of investigations are provided by different doctors or health professionals

Leadership, management, and teamwork

	 check results in a timely manner, taking responsibility for following up results 		
Health policy, systems, and advocacy	 discuss serious incidents at appropriate clinical review meetings 	 perform procedures in accordance with the organisational guidelines and policies 	
	 initiate local improvement strategies in response to serious incidents 		
	 use resources efficiently when performing procedures 		
	 select and justify investigations regarding the pathological basis of disease, appropriateness, cost effectiveness, safety, and utility 		
	 consider resource use through peer review of testing behaviours 		

Learning goal 6: Communication

Theme	Communication with patients and hea	Ith professionals	
Title	Communicate effectively and professi health professionals, and other comm health service	onally with patients, carers, families,	
Description	 This activity requires the ability to: select suitable contexts and include family, whānau, and/or carers, and other team members communicate with team members and other health professionals across different contexts and modalities adopt a patient-centred perspective, including adjusting for cognition and disabilities select and use appropriate modalities and communication strategies synthesise clinical information into accurate and safe handovers and summaries structure conversations intentionally, respectfully, and professionally negotiate mutually agreed plans verify patients'8 understanding of information conveyed develop and implement plans to ensure actions occur deliver education to patients, families, and health professionals at appropriate levels of understanding document conversations 		
Behaviours			
Professional practice framework domain	Ready to perform without supervision Expected behaviours of a trainee who can routinely perform this activity without needing supervision	Requires some supervision Possible behaviours of a trainee who needs some supervision to perform this activity	
	The trainee will:	The trainee may:	
Medical expertise	 anticipate and correct any misunderstandings patients may have about their conditions and/or risk factors clearly communicate the working diagnosis, other possible diagnoses, and rationale behind management plans to patients and other health professionals inform patients of all aspects of their clinical management, including assessments and investigations provide information to patients to enable them to make informed decisions about diagnostic, therapeutic, and management options 	 apply knowledge of the scientific basis of health and disease to the management of patients demonstrate an understanding of clinical problems being discussed formulate management plans in partnership with patients 	

⁸ References to patients in the remainder of this document may include their families, whānau, and/or carers.

- provide patients with adequate opportunity to question or refuse interventions and treatments
- listen to and discuss the concerns and goals of patients, and plan management in partnership with them
- synthesise clinical information into clear, accurate, safe, and professional summaries and handovers
- present succinct clinical cases to colleagues, provide justification for proposed plans, and raise points for discussion
- use appropriate communication strategies and modalities for communication, such as emails, face-to-face, or phone calls
- elicit patients' views, concerns, and preferences, promoting rapport
- provide information to patients in plain language, avoiding jargon, acronyms, and complex medical terms
- encourage questions, and answer them thoroughly
- ask patients to share their thoughts or explain their management plans in their own words, to verify their understanding
- Communication
- convey information considerately and sensitively to patients, seeking clarification if unsure of how best to proceed
- communicate clearly, effectively, respectfully, and promptly with other health professionals and stakeholders involved in patients'
- communicate respectfully and collaboratively in all discussions in the healthcare setting
- treat children and young people respectfully, and listen to their views
- recognise the role of family or carers, and, when appropriate, encourage patients to involve their family or carers in decisions about their care

- select appropriate modes of communication
- engage patients in discussions, avoiding the use of jargon
- check patients' understanding of information
- adapt communication style in response to patients' age, developmental level, and cognitive, physical, cultural, socioeconomic, and situational factors
- collaborate with patient liaison officers as required

Quality and safety

- discuss with patients their condition and the available management options, including potential benefits and harms
- inform patients of the material risks associated with proposed management plans

	6	provide information to patients in a way they can understand before asking for their consent	•	treat information about patients as confidential
		consider young people's capacity or decision making and consent		
	۷ ج	ecognise and take precautions where patients may be vulnerable, such as issues of child protection, self-harm, or elder abuse		
	ŗ	participate in processes to manage patient complaints in an appropriate setting		
	5	store documented communication securely, with appropriate access and confidentiality		
	a a	discuss the aetiology of diseases and explain the purpose, nature, and extent of the assessments o be conducted	•	respond appropriately to information sourced by patients, and to patients' knowledge regarding their condition
Teaching and learning	\	obtain informed consent or other valid authority before involving patients in teaching		
	f	communicate any research indings to appropriate stakeholders		
	t	provide information to patients hat is based on guidelines issued by the Health Research Council of New Zealand	•	refer to evidence-based clinical guidelines demonstrate an understanding of the limitations of the evidence
Research	i k	provide information to patients in a way they can understand before asking for their consent o participate in research		and the challenges of applying research in daily practice
	C	obtain an informed consent or other valid authority before nvolving patients in research		
	C V	demonstrate effective and culturally safe communication with Māori (tangata whenua) and Pacific peoples	•	identify when to use interpreters allow enough time for communication across linguistic and cultural barriers
	r I:	communicate safely with members of other cultural groups by respecting patients' specific anguage, cultural, and communication needs		
Cultural safety	C	use qualified language interpreters or cultural interpreters to help meet patients' communication needs		
		provide plain language and culturally safe written materials o patients when possible		
	i t	ncorporate Māori views on health, ncluding the four cornerstones of he Māori health model known as e whare tapa whā		

- acknowledge patients' beliefs and values, and how these might impact on health
- encourage and support patients to be well informed about their health, and to use information wisely when they make decisions
- encourage and support patients, and, when relevant, their families or carers, in caring for themselves and managing their health
- demonstrate respectful professional relationships with patients

Ethics and professional behaviour

- prioritise honesty, patients' welfare, and community benefit above self-interest
- develop a high standard of personal conduct, consistent with professional and community expectations
- support patients' rights to seek second opinions

- respect the preferences of patients
- communicate appropriately, consistent with the context, and respect patients' needs and preferences
- maximise patients' autonomy, and support their decision making
- avoid sexual, intimate, and/or financial relationships with patients
- demonstrate a caring attitude towards patients
- respect patients, including protecting their rights to privacy and confidentiality
- behave equitably towards all, irrespective of gender, age, culture, socioeconomic status, sexual preferences, beliefs, contribution to society, illness-related behaviours, or the illness itself
- use social media ethically and according to legal obligations to protect patients' confidentiality and privacy

communicate effectively with team members involved in patients' care, and with patients, families, and carers

- discuss medical assessments, treatment plans, and investigations with patients and primary care teams, working collaboratively with all
- discuss patients' care needs with healthcare team members to align them with appropriate resources
- facilitate an environment in which all team members feel they can contribute, and their opinion is valued
- communicate accurately and succinctly, and motivate others on the healthcare team

- answer questions from team members
- summarise, clarify, and communicate responsibilities of healthcare team members
- keep healthcare team members focused on patient outcomes

Health policy,

systems, and

advocacy

Leadership,

management,

and teamwork

- collaborate with other services, such as community health centres and consumer organisations, to help patients navigate the healthcare system
- communicate with and involve other health professionals as appropriate

Learning goal 7: Care of acutely unwell dermatological patients

Theme	Care of acutely unwell dermatologica	I patients	
Title	Assess, triage, and manage the early patients	care of acutely unwell dermatological	
Description	 This activity requires the ability to: assess seriously unwell patients⁹, and initiate management recognise and triage patients with cutaneous emergencies recognise clinical deterioration, and respond by following the local process for escalation of care recognise and manage acutely unwell outpatients who require inpatient care recognise acutely unwell patients in an outpatient setting liaise with transport services and medical teams perform this activity both in inpatient and outpatient settings 		
Behaviours			
Professional practice framework domain	Ready to perform without supervision Expected behaviours of a trainee who can routinely perform this activity without needing supervision	Requires some supervision Possible behaviours of a trainee who needs some supervision to perform this activity	
	The trainee will:	The trainee may:	
Medical expertise	 recognise immediate life-threatening conditions and deteriorating and critically unwell patients, and respond appropriately perform life support, according to resuscitation council guidelines, to a high level of resuscitation skills demonstrate knowledge of the potential risks and complications of resuscitation effectively assess, diagnose, and manage acute undifferentiated clinical presentations select investigations that ensure maximum patient safety through excluding or diagnosing critical patient issues identify causes of acute deterioration in health status and levels of physical and cognitive functioning systematically develop plans of multidisciplinary plans of treatment, rehabilitation, and secondary prevention following acute events 	 recognise seriously unwell patients requiring immediate care apply basic life support as indicated demonstrate understanding of general medical principles of caring for patients with undifferentiated and undiagnosed conditions identify potential causes of current deterioration, and comply with escalation protocols facilitate initial tests to assist in diagnosis, and develop management plans for immediate treatment document information to outline the rationale for clinical decisions and action plans assess perioperative and periprocedural patients 	

⁹ References to patients in the remainder of this document may include their families, whānau, and/or carers.

- manage escalations or transitions of care in a proactive and timely manner
- provide clear and effective discharge summaries, with recommendations for ongoing care
- optimise medical management before, during, and after operations
- communicate clearly with other team members, and coordinate efforts of multidisciplinary team members
- use <u>closed loop</u> and clear communication with other health care team members during resuscitation
- facilitate early communication with patients, families, and team members to allow shared decision making
- negotiate realistic treatment goals, and determine and explain the expected prognoses and outcomes
- employ communication strategies appropriate for younger patients or those with cognitive difficulties
- explain situations to patients in a sensitive and supportive manner, avoiding jargon and confirming their understanding
- assess the level of health literacy of individual patients, and their level of understanding of agreed care decisions

- demonstrate communication skills to sufficiently support the function of multidisciplinary teams
- assess patients' understanding of their diseases and what they perceive as the most desirable goals of care

- use clinical information technology systems for conducting prospective and retrospective clinical audits
- evaluate and explain the benefits and risks of clinical interventions based on individual patients' circumstances
- Quality and safety

Communication

- coordinate and encourage innovation, and objectively evaluate improvement initiatives for outcomes and sustainability
- identify evidence-based practice gaps using clinical indicators, and implement changes to improve patients' outcomes
- analyse adverse incidents and sentinel events to identify system failures and contributing factors

- evaluate the quality of processes through well-designed audits
- recognise the risks and benefits of operative interventions
- raise appropriate issues for review at morbidity and mortality meetings
- evaluate the quality and safety processes implemented within the workplace, and identify gaps in their structure

	demonstrate effective supervision skills and teaching methods	mentor and train others to enhance team effectiveness
Teaching and learning	adapted to the context of the training	 provide constructive feedback to junior colleagues to contribute
	 encourage questioning among junior colleagues and students in response to unanswered clinical questions 	 to improvements in individuals' skills coordinate and supervise junior colleagues from the emergency department and wards
	 seek guidance and feedback from healthcare teams to reflect on encounters and improve patients' care 	
	 select studies based on optimal trial design, freedom from bias, and precision of measurement 	 demonstrate efficient searching of literature databases to retrieve evidence
	 evaluate the value of treatments in terms of relative and absolute 	 use information from credible sources to aid in decision making
Research	benefits, cost, feasibility, and potential patient harm	refer to evidence-based clinical guidelines and protocols on acutely
	 evaluate the applicability of the results of clinical studies to the circumstances of individual patients, especially those with multiple comorbidities 	 unwell patients demonstrate an understanding of the limitations of the evidence and the challenges of applying research in daily practice
	 specify research evidence to the needs of individual patients 	receared in daily practice
	 negotiate health care decisions in a culturally appropriate way by considering variation in family 	 practise cultural competency appropriate for the community serviced
	structures, cultures, religion, or belief systems	 proactively identify barriers to healthcare access
Cultural safety	 integrate culturally appropriate care of Māori (tangata whenua) and Pacific peoples into patients' management 	
	 consider cultural, ethical, and religious values and beliefs in leading multidisciplinary teams 	
	 develop management plans based on medical assessments of the clinical conditions and multidisciplinary assessments 	 communicate medical management plans as part of multidisciplinary plans establish, where possible, patients'
	of functional capacityadvise patients of their rights	wishes and preferences about care contribute to building a productive
Ethics and	to refuse medical therapy, including life-sustaining treatment	culture within teams
professional behaviour	 consider the consequences of delivering treatment that is deemed futile, directing to other care as appropriate 	
	 facilitate interactions within multidisciplinary teams, respecting values, encouraging involvement, and engaging all participants in decision making 	

- acknowledge patients' beliefs and values, and how these might impact on health
- demonstrate critical reflection on personal beliefs and attitudes, including how these may affect patient care and health care policy
- incorporate Māori views on health, including the four cornerstones of the Māori health model known as te whare tapa whā
- recognise the need for escalations of care, and escalate to appropriate staff or services
- integrate evidence related to questions of diagnosis, therapy, prognosis, risks, and cause into clinical decision making
- reconcile conflicting advice from other specialties, applying judgement in making clinical decisions in the presence of uncertainty
- use care pathways effectively, including identifying reasons for variations in care

- involve additional staff to assist in a timely fashion when required
- recognise personal limitations and seek help in an appropriate way when required

Leadership, management, and teamwork

Judgement and

decision making

- work collaboratively with staff in the emergency department, intensive care, and other subspecialty inpatient units
- manage the transition of acute medical patients through their hospital journeys
- lead a team by providing engagement while maintaining a focus on outcomes
- collaborate with and engage other team members, based on their roles and skills
- perform appropriate multidisciplinary assessment and management
- encourage an environment of openness and respect to lead effective teams

Health policy, systems, and advocacy

- use a considered and rational approach to the responsible use of resources, balancing costs against outcomes
- prioritise patients' care based on need, and consider available resources
- collaborate with emergency medicine staff and other colleagues to develop policies and protocols for the investigation and management of common acute medical problems
- demonstrate an understanding of the systems for the escalation of care for deteriorating patients
- demonstrate an understanding of the role of clinician leadership and advocacy in appraising and redesigning systems of care that lead to better patient outcomes

Learning goal 8: Quality improvement

Theme	Quality improvement		
Title	Identify and address failures in health care delivery		
Description	This activity requires the ability to: identify and report actual and potent conduct and evaluate system improvable adhere to best practice guidelines audit clinical guidelines and outcome contribute to the development of pol patients 10 and enhance health care monitor one's own practice and development.	vement activities es icies and protocols designed to protect	
Behaviours	·		
Professional practice framework domain	Ready to perform without supervision Expected behaviours of a trainee who can routinely perform this activity without needing supervision	Requires some supervision Possible behaviours of a trainee who needs some supervision to perform this activity	
	The trainee will:	The trainee may:	
Medical expertise	 use population health outcomes to identify opportunities for improvement in delivering appropriate care review patients' or population health outcomes regularly to identify opportunities for improvement in delivering appropriate care evaluate environmental and lifestyle health risks, and advocate for healthy lifestyle choices use standardised protocols to adhere to best practice and prevent the occurrence of wrong-site, wrong-patient procedures monitor personal professional performance regularly 	 contribute to processes on identified opportunities for improvement recognise the importance of prevention and early detection in clinical practice use local guidelines to assist patient care decision making 	
Communication	 support patients to have access to, and use, easy-to-understand, high-quality information about health care support patients to share decision making about their own health care, to the extent they choose assist patients' access to their health information, as well as complaint and feedback systems 	 demonstrate awareness of the evidence for consumer engagement and its contribution to quality improvement in health care apply knowledge of how health literacy might affect the way patients or populations gain access to, understand, and use health information 	

¹⁰ References to patients in the remainder of this document may include their families, whānau, and/or carers.

	•	discuss with patients any safety and quality concerns they have relating to their care		
	•	implement the organisation's open disclosure policy		
	•	demonstrate safety skills, including infection control, adverse event reporting, and effective clinical handover	•	demonstrate understanding of a systematic approach to improving the quality and safety of health care
	•	participate in organisational quality and safety activities, including morbidity and mortality reviews, clinical incident reviews, root cause analyses, and corrective action preventative action plans		
Quality and safety	•	participate in systems for surveillance and monitoring of adverse events and 'near misses', including reporting such events		
	•	raise and appropriately report identified opportunities for improvement		
	•	use clinical audits and registries of data on patients' experiences and outcomes, learnings from incidents, and complaints to improve care		
	•	translate quality improvement approaches and methods into practice	•	work within organisational quality and safety systems for the delivery of clinical care
Teaching and learning	•	participate in professional training in quality and safety to ensure a contemporary approach to safety system strategies	•	use opportunities to learn about safety and quality theory and systems
	•	supervise and manage the performance of junior colleagues in the delivery of high-quality, safe care		
Research	•	use only protocols approved for human research by a human research ethics committee, in accordance with the national statement on ethical conduct in human research	•	acknowledge that patient participation in research is voluntary and based on an appropriate understanding about the purpose, methods, demands, risks, and potential benefits of the research
Cultural safety	•	undertake professional development opportunities that address the impact of cultural bias on health outcomes	•	communicate effectively with patients from diverse backgrounds
Ethiop and	•	align improvement goals with the priorities of the organisation	•	comply with professional regulatory requirements and
Ethics and professional behaviour	•	contribute to developing an organisational culture that enables and prioritises patients' safety and quality care		codes of conduct

- acknowledge patients' beliefs and values, and how these might impact on health
- incorporate Māori views on health, including the four cornerstones of the Māori health model known as te whare tapa whā

Judgement and decision making

- use decision-making support tools, such as guidelines, protocols, pathways, and reminders
- analyse and evaluate current care processes to improve care

formulate and implement quality

a collaborative effort, involving

access information and advice from other health practitioners to identify, evaluate, and improve patients' care management

Leadership, management, and teamwork

all key health professionals support multidisciplinary team activities to lower patients' risk of harm, and promote interdisciplinary programs

of education

improvement strategies as

- actively involve clinical pharmacists in the medication-use process
- demonstrate attitudes of respect and cooperation among members of different professional teams
- partner with clinicians and managers to ensure patients receive appropriate care and information on their care
- participate in all aspects of the development, implementation, evaluation, and monitoring of governance processes
- participate regularly in multidisciplinary meetings where quality and safety issues are standing agenda items, and where innovative ideas and projects for improving care are actively encouraged

Health policy, systems, and advocacy

- measure, analyse, and report a set of specialty-specific process of care and outcome clinical indicators, and a set of generic safety indicators
- take part in the design and implementation of the organisational systems for:
 - clinical education and training
 - defining the scope of clinical practice
 - performance monitoring and management
 - safety and quality education and training

- maintain a dialogue with service managers about issues that affect patient care
- contribute to relevant organisational policies and procedures
- help shape an organisational culture that prioritises safety and quality through openness, honesty, learning, and quality improvement

Learning goal 9: Virtual care

Theme	Virtual care			
Title	Provide virtual care for dermatology patients or virtual dermatology advice to referrers			
Description				
	 triage referrals, and assess whether virtual care is appropriate for each patient¹¹ 			
	 prepare for virtual consultations with to other health professionals, navigat 	patients and for delivering virtual advice ing suitable technology platforms		
	 provide patient-centred and culturally to patients, or provide virtual advice to 			
	 complete appointment follow-up action 	ons		
	 evaluate patients' or other health profor advice 	fessionals experience of virtual care		
	 document and communicate consulta 	ations or virtual advice provided		
Behaviours				
Professional practice framework domain	Ready to perform without supervision Expected behaviours of a trainee who can routinely perform this activity without needing supervision	Requires some supervision Possible behaviours of a trainee who needs some supervision to perform this activity		
	The trainee will:	The trainee may:		
Medical expertise	 triage inpatient and outpatient referrals, and provide virtual advice to referrers locate and verify patient information and records before virtual consultations apply the same clinical care standards, policies, guidelines, and directives that apply to in-person consultations share succinct virtual advice and clinical communication with other relevant health professionals, such as general practitioners, in a timely manner following virtual patient interactions 	seek advice regarding whether virtual advice is appropriate when necessary		
Communication	 discuss with patients, families, whānau, and/or carers how virtual care can support their health needs, and the limitations of virtual health care obtain patients' consent to use virtual communication methods establish a rapport with telehealth participants 			

¹¹ References to patients in the remainder of this document may include their families, whānau, and/or carers.

	 negotiate collaboratively, and agree on management plans 	
	 use a communication style designed to compensate for connectivity issues, including asking participants to repeat their understanding 	
	 produce a consultation report for referring clinicians 	
	 select virtual modalities that reflect clinical standards and guidelines 	 obtain consent where appropriate, and document this along with the
Quality and safety	 only offer virtual care when and where it is clinically and culturally safe 	consultation notes in medical records
and salety	 use approved devices and secure platforms to ensure safety and privacy 	 recognise the limitations of virtual care
Teaching and learning	 apply an educational approach to allow patients and local health professionals to continue with ongoing care 	 seek out learning in how to apply virtual care to day-to-day practice
Research	 report on patients' feedback of virtual consultations 	 maintain knowledge of the literature around the differences between virtual and in-person interactions
	 consider patients' cultural and social background when deciding whether virtual care is appropriate 	
	 use professional interpreters, health advocates, or family or community members to assist in communication with patients, and understand the potential limitations of each 	
Cultural safety	 acknowledge patients' beliefs and values, and how these might impact on health 	
	 incorporate Māori views on health, including the four cornerstones of the Māori health model known as te whare tapa whā 	
	 liaise with cultural advisors about the appropriateness of providing virtual care 	
	 assess patients' comfort level with technology, based on their culture and past experiences 	
Ent.	 collect patient information privately in the same way one would for an in-person consultation 	 clarify with patients whether their virtual consultation has been satisfactory and met their care
Ethics and professional	 send and record patient 	needs
behaviour	information on a secure network	 respect patients' privacy and safety during consultations, as if they are attending an in-person

	 consider a range of factors when determining whether virtual care is appropriate, including the complexity of care required and patients' personal circumstances, such as the ability of whānau, family, and/or carers to attend
	 identify situations where in-person care is the most appropriate option
Judgement and	 assess patients' access to technology and local support services
decision making	 select an appropriate setting for the consultation, such as a private space
	 assess patients' level of health and digital literacy before and during the consultation
	 consider and plan how prescriptions will be provided to patients
	 devise and implement back-up plans in the event of technological issues
Leadership, management, and teamwork	 recognise, manage, and overcome the inherent limitations of virtual care, and ensure adequate access to in person care
	 advocate for patients' access to appropriate hardware to support virtual care needs
Health policy, systems, and advocacy	 advocate for service models that better meet the needs of patients receiving virtual care
	advocate for support for patients to attend in person when virtual care is not appropriate.

care is not appropriate

Knowledge Guides

Knowledge guides (KGs) provide detailed guidance to trainees on the important topics and concepts trainees need to understand to become experts in their chosen specialty.



Trainees are not expected to be experts in all areas or have experience related to all items in these guides.

#	Title
10	Foundations and clinical sciences of dermatology
11	Paediatric dermatology
12	Medical dermatology
13	Skin tumours and skin cancers
14	Procedural dermatology
15	Dermatology treatments



Learning goal 10 – Foundations and clinical sciences of dermatology

Advanced Training in Dermatology

EPIDEMIOLOGY, PATHOPHYSIOLOGY, AND CLINICAL SCIENCES

Advanced Trainees will have in-depth knowledge of the topics listed under each clinical sciences heading.

For the statistical and epidemiological concepts listed, trainees should be able to describe the underlying rationale, the indications for using one test or method over another, and the calculations required to generate descriptive statistics.

Cutaneous manifestations of systemic disease

- Including, but not limited to, disorders affecting the hair, nails, and skin, such as:
 - » autoimmune
 - » autoinflammatory
 - » cardiac
 - » endocrine
 - » gastrointestinal
 - » hepatic
 - » immunodeficiency
 - » infectious disease
 - » inherited
 - » metabolic
 - » neurocutaneous
 - » renal
 - » respiratory
 - » rheumatological, including:
 - graft-versus-host disease

Dermatology clinical sciences

- · Anatomical pathology of the skin
- Embryology of the hair, nails, and skin
- · Developmental changes of skin with age
- Presentation of dermatological problems in different ethnic and cultural populations
- Principles of skin carcinogenesis
- Principles of wound healing
- · Role of skin in infection and immunity
- · Skin of colour:
 - » implication for presentation and response to disease
 - » structural and functional differences of pigmented skin and skin of colour
- Structure and function of the hair, nails, and skin, including, but not limited to:
 - » hair cycle
 - » normal epidermal differentiation
 - » skin barrier function

Dermatopathology and laboratory methods

- Alopecia:
 - » non-scarring
 - » scarring
- Genodermatoses
- Histology of normal skin and its appendages
- Inflammatory dermatoses, including:
 - » blistering
 - » depositional
 - » granulomatous
 - » lichenoid
 - » neutrophilic
 - » perforating
 - » psoriasiform
 - » spongiotic
 - » vasculitis

- Nails:
 - » melanonychia
 - » onychomatricoma
 - » onychomycosis
- Tumours:
 - » benign
 - » malignant

Genetic dermatology

- Cancer predisposition syndromes
- Genetics of skin disorders and broad knowledge of more common genodermatoses, including, but not limited to:
 - » epidermolysis bullosa
 - » ichthyoses
 - » keratodermas
- Mosaic disorders
- Naevi
- Neurocutaneous syndromes
- Principles of medical genetics and genetic investigations
- Vascular anomalies

Immunology

- Antigen receptors
- Cell signalling
- Cellular components of the immune system
- Hypersensitivity responses
- Immune responses to infections and tumours
- Immune systems:
 - » cutaneous
 - » mucosal
- Immunity:
 - » adaptive
 - » innate
- Immunological memory
- Principles of immunology
- Tolerance

Photobiology

- Basic principles of light transmission and absorption
- Electromagnetic spectrum and wavelengths relevant to dermatology:
 - » infrared light
 - » ultraviolet radiation
 - » visible light
- Photobiological mechanisms, including:
 - » photoageing
 - » photocarcinogenisis
 - » photosensivity
 - » phototoxicity
- Photoprotection:
 - » Aotearoa New Zealand ratings and standards of:
 - sunglasses
 - sunscreen
 - UV protective materials
 - » mechanisms and modalities of photoprotection
- Skin responses to light and UV radiation:
 - » apoptosis, erythema, and inflammation
 - » DNA damage and oxidative stress
 - » immunomodulation
 - » melanogenesis

Population dermatology

- Economic, psychological, and social impact of dermatological disease
- Epidemiology of dermatological disease
- Ethics, equity, and resource allocation
- Impact of dermatological disease on quality of life, and developmental and psychosocial effects
- Socioeconomic and ethnocultural determinants of health

Research dermatology

- Critical appraisal of research papers, such as:
 - case reports
 - clinical trials
 - systematic reviews
- Evidence-based medicine in dermatology
- Good clinical and research practice and methodology
- Statistical methods

Skin infections and infestations

- Exanthems
- Infections of the nails, scalp and skin:
 - bacterial
 - fungal
 - viral
- Microbiology, such as:
 - bacteria
 - fungi
 - mycology
 - parasitology
 - virology
 - yeast
- Pediculosis identification
- Scabies
- Tropical dermatoses

INVESTIGATIONS, PROCEDURES, AND CLINICAL ASSESSMENT TOOLS

Advanced Trainees will know the scientific foundation of each investigation and procedure, including relevant anatomy and physiology. They will be able to interpret the reported results of each investigation or procedure.

Advanced Trainees will know how to explain the investigation or procedure to patients 12, families, and carers, and be able to explain procedural risk

Clinical assessment tools

- Disease assessment tools, such as:
 - Dermatology Life Quality Index (DLQI)
 - specific disease severity scores
- Photography

Investigations

- Biochemistry, microbiological, and haematological
- Dermoscopy
- Head lice, mites, and scabies extraction and microscopic identification
- Histopathology
- Immunohistochemistry
- Laboratory assessments, such as:
 - biochemistry
 - genetics
 - haematology
- Microscopic analysis of relevant bacteria and fungi
- Radiological investigations, such as:
 - MRI
 - ultrasound
- Standard light microscope
- Wood's lamp

¹² References to patients in the remainder of this document may include their families, whānau, and/or carers.

and obtain informed consent where applicable.

Procedures

- Dermatological surgery
- Skin biopsy

IMPORTANT SPECIFIC ISSUES

Advanced Trainees will identify important specialty-specific issues and the impact of these on diagnosis, management and outcomes.

- Contagious disease in community living
- Genetic investigations:
 - » consent for genetic testing
 - » criteria / indications for referral to genetic services
 - » implications and significance for genetic screening
- Health and cultural needs of patients from different ethnic and cultural backgrounds
- Impact of cosmetic issues on psychosocial wellbeing
- Infection screening and vaccination advice prior to immunosuppression
- Informed consent
- Public health notifications and contact tracing
- Taking sexual health histories
- Variation in dermatological diseases with:
 - » age
 - » ethnicity
 - » immunosuppression
 - » pregnancy

Immunodermatology

- Techniques involving desensitisation, including:
 - » indications
 - » limitations
 - » safety of desensitisation techniques

Aotearoa New Zealand immunisation schedules

- Common childhood infectious diseases and exanthems
- Developmental anomalies affecting the skin
- Effect of dermatological disease on normal growth and development in paediatric and adolescent patients and their family / whānau
- Genodermatoses presenting in neonatal and early childhood periods
- Maternal fetal / neonatal disorders, such as transmission of maternal autoantibodies and transplacental infection
- Presentation of neonatal tumours and haematological malignancies
- Primary immunodeficiencies
- Vascular anomalies

PCH



Learning goal 11 - Paediatric dermatology

Advanced Training in Dermatology

KEY PRESENTATIONS AND CONDITIONS

Advanced Trainees will have a comprehensive depth of knowledge of these presentations and conditions.

Presentations

- Birthmarks
- Eruptions:
 - » papulonodular
 - » papulosquamous
 - » pustular
- Erythroderma
- Hair and nail disorders
- Hyperpigmentation
- Hypopigmentation
- Petechiae and purpura
- Photosensitivity
- Vascular:
 - » growths
 - » lesions
 - » rashes

Conditions

- Acne
- Albinism
- Alopecia, including:
 - » alopecia areata
 - » scarring alopecia
 - » tinea capitis
- Autoimmune bullous disorders
- Benign neonatal cutaneous conditions, including:
 - » cradle cap
 - » eczema
 - » erythema toxicum
 - » napkin dermatitis
 - » psoriasis
 - » seborrhoeic dermatitis
- Birthmarks, including:
 - » cafē-au-lait macules
 - » congenital melanocytic naevi
 - » cutis aplasia
 - » epidermal naevi
- Cutaneous examthems, including signs of:
 - » neglect and abuse
 - » nutritional deficiencies
- Drug eruptions
- Hidradenitis suppurativa
- Inflammatory conditions, including:
 - connective tissue disease:
 - dermatomyositis
 - o lupus erythematosus:
 - cutaneous
 - systemic

For each presentation and condition, Advanced Trainees will **know how to:**

Synthesise

- » recognise the clinical presentation
- » identify relevant epidemiology, prevalence, pathophysiology, and clinical science
- » take a comprehensive clinical history
- » conduct an appropriate examination
- » establish a differential diagnosis
- » plan and arrange appropriate investigations
- » consider the impact of illness and disease on patients¹³ and their quality of life when developing a management plan

Manage

- » provide evidence-based management
- » prescribe therapies tailored to patients' needs and conditions
- » recognise potential complications of disease and its management, and initiate preventative strategies
- » involve multidisciplinary teams

Consider other factors

» identify individual and social factors and the impact of these on diagnosis and management

¹³ References to patients in the remainder of this document may include their families, whānau, and/or carers.

- » cutaneous vasculitis:
 - Henoch-Schonlein purpura
 - Kawasaki disease
- » eczema and seborrheic dermatitis
- » granuloma annulare
- » lichen sclerosus
- » morphoea
- » psoriasis
- » urticaria
- Pyogenic granuloma
- Vascular:
 - » anomalies, including:
 - capillary malformation
 - o infantile haemangioma
 - lymphatic malformations
 - venous malformations
 - malformations
 - » tumours
- Vesicobullous conditions
- Vitiligo

LESS COMMON OR MORE COMPLEX PRESENTATIONS AND CONDITIONS

Advanced Trainees will understand these presentations and conditions.

Advanced Trainees will understand the resources that should be used to help manage patients with these presentations and conditions.

Presentations

- Abnormal development and growth in association with skin conditions
- Birthmarks:
 - » collodion
 - » extensive
 - » syndromic
- Blueberry muffin syndrome
- Cutaneous presentations of:
 - » primary immunodeficiencies
 - » systemic diseases, such as:
 - autoinflammatory diseases
 - o cutaneous vasculitis
 - o cystic fibrosis
 - o endocrine
 - metabolic
 - rheumatic syndromes
 - vasculitis syndromes
- Cutaneous:
 - » presentations of primary immunodeficiencies
 - » tumours
- Developmental anomalies of the skin
- Ichthyosis
- Infections:
 - » atypical
- Keratoderma
- Neonatal erythroderma

Conditions

- Cutaneous infections in immunocompromised children
- Genodermatoses, including, but not limited to:
 - » disorders of keratinisation, such as:
 - o ichthysosis
 - keratodermas
 - Netherton syndrome
 - » ectodermal dysplasia
 - » epidermolysis bullosa
 - » incontinentia pigmenti
 - » malignancy predisposition syndromes
 - » neurofibromatosis
 - » RASopathies
 - » tuberous sclerosis
- Graft-versus-host disease in children
- Haematological and other malignancies:
 - » fibromatoses
 - » histiocytic disorders:
 - juvenile xanthogranuloma (JXG)
 - Langerhans cell histiocytosis (LCH)
 - » mastocytosis
 - » melanoma
 - » skin tumours
 - » transplacentally acquired conditions
- Inflammatory dermatoses, complex, including:
 - » severe eczema and psoriasis requiring systemic treatment
- Mosaic disorders, including:
 - » congenital melanocytic naevus (CMN) syndrome
 - » epidermal naevus syndromes
 - » proteus and mosaic overgrowth syndrome
- Mosaic presentations of skin disorders, such as segmental neurofibromatosis (NF) / vitiligo
- Photosensitivity disorders:
 - » polymorphic light eruption
 - » porphyrias
- Rheumatological diseases, including:
 - » juvenile dermatomyositis
 - » juvenile idiopathic arthritis
 - » systemic lupus
- Vascular malformations and tumours, complex, including:
 - » kaposiform haemangioendothelioma
 - » LUMBAR / SACRAL syndrome
 - » PHACE syndrome

- » PIK3CA-related overgrowth spectrum (PROS) disorders
- » Sturge-Weber syndrome

EPIDEMIOLOGY, PATHOPHYSIOLOGY, AND CLINICAL SCIENCES

Advanced Trainees will have a comprehensive depth of knowledge of the principles of the foundational sciences.

- Differences in drug pharmacodynamics and pharmacokinetics in childhood and adolescence, and the related impacts of medication efficacy and safety
- Impact of dermatological disease on normal growth and development of children
- Incidence and prevalence of cutaneous disorders during the neonatal period, childhood, and adolescence, compared to adults

INVESTIGATIONS, PROCEDURES, AND CLINICAL ASSESSMENT TOOLS

Advanced Trainees will know the scientific foundation of each investigation and procedure, including relevant anatomy and physiology. They will be able to interpret the reported results of each investigation or procedure.

Advanced Trainees will know how to explain the investigation or procedure to patients, families, and carers, and be able to explain procedural risk and obtain informed consent where applicable.

Clinical assessment tools

- Collateral history from wider family members
- Disease severity and quality of life scores, such as:
 - » Children's Dermatology Life Quality Index (CDLQI)
 - » Eczema Area and Severity Index (EASI)
 - » Patient Oriented Eczema Measure (POEM)
- Global developmental assessment

Investigations

- · Blood and serological investigations
- Histopathology and immunohistochemistry
- Trichoscopy
- Wood's lamp

Procedures

- Approach to the paediatric patient for procedures
- Dermoscopy
- Skin biopsy
- Skin scraping for mycology

Vascular abnormalities

- Radiological investigations
- Tissue biopsies for histology and genetic evaluation

IMPORTANT SPECIFIC ISSUES

Advanced Trainees will identify important specialty-specific issues and the impact of these on diagnosis and management and integrate these into care.

- Assessment and recommended management of associated food allergies with complex inflammatory dermatoses
- Assessment of children's ability to give consent
- Awareness of child safety in home environments, including when necessary to raise concerns with relevant personnel / organisations
- Home, Education / employment, Eating / exercise, Activities, Drugs and alcohol, Sexuality and relationships, Suicide and depression, Safety (HEEADSSS) assessment
- Impact on the wider family of having a child with a dermatological condition
- Multidisciplinary approach for management, including vascular anomalies multidisciplinary teams
- Normal paediatric and adolescent development, and how this is impacted by dermatological disease
- Treatment modalities, including laser therapy and sclerotherapy



Learning goal 12 - Medical dermatology

Advanced Training in Dermatology

KEY PRESENTATIONS AND CONDITIONS

Advanced Trainees will have a comprehensive depth of knowledge of these presentations and conditions.

Presentations

- Acne excorie
- Angioedema
- Blisters
- Eruption:
 - » blistering
 - » drug
 - » eczematous
 - » pustular
- Erythematous papules / patches / plagues
- Erythroderma
- Facial flushing
- Hair:
 - » excessive growth
 - » loss
- Indurated plaques
- Itch
- · Lesion of concern
- Nail:
 - » bed inflammation
 - » discolouration
 - » plate changes
- Pigmentary changes
- Scarring
- Skin:
 - » failure
 - » injury
- Ulceration:
 - » mucous membranes
 - » oral
- Urticaria

Conditions

- · Angioedema and urticaria
- Connective tissue diseases and collagen vascular disorders:
 - » dermatomyositis
 - » lichen sclerosus
 - » localised forms of scleroderma
 - » lupus erythematosus
 - » morphoea
 - panniculitis:
 - lobular
 - septal
 - » systemic sclerosis
 - » vasculitis

For each presentation and condition, Advanced Trainees will **know how to:**

Synthesise

- » recognise the clinical presentation
- » identify relevant epidemiology, prevalence, pathophysiology, and clinical science
- take a comprehensive clinical history
- » conduct an appropriate examination
- » establish a differential diagnosis
- » plan and arrange appropriate investigations
- » consider the impact of illness and disease on patients¹⁴ and their quality of life when developing a management plan

Manage

- » provide evidence-based management
- » prescribe therapies tailored to patients' needs and conditions
- » recognise potential complications of disease and its management, and initiate preventative strategies
- » involve multidisciplinary teams

Consider other factors

» identify individual and social factors and the impact of these on diagnosis and management

¹⁴ References to patients in the remainder of this document may include their families, whānau, and/or carers.

- Contact dermatitis:
 - allergic
 - irritant
 - non-eczematous contact dermatoses
 - occupational skin dermatoses
 - photoallergic and phototoxic
- Cutaneous manifestations in the immunosuppressed host / graft-versus-host disease
- Dermis disorders:
 - eosinophilic disorders
 - histiocytoses
 - mastocytoses
 - neutrophilic dermatoses
- Genital and mucosal conditions
- Immunobullous disease, including, but not limited to:
 - bullous pemphigoid
 - cicatricial pemphigoid
 - linear IgA dermatoses
 - pemphigus
- Infiltration disorders:
 - acneiform conditions
 - disorders of cornification
 - granulomatous processes:
 - lichenoid eruptions
- Inflammatory dermatoses:
 - dermatitis (all types)
 - psoriasis
- Pigmentation disorders, such as:
 - vitiligo

Conditions – drug eruptions

- Drug eruptions, such as:
 - fixed drug eruption
 - generalised drug eruption
 - lichenoid
 - severe cutaneous adverse reactions

Conditions - hair and nail

- Alopecia:
 - » non-scarring
 - scarring
- Chromonychia
- Congenital and inherited nail diseases
- · Cutaneous manifestations of internal malignancy
- · Hair loss, caused by drugs
- Hirsutism
- Hypertrichosis
- Inflammatory conditions affecting the nails
- Systemic conditions presenting with nail and hair symptoms
- Vitamin deficiencies

Conditions – hypersensitivity reactions

- Allergy / Sensitisation:
 - » environmental
 - » food
- Scar:
 - » atrophic
 - hypertrophic
 - » keloid

Conditions - skin of colour

- Dermatological issues for patients with skin of colour, such as:
 - » follicular disorders, such as:
 - acne keloidalis nuchae
 - comedonal acne
 - » pigmentary disorders, such as:
 - o melasma
 - pityriasis alba
 - vitiligo
- Variants of conditions in skin of colour, such as:
 - » annular and hypertrophic lichen planus
 - » hypopigmented mycosis fungoides
 - » nummular and follicular dermatitis

LESS COMMON OR MORE COMPLEX PRESENTATIONS AND CONDITIONS

Advanced Trainees will understand these presentations and conditions.

Advanced Trainees will understand the resources that should be used to help manage patients with these presentations and conditions.

Presentations

- Drug eruption in complex medical patients, such as those:
 - » in the intensive care unit
 - » who are oncology patients
 - » with immunodeficiency
- Hair shaft changes

Conditions

- · Dermatological diseases:
 - » genital
- Oral mucosal premalignant and malignant disease, such as mammary and extramammary Paget disease

EPIDEMIOLOGY, PATHOPHYSIOLOGY, AND CLINICAL SCIENCES

Advanced Trainees will have a comprehensive depth of knowledge of the principles of the foundational sciences.

Genital and mucosal

- Anatomy and physiology of normal female and male anogenital regions and mucous membranes
- · Anogenital region diseases, such as:
 - » dermatoses:
 - o benign
 - malignant
 - inflammatory diseases
 - » sexually transmitted infections (STIs)
 - » skin lesions:
 - o benign
 - o malignant

Hair and nail

- Hair follicle:
 - » anatomy and development
 - » microscopic structure
- Nail anatomy and biology

Inflammation

- Cellular and molecular biology of inflammation, including:
 - » adhesion molecules
 - » arachidonic acid metabolism
 - » basophils and eosinophils
 - » complement system
 - » cytokines
 - » human leukocyte antigen system
 - » immunoglobulin structure and function
 - » polymorphonuclear leukocytes
- Immunology in relationship to the skin
- Pathology results, including relevant blood and serology tests related to autoimmune diseases and systemic diseases with cutaneous manifestations
- Principles of:
 - contact dermatitis
 - » different forms of urticaria
 - » drug allergy and patch testing
 - » wound healing and scar formation

INVESTIGATIONS, PROCEDURES, AND CLINICAL ASSESSMENT TOOLS

Advanced Trainees will know the scientific foundation of each investigation and procedure, including relevant anatomy and physiology. They will be able to interpret the reported results of each investigation or procedure.

Advanced Trainees will know how to explain the investigation or procedure to patients, families, and carers, and be able to explain procedural risk and obtain informed consent where applicable.

Clinical assessment tools

- Clinical assessment tools, such as:
 - » Dermatology Life Quality Index (DLQI)

Investigations

- Bacterial and viral swabs for culture and/or polymerase chain reaction (PCR)
- Blood tests
- Dermoscopy, including:
 - » digital dermoscopy
- · Hair sampling for histological analysis
- Histopathology
- · Patch testing, including:
 - » ability to select appropriate batteries of allergens based on history and examination findings
 - » knowledge of:
 - Aotearoa New Zealand core series
 - Aotearoa New Zealand extended series
 - specific extended series
- Photography
- Phototesting, including:
 - » monochromator
 - » photopatch
 - » photoprovocation
- Radiographic imaging
- Scraping and nail clipping for mycology
- Skin biopsy, including:
 - » immunohistochemistry
 - » immunofluorescence
- Trichoscopy
- Wood's lamp

Procedures

- Botulinum toxin for hyperhidrosis
- Iontophoresis
- Triamcinolone injection

IMPORTANT SPECIFIC ISSUES

Advanced Trainees will identify important specialty-specific issues and the impact of these on diagnosis and management and integrate these into care. Management of a cutaneous disease in complex comorbid patients in intensive care

Genital and mucosal

· Patient confidentiality issues

Immunodermatology

- Psychological impact, both short- and long-term, of severe drug reactions and other dermatological diseases
- Safety of desensitisation techniques
- Techniques in desensitisation

Occupational dermatology

- Allergen avoidance, advanced management of occupational dermatitis, and prevention of skin disease
- Details of function of and occupational exposure to common allergens in extended patch test series, such as hairdressing battery
- Medical reporting
- Medicolegal aspects of contact dermatitis, including Accident Compensation Corporation (ACC) legislation and reporting
- Workplace assessments

Psychodermatology

- · Clinical features, assessment, investigation, and management of primary psychiatric disease presenting as skin disease to dermatology
- Clinical features, assessment, investigation, and management of primary skin disease presenting with psychosocial comorbidity
- · Dermatological manifestations of psychological problems
- Drug- or toxin-induced psychiatric or psychological conditions
- Features of:
 - anxiety
 - depression
 - risk factors for suicide
- Multidisciplinary approach to primary psychiatric disorders:
 - psychiatric conditions that result in self-induced skin conditions, such as:
 - delusions of parasitosis
 - trichotillomania
- Psychiatric differential diagnosis in skin disease
- Psychophysiological disorders:
 - skin problems that are not directly connected to the mind but react with emotional states, such as eczema and psoriasis
- Psychosocial impact of dermatological disease, including, but not limited to:
 - genital and mucosal dermatological disease
- Secondary psychiatric conditions:
 - associated with disfiguring skin disorders that can cause depression or social phobia, such as:
 - cystic acne
 - psoriasis

Skin of colour

- Understand the differences required in treatment plans when treating skin of colour:
 - » increased risk of post-inflammatory hyperpigmentation and hypertrophic scarring
 - » recognise sociocultural barriers to:
 - accessing health care
 - o interactions
 - treatment
 - » understanding that varied cultural practices may be undertaken by patients to treat skin conditions, including:
 - acupuncture
 - ayurvedic medicine
 - o mirimiri
 - o karakia / prayer
 - rongoa
- Age- and patient-appropriate techniques for skin biopsies and other painful procedures
- Age-appropriate assessment tools to assess quality of life
- Association between childhood eczema and other atopic disorders, and the importance of developing immune tolerance
- Differences in presentation of inflammatory skin disorders in children and adolescents compared to adults
- Incidence and prevalence of inflammatory skin disorders in childhood and adolescence

PCH



Learning goal 13 – Skin tumours and skin cancers

Advanced Training in Dermatology

KEY PRESENTATIONS AND CONDITIONS

Advanced Trainees will have a comprehensive depth of knowledge of these presentations and conditions.

Presentations

- Erythronychia
- Malignancies:
 - » genital
 - » oral
- Mass:
 - » multiple
 - » solitary
- Melanonychia
- Mucous membrane red / white patch
- Nodule:
 - » multiple
 - » subcutaneous
 - » ulcerating
- Papule, solitary
- Patches, multiple
- Plaque:
 - » multiple
 - » solitary
- Yellow spots

Conditions

- Cutaneous:
 - » lymphomas
 - » manifestation of internal malignancies, such as:
 - bowel cancer
 - o leukaemia cutis
 - metastatic breast
- Skin tumours:
 - » benign:
 - o adipose tissue
 - o adnexal
 - o bone
 - cysts
 - ductal
 - epithelial
 - fibrohistiocytic
 - fibrous
 - follicular
 - melanocytic
 - o neural
 - sebaceous
 - o nail
 - » malignant:
 - adipose tissue:
 - liposarcoma
 - adnexal
 - ductal
 - epithelial:
 - basal cell carcinoma

For each presentation and condition, Advanced Trainees will **know how to:**

Synthesise

- » recognise the clinical presentation
- » identify relevant epidemiology, prevalence, pathophysiology, and clinical science
- » take a comprehensive clinical history
- » conduct an appropriate examination
- » establish a differential diagnosis
- » plan and arrange appropriate investigations
- consider the impact of illness and disease on patients 15 and their quality of life when developing a management plan

Manage

- » provide evidence-based management
- » prescribe therapies tailored to patients' needs and conditions
- » recognise potential complications of disease and its management, and initiate preventative strategies
- » involve multidisciplinary teams

Consider other factors

» identify individual and social factors and the impact of these on diagnosis and management

¹⁵ References to patients in the remainder of this document may include their families, whānau, and/or carers.

- squamous cell carcinoma
- fibrous and fibrohistiocytic melanocytic:
 - melanoma
- Merkel cell carcinoma
- nail
- » Paget disease, including mammary and extramammary

PCH

- Cutaneous and vascular tumours in childhood
- Cutaneous presentation of haematological malignancies in children
- Presentation of cancer predisposition syndromes in childhood

LESS COMMON OR MORE COMPLEX PRESENTATIONS AND CONDITIONS

Advanced Trainees will understand these presentations and conditions.

Advanced Trainees will understand the resources that should be used to help manage patients with these presentations and conditions.

Presentations

- Nodules:
 - » multiple:
 - cutaneous
 - mucosal
 - subcutaneous
 - solitary:
 - cutaneous
 - mucosal
 - subcutaneous
- Papules:
 - » multiple
 - » solitary

Conditions

- Follicular tumours and associated conditions, such as:
 - » Bazex syndrome
 - » Birt-Hogg-Dubē syndrome
 - » Brooke–Spiegler syndrome
 - » Cowden syndrome
- Genital premalignant and malignant conditions
- Kaposi sarcoma
- Muir–Torre syndrome
- Oral mucosal premalignant and malignant conditions

EPIDEMIOLOGY, PATHOPHYSIOLOGY, AND CLINICAL SCIENCES

Advanced Trainees will have a comprehensive depth of knowledge of the principles of the foundational sciences.

- Genetics of cutaneous tumours:
 - » benign
 - » malignant

INVESTIGATIONS, PROCEDURES, AND CLINICAL ASSESSMENT TOOLS

Clinical assessment tools

 Identify psychological or developmental factors before undertaking painful procedures, and modify approach Advanced Trainees will know the scientific foundation of each investigation and procedure, including relevant anatomy and physiology. They will be able to interpret the reported results of each investigation or procedure.

Advanced Trainees will know how to explain the investigation or procedure to patients, families, and carers, and be able to explain procedural risk and obtain informed consent where applicable.

Investigations

- Histology reports
- · Radiographic imaging
- Staging

Procedures

- Biopsy:
 - » nail unit
 - » scalp
 - » skin
- Dermoscopy
- · Removal of skin tumours using methods such as:
 - » cautery
 - » curettage
 - » excision
 - » saucerisation

IMPORTANT SPECIFIC ISSUES

Advanced Trainees will identify important specialty-specific issues and the impact of these on diagnosis and management and integrate these into care.

- Indications for Mohs micrographic surgery
- Margins of excision in different skin tumours, working knowledge of surgical instrumentation and nomenclature, and suture materials and needles
- Utilisation of different biopsy modalities for different types of lesions

Management (including, but not limited to)

- Cryotherapy
- Curettage:
 - » cautery
- Electrosurgery
- Excisions
- Intralesional injections, such as cytotoxic drugs
- Laser
- Mohs micrographic surgery
- Photodynamic therapy for solar keratoses and superficial basal cell carcinoma
- Saucerisation
- Topical immunotherapy / chemotherapy



Learning goal 14- Procedural dermatology

Advanced Training in Dermatology

CLINICAL SCIENCES

Advanced Trainees will describe the principles of the foundational sciences.

- For each procedure, describe:
 - » alternatives
 - » complications
 - consent
 - contraindications
 - cure rates
 - indications
 - instrumentation
 - principles
 - » risks
 - safety factors
 - techniques

Anaesthesia

- Pharmacology of local anaesthetics, such as:
 - anatomy relevant to regional blocks around face and digits
 - buffering and tumescent formulations
 - infiltration techniques, including techniques to ameliorate injection discomfort
- · Toxicities and monitoring

Cryotherapy

- · Cellular effects
- Different cryogens
- Mechanisms
- Physical factors
- Physiological factors

Curettage

- Immunopathology
- Microscope operation
- Specimen processing

Electrosurgery

- Electrocautery
- Electrodessication

Laser surgery

- Clinical indications, complications, and contraindications
- Physics of lasers, and how this impacts the skin
- · Principles of laser delivery and devices

Photodynamic therapy (PDT)

Principles and techniques of PDT

Phototherapy

- Management of special populations, including:
 - children
 - mobility impaired
 - pregnant women

- Phototherapy devices, mechanism of action, and treatment protocols for:
 - » broadband ultraviolet radiation (UV) B
 - » narrowband UVB
 - » psoralen plus ultraviolet-A radiation (PUVA)
 - » UVA1
- Treatment initiation and assessment of minimal erythema dose

Scalpel surgery

- Biopsy, such as:
 - » incisional
 - » punch
 - » shave
- Excision
- Flaps
- Grafts

Surgical anatomy

- General considerations:
 - » anatomy of skin:
 - deep fascia, including structures that may be injured during surgery, such as lymph nodes
 - » head and neck anatomy
- Regional anatomy
- Surface anatomy:
 - » aesthetics and the anatomy of skin ageing
 - » skin tension lines
 - » topographic anatomy and surface projections of deep anatomical structures

LESS COMMON OR MORE COMPLEX PATIENT CONSIDERATIONS

Advanced Trainees will understand the resources that should be used to help manage patients ¹⁶.

- Complications
- Determining and assessing patients who are not surgical candidates
- Practical aspects of procedure

Anaesthesia

- Anatomy relevant to advanced regional blocks
- · Principles of tumescent anaesthesia

Cosmetic procedural dermatology

- Basic knowledge of:
 - » chemical peels
 - » cosmetic dermatological procedures
 - » injectables
 - » topical therapies

Surgery

- · Mohs micrographic surgery, including methods and techniques of:
 - » lesion removal
 - » mapping
 - » microscopic assessment and interpretation
 - » potential complications
 - » specimen preparation and processing

UNDERTAKING THERAPY

Anaesthesia

• Understanding of topical and local anaesthesia

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Advanced Trainees will monitor the progress of patients during the therapy.

Cryotherapy

Techniques

Disease-specific treatment protocols for scalpel surgery

- Biopsy:
 - » contraindications, indications, and instrumentation
 - » types:
 - excisional
 - o incisional
 - o punch
 - o shave
- Excision:
 - » cosmetic unit principles
 - » lines of excision
 - » margins of excision for different skin tumours
 - » suturing techniques
 - » techniques of haemostasis
 - » wound closure
- Flaps:
 - » principles of tissue movement and flap dynamics
 - specific flaps, such as:
 - o advancement
 - rotation
 - Z-plasty
- Grafts:
 - » full and split thickness
 - » mechanisms of graft survival

Electrosurgery

- Diathermy
- Electrocoagulation
- Electrosection (cutting)

Injection therapy

• Intralesional corticosteroid injections

Photodynamic therapy

- Narrowband UVB phototherapy
- Phototesting
- Solar simulator and monochromator testing

Phototherapy

- Assess treatment response and completion
- Identify and manage common issues and potential complications:
 - » burns
 - » missed doses
 - » non-response
- Treatment thresholds

POST-THERAPY

Advanced Trainees will know how to monitor and manage patients post-therapy.

- Manage all post-operative care and complications of procedural work, including:
 - » complications
 - » postoperative healing
 - » safety
- · Resuscitation procedures

Postoperative wound care

- Dressings
- Management of complications, such as:
 - » haematoma
 - » hypertrophic scarring

- » infection
- » necrosis
- Second intention healing

IMPORTANT SPECIFIC ISSUES

Advanced Trainees will identify important specialty-specific issues and the impact of these on diagnosis and management and integrate these into care.

Essential practical skills

- Appropriate incision lines
- Excision elliptical
- Respect for cosmetic units
- Suture
- Wound closures

Hair and nail

- · Adequate samples sent for scalp biopsy
- Techniques for nail biopsies

Infection control / sterilisation

- Disinfection and sterilisation procedures, and sharps and contaminated waste disposal
- Legislative requirements for office and day stay surgical facilities
- Standards for:
 - » aseptic techniques
 - » operating room protocol
 - » sharp injuries protocol
 - » sterilisation

PCH

- Altered wound healing in young people
- Appropriate anaesthesia, distraction, and procedural techniques to minimise pain and distress
- Informed consent / assent for procedures in paediatric and adolescent patients
- Risk of toxicity with anaesthetic agents in children



Learning goal 15 - Dermatology treatments

Advanced Training in Dermatology

CLINICAL SCIENCES

Advanced Trainees will describe the principles of the foundational sciences.

- Pathophysiology and complications of skin failure and other severe dermatoses
- Pharmacotherapy
- Photobiology

Clinical pharmacology of systemic drugs

- Clinical pharmacology of:
 - » injectables used in dermatology practice, including, but not limited to:
 - corticosteroids
 - o local anaesthetics
 - » topical drugs, covering absorption, clinical use, distribution, mechanism of action, and structure, including adverse effects, clinical indications, contraindications, and drug interactions, for specific topical therapies, including, but not limited to:
 - anti-infective agents
 - o anti-inflammatory agent
 - cytotoxic drugs
 - emollients
 - o immunomodulatory agents
 - keratolytics
 - photosensitisers
 - retinoids
- Pharmacology, covering the absorption, clinical use, distribution, mechanism of action, metabolism and excretion, and structure, including adverse effects, clinical indications, contraindications, and drug interactions, for drugs used in dermatology, including, but not limited to:
 - » antiandrogens
 - » anti-infective agents
 - » anti-inflammatory and immunomodulatory / suppressive
 - » biologics
 - » new and emerging drugs relevant to dermatology
 - » psoralens
 - » retinoids
 - » targeted therapies

РСН

- Altered pharmacodynamics and pharmacokinetics of medications in children
- Eligibility for childhood vaccinations
- Potential effects of medications on normal growth and development

ELIGIBILITY CONSIDERATIONS

Advanced Trainees will assess the patient's 17 current condition and plan the next steps.

- Community Schedule of fully and partially funded pharmaceuticals Named Patient Pharmaceutical Assessment (NPPA) process
- Patient decision making through provision of information regarding treatment choices
- Pharmac initial and renewal funding criteria
- Special authority
- Unfunded medication availability in Aotearoa New Zealand, and current legislation regarding access

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LESS COMMON OR MORE COMPLEX PATIENT CONSIDERATIONS

Advanced Trainees will understand the resources that should be used to help manage patients.

- Issues around use of multiple immunosuppressive agents and off-label medications
- Presentation and discussion of complex patients and treatment regimens at multidisciplinary meetings
- Principles of treatment decisions for disorders with limited evidence-base

UNDERTAKING THERAPY

Advanced Trainees will monitor the progress of patients during the therapy.

- Appropriate laboratory, physical, and radiological monitoring of treatments prescribed or used
- Management of acutely unwell dermatology patients:
 - investigation and management of causes and complications of skin failure and other severe dermatoses
- Recognition and management of acute adverse drug reactions and anaphylaxis
- Relevant disease assessment tools
- Side effects of phototherapy, surgery, and other treatments
- Value of shared decision making

РСН

• Safe paediatric drug dose calculation

POST-THERAPY

Advanced Trainees will know how to monitor and manage patients post-therapy.

• Clear guidance regarding follow-up requirements for patients and primary care providers

IMPORTANT SPECIFIC ISSUES

Advanced Trainees will identify important specialty-specific issues and the impact of these on diagnosis and management and integrate these into care.

- Management of acutely unwell dermatology patients:
 - » recognition and management of acute adverse drug reactions and anaphylaxis
- Prescribing per regulatory guidelines