

CLINICAL PHYSIOLOGISTS BOARD

Guidelines for Registration

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CLINICAL PHYSIOLOGISTS BOARD

The Clinical Physiology Disciplines represented on the Clinical Physiologists Board are:

Discipline	Professional Body	Certification
Cardiac	Society of Cardiopulmonary Technologists (SCT)	<p>Clinical Physiologist Certification of Cardiac Physiologists (CCP)</p> <p>Physiology Technician Certificate in Physiological Measurement (CPM) (including cardiac ± respiratory module)</p>
Respiratory	Australian and New Zealand Society of Respiratory Science (ANZSRS)	<p>Clinical Physiologist Certified Respiratory Function Scientist (CRFS)</p>
Sleep	Australasian Sleep Technologists Association (ASTA)	<p>Clinical Physiologist Certification/Registration examination BRPT (or agreed other)</p> <p>Physiology Technician Certificate in Physiological Measurement (CPM) (including sleep module)</p>

FUNCTIONS OF THE BOARD

The functions of the Board are set out in accordance with Section 118 of the Health Practitioners Competence Assurance Act 2003. The Board's main functions are:

- To prescribe the qualifications required for scopes of practice within the clinical physiology professions and, for that purpose, to accredit and monitor educational institutions, degrees, courses of studies, or programmes. To authorise registrations under this Act, and to maintain registers.
- To review and promote the competence of health practitioners and issue practising certificates.
- To set standards of clinical competence, cultural competence and ethical conduct and to accredit and set programmes to ensure the ongoing competence of practitioners.
- To receive and act on information about the competence of practitioners.
- To promote education and training within the profession.
- To carry out other functions that are prescribed or conferred on it.

PROPOSED BOARD STRUCTURE

The proposed structure for the Clinical Physiologists Board is two representatives from each Clinical Physiology field, one educational officer (and two lay persons).

BOARD MEMBERS

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DEFINITION OF PROFESSIONS OF CLINICAL PHYSIOLOGISTS

Clinical physiology is the performance of subjective and objective assessment and clinical diagnostic and interventional procedures; both invasive and non-invasive, on the human body and implanted devices for the purpose of supporting diagnosis, treatment, management, clinical decision-making, research and prevention of disease.

The areas of clinical physiology, that fall under the scopes of practice include but are not limited to any of the following:

CARDIAC PHYSIOLOGIST

Perform, record, monitor, analyse, and report, where appropriate, the results of procedures in line with agreed scope of practice.

- This may include: electrocardiography (ECG's), Holter monitor, event recorder and blood pressure monitor fitting and removal, exercise stress testing, transducer set-up and calibration, cardiac catheterisation (adult diagnostic and interventional procedures), Holter monitor analysis, tilt table testing, right and left heart cardiac catheterisation, cardiac output measurement (including thermodilutions, oxygen uptake and haemoximetry), intra-aortic balloon pumping, intravascular ultrasound (IVUS), pressure wire studies, temporary pacing.

Following relevant advanced training, registered cardiac physiologists, in line with their scope of practice, may perform more advanced procedures, and interpret the findings and report on the results.

- This may include: exercise stress testing supervision, paediatric cardiac catheterisation, implantation and follow-up of pacemakers, implantable cardioverter defibrillators and other implantable devices, electrophysiology studies (including: diagnostic, 3 dimensional mapping, catheter and surgical ablations), echocardiography (including: transthoracic, stress and transoesophageal)

RESPIRATORY PHYSIOLOGIST

Perform, record, monitor, analyse, and report, where appropriate, the results of procedures in line with agreed scope of practice.

- This may include: non-invasive diagnostic testing of the respiratory and cardiorespiratory system including but not limited to the measurement of spirometry, lung volumes, diffusing capacity, response to bronchodilator, inspiratory/expiratory mouth pressures, sputum induction, pulse oximetry, capnography.

Following relevant advanced training, registered respiratory physiologists, in line with their scope of practice, may perform more advanced procedures, and interpret the findings and report on the results.

- This may include but not limited to: bronchial hyper-responsiveness testing including, hypertonic saline, methacholine, histamine, eucapnic voluntary hyperventilation, Manitol and exercise. Inspiratory/expiratory ventilation and gas exchange. Nutritional assessment through ventilation, diagnostic exercise testing including but not limited to full cardiopulmonary exercise, 6/12-minute walk, shuttle and step. Assessment of requirement for domiciliary oxygen including but not limited to; hypoxia inhalation test (HIT) and supplementary oxygen assessment. Cabin altitude simulation test (CAST).
- Invasive diagnostic tests and investigation procedures including but not limited to arterial blood gas sampling, shunt, arterialised venous blood sampling, bronchoscopy, allergy skin prick, Tuberculin (Mantoux) intracutaneous, blood gas analysis and tonometry procedure.
- Research in the field of respiratory science.

SLEEP PHYSIOLOGIST

Perform, record, monitor, analyse, and report, where appropriate, the results of procedures in line with agreed scope of practice.

- This may include: non-invasive diagnostic assessment of the cardiopulmonary and neurological system for sleep related disorders including but not limited to polysomnography, non invasive positive airway pressure application and titration including but not limited to continuous positive airway pressure (CPAP) titration, bi-level positive pressure.

PHYSIOLOGY TECHNICIAN

Cardiac

Perform, record and monitor during procedures, as appropriate, in line with agreed scope of practice.

- This may include: non-invasive diagnostic recordings such as: electrocardiography (ECG), fitting and removal of ambulatory recording devices (Holter, event and blood pressure), exercise stress testing, spirometry.

Sleep

Perform, record, monitor and analyse, where appropriate, the results of procedures in line with agreed scope of practice.

- This may include: setting up and monitoring of cardiopulmonary and neurological signals during sleep, setting up and issuing of prescribed CPAP/BiPAP according to physician or Sleep Physiologists instructions, selection and fitting of mask interface system.

REGISTRATION

Registration under the Clinical Physiologists Board will be by one or more Scopes of Practice. A Scope of Practice is defined in legislation as the professional service that the registrant is permitted to perform.

SCOPES OF PRACTICE

The Clinical Physiologists Board has defined scopes of practice for qualified applicants for registration and provisional scopes of practice for applicants who are employed as trainees.

Clinical Physiologist

- Cardiac Physiologist
- Respiratory Physiologist
- Sleep Physiologist
- Provisional Physiologist (Cardiac / Respiratory / Sleep)

Physiology Technician

- Physiology Technician (Cardiac / Sleep)
- Provisional Physiology Technician (Cardiac / Sleep)

SCOPE OF PRACTICE REQUIREMENTS

The requirements prescribed by the Board in accordance with Section 12 of the Health Practitioners Competence Assurance Act 2003 for registration under the scopes of practice are:

PHYSIOLOGY TECHNICIAN

Scope of practice	Qualification / Certification	Work Experience
Physiology Technician (Cardiac / Sleep)	<ul style="list-style-type: none">• Completion of relevant modules of the Certificate of Physiological Measurement (CPM)• Appropriate society membership	<ul style="list-style-type: none">• Minimum of 1 year relevant full time work experience in a recognised training establishment
Provisional Physiology Technician (Cardiac)	<ul style="list-style-type: none">• Level 2 NCEA in English, Maths and Science or equivalent• Enrolment in the cardiac ± respiratory modules of the Certificate of Physiological Measurement (CPM)• SCT membership	<ul style="list-style-type: none">• Undertaking recognised on-the-job training in a recognised training establishment
Provisional Physiology Technician (Sleep)	<ul style="list-style-type: none">• Enrolment in the sleep module of the Certificate of Physiological Measurement (CPM) ASTA membership	<ul style="list-style-type: none">• Undertaking recognised on-the-job training in a recognised training establishment

Provisional scopes of practice may be granted for a maximum of 4 years.

CLINICAL PHYSIOLOGIST

Scope of Practice	Qualification / Certification	Work Experience
Cardiac Physiologist	<ul style="list-style-type: none"> • Completion of the Post Graduate Diploma in Cardiac Technology and • SCT certification of cardiac physiologists programme (CCP) • or qualifications and experience assessed by the board as equivalent • SCT membership 	<ul style="list-style-type: none"> • Minimum of 2 years relevant full time work experience in a recognised training establishment
Respiratory Physiologist	<ul style="list-style-type: none"> • Completion of recognised tertiary qualification in respiratory science and • ANZSRS certification/registration examination (CRFS) • ANZSRS membership 	<ul style="list-style-type: none"> • Minimum of 2 years relevant full time work experience in an accredited establishment
Sleep Physiologist	<ul style="list-style-type: none"> • Completion of recognised tertiary qualification in sleep science and • Certification /registration examination (BRPT or other) • ASTA membership 	<ul style="list-style-type: none"> • Minimum of 2 years relevant full time work experience in a recognised training establishment
Provisional Cardiac Physiologist	<ul style="list-style-type: none"> • Bachelor Degree in Science and • Studying towards a Post Graduate Diploma in Cardiac Technology as provided by an accredited education provider in NZ • Membership with SCT 	<ul style="list-style-type: none"> • Enrolled in the certification of cardiac physiologists programme
Provisional Respiratory Physiologist	<ul style="list-style-type: none"> • Bachelor Degree in Science and • Studying for a recognised tertiary level qualification in respiratory science • ANZSRS membership 	<ul style="list-style-type: none"> • Employed as a trainee respiratory physiologist following recognised on-the-job training
Provisional Sleep Physiologist	<ul style="list-style-type: none"> • Bachelor Degree in Science and • Studying for a recognised tertiary level qualification in sleep science • ASTA membership 	<ul style="list-style-type: none"> • Employed as a trainee sleep physiologist following recognised on-the-job training

Provisional scopes of practice may be granted for a maximum of 4 years.

PATHS TO REGISTRATION

GENERAL

The Board has adopted scopes of practice and described a range of qualification options sufficient to register any person with appropriate science qualifications (if acceptable to the Board) from the occupational groups recognised in New Zealand working in the fields of cardiac, respiratory and sleep physiology. (Additional fields may be added in the future).

The Board recognises that, even within New Zealand, a diverse range of qualifications and training has provided the student or school-leaver with skills relevant to the practise of clinical physiology, when combined with practical training within the field of physiology. New Zealand clinical physiology disciplines also draw upon the world-wide profession to recruit experienced staff. The assessment by the Board for suitability of international applicants for registration demands that the Board establish a framework within which the diversity of qualifications and relevant experience possessed by applicants can be assessed consistently and fairly.

During the period of voluntary registration the Board has adopted clear eligibility criteria for registration of existing technicians, technologists and scientists working in the fields of cardiac, respiratory and sleep physiology.

Clinical Physiologists

1. All practitioners currently holding voluntary registration with the Society of Cardiopulmonary Technologists Registration Board (SCTRB) will be automatically transferred to the Clinical Physiologists Board. Assessment of the new Scope of Practice will be by the Board at the registration round at which time all registrants will be informed of their new scope(s) of practice.
2. There is a period of grandfathering for new registration applicants who can demonstrate that they have a minimum of 5 years full time experience prior to 1 January 2008 in the stated field for which registration under one or more scopes of practice are applied for and that they have attained the certification examination applicable to the scopes of practice applied for.
3. Registration under these conditions will cease on 1 January 2009

Physiology Technicians

1. All practitioners currently holding voluntary registration with the Society of Cardiopulmonary Technologists Registration Board (SCTRB) will be automatically transferred to the Clinical Physiologists Board. Assessment of the new Scope of Practice will be by the Board at the 2006 registration round at which time all registrants will be informed of their new scope(s) of practice.
2. There is a period of grandfathering for new registration applicants who can demonstrate that they have a minimum of 5 years full time experience prior to 1 January 2006 in the stated field for which registration under one or more scopes of practice are applied for and that any required training as defined by the appropriate professional Society has been completed.
3. Registration under these conditions will cease on 1 January 2007.

NEW APPLICANTS

Applicants who do not fulfil the requirements for registration under grand parenting will be required to comply with the requirements prescribed by the Clinical Physiologists Board for registration in accordance with Section 12 of the Health Practitioners Competence Assurance Act 2003. Refer to [registration](#), [scopes of practice](#) and [scope of practice requirements](#), page 8 and 9.

OVERSEAS APPLICANTS FOR REGISTRATION

A person with qualifications gained outside of New Zealand is entitled to registration in New Zealand as a clinical physiologist or physiology technician by satisfying one of the following criteria:

1. The applicant holds registration from a registration board recognised by the Board in the same or substantially the same scope of practice the applicant is applying for registration in.
2. The applicant fulfils the requirements for registration as a clinical physiologist or physiology technician in New Zealand.
3. The applicant completes the requirements for registration as a clinical physiologist or physiology technician in New Zealand.

The Board may offer (at the applicant's expense) a one off competency assessment.

ANNUAL PRACTICING CERTIFICATE

1. The Clinical Physiologists Board will issue an annual practicing certificate to every health practitioner registered by the Clinical Physiologists Board upon application in accordance with Section 26 of the Health Practitioners Competence Assurance Act 2003.
2. The Clinical Physiologists Board reserves the right to place restrictions and/or conditions on any annual practising certificate if the Registrar has reasonable grounds to do so in accordance with Section 27 of the Health Practitioners Competence Assurance Act 2003.
3. All applications for an annual practicing certificate will be promptly considered. In the event that an application is declined or conditions are placed upon the applicant's scope of practice the applicant will be provided with clear information supporting the decision.
4. The annual practicing certificate will be valid for a period of no more than one year from the date the certificate is issued in accordance with Section 30 of the Health Practitioners Competence Assurance Act 2003.
5. The health practitioner's scope of practice will be endorsed on every annual practicing certificate in accordance with Section 32 of the Health Practitioners Competence Assurance Act 2003.
6. A health practitioner registered with the Clinical Physiologists Board must deliver any current annual practicing certificate to the Registrar within 14-days of notification of removal, suspension or requirement for endorsement in the event

that their name is removed from the register, their practising certificate or registration is suspended, or their practicing certificate is required for endorsement.

7. In the event of an annual practicing certificate being declined on the basis that the applicant must first fulfil conditions determined by the Clinical Physiologists Board in accordance with Section 29 of the Health Practitioners Competence Assurance Act 2003, the Registrar will on application and payment of the fee issue an interim practicing certificate in accordance with Section 31 of the Health Practitioners Competence Assurance Act 2003.

CONTINUING PROFESSIONAL DEVELOPMENT

All health practitioners registered under the Clinical Physiologists Board are required to maintain competence in their scopes of practice. For this reason continuing professional development is an ongoing requirement for continuing registration and for the issuance of an annual practicing certificate.

The requirements for continuing professional development relevant to continuing competence in any scope of practice are:

1. Continuing professional development (CPD) must be relevant to the individuals scopes of practice
2. All registrants are required to show evidence of continuing professional development
3. The director of the department where the registrant works is required to sign to confirm that the registrant has completed the continuing professional development activities listed in their portfolio.
4. The following table shows the CPD activities, credit allocations and documentation required.
5. The CPD credits required over three years for a person registered are
 - a. 200 for a Cardiac, Respiratory and Sleep Physiologist with a minimum requirement of 40 credits per year,
 - b. 100 for a Physiology Technician with a minimum of 20 per year
6. Five percent of those on the register will be randomly selected for audit each year.
7. It is the responsibility of the registrant to ensure that their CPD portfolio is up to date and the original documents relating to the CPD activities are available.

CONTINUING PROFESSIONAL DEVELOPMENT ACTIVITIES

The following list is not exhaustive. For further information relating to continuing professional development please refer to the Continuing Professional Development document.

Group Activities/Meeting	Points
Business Proposals (e.g., research grants, capital proposals, resource proposals)	25 per proposal
Scientific Publication	
- Peer reviewed	30 per paper
- Non-peer reviewed	15 per paper
- Abstract co-author	5 per abstract
Tertiary teaching – undergraduate & graduate	5 per hour
Post Graduate student supervision	15 per student
Reviewing peer journal articles, i.e. reviewer for journal	10 per article
Departmental Education Activities	
- Attendance	1 per hour
- Presentation	2 per hour
Invited Lecturer	5 per hour
Any other activities as seen fit by the registration board to count for CPD credits	

Personal Study	Points
Attendance at Scientific Meeting	Where stated use CME/CPD points , otherwise 1 per hour
Presentation at conference	25 per presentation
Professional membership	1 per Society per year (excluding compulsory society membership)
Committee Activities	20 per committee per year
Passing Exams	30 per paper
Courses (non-tertiary)	2 per hour
On-line quizzes via Society website	As per stated CPD value shown on quiz.

Quality Activities	Points
Accreditation	
- writing document	10 per procedure
- reviewing document	5 per procedure
Health & Safety and Infection Control Representative	5 per year for each
Training Courses	
- developing	25 per hour
- running or reviewing	5 per hour
Workshop	
- attendance	1 per hour
- running	5 per hour
Department meetings	1 per hour

CODE OF ETHICS

The Code of Ethics is to act as a guide to assist clinical physiologists in all areas of practice in which they are engaged.

1. Clinical Physiologists will act in such a manner that will justify public trust and confidence. This will be achieved through high standards of professional competency as well as through professional conduct and appearance.
2. Clinical Physiologists shall provide relevant and accurate clinical information. They will work within pertinent legislation and be guided by accepted standards.
3. Clinical Physiologists shall practice without bias to a patient or colleague's gender, race, religion, political belief or medical condition.
4. Clinical Physiologists shall respect the confidential and personal nature of professional records and protect the patient's right to privacy by keeping their information in the strictest confidence. They shall also maintain the protocols of informed consent.
5. Clinical Physiologists will continually strive to maintain and improve their knowledge and competency in clinical physiology. They will also share their knowledge with colleagues and promote learning.
6. Clinical Physiologists will be responsible for reporting any unethical conduct or illegal professional activities to the appropriate bodies.

For further information please refer to the Standards of Conduct, Performance and Ethics document.

COMPLAINTS AND DISCIPLINARY PROCESS

Complaints against practitioners should be made in writing and be sufficiently detailed. It is recommended that complaints be sent to the Health and Disability Commissioner, PO Box 1791, Auckland.

Where the Clinical Physiologists Board receives a patient care complaint (i.e. a complaint alleging that the practice or conduct of a clinical physiologist has affected a health consumer) it must promptly be sent to the Health and Disability Commissioner. If the scope of the complaint is not clear, the complaint will be referred to the Commissioner for preliminary assessment.

The Commissioner may refer complaints to the Clinical Physiologists Board, the responsible authority.

The Board assesses the complaint, and considers, in light of the nature and circumstances of the complaint, the action or actions that the Board should take to respond to the complaint.

The Board may decide to refer the complaint to a Professional Conduct Committee.

Professional Conduct Committee can make various determinations and recommendations. Some of the determinations and recommendations possible follow: that the Board counsel the practitioner, that the Board review the competence of the clinical physiologist, that the Board review the practitioner's scope of practice, that a charge be brought against the clinical physiologist, that no further steps be taken.

PROFESSIONAL CONDUCT COMMITTEES

The Clinical Physiologists Board may appoint these committees from time to time to investigate the complaint and make recommendations and/or determinations. They are composed of 2 health practitioners who are registered with the Board; and 1 layperson.

HEALTH PRACTITIONERS DISCIPLINARY TRIBUNAL

The HPCA Act has established a Health Practitioners Disciplinary Tribunal to hear and determine charges brought before it for any health practitioner covered by the HPCA Act. Health registration authorities will not hear charges that arise from the operation of the HPCA Act.

The Tribunal membership is composed of the Chairperson (Barrister or Solicitor of the High Court), or a deputy Chairperson and four other, 3 of whom must be professional peers of the health practitioner and 1 must be a lay person.

The source of charges is either the Director of Proceedings (Health and Disability Commissioner's Office) or a professional conduct committee.

FEES FOR 2006

The following fees are charged in accordance with Section 130 of the Health Practitioners Competence Assurance Act 2003.

SERVICE	FEE (NZ\$)
1. Application for Registration for NZ trained clinical physiologist or physiology technician	\$150
2. Application for Registration for Australian trained clinical physiologist or physiology technician under the Trans-Tasman Mutual Recognition Act 1997	\$150
3. Application for Annual Practicing Certificate	\$150
4. Application by registered Clinical Physiologist or registered Physiology Technician to add a further scope of practice	\$150
5. Application for a Provisional Scope of Practice	\$100
6. Application for assessment of a continuing professional development programme	\$350
7. Auditing of a continuing professional development programme (three years following approval)	\$1,200
8. Addition or alteration to the register maintained by the Board	\$100
9. Issue of an additional Certificate of Registration or copy of any certificate	\$43
10. Supply of documentation required by registrant for the purpose of seeking registration overseas	\$100
11. Application for examination set or approved by the Board	P.O.A.

FEES EFFECTIVE FROM REGULATION

Effective following regulation of the professions under the HPCA Act 2003 the following fees will be charged in accordance with Section 130 of the Health Practitioners Competence Assurance Act 2003.

SERVICE	FEE (NZ\$)
1. Application for Registration for NZ trained clinical physiologist or physiology technician	\$315
2. Application for Registration for Australian trained clinical physiologist or physiology technician under the Trans-Tasman Mutual Recognition Act 1997	\$315
3. Application for Annual Practicing Certificate	\$210
4. Application by registered Clinical Physiologist or registered Physiology Technician to add a further scope of practice	\$170
5. Application for a Provisional Scope of Practice	\$170
6. Application for assessment of a continuing professional development programme	\$350
7. Auditing of a continuing professional development programme (three years following approval)	\$1,200
8. Addition or alteration to the register maintained by the Board	\$100
9. Issue of Certificate of Registration or copy of any certificate	\$43
10. Supply of documentation required by registrant for the purpose of seeking registration overseas	\$100
11. Application for examination set or approved by the Board	P.O.A.

* Fees illustrated are an indicative amount of the presumed cost, but need to be finalised.