



ANZBMS

Australian and New Zealand Bone & Mineral Society
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Clinical Bone Densitometry Training Course

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Brentwood Hotel, Kilbirnie

Wellington



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Foreword

Bone densitometry has contributed markedly to the understanding and management of diseases of skeletal metabolism, particularly osteoporosis. From humble beginnings as a predominantly research-based tool in the 1970s, and driven by the introduction of dual-energy X-ray absorptiometry (DXA) in the late 1980s, bone densitometry is now an indispensable management tool for clinicians.

There are numerous bone densitometry techniques employing a variety of different techniques. DXA however remains currently overwhelmingly the technique applied in clinical practice. DXA technology has over the last decade been significantly improved in order to make patient scanning faster, cheaper, more precise and versatile.

The ability of DXA to achieve bone density measurements non-invasively and with precision of around one percent is a remarkable achievement. This is of particular importance when a patient is being monitored over many years.

This Australian & New Zealand Bone & Mineral Society (ANZBMS) Course Syllabus has been developed by experts in the field of bone densitometry; physicians, physicists, engineers; and in particular, practicing Bone Densitometry Technologists from both routine and research environments.

Some of these experts also teach the Course and provide ongoing mentoring.

The Course consists of two qualifications:

1. the **Certificate of Completion** which is considered suitable for licensing of a Technologist by most Australian States (see Course Structure below for details)
2. The more advanced qualification is **ANZBMS Accreditation**, requiring the additional submission of a Practicum

The ANZBMS Densitometry Course aims to train Technologists and Medical Specialists in all aspects of Densitometry - including safety, technical, scientific, statistical, QA, organisational - to World Best Practice standards. The Course is subject to constant revision, as the field of bone densitometry evolves.

We hope that you find this Course both instructive and enjoyable. We welcome your participation and feedback!

Nick Pocock **Roger Price** **Chris Schultz**
ANZBMS Clinical Densitometry Course convenors
January 2011

Course Entry Eligibility

The **ANZBMS Clinical Densitometry Course** is open to individuals that are:

1. Tertiary trained in a science discipline (including medical and nursing degrees)

or

2. Licensed by their Australian State or New Zealand regulatory authority. Licensing from other jurisdictions will be evaluated on a case by case basis.

or

3. Are seeking certification and licensing and do not meet the above criteria but have previous experience.

These individuals will be required to provide **certifiable** documentary evidence of their experience and supporting documentation from their practice supervisor (or equivalent). Entry will be granted at the discretion of the course convenors on a case by case basis based on the evidence.

Relevant knowledge of radiation safety and physics, human anatomy and experience with DXA scanning will be evaluated. Ideally, this should include a minimum 12 months fully supervised DXA scanning experience or 200 documented patient DXA procedures.

Course Structure (General)

- The students are provided with the Course Workbook approximately 4 weeks prior to the 2 days of lectures, and are required to have read through all the material over that four week period.
- All students must attend the two-day series of lectures covering the Course material. The lecture series includes a number of interactive sessions as well as workshops with hands-on experience, working with various DXA software packages.
- An examination will be conducted at an agreed date after at the completion of the lecture series, on-line remotely. It will be “open book”. The two hour examination consists of a series of multiple choice questions. Results obtained overall will be graded as either “pass” or “fail”. Unsuccessful students may take *one* repeat examination, at an additional cost.
- Completion of the above requirements, including achievement of a pass mark in the examination will lead to the award of a ***Certificate of Completion in Clinical Bone Densitometry***, endorsed by the ANZBMS. The Course will satisfy the requirements to be licensed as a Bone Densitometry Technologist in most Australian States, including the requirement to demonstrate knowledge of radiation safety.

South Australian Technologists requiring a DXA licence may optionally sit an on-line examination approved by the South Australian Environmental Protection Agency for licensing of DXA operators.

This examination is held immediately after the initial examination and requires an 80% pass mark *in addition* to passing the ANZBMS CDC examination.

ANZBMS Technologist Accreditation

ANZBMS Technologist Accreditation is an *enhanced qualification* for those Technologists who wish to distinguish their experience and skills from the base grade Certificate of Completion.

- To obtain **ANZBMS Accreditation** status as a Bone Densitometry Technologist (this is *not* a requirement for State licensing, and therefore routine practice) the candidate must obtain a position of employment within a suitable clinical bone densitometry unit, within one year of obtaining their Certificate of Completion.
- The candidate will then need to complete a *Workplace Practicum*. This requires the submission of a selection of DXA scans with good scanning technique, examples of abnormal situations (and solutions), and quality assurance methods in order to demonstrate an advanced clinical knowledge of bone densitometry. Full details are provided on the final day of the two-day lecture series and on the course CD.

Fees

The Schedule of fees for 2011 Courses is shown in the table below. **Early bird fees apply to all registrations received by 8th April 2011.**

Course Components	Fee (Includes GST)
Full Course Lectures, workshops, lunches & exam fee – includes Course CD & printed notes	Early bird - NZ\$690 Full rate – NZ\$790

All enquiries should be directed to the Course Convenors listed on the Cover Page, preferably by means of email.