Physician Readiness for Expert Practice

Advanced Training in Nuclear Medicine

2019-20 Program Requirements Handbook

Adult Medicine Division

Paediatrics & Child Health Division
About the 2019–20 handbook

This handbook outlines the complete program requirements for the RACP Physician Readiness for Expert Practice (PREP) Advanced Training in Nuclear Medicine Program. Satisfactory completion of these requirements is necessary for admission to Fellowship of the College or completion of post-Fellowship training.

The 2019–20 handbook applies to all Australian and New Zealand based trainees registered in a PREP program in 2019 and/or 2020, regardless of the year in which they commenced PREP Advanced Training. A trainee is considered to be in a PREP Advanced Training Program if they first enrolled in that program from 2011 onwards. Where not specified as being particular to either Australia or New Zealand, information applies to trainees and supervisors in both countries.

2019-20 Program requirement updates

Overseeing committees evaluate training requirements every two years (previously annually) to ensure that they are in line with educational best practice. Requirements are published and communicated accordingly. Changes to the training program that may substantially impact a trainee’s plan for training will be implemented following an extended period of notice. It is the trainee’s responsibility to ensure that they are following the correct handbook.

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<tr>
<th>Changes to program requirements for 2019-20</th>
<th>Rationale for changes</th>
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</thead>
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<td><strong>Supervision Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>• At least one supervisor must now have FRACP or FRANZCR in Nuclear Medicine</td>
<td>To ensure appropriate supervision by Nuclear Medicine specialists.</td>
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<tr>
<td><strong>Supervisor’s Reports</strong></td>
<td></td>
</tr>
<tr>
<td>• Final Supervisor’s Report renamed ‘Supervisor’s Report; additional Supervisor’s Report replaces Mid-Year Progress Report for 12-month positions.</td>
<td>To align with College-wide change to ensure trainees and committees are better informed about trainee progress throughout the year.</td>
</tr>
</tbody>
</table>

For trainees commencing training in 2019 onwards

| Radionuclide Therapy Training (RTT)        | To ensure introductory exposure to Radionuclide Therapy. |
| • Introduction of five day Radionuclide Therapy Training and Logbook | |
| • Recommended RTT Online Modules           | |

| Paediatric Training                        | To ensure sufficient paediatric training for Nuclear Medicine trainees. |
| • Reduction in paediatric training time from 20 to 15 days. Paediatric Case Report to be submitted upon completion of paediatric training. | |
| • Introduction of Online Paediatric Training Module | |
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Nuclear Medicine

Nuclear medicine is a unique medical specialty that uses radiopharmaceuticals (radioisotopes) in the diagnosis and treatment of a wide range of medical conditions.

Program overview

Advanced Training provides a 'depth' of specialty training under supervision to prepare trainees for independent practice as consultants. It builds on the skills developed in preceding training through work-based assessments and learning tools as outlined in this handbook.

<table>
<thead>
<tr>
<th>Program</th>
<th>Advanced Training in Nuclear Medicine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overseeing committee(s)</td>
<td>Joint College Training Committee in Nuclear Medicine (JCT)</td>
</tr>
</tbody>
</table>
| Curricula | - Download the Nuclear Medicine Advanced Training Curriculum (PDF 1MB)  
- Download the Professional Qualities Curriculum (PDF 1MB) |

Advanced Training in Nuclear Medicine – RACP trainees

| Entry requirements | • Completion of RACP Basic Physician Training, including the RACP Written and Clinical Examinations  
• Current medical registration  
• Appointment to an appropriate Advanced Training position |
| Minimum duration | 3 years full-time equivalent (FTE) |
| Qualification | Fellowship of the Royal Australasian College of Physicians (FRACP) |

Advanced Training in Nuclear Medicine – Royal Australian and New Zealand College of Radiologists (RANZCR) trainees

| Entry requirements | • Completion of the RANZCR Clinical Radiology Part 2 Examinations  
• A minimum of four years of accredited radiology training  
• Completion of all system focused training and work based assessment requirements including research  
• Current medical registration  
• Appointment to an appropriate Advanced Training position |
| Minimum duration | 2 years (full-time equivalent (FTE)) |
| Qualification | Letter confirming completion of the Nuclear Medicine Program (trainees from RANZCR do not qualify for FRACP) |

Positron Emission Tomography (PET) Training for Nuclear Medicine Specialists

Quick links

- [Apply or re-register](#)
- [Program requirements overview](#)
- [Important dates](#)
- [Advanced Training Portal](#)
- [Accredited training sites](#)
- [Part-time training](#)
- [Membership fees (including training fees)](#)
- [Supervision](#)
- [Download the Advanced Training supervisor amendment form (DOC 153KB)](#)
- [Download the Advanced Training interruption of training form (DOC 1.1MB)](#)
• The Royal Australian and New Zealand College of Radiologists

Learning and assessment tool forms

Supervisor's Reports

- Download the Nuclear Medicine Supervisor's Report (DOC 1MB)
- Download the Nuclear Medicine PET Supervisor's Report (DOC 162KB)

Contact us

Australia
Phone: +61 2 8247 6279
Email: NuclearMedicine@racp.edu.au
Apply for Advanced Training

Eligibility

**RACP trainees**
New trainees can apply for Advanced Training:
- after completing Basic Training, including passing the Divisional Written and Clinical Examinations.

Trainees must have:
- current medical registration
- appointment to an appropriate Advanced Training position at a suitable training site.

**RANCR trainees**
Trainees may apply to enter the Nuclear Medicine Program following:
- successful completion of the Clinical Radiology Part 2 examinations
- a minimum of four years of accredited radiology training
- completion of all system focused training and work based assessment requirements including research

**PET trainees (credentialled Nuclear Medicine Specialists)**
Nuclear medicine specialists who have Fellowship of RACP or RANZCR and completed training prior to 2005 may enter Positron Emission Tomography (PET) training at any time. Please refer to PET training requirements for further information. All other training requirements outlined in this handbook do not apply to PET only trainees. On completion of PET training requirements, specialists will receive a letter confirming completion of PET training.

**Advanced Training positions**
Core training usually needs to be undertaken at accredited training sites that have been accredited by the overseeing committee for Advanced Training in the relevant specialty.

Some specialty groups conduct a coordinated Advanced Trainee Selection and Matching process for appointing trainees to training positions. Details of participating states, regions and specialties are available from June each year.

Please note that the College is not responsible for trainee recruitment and has no role in the recruitment process.

**Approval and certification of training**
Once trainees have secured a training position, they must prospectively apply for approval as per the Progression through Training Policy.

Approval of training periods will be determined by the overseeing committee. To be approved, a trainee’s individual training program must be consistent with the training requirements and appropriate for the stage in training.

Upon completion of each rotation or calendar year of training, the overseeing committee considers each trainee’s progress according to the program requirements. If all requirements of training have been satisfactorily completed, the overseeing committee will certify the period of training.

**Prospective changes to approval of training**
Trainees should inform the relevant committee as soon as possible if information outlined in their application changes. Some changes may require a revision of the approval decision and may affect the certification of training.

Changes to applications which require prospective approval may include changes to supervision, sites, dates of rotations and flexible training arrangements.
How to apply
Both new and current trainees need to apply for Advanced Training each year.

**Australian Trainees**
Apply online for Advanced Training by the due dates below.
Where online registration is not available please download, complete and submit the application form to apply for Advanced Training in Nuclear Medicine (DOC 472KB).

**New Zealand Trainees**
Download, complete and submit the application form to apply for Advanced Training in Nuclear Medicine (DOC 475KB) by the due dates below.

**RANZCR Trainees**
Please download, complete and submit the application form to apply for Advanced Training in Nuclear Medicine (DOC 399KB).

**Consultants applying for Training in Positron Emission Tomography (PET):**
Please download, complete and submit the application form to apply for PET Training (DOC 228KB).
Trainees must organise the timely submission of all necessary documentation, keep a copy of the application for future reference and pay required fees.

**Closing dates for applications**

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
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<tbody>
<tr>
<td>15 February</td>
<td>Closing date for applications for prospective approval of rotations in the current year</td>
</tr>
<tr>
<td>31 August</td>
<td>Closing date for applications for prospective approval of rotations in the second half of the current year</td>
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</table>
College training program resources
This handbook should be used alongside the following resources.

Curricula
RACP curricula outline the learning objectives and associated knowledge, skills, attitudes and behaviours required of graduates of College training programs across program-specific/clinical and non-program/non-clinical attributes.

- Download the Nuclear Medicine Advanced Training Curriculum (PDF 1MB)
- Download the Professional Qualities Curriculum (PDF 1MB)

Advanced Training Portal
Resources for many of the requirements of this training program can be accessed through the Advanced Training Portal. These include:

- summary of training completed and required
- detailed information on training rotations, including approval and certification decisions
- past examination results
- online teaching and learning and formative assessment tools
- information sheets, workflows, rating forms and interactive video tutorials for online tools

Education policies
Education policies underpin all training requirements.
Key education policies include the following:

- Academic Integrity in Training
- Flexible Training
- Progression through Training
- Recognition of Prior Learning (RPL)
- Special Consideration for Assessments
- Trainee in Difficulty Support (TIDS).

Variations in training and flexible training options
Variations in training processes cover dual, joint, conjoint and post-fellowship training.
Flexible training option information covers part-time training, interruptions to training, withdrawing from training and exceptional circumstances.

Trainee responsibilities
All trainees are adult learners who must understand trainee responsibilities and play a role in teaching and mentoring junior doctors.
The College is committed to supporting trainees who are experiencing difficulty in their training. If trainees or supervisors are experiencing difficulty, they should contact their Education Officer and the Training Support Unit. The Training Support Unit has resources for trainees covering topics including learning support and mentoring.

Supervisor roles and responsibilities
Supervision in PREP training involves a comprehensive level of educationally-focused support for trainees. The College runs supervisor workshops to help develop required skills for this role.

Accreditation of settings
Core training is usually conducted in training positions at accredited training sites that have been accredited by the overseeing committee.
eLearning@RACP

eLearning@RACP is a central, online space which supports College members in their learning. It contains educational resources developed by the RACP or shared by other postgraduate medical colleges. College members can login and access courses and modules designed and developed in collaboration with Fellows, trainees and education committees, on topics including:

- Communication
- Indigenous Health
- Research
- Supervisor Professional Development
- Telesupervision

These courses and modules are optional and completion is not a program requirement.

Admission to Fellowship

RACP trainees are eligible to be admitted to Fellowship of the College on the completion of all requirements of training. The College will invite trainees to apply for Fellowship once the overseeing committee has recommended them for admission. The admission process involves completion of an application form, and the payment of a fee.

New Fellows will receive formal notification from the College that they have been admitted to Fellowship. In addition to the award of Fellowship, individuals who complete training are issued a letter confirming the completion of their training. Fellows who complete another training program subsequent to admission to Fellowship receive a letter confirming all of the RACP training programs that they have completed.

All Fellows in Australia, New Zealand and overseas who are in active practice must meet the requirements of a Continuing Professional Development (CPD) program.
**Program requirements**

Program requirements are the components of a training program that a trainee must complete in order to progress through training. Mandatory program requirements are linked to the certification of training, progression through training and program completion.

Program requirements are made up of formative and summative assessments, teaching and learning activities, the type and duration of clinical rotations, course work and other requirements, such as minimum overall duration of training.

Overseeing committees evaluate training requirements every two years (previously annually) to ensure that they are in line with educational best practice. Requirements are published and communicated accordingly. Changes to the training program that may substantially impact a trainee’s plan for training will be implemented following an extended period of notice.

It is the trainee’s responsibility to ensure that they are following the correct handbook and are aware of the current program requirements. They must also ensure that they are familiar with current RACP education policies and processes, such as those for dual trainees.
Program requirements overview

<table>
<thead>
<tr>
<th>Core training (minimum 24 months)</th>
<th>Non-core training (maximum 12 months)</th>
</tr>
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<tbody>
<tr>
<td><strong>Content</strong></td>
<td><strong>Content</strong></td>
</tr>
<tr>
<td>• Nuclear Medicine Advanced Training Curriculum</td>
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<td>• Professional Qualities Curriculum</td>
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<tr>
<td><strong>Supervision</strong> per rotation:</td>
<td><strong>Supervision</strong> per rotation:</td>
</tr>
<tr>
<td>• 1 supervisor with FRACP/FRANZCR in Nuclear Medicine</td>
<td>• 1 supervisor with FRACP/FRANZCR in Nuclear Medicine</td>
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<tr>
<td>• 1 supervisor who may or may not have FRACP/FRANZCR in Nuclear Medicine</td>
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</tr>
<tr>
<td><strong>Work-based learning and assessment tools</strong></td>
<td><strong>Work-based learning and assessment tools</strong></td>
</tr>
<tr>
<td>Per rotation:</td>
<td>Per rotation:</td>
</tr>
<tr>
<td>• 1 Supervisor’s Report (2 for 12-month rotations)</td>
<td>• 1 Supervisor’s Report (2 for 12-month rotations)</td>
</tr>
<tr>
<td>Per year:</td>
<td>Per year:</td>
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<tr>
<td>• 2 Learning Needs Analysis</td>
<td>• 2 Learning Needs Analysis</td>
</tr>
</tbody>
</table>

By the end of Advanced Training:
RACP trainees only
36 months of *certified training time* consisting of:
• 24 months of core training
• 12 months of non-core training
• AANMS Cross-sectional Anatomy Course

RANCR trainees only
24 months of *core training*

All trainees
• Continuous Assessment Program
• Positron Emission Tomography Training (300 PET scans)
• Basic Science Course
• ANZBMS Bone Densitometry Course or reporting of 200 bone mineral density scans
• Developmental and Psychosocial Training (Paediatrics & Child Health trainees only)
• Paediatric and Radionuclide Therapy Training for trainees commencing training in 2019 onwards:
  ◦ 15 days Paediatric training
  ◦ Online Paediatric Training Module and submission of 1 Paediatric Case Report
  ◦ 5 days Radionuclide Therapy Training and Logbook
  ◦ Online Radionuclide Therapy Modules (recommended)
• Paediatric Training for trainees who commenced training prior to 2019:
  ◦ 20 days Paediatric training
• Research Project requirement:
  ◦ 1 Advanced Training Research Project (for trainees commencing training in 2018 onwards)
  ◦ Participation in 1 Research Project or 1 Advanced Training Research Project (for trainees who commenced training prior to 2018)
## Time-based requirements - Training time and rotations

### Purpose
To ensure adequate time for trainees to gain necessary learning experiences across a range of relevant rotations.

### Total training time

**For trainees who commenced training prior to 2019**

**RACP trainees:**
- 24 months core training
  - Including 20 days paediatric training
- 12 months non-core training

**RANZCR trainees:**
- 24 months core training
  - Including 20 days paediatric training

**For trainees commencing training in 2019 onwards**

**RACP trainees:**
- 24 months core training
- Including a minimum of 20 days of paediatric and radionuclide therapy training
  - 15 days paediatric training (minimum)
  - 5 days Radionuclide Therapy training (minimum)
- 12 months non-core training

**RANZCR trainees:**
- 24 months core training
- Including a minimum of 20 days of paediatric and radionuclide therapy training
  - 15 days paediatric training (minimum)
  - 5 days Radionuclide Therapy training (minimum)

### Core training
A minimum of 24 months full-time equivalent (FTE) must be spent in accredited training positions. Full time equivalent training is regarded as 5 days per week.
**Non-core training**

- A maximum of 12 months in non-core training must be undertaken in clinical training in nuclear medicine, in other disciplines, or in research; 12 months non-core training in PET/nuclear medicine clinical work or research is encouraged.
- For dual trainees, the overseeing committee will also prospectively approve, on a case-by-case basis, only those rotations that are directly relevant to nuclear medicine. Trainees completing rotations in another specialty area (e.g. Endocrinology) should specify in their application how the rotation is related to nuclear medicine and must demonstrate how they will maintain currency in nuclear medicine (e.g. attendance at journal clubs).
- Generally, dual trainees will only have 50 per cent of training time in another specialty approved as non-core Nuclear Medicine (e.g. 12 months core Endocrinology training may be approved as 6 months non-core Nuclear Medicine training). This is due to the limited exposure to the learning objectives outlined in the Nuclear Medicine Advanced Training Curriculum when completing a rotation in another specialty. Therefore, trainees are advised that non-core training in Nuclear Medicine will generally only be completed upon successful completion of two years of core training in another specialty. The overseeing committee reserves the right to defer certification of non-core training until all core Nuclear Medicine training is completed and the trainee has demonstrated their competency across the breadth of the Nuclear Medicine Advanced Training Curriculum.

**Training time in Australia/New Zealand**

At least 12 months of Advanced Training in Nuclear Medicine must be undertaken in Australia and/or New Zealand.

**Other requirements**

It is strongly recommended that trainees complete their Advanced Training at more than one training site.

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### Paediatric Training

**Purpose**

For trainees to develop skills in and understand:

- theoretical paediatric clinical nuclear medicine
- physiological differences between adult and paediatric patients
- appropriate immobilising and positioning of paediatric patients
- paediatric therapeutic nuclear medicine

**Requirement**

*For trainees who commenced training prior to 2019*

20 days over the course of training.

*For trainees commencing training in 2019 onwards*

A minimum of 15 days over the course of core training including completion of one Paediatric Case Report.

The Paediatric Case Report is to be reviewed by the paediatric supervisor before electronic submission to the Paediatric Case Library via the Education Officer.

For trainees not attached to a site that is accredited for paediatric training, a rotation to a site accredited for paediatric training is considered necessary. Trainees must undertake a total of 15 days of paediatric training during the two core years of Nuclear Medicine training. The maximum core training accredited time allowed purely in paediatrics for trainees in the RACP’s Adult Medicine Division program and for RANZCR trainees is three months.

At present, the only site in Australia specifically accredited for ‘12 months of core paediatric training’ is The Children’s Hospital at Westmead. Core training accreditation for any
Paediatric Training

Paediatric training time greater than 20 days should be sought prospectively, and needs to be considered on a case-by-case basis.

Please note, Paediatric trainees may complete up to 12 months of core training at a site approved for paediatric nuclear medicine. Trainees who take up this option must complete the remainder of core training at a site which is accredited for adult nuclear medicine and which offers a high level of cardiac stress testing. It is also recommended that these trainees gain a third year of nuclear medicine experience.

More information
- List of sites accredited for Advanced Training in Nuclear Medicine - includes sites accredited for paediatric training.

Paediatric Nuclear Medicine Online Training (for trainees commencing in 2019 onwards)

<table>
<thead>
<tr>
<th><strong>Purpose</strong></th>
<th>To strengthen paediatric nuclear medicine training and compliment experiential learning.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Requirement</strong></td>
<td></td>
</tr>
<tr>
<td><strong>For trainees who commenced training prior to 2019</strong></td>
<td>Not required.</td>
</tr>
</tbody>
</table>
| **For trainees commencing training in 2019 onwards** | Completion of the online Paediatric Nuclear Medicine Module over the course of core training. The module covers the most commonly performed diagnostic procedures and is mapped from the advanced training curriculum. The module includes:  
  - online lectures,  
  - recommended readings,  
  - a case library with cases and questions relevant to the content. |

Radionuclide Therapy Training and Logbook (for trainees commencing in 2019 onwards)

<table>
<thead>
<tr>
<th><strong>Purpose</strong></th>
<th>To improve clinical access and provide introductory exposure to Radionuclide Therapy.</th>
</tr>
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<tbody>
<tr>
<td><strong>Requirement</strong></td>
<td></td>
</tr>
<tr>
<td><strong>For trainees who commenced training prior to 2019</strong></td>
<td>Not required.</td>
</tr>
</tbody>
</table>
| **For trainees commencing training in 2019 onwards** | Trainees must complete five days of Radionuclide Therapy Training (RTT) during core training, maximum three months during core training. Trainees may undertake this training in smaller blocks of time rather than five consecutive days. Trainees must submit a logbook including feedback on the value of the rotation at the end of the rotation. The logbook is to be submitted with the Supervisor’s Report in the core year that the RTT is completed. Therapy exposure should include:  
  - patient assessments and consultations,  
  - review of imaging,  
  - attendance at MDT meetings. |
### Radionuclide Therapy Training and Logbook (for trainees commencing in 2019 onwards)

- administration of therapies,
- patient follow-up

Where possible, exposure to radiopharmaceutical preparation and quality control processes should also be included.

#### Exposure

The exposure to radionuclide therapy should include:

- a broad range of less common therapies as per local practices,
- management of more common conditions such as thyroid cancer (depending upon the casemix available at the training site)

#### Access

Access to radionuclide therapy varies across states and training centres. Please contact your Education Officer for program details designed by the appointed Radionuclide Therapy State Training Co-ordinator for your state.

#### Recommended Reading

It is recommended that trainees complete European School of Multimodality Imaging and Therapy (ESMIT) webinars prior to completion of their 5 days of RTT.

#### More information

- Contact your [Education Officer](mailto:)
- [ESMIT Online Resources](#)

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### Supervision requirements

#### Purpose

To provide trainees with appropriate support and guidance to complete the training program.

#### Core and non-core training

- 1 supervisor with FRACP/FRANZCR in Nuclear Medicine
- 1 supervisor who may or may not have FRACP/FRANZCR in Nuclear Medicine

#### More information

- [Supervision](#)
- [Download the Advanced Training supervisor amendment form (DOC 153KB)](#)
Work-based learning and assessment tools

PREP teaching and learning activities are designed to support reflective practice and self-directed learning. A variety of teaching and learning activities and assessments are used throughout PREP training. These activities cater to a range of learning needs, styles and situations that may arise in workplace training, and aim to facilitate learning and enhance the attainment of desired learning outcomes.

Trainees are required to complete all teaching and learning activities, including formative and summative assessments, throughout training.

Formative assessments focus on assessment for learning through feedback and guidance. The College’s formative assessments aid the trainee and supervisor through a formal feedback discussion, prompting areas for discussion highlighted by the trainee’s performance. The College’s formative assessments are based on existing workplace-based assessment methods and best practice in medical education.

Summative assessments focus on judgements about trainee progression, resulting in pass or fail decisions on a trainee’s performance.

### Learning Needs Analysis (LNA)

**Purpose**
To embed the process of planning and evaluating learning in the trainee’s practice.

**Requirement**
Two per year, one per six-month rotation due by 31 January of the following year

**More information**
- Complete and submit the LNA via the [Advanced Training Portal](#)
- [Learning Needs Analysis information sheet, workflow and other resources](#)

### Supervisor’s Reports

**Purpose**
To evaluate and provide feedback on the trainee’s progress, which informs the certification of training decision. This is a summative assessment.

**Requirement**
One Supervisor’s Report is due per rotation, two for 12-month rotations.

For Advanced Trainees in 12-month positions:
- One Supervisor’s Report is to be submitted by 15 July for the first six months of the calendar year.
- One Supervisor’s Report is to be submitted by 31 January of the following year covering the final six months of the calendar year.

For Advanced Trainees in positions of six months or less with separate supervisors, or at separate sites:
- One Supervisor’s Report should be completed for each rotation and submitted to the College by 15 July (for first half of the year) and 31 January the following year (for the second half of the year).

Advanced Trainees approaching the end of their training should submit a report that covers the whole second half of the year by 15 October.

The Supervisor’s Report must be completed by supervisors who have directly supervised the trainee. If the supervisor has not directly supervised the trainee throughout the whole rotation, the supervisor should obtain individual reports from those who have directly supervised the
**Supervisor’s Reports**

trainee and provide a composite report. Supervisors should discuss the report with the trainee prior to both parties signing the report, and trainees should be provided with a copy of each report.

It is the trainee’s responsibility to ensure that all supervisors receive a copy of the Supervisor’s Report. Failure to do this may result in delays or non-certification of a period of training.

Progression to the next year of training is dependent upon the College receiving satisfactory Supervisor’s Report(s) covering the full year/period of training completed.

Trainees must provide copies of previous Supervisor's Report(s) to the next year's/rotation’s supervisor.

The College may provide subsequent supervisors with copies of past reports (and any other documents deemed relevant to the trainee’s training).

**More information**

- [More information on Supervisor's Reports](#)
- [Learning and assessment tool forms](#)
- [Progression Through Training Policy](#)

**Course attendance**

### Basic Sciences Course (BSC)

**Purpose**

To provide trainees with the basic scientific principles relevant to the clinical applications of nuclear medicine.

**Requirement**

Once over the course of training

Training in the basic sciences is required as part of Advanced Training in Nuclear Medicine. Demonstration of satisfactory training requires satisfactory completion of the BSC, including the written assessment covering the curriculum in basic sciences. It is strongly recommended that the BSC be undertaken during the first year of Advanced Training.

An open book written assessment, comprising two two-hour papers, will be undertaken in the Advanced Trainee’s department, under the supervision of the supervisor.

A certificate of completion will be provided to Advanced Trainees upon satisfactory completion of the course (including the written assessment).

Advanced Trainees wishing to seek exemption on the basis of a previously completed course must submit a formal request to the JCTC, which will require satisfactory evidence that the minimum course content has been covered. However, even if exemption from the course work is granted by the JCTC, it remains a requirement that all Advanced Trainees undertake the written assessment component of the BSC.

**More information**

- [AANMS website](#)
- [Contact the AANMS Secretariat](#)

### Cross Sectional Anatomy (CSA) Course (RACP trainees only)

**Purpose**

To provide practical, applied anatomy knowledge identified as the most important areas currently required in the field.
### Cross Sectional Anatomy (CSA) Course (RACP trainees only)

**Requirement**

Once over the course of training (core or non-core)
The core content of the course covers the following major anatomy topics:
- brain (both macroscopic and cross-sectional anatomy); skull base; head and neck (lymph nodes, pharynx and larynx)
- chest
- abdomen
- pelvis
- musculoskeletal (MSK)
- introductory anatomy for CT coronary angiography (CTCA).

The CSA course is run by the AANMS once in each alternate year (e.g. 2019, and next in 2021) over three days (Friday, Saturday and Sunday) and is currently run in Melbourne.

Trainees should provide a copy of the certificate of attendance to their supervisor on completion of the course.

**More information**
- [AANMS website](http://example.com/aanms)
- Contact the [AANMS Secretariat](http://example.com/aanms)

### Other requirements

#### Bone Densitometry

**Purpose**

For trainees to develop skills in and understand:
- principles of DEXA acquisition and quality control
- clinical principles of osteoporosis diagnosis, therapy and monitoring
- the role of BMD in overall fracture risk
- clinical reports and advice on action and follow-up or results

**Description**

Once over the course of training

Bone densitometry training may be completed by one of two methods:
- The trainee may attend the annual two-day practitioner course on bone densitometry run by the Australian and New Zealand Bone and Mineral Society (ANZBMS) and be successful in the associated examination.
- The trainee may be involved and supervised in the reporting of a minimum of 200 bone mineral density (BMD) scans during his/her training period.

Supervisors are required to confirm satisfactory training in bone densitometry on the annual Supervisor’s Report form. Trainees who elect to attend the ANZBMS course on bone densitometry will be asked to document their attendance at the course and their success in the examination.

**More information**
- [ANZBMS website](http://example.com/anzbms)

### Continuous Assessment Program

**Purpose**
Continuous Assessment Program

The Continuous Assessment Program (CAP) is designed to direct learning to areas of importance in the Nuclear Medicine Curriculum and provide an objective measure of this knowledge.

**Requirement**

Once per core training year.

The CAP is a mandatory component of Advanced Training in Nuclear Medicine, and is currently run as a formative assessment program that is not a barrier to completion of training.

The CAP comprises a number of types of assessment, e.g. written assignments, online assessments and/or more formal face-to-face assessments (e.g. an Oral Assessment Task [OAT] and/or the American Board of Nuclear Medicine Formative In-Training Examination), which may be varied from year to year.

Details of the requirements (including dates of assessment tasks) for the current year’s CAP are listed on the Australasian Association of Nuclear Medicine Specialists’ (AANMS) Trainee Resource and Education Centre (TREC) at: www.aanms.org.au/moodle/.

Please note that the TREC is open to current nuclear medicine trainees only. Please contact the AANMS Secretariat if you need further information about the CAP.

All trainees, including those doing their Nuclear Medicine training part-time, must complete all the CAP assessments set during their years of core Nuclear Medicine training, as outlined in the RACP’s Flexible Training Policy (available at www.racp.edu.au).

**More information**
- [AANMS website](http://www.aanms.org.au/moodle/)

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Developmental and Psychosocial Training

**Purpose**

To assist trainees to develop a sophisticated understanding of child development, encompassing physical, cognitive, emotional, behavioural and social areas, which should be gained from the perspective of the child within the family and in the context of the community.

**Requirement**

This is a requirement for Paediatrics & Child Health trainees only.

**Australia**: Once over entire training period (Basic Training and Advanced Training) for six months due by the end of Advanced Training

**New Zealand**: Once over entire training period (Basic Training and Advanced Training) for three months due by the end of Advanced Training

**More information**
- [More information on Developmental and Psychosocial Training](http://www.aanms.org.au/moodle/)
- [Learning and assessment tool forms](http://www.aanms.org.au/moodle/)
### Positron Emission Tomography Training – Trainees

**Purpose**
For trainees to develop skills in and understand:

- principles of PET acquisition and quality control
- clinical principles of diagnosis, therapy and monitoring of a range of oncological disease using FDG
- clinical reports and advice on action and follow-up of results, including relevant ‘incidental findings’.
- non-oncological indications of FDG PET and a range of non-FDG tracers.

**Requirement**
Once over the course of training

The requirements for PET training are as follows:

- The trainee must be present (for the duration of the scan), involved and supervised in the reporting of a minimum of 300 PET oncology scans during his/her training period. Of these, the trainee may report a maximum of 100 paediatric or adolescent PET studies at an accredited PET training site, and a minimum of 200 adult PET studies at an accredited PET training site.
- In order to fulfil the minimum study number requirement, the trainee must spend at least one month (or a minimum of 20 working days) at an accredited PET training site. For trainees not attached to a site that is accredited for PET training, a rotation to a site accredited for PET is considered necessary. This rotation may be divided and spread over the two core training years.
- The trainee is required to keep a logbook of PET studies reported. The logbook should contain the following details: identification of patient (but not the patient’s name), type of scan, and diagnosis.
- A trainee’s supervisor, if at a site accredited for PET training, can confirm that the trainee’s logbook is a true and accurate record of his/her PET training experience using a standard annual Supervisor’s Report form. A separate PET Supervisor’s Report form is also available for trainees who undertake PET training at a second training site, and this Supervisor’s Report form must be provided to the overseeing committee.

PET training is usually undertaken during core training. A maximum of three months training in PET may be approved as core training. Any further training in PET will only be approved as non-core training.

**More information**
- [Learning and assessment tool forms](#)
- [List of sites accredited for Advanced Training in Nuclear Medicine](#) - includes sites that are accredited for PET training.

### Post Fellowship Training

**Purpose**
To acquire practical skills and knowledge in PET for specialists who have completed their training prior to 2005.

**Timing**
As required

**Training type**
Post-Fellowship PET training
Positron Emission Tomography Training – Nuclear Medicine Specialists only

Description
As required
These PET training requirements apply only to qualified nuclear medicine specialists who start their post-Fellowship PET training from 1 January 2016. The requirements are as follows:

- PET training must be applied for prospectively using an Application for Prospective Approval of Training in PET.
- The trainee must be involved in the interpretation or review of a minimum of 450 PET oncology scans during his/her training period, with a minimum of 300 ‘live’ cases, and a maximum of 150 ‘review’ cases as described in more detail below.
- The trainee must include a minimum of 300 live cases where the trainee must be present (for the duration of the scan), involved and supervised in the reporting of the scan. Of these minimum 300 live cases, the trainee may report a maximum of 100 paediatric or adolescent PET studies at an accredited PET training site, and a minimum of 200 adult PET studies at an accredited PET training site.
- The maximum of 150 ‘review’ cases may be achieved through reviews with clinicians or multidisciplinary team meetings at an accredited PET training site. The review cases may be a mix of adult and paediatric or adolescent oncology PET studies.
- In order to fulfil the minimum study number requirement, the trainee would generally be required to spend 30 working days at an accredited PET training site. This may be completed in blocks of time over multiple sites. Trainees do not have to arrange for a single 30-day term at a PET training site.
- The trainee is required to keep a logbook of PET studies reported. The logbook should contain the following details: identification of patient (but not the patient’s name), type of scan, and diagnosis.
- A trainee’s supervisor must confirm that the trainee’s logbook is a true and accurate record of PET training using the PET Supervisor’s Report form. This form must be provided at the end of the training period.

Any specialist whose PET training has been approved, or commenced, prior to 1 January 2016 should refer to the PET training requirements as outlined for Advanced Trainees. Please note that, unless there are extenuating circumstances, the overseeing committee will prospectively approve only training plans up to 12 months in advance of commencement of PET training.

More information
- Learning and assessment tool forms
- Application for Prospective Approval of Training in Positron Emission Tomography (PET)
- List of sites accredited for Advanced Training in Nuclear Medicine - includes sites that are accredited for PET training.

Research requirements

Research Projects

Purpose
To enable trainees to gain experience in research methods; in interpretation of research literature; in participation in research at some stage of their career; and to develop quality improvement skills. Submission of a research project provides evidence of the skills of considering and defining research problems; the systematic acquisition, analysis, synthesis and interpretation of data; and effective written communication.
### Research Project (for trainees who commenced training before 2018)

**Requirement**
Trainees who commenced training before 2018 have the option to complete any one of the following two requirements over the course of training due by 15 September in the trainee’s final year:
- Complete 1 Advanced Training Research Project (recommended for trainees who commenced training in 2017); or
- Participate in 1 Research Project

Trainees who choose to participate in a research project must submit evidence of their research involvement. The following documents will provide acceptable evidence of research involvement:
- A published abstract of work presented at a national or international scientific meeting
- A published case report, where the trainee is the first author
- An original article published in a peer-reviewed journal.

If these documents are unavailable, a report detailing the Advanced Trainee’s research efforts will need to be submitted for consideration.

**More information**
- Contact the [Education Officer](mailto:education@racp.org.au)

### RACP Research Project (for trainees commencing training in 2018 onwards)

**Requirement**
One Advanced Training Research Project over the course of training due by the annual submission date of 15 September in any year before the end of Advanced Training.*

The research project must be marked as satisfactory prior to admission to Fellowship. It is recommended that trainees submit their research project by 15 September in their penultimate year of training to allow time for marking and resubmission of research projects initially marked ‘Resubmit’.

*Only required for RANZCR trainees if RANZCR project does not meet Advanced Training Research Project requirement. Note: for JCT to assess project, it must be nuclear medicine focussed. If not, the JCT may, at its discretion, require the trainee to complete an alternate smaller nuclear medicine focussed project. Second nuclear medicine project can be a small project.

**More information**
- [Research Projects eLearning@RACP module](https://racp.org.au/learning-module/111)
- [Education policies](https://racp.org.au/education-policies)
**Important dates**

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<thead>
<tr>
<th>January–March</th>
<th>15 February</th>
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<tr>
<td>Applications for Approval of Advanced Training due</td>
<td>Other activities to be completed this quarter</td>
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<td>Learning Needs Analysis</td>
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<th>April–June</th>
<th>Activities to be completed this quarter</th>
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<tr>
<td>Learning Needs Analysis self-evaluation</td>
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<tr>
<th>July–September</th>
<th>15 July</th>
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<tr>
<td>Supervisor’s Report for trainees in 12-month positions due</td>
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<tr>
<th>31 August</th>
<th>Activities for Approval of Advanced Training for the second half of the year due</th>
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<tr>
<td>Research Project submission date</td>
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<tr>
<th>15 September</th>
<th>Other activities to be completed this quarter</th>
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<td>Learning Needs Analysis</td>
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<th>October–December</th>
<th>15 October</th>
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<tr>
<td>Supervisor’s Report and all PREP tools due for trainees eligible for December Fellowship</td>
<td>Other activities to be completed this quarter</td>
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<td>Learning Needs Analysis self-evaluation</td>
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<th>January</th>
<th>31 January</th>
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<tbody>
<tr>
<td>Previous year’s Supervisor’s Report and all PREP tools due for trainees not applying for Fellowship in December</td>
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Trainees in Nuclear Medicine should also contact the Australasian Association of Nuclear Medicine Specialists (AANMS) for the timetable which outlines the due dates for assessments submitted through the AANMS. Please contact education@aanms.org.au.
More information

RACP policies

- Education policies
- Privacy Policy for Personal Information
- Code of Conduct and Working Together Policy

RACP initiatives

- Curated Collections are learning resource guides based on the contributions and peer review of RACP Fellows and other experts.
- Pomegranate Podcasts (Pomcast) is a monthly medical podcast created by physicians, for physicians.
- Evolve is a physician-led initiative to ensure the highest quality patient care through the identification and reduction of low-value practices and interventions.

Useful contacts

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<th>Contact the College</th>
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| **Member Services Contact Centre**  
First point of contact for general enquiries. | **Australia**  
Email: racp@racp.edu.au  
Phone: 1300 MyRACP  
1300 69 7227  
**New Zealand**  
Email: racp@racp.org.nz  
Phone: 0508 MyRACP  
0508 69 7227 |

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<th>Other College contacts</th>
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| **Education Officers**  
Education Officers administer the training program and can respond to training-related enquiries. | Email: NuclearMedicine@racp.edu.au  
Phone: +61 2 8247 6279 |
| **Training Support**  
The Training Support Unit supports trainees and supervisors of trainees who are experiencing difficulties in their training. | **Australia**  
Email: trainingsupport@racp.edu.au  
Phone: +61 2 9256 5457  
**New Zealand**  
Email: trainingsupport@racp.org.nz  
Phone: +64 4 472 6713 |
| **Supervisor Support**  
The Supervisor Learning Support Unit provides and coordinates supervisor skills training. | Email: supervisor@racp.edu.au  
Phone: +61 2 8076 6300 |
| **College Trainees’ Committee**  
The College Trainees’ Committee (CTC) reports to the College Board and represents and advocates on behalf of trainees. | Email: traineescommittee@racp.edu.au |
| **New Zealand Trainees’ Committee** | Email: traineescommittee@racp.org.nz |
Other College contacts

The New Zealand Trainees’ Committee represents and advocates on behalf of trainees.

Other contacts

Specialty societies

Specialty societies are medical/scientific societies that bring together research and clinical scientists and physicians who are actively involved in a particular area of medical practice, e.g. cardiology, geriatric medicine. The specialty societies are independent organisations that contribute to physician education through their members’ involvement in College education committees and activities.

The Australasian Association of Nuclear Medicine Specialists

The Australasian Association of Nuclear Medicine Specialists is the peak professional body representing Nuclear Medicine physicians/paediatricians in Australia and New Zealand.