A Review of Accreditation Requirements for Australian Health Profession Degrees

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Executive Summary

This paper was written as part of an Australian national project to encourage a coordinated interprofessional approach to curriculum renewal for ehealth capability in clinical health profession degrees.

The project's 2011 survey and 2012 workshop series about ehealth education for future Australian health professionals indicated that such education was not supported clearly by professional accreditation guidelines. Therefore accreditation documents from 21 Australian health profession accreditation bodies were analysed. The results of this analysis supported the earlier findings.

Most health professions do not require that future clinicians receive education specifically about ehealth during their entry-level degree studies. In some accreditation documents, some aspects of ehealth may be inferred from related concepts. In most health professions, there are as yet no curriculum standards or educational quality assurance processes to support the systematic development of ehealth capability. Speech pathology is a notable exception.

Method

Degree accreditation documents current in mid-2012 were sourced by web searching or by contacting the responsible organisation, for the following health professions:

> Ambulance Paramedics, Chinese Medicine, Chiropractic, Dietetics, Dentistry, Exercise and Sports Science, Medicine, Midwifery, Nursing, Occupational Therapy, Optometry, Osteopathy, Pharmacy, Physiotherapy, Podiatry, Psychology, Public Health, Radiography, Social Work, Sonography and Speech Pathology. (Audiologist and medical scientist degree accreditation documents were unavailable.)

For each document the table of contents and the sections pertaining to curriculum, teaching, assessment and learning were read word-by-word. As well Adobe Acrobat or Microsoft Word document search tools were used to find any occurrences in the entire document, of the following directly or indirectly relevant terms and truncations:

> communication, computer, data, database, e-health / ehealth, electronic / electr, evidence, evidence-based practice / evidence based practice, health record, information / info, information and communication technology / ICT, internet, online, record / reco, technology / tech.

A draft of the findings was circulated widely to health profession educators and their feedback was incorporated into this discussion paper.

Accreditation documents are listed in alphabetical order by the name of the responsible organisation.

For each accreditation document, ehealth related search terms are itemised alphabetically. If the relevant term appears, the direct quote, document section and page number are reported. If the use of the term is not in an ehealth context, this is summarised. If the term does not appear, this is noted.

Communication
The term communication is used in the document to mainly describe health practitioner and patient communication.'

Computer
"9. Seek out and utilise resources such as libraries, databases and computer resources to enable independent learning, especially in relation to improving theoretical understanding and clinical practice.", *3. Characteristics of graduates, 3.1. Knowledge, page 7.*

Data
Does not appear in document.

Database
Refer to search term 'computer'.

E-health / Ehealth
Does not appear in document.

Electronic
Does not appear in document

Evidence
Does not appear in document.

Evidence-based practice
"8. Critically evaluate relevant literature that will inform and modify current clinical practice and benefits future client/patient health-care management." *3. Characteristics of graduates, 3.1. Knowledge, page 7.*

Health Record
The term health record is mainly used in the document to state that patient information has to be recorded.

Information
The term information is used in document to describe information that has to be collected and recorded.

Information and Communication Technology
Does not appear in document.

Internet
Does not appear in document.

Online
Does not appear in document.

Record
The term record is used in the document to mainly state that patient information has to be recorded.

Technology
"Whether it be titled 'flexibly delivered education', 'distance education 'or 'correspondence 'at its most basic level distance education takes place where a teacher and students are separated by physical differences, and technology be it by voice, video, data or print are used to bridge the physical gap."
Appendix A.5, Record of dissenting views, page 56.

Communication
"Telecommunications and video conferences may be used to supplement site visits but will not entirely replace them. " *4.3, Learning for practice in field education, 4.3.3 Roles and responsibilities, b., Social work program responsibilities, point 7, page 15*

Computer
"Universities will liaise with host organizations so that the student has access to appropriate learning opportunities, and an educational environment that enables a student to meet the requirements for social work education. This includes arrangements for: adequate space and resources for the student as required, including use of desks, office space, computers, telephones and cars." *4.3, Learning for practice in field education, 4.3.3 Roles and responsibilities, b., Social work program responsibilities, point 13, page 15*

Data
The term data is mainly used in the context of data collection and analysis.

Database
Does not appear in document.

E-health / Ehealth
Does not appear in document.

Electronic
Does not appear in document.

Evidence
The term evidence is mainly used to describe the evidence that has to be provided to the accrediting body. It is also used in the context of knowledge on current evidence on protective and risk factors relating to a child's well being.

Evidence-based practice
"A beginning appreciation of how research and evaluation applies to social work practice with people with mental health problems, especially in relation to evidence-based practice and program evaluation." *Specific mental health curriculum content, B., Knowledge for social work practice, 3. relevant services, policy and legislation, point 3.5, page 54.*

Health Record
Does not appear in document.

Information
The term information is used in the context of information that needs to be provided to the accrediting body as well as information that needs to be collected and given to patients.

Information and Communication Technology
Does not appear in document.

Internet
Does not appear in document.

Online
"Where a social work program is offered via flexible delivery and/or off campus modes, students will be given a range of opportunities by which to engage in interaction with their peers and with experienced practitioners so that they can develop the appropriate knowledge, skills and practice standards for professional practice. These opportunities could include face-to-face interactions, use of on-line technologies, and other innovative strategies that replicate as closely as possible the range of practice contexts in contemporary society." *5.0, Structure of programs of social work education, 5.4, flexible delivery and off campus programs, page 19.*

Record
The term record is used in the context of maintaining accurate records.

Technology
Does not appear in document.

Communication
"The clinical skills of diagnosis, oral and written communication and counselling and the development of clinical judgment in deciding appropriate treatment and/or referral." *Section 2 - Standards for accreditation of osteopathic courses, The curriculum, Standard 9, The curriculum is designed to achieve the competencies expected of entry level graduates by the professional registration body (*). Emphasis is placed upon these competencies rather than defining a prescribed content however it would be expected that the course would include instruction in, page 19.*

Computer
"The ability to use computers for learning, literature searches and other applications in osteopathic practice". *Appendix 1: Model Course Objectives, Goals and objectives of an entry level osteopathic course, 2. Objectives relating to skills, Graduates completing basic osteopathic education should have the following skills, page 28.*

Data
Does not appear in document.

Database
Does not appear in document.

E-health / Ehealth
Does not appear in document.

Electronic
Does not appear in document.

Evidence
"The ability to arrive at an appropriate diagnosis based on the objective evaluation of all available evidence*". Appendix 1: Model Course Objectives, Goals and objectives of an entry level osteopathic course, 2. Objectives relating to skills, Graduates completing basic osteopathic education should have the following skills, page 28.*

Evidence-based practice
The term evidence-based practice is not used in the document but the following has been stated: "the ability to interpret relevant literature in a critical and scientific manner and apply these skills to ongoing learning and patient management"; "the ability to use the resources of an appropriate reference library to pursue independent inquiry relating to clinical problems". *Appendix 1: Model Course Objectives, Goals and objectives of an entry level osteopathic course, 2. Objectives relating to skills, Graduates completing basic osteopathic education should have the following skills, page 28.*

Health Record
Does not appear in document.

Information
"(k).the ability to communicate clearly, considerately and sensitively with patients, relatives, carers, professional colleagues, other health professionals and the general public. This should include the ability to counsel sensitively and effectively and to provide information in a manner which ensures patients and families/carers can be truly informed when consenting to any clinical procedure. It also includes the ability to write referral letters, progress reports and medico-legal reports that are clear, effective and in proper form." *Appendix 1: Model Course Objectives, Goals and objectives of an entry level osteopathic course, 2. Objectives relating to skills, page 28.*

Information and Communication Technology
Does not appear in document.

Internet
"A statement about how students are made aware of the philosophy and objectives of the course and how staff are reminded of them, including a list of the official publications, student guides and Internet sites in which it appears." *Section 2 - Standards for accreditation of osteopathic courses, the context within which the course is provided, Standard 3, The philosophy and objectives of the course are clearly stated and are consistent with those the ANZOC believe should guide and underpin a course intended to provide the necessary knowledge and skills for the safe and effective practice of osteopathy, page 16.*

Online
"Briefly describe any interactive and/or online learning, or distance learning opportunities. Provide some examples of these." *Section 2 - Standards for accreditation of osteopathic courses, The curriculum, Standard 10, Each subject/unit has specific learning objectives/outcomes and a detailed teaching plan that is made available to students at the commencement of each subject/unit, page 20.*

Record
"(a). the ability to gather and record an accurate, organised and problem-focused patient history, including psycho-social factors, using appropriate perspective, tact and judgement; (s). The ability to maintain patient records and other documentation according to legal requirements and accepted procedures and standards for comprehensiveness, legibility, accuracy and confidentiality." *Appendix 1: Model Course Objectives, Goals and objectives of an entry level osteopathic course, 2. Objectives relating to skills, page 28.*

Technology
"Provide information to show that students have adequate exposure to, and experience of new technology being used in healthcare settings in general, and in the osteopathic field in particular". *Section 2 - Standards for accreditation of osteopathic courses, Physical Resources, Standard 17, There is sufficient equipment for effective teaching and the equipment is well maintained, page 24.*

Communication
"Communication (verbal, non-verbal, written)." *C. Curriculum and assessment, accreditation standard: *Pre-clinical and Clinical Studies (clinical practice, clinical systems & procedures, patient safety and quality of health care) Other issues, page 14.*The term communication is used to describe communication skills and abilities in the podiatric curriculum.

Computer
"Facilities documentation and staff/student interviews and on-site evidence including library and computer facilities, lecture theatres, tutorial rooms, orthoses manufacture laboratories, clinical gait analysis laboratory, and radiographic activities, also noting areas for improvement." *D. Standards for Educational Resources, D2 Physical/Learning Resource and ICT facilities, accreditation standards: The school has sufficient Occupational Health & Safety-compliant physical/ICT/Learning Resource facilities for staff and students to meet program objectives and ensure competencies are developed, page 17.*

Data
The term data is mainly used to describe accreditation data review processes.

Database
The term database is used to mention that the accreditation document is readily available via an electronic database.

E-health / Ehealth
Does not appear in document.

Electronic
Refer to search term 'database'.

Evidence
"The teaching and learning activities are consistent with the mission/vision and appropriate for developing the competency standards and evidence-based practice, with a range of pedagogies utilised including didactic, technological, clinical and inquiry based approaches and developing student responsibility in the preparation for lifelong learning." *C Curriculum and assessment, C4 teaching and learning activities, accreditation standards, page 16.*

Evidence-based practice
"Curriculum mapping of research, evidence-based practice and inquiry-based learning across overall podiatry program from undergraduate to post-graduate levels." *C. Curriculum and assessment, C5 Research in the curriculum, accreditation standard, page 16.*

Health Record
Does not appear in document.

Information
The majority of the text contains the term information in the context of accreditation standards. For instance, with regard to the student standards, the term student information handbook occurs very often.

Information and Communication Technology
"Educational resources including buildings, clinical sites, library, Information & Communication Technologies facilities." *D. Educational Resources, page 17.*

Internet
Does not appear in document.

Online
Does not appear in document.

Record
"Curriculum mapping program handbook and detailed course outlines for: *Clinical systems & procedures: medical records/documentation, IT, stocking, storage, maintenance. " *C. Curriculum and assessment, standards for curriculum and assessment, Accreditation standard: *Pre-clinical and Clinical Studies (clinical practice, clinical systems & procedures, patient safety and quality of health care), page 14*

Technology
"Clinical experience- range of diagnostic and management presentations including access to relevant equipment and technology". *C. Curriculum and assessment, standards for curriculum and assessment, C3 Clinical experience, accreditation standard: *Appropriately-supervised clinical experiences progressively providing an increasingly wide range of patients in various internal clinic and external placement situations to develop their skills, professional dispositions and understandings such that they achieve course outcomes and develop the required competencies and safe practice, page 15.*

The Australian Dental Council & Dental Council of New Zealand have two endorsed documents that are to be used for accreditation purposes. The first document (henceforth referred to as Document 1) entitled 'ADC/DCNZ Accreditation standards: Education programs for dentists' is the main document that outlines the processed and standards. The second document (henceforth referred to as Document 2) is entitled 'Professional attributes and competencies of the newly qualified dentist'. It is stated within this document that it is anticipated that educational institutions will used this document to help in the self-assessment stage of the accreditation process.

Australian Dental Council & Dental Council of New Zealand Document 1

Communication
"Where possible, dental students should have an opportunity to interact with students in other health education programs to foster effective communication between disciplines." *Standard 13, Relationships with other allied dental and health education programs, page 16*

Computer
"Describe library and computer facilities." *Standard 5, Physical facilities and resources, Evidence requirements, page 9.*

Data
The term data is used when describing the accreditation process.

Database
Does not appear in document.

E-health / Ehealth
Does not appear in document.

Electronic
"The design, size and general state of buildings and classrooms, library, laboratories, clinics including outplacement clinics or placements, hospital and education provider/university facilities and their relevant equipment must allow the Dental School to achieve its clinical and educational objectives. Modern audio-visual and electronic material and methods of information retrieval must be available." *Standard 5, Physical facilities and resources, page 9.*

Evidence
The term evidence is used to indicate the type of evidence that the institution seeking accreditation needs to provide.

Evidence-based practice
Does not appear in document.

Health Record
Does not appear in document.

Information
The term information is used mostly with reference to the evidence that needs to be presented by the institution seeking accreditation.

Information and Communication Technology
Does not appear in document.

Internet
Does not appear in document.

Online
Does not appear in document.

Record
The term record is used in the document mainly in the context of maintaining accurate records.

Technology
Does not appear in document.

Australian Dental Council & Dental Council of New Zealand Document 2

Communication
Does not appear in document.

Computer
Does not appear in document.

Data
Does not appear in document.

Database
Does not appear in document.

E-health / Ehealth
Does not appear in document.

Electronic
Does not appear in document.

Evidence
Quote 1: "the process of assimilating and analysing information, encompassing an interesting finding new solutions, a professional curiosity with an ability to admit to and lack of understanding, a willingness to examine beliefs and assumptions and to search for evidence that supports the acceptance, rejection or suspension of those beliefs and assumptions, and the ability to distinguish between fact and opinion." *The first quote is from B. Terminology, critical thinking, page 6.*

 Quote 2: "on graduation a dentist should be able to: understand and apply knowledge of the scientific basis of dentistry, including the relevant biomedical and psychosocial sciences, the mechanisms of knowledge acquisition, scientific method and evaluation of evidence." *The second quote is from C. The competencies statements, 5. scientific and clinical knowledge, point 1, page 11.*

Evidence-based practice
Quote 1: "an approach to oral health care that requires judicious integration of systematic assessments of clinically relevant scientific evidence relating to the patient's oral and medical condition and history and oral health literacy, and integrated with the practitioner's clinical expertise and the patient's treatment needs and preferences." *The first quote is from B. Terminology, evidence-based dentistry, page 6.*

Quote 2: "practise evidence-based dentistry". *The second quote is from C. The competencies statements, 1. professionalism, point 4, page 8.*

Quote 3: "educate patients at all stages in their life, or patients' family, carers or guardians, about the aetiology and prevention of oral disease using effective and evidence-based education and communication strategies."*The third quote is from C. The competencies statements, 4. health promotion, point 9, page 11.*

Health Record
Does not appear in document.

Information
"Select treatment options based on the best available information and the least invasive therapy necessary to achieve the appropriate and favourable outcome for the patient." The term information is mainly used to describe the provision, collection of information from patients." *C. The competencies statements, 5. scientific and clinical knowledge, point 4, page 11.*

Information and Communication Technology
Does not appear in document.

Internet
Does not appear in document.

Online
Does not appear in document.

Record
The term record is used in the document to mainly describe the recording of information on the patient.

Technology
Quote 1: "use contemporary information technology for documentation, continuing education, communication, management of information and applications related to health care." **Quote 2:** "locate and evaluate evidence in a critical and scientific manner to support professional practice and use information technology appropriately as an essential resource for modern dental practice." *The first quote is from C. The competencies statement, 1. professionalism, point 10, page 8. The second quote is from C. The competencies statement, 3. critical thinking, point 5, page 8.*

Communication
"The curriculum develops knowledge and understanding of the humanities and behavioural science including models of behaviour and behavioural development, ethics, communication and patient care." *Accreditation review criteria, programme curriculum, page 8.*

Computer
Does not appear in document.

Data
Does not appear in document.

Database
Does not appear in document.

E-health / Ehealth
Does not appear in document.

Electronic
The term electronic is used in the context of electronic submission of documents.

Evidence
The term evidence is used to indicate the evidence that needs to be provided to accrediting body.

Evidence-based practice
Does not appear in document.

Health Record
Does not appear in document.

Information
The term information is used to describe the information that need to be provided to accrediting body.

Information and Communication Technology
Does not appear in document.

Internet
Does not appear in document.

Online
Does not appear in document.

Record
Does not appear in document.

Technology
Does not appear in document.

Communication
"Communication skills – to listen, reflect understanding, provide information and advice and give feedback – are of key importance in medical practice. Health care environments are complex communication environments, involving a wide range of health professionals and administrators, and patients who will have their own social, emotional and cultural communication needs. The beginning doctor must be able to negotiate these environments and communicate effectively." *3. The medical curriculum, 3.2, Curriculum structure, composition and duration, 3.2.6, behavioural and social sciences and medical law and ethics, notes, page 19.*

Computer
Quote 1: "In hospitals, students should have facilities for quiet study and for relaxation. If the hospital is geographically separate from the university campus, library and computer-based literature search facilities should be provided. Library facilities available to staff and students include access to computer-based reference systems, supportive staff and a reference collection adequate to meet curriculum and research needs." *First quote from 8 Implementing the curriculum - educational resources, 8.1 physical facilities, page 32*

Quote 2: "Many schools are developing, often in partnership with hospitals, sophisticated clinical skills laboratories in which students and hospital staff are able to develop basic and advanced clinical skills using a range of simulation techniques. Computer simulation of patient care scenarios is an exciting area, with educational potential. Indeed, the new technologies provide excellent possibilities for simulated clinical practice in low-risk environments, and medical schools should explore available information that might advise on the balance of simulated- and real-patient experience that could be utilised with effective outcomes".*. Second quote from same section, but 8.3 Clinical teaching resources, page 33.*

Data
Used in the context of research and the need to analyse data when conducting research.

Database
"Schools are encouraged to participate in long term outcome evaluation projects, such as the Medical Schools Outcomes Database project sponsored by the Committee of Deans of Australian Medical Schools." 6. *The curriculum - monitoring and evaluation, 6.2, outcome evaluation, notes, page 26.*

E-health / Ehealth
Does not appear in document.

Electronic
Does not appear in document.

Evidence
Refer to search term 'Evidence-based practice'.

Evidence-based practice
Quote 1: "The curriculum is based upon principles of scientific method and evidence-based practice, and inculcates analytical and critical thinking". *Curriculum structure, composition and duration, 3.2.2 scientific method, standard and notes page 13 - 14.*

Quote 2: "The curriculum should include instruction in the principles of evidence-based practice and should foster critical thinking and analytical problem-solving by students. There are a variety of ways in which these aims may be achieved, including clinical problem-solving tasks, problem-based

tutorials and exercises in evidence-based practice, as well as research projects and assignments". *Curriculum structure, composition and duration, 3.2.2 scientific method, standard and notes page 13 - 14.*

Health Record
Does not appear in document.

Information
Quote 1: "The ability to use information technology appropriately as an essential resource for modern medical practice." *The first quote is from Accreditation standards and their program of study, attributes of medical graduates, skills, number 25, page 3.*

Quote 2: "The rapid improvement in multimedia information technology has vastly expanded the potential for integrated learning throughout basic science and clinical medicine. Information technology has an accepted role in medical practice and there is evidence that routine use of information and communication technologies contributes to improved health care. Students must be ready to use technology and communication tools as they are used in practice and flexible enough to incorporate changing technology." *The second quote is from 4. The curriculum, 4.1, teaching and learning methods, accreditation standards, notes, page 21.*

Information and Communication Technology
Quote 1: "Information technology has an accepted role in medical practice and there is evidence that routine use of information and communication technologies contributes to improved health care. Students must be ready to use technology and communication tools as they are used in practice and flexible enough to incorporate changing technology". *The first quote is from 4. The curriculum - teaching and learning, 4.1 teaching and learning methods, notes for standard The teaching and learning methods are appropriate for the content and outcomes of the course, page 21.*

Quote 2: "The use of information and communication technologies is an increasingly important part of medical practice, and facilities need to be adequate to accommodate staff and student needs, and acquaint students to the information and communication technologies environments in which they will work." *The second quote is from 8 implementing the curriculum - educational resources, 8.2 information technology, page 32.*

Internet
Does not appear in document.

Online
Does not appear in document.

Record
Does not appear in document.

Technology
Quote 1: "Teaching hospitals are the venues where technology-intensive services requiring special expertise, equipment and staff are provided. Medical students benefit from access to patients and teachers within institutions administered through State governments. *The first quote is from 1. The context of the medical school, 1.6,interaction with health sector, notes, page 7.*

"**Quote 2:** "The school has sufficient information technology resources and expertise for the staff and student population to ensure the curriculum can be delivered adequately." *The second quote from 8, implementing the curriculum - educational resources, 8.2, information technology, standards, page 32.*

There is no professional accreditation for the Master of Public Health degree, but there is a document that contains the competencies that must be met by graduates.

Communication
Communication is used often to describe communicating of surveillance findings, developing communication strategies and plans, communication approaches, and communicating with the public, with emphasis placed on effective communication with Indigenous Australians.

Computer
Does not appear in document

Data
Quote 1: "Demographic information/data sources." *The first quote is from area of practice: monitoring and surveillance, practice goal: assess, analyse and communicate population health information, underpinning knowledge – monitoring and surveillance, page 9.*

Quote 2: "Epidemiological measures/data sources." *The second quote is from area of practice: monitoring and surveillance, practice goal: assess, analyse and communicate population health information, underpinning knowledge – monitoring and surveillance, page 9.*

Quote 3: "Environmental standards and use of data warehouse." *The third quote is from area of practice: health protection, practice goal: promote, develop and support physical interventions which ensure a safe and healthy environment, underpinning knowledge – health protection, page 13.*

Quote 4: "15.3 Analyse population health activities (collection, management, dissemination and use of data and information) with regard to the public health code of ethics." *The fourth quote is from area of practice: evidence-based professional population health practice, practice goal: engage professionally across population health with generic knowledge and skills of systematic research, ethical practice, teamwork, stakeholder analysis, health communication and cultural safety, Unit of competency number 15, page 18.*

Database
Does not appear in document.

E-health / Ehealth
Does not appear in document.

Electronic
Does not appear in document.

Evidence
Please refer to search term evidence-based practice.

Evidence-based practice
Quote 1: "Evidence-based data collection." *The first quote is from area of practice: monitoring and surveillance, practice goal: assess, analyse and communicate population health information, underpinning knowledge – monitoring and surveillance, page 9.This quote also appears under underpinning knowledge – disease prevention and control, page 11.*

Quote 2: "9.2 Critically appraise potential evidence-based health promotion initiatives to address effectively a health problem within a specific population/community." *The second quote is from area of practice: health promotion, practice goal: promote population and community health by both*

changing social, economic, cultural and physical environments through consultation, engagement and empowerment, and strengthening the skills and understanding of individuals to achieve and maintain their health, unit of competency number 9, page 14.

Quote 3: "14.2 Assess peer-reviewed and evidence-based information (including systematic reviews) relevant to study in population health." *The third quote is from area of practice: evidence-based professional population health practice, practice goal: engage professionally across population health with generic knowledge and skills of systematic research, ethical practice, teamwork, stakeholder analysis, health communication and cultural safety, unit of competency number 14, page 18.*

Quote 4: "Location of peer-reviewed evidence based information (including Cochrane, Campbell etc)". *The fourth quote is from area of practice: evidence-based professional population health practice, practice goal: engage professionally across population health with generic knowledge and skills of systematic research, ethical practice, teamwork, stakeholder analysis, health communication and cultural safety, underpinning knowledge- for public practitioners, page 19.*

Quote 5: "Translate broad policy into evidence-based strategies". *The fifth quote is from Appendix 1: Australia public health training context, public health workforce training in Australia, the new prevention goals, page 22.*

Health Record
Does not appear in document.

Information
Information is used often to describe the collection, analysis and evaluation of health information on a particular population or community.

Information and Communication Technology
"Social marketing theory, new communication technologies as applied to health promotion communication and learning theories." *Area of practice: health promotion, practice goal: promote population and community health by both changing social, economic, cultural and physical environments through consultation, engagement and empowerment, and strengthening the skills and understanding of individuals to achieve and maintain their health, underpinning knowledge – health promotion, page 15.*

Internet
Does not appear in document

Online
Does not appear in document

Record
Does not appear in document

Technology
Please refer to search term Information and Communication Technology.

The Australian Nursing and Midwifery Council has 4 separate documents outlining the accreditation process for registered nurses, enrolled nurses, nurse practitioners and midwives. Registered nurses and midwives are considered entry level professions and these documents were analysed separately below.

Accreditation of Midwifery Degrees

Communication
Refer to search term 'information'

Computer
Does not appear in document. .

Data
The term data is used once in the main document to discuss the need for future clinicians to collect or implement research data. The term is otherwise used in the reference section of the document.

Database
used in reference list

E-health / Ehealth
Does not appear in document.

Electronic
Does not appear in document.

Evidence
See Evidence-based practice.

Evidence-based practice
Quote 1: "The course provider is required to demonstrate that: 5)   evidence-based approaches are applied to theory and practice." *The first quote is from Domain 2: Curriculum, Standard 5: Curriculum Content, page 14, 15).*

 Quote 2: "Identification of content focused on or related to evidence-based practice across the course (M)[Mandatory]. Benchmarking against selected examples of national and international best practice. Examples of research and evidence-led curriculum." The *second quote is from Domain 2: Curriculum, Standard 5: Curriculum Content, page 15.*

Quote 3: "The course provider is required to demonstrate that midwifery academics: 3) encourage and support midwifery students to develop skills in midwifery inquiry, which includes evidence-based practice." *The third quote from Standard 9: Research, Criteria, page 22.*

Quote 4: "The International Confederation of Midwives has made a statement on the role of the midwife in research which recommends that 'midwifery education include the theory and practical application of research so that midwives are able to appraise, interpret and critically apply valid research findings'.... The literature reviewed for this project highlights that research and evidence-based practice is a recurring theme in international education standards." The *fourth quote from Discussion, Standard 9, page 37.*

Quote 5: "The N3ET conducted a study in 2006—Priorities for Nursing and Midwifery Research.... found that pre- and post-registration educational programs that reflect and harness the value of

research (e.g., where research and evidence-based practice are integrated and/or embedded into the program) are important in fostering the skills and positive attitudes to research needed by nurses and midwives." *The fifth quote from Discussion, Standard 9, page 37.*

Health Record
Does not appear in document.

Information
"A partnership can be considered 'good' where communication and information-sharing systems between the education and health sectors are established, where there is a shared vision of professional experience, where respect is demonstrated across the two sectors, and where approaches to care incorporate the community." *Discussion, Standard 1, page 23.*

Information and Communication Technology
Does not appear in document.

Internet
Does not appear in document.

Online
The term online is used to mainly describe the provision of online courses.

Record
Does not appear in document.

Technology
"Course handbook or equivalent with details of mode(s) of delivery of courses, including professional experience requirements and information technology requirements (M)[Mandatory]." *Standard 3: students, evidence guide, criterion, page 12.*

Accreditation of Registered Nursing Degree

Communication
The term communication is used in the document to mainly describe communication and interpersonal/interprofessional skills of the practitioner.

Computer
Does not appear in document.

Data
Does not appear in document.

Database
Does not appear in document.

E-health / Ehealth
Does not appear in document.

Electronic
Does not appear in document.

Evidence
The term evidence is used to refer to evidence that has to be presented by institution seeking accreditation.

Evidence-based practice
"The importance of research and evidence-based practice is central to nursing and is supported by statements by professional bodies in Australia and internationally. The Royal College of Nursing, Australia (RCNA) and the ANF have made a joint position statement on the importance of nursing research.30 The ICN has a position statement on nursing research which supports efforts to improve access to 'education which prepares nurses to conduct research, critically evaluate research outcomes, and promote appropriate application of research findings to nursing practice." *Discussion, Standard 9, page 27.*

Health Record
Does not appear in document.

Information
Quote 1: "The criterion that technology, including IT and information management to support health care, is integral to the curriculum reflects the contemporary demands and opportunities of nursing and healthcare delivery. This is supported by a project conducted by the Australian Nursing Federation (ANF): Nurses and Information Technology Final Report (2007) which speaks of the need for national competency standards in IT and information management for nurses and a national competency program in pre-registration and pre-enrolment nursing courses based on such standards. A subsequent ANF project that aims to establish a set of IT competency standards for nurses is in progress. The criterion captures the concept of instruction in the use of technology in the service of healthcare delivery as well as in communication and information management in relation to healthcare. It encompasses the idea of nursing and healthcare informatics. The ICN, following the National Council of State Boards of Nursing, defines 'informatics' as 'information technology that can be used to communicate, manage knowledge, mitigate error, and support decision making'". *The first quote is from Discussion, Standard 5, pages 24-25.*

Quote 2: "6) List of content focused on/related to health/nursing informatics across the course." *The second quote is from Standard 5: Curriculum content, page 13.*

Information and Communication Technology
Refer to search term 'information'.

Internet
Does not appear in document.

Online
The term online is used in the document to mainly refer to online courses.

Record
Does not appear in document.

Technology
"8) Course handbook or equivalent with details of mode(s) of delivery of courses, including professional experience requirements and information technology (IT) requirements (M)[Mandatory]." *Standard three: Students, evidence guide, criterion, page 11. 5) technology, including information technology and information management, to support health care is integral to the course, Standard Five: Course Content, page 13.*

Communication
"Must have access to remedial support particularly with regards to learning and communication difficulties or technology illiteracy etc." *standard 7: The students, page 9*

Computer
Quote 1: "A pharmacy program must be supported by sufficient human resources, accommodation, library, computer systems, laboratory equipment and other infrastructure to ensure effective delivery". *The first quote is from Standard 3: resources and facilities, page 5.*

Quote 2: "The curriculum should: provide teaching and learning that is varied which may include some or all of the following: lectures, practical classes, tutorials, clinical placements, computer-assisted learning, self-directed learning, interactive small-group teaching, problem based learning, contemporary tools such as the use of 'virtual patients' and distance learning technology." *The second quote is from Standard 5: The curriculum, page 7.*

Data
"Contingency plans should be developed and documented that would cover deficiencies in infrastructure, IT and/or personnel (eg. disaster recovery plans – damage, infection control, data loss, power outages etc)." *Standard 3: resources and facilities, page 6*

Database
Does not appear in document.

E-health / Ehealth
Does not appear in document.

Electronic
Does not appear in document.

Evidence
The term evidence is used in the context of information to be provided by the institution seeking accreditation.

Evidence-based practice
Does not appear in document.

Health Record
Does not appear in document.

Information
Quote 1: "For pharmacy graduates to be able to practice effectively, efficiently and confidently they need to know about, understand and have some of the skills to operate within health care systems, alongside and together with other health professionals and other scientists: Use of information technology in pharmacy and more widely in health care.". *The first quote is from Appendix 1: Indicative Curriculum, Health care systems and the roles of professionals, page 14.*

Quote 2: "information literacy: an understanding of information literacy and specific skills in acquiring, organizing and presenting information, including computer-based activity." *The second quote is from Standard 8, the graduates, 8.1, p.10.*

Quote 3: "research: the ability to conduct research by recognising when information is needed and locating, retrieving, evaluating and using it effectively". *The third quote is from Standard 8, the graduates, 8.1, p.10.*

Quote 4: "Ability to apply in a clear and correct manner generic skills in communication, critical thinking, information literacy and research to pharmaceutical, clinical and laboratory information." *The fourth quote is from Standard 8, the graduates, 8.2, page 11.*

Information and Communication Technology
Does not appear in document.

Internet
Does not appear in document.

Online
Does not appear in document.

Record
Does not appear in document.

Technology
Quote 1: "Use of information technology in pharmacy and more widely in health care". *The first quote is from Appendix 1: Indicative curriculum, healthcare systems and the roles of professionals, p. 14.*

Quote 2: "The school should ensure that IT infrastructure and library resources are sufficient to meet teaching and learning and research objectives". *The second quote is from Standard 3: resources and facilities, page 6.*

Quote 3: "The school should have sufficient staffing resources to support faculty operations and academics (administration assistants, lab techs, IT and library staff etc)". *The third quote is from Standard 3: resources and facilities, page 5.*

Quote 4: "Schools that plan to develop distance education based curriculum components need to demonstrate that they are adequately resourced and funded and that students are motivated, committed and competent in the use of distance learning tools and technology." *The fourth quote is from Standard 5, the curriculum, page 8.*

Communication
Please see evidence-based practice.

Computer
Refer to search term 'data'.

Data
"Interactive computer based questioning and computer based clinical problem solving can also be used to evaluate
integration of knowledge and decision making abilities. This method of assessment may include:
– patient or skill simulation using technology
– on-line quizzes
– multimedia for clinical reasoning scenarios
– use of electronic data recording systems
– on-line discussion groups
– web casts
– development of web-based materials." *2.1, Assessment principles, 2.2.2 technology based assessment, page 73.*

Database
Does not appear in document.

E-health / Ehealth
Does not appear in document.

Electronic
This will include: understanding basic concepts of clinical informatics, including electronic health records, electronic image storage and retrieval and decision support". *Element 2: Apply contemporary forms of information management to relevant areas of practice, page 31.*

Evidence
"The assessment of generic skills, such as communication skills, use of technology and evidence-based practice, can be acquired through activity based experiences." *2.1, Assessment principles, 2.2.6 workplace observation, page 74.*

Evidence-based practice
Quote 1: "This will include:
– the application of principles and practices of evidence-based practice
– an understanding of research methodologies used to inform physiotherapy practice
– basic research skills including
• critical reading and understanding research reports
• critical appraisal of literature
• identifying aspects of physiotherapy practice where convincing evidence is lacking
• accessing and deriving information from relevant health statistics
• data interpretation
• rational, critical, logical, conceptual and independent thinking." *The first quote is from Standard 3, access, interpret and apply information to continuously improve practice, Examples of evidence standard 3, Element 3: Apply an evidence-based approach to own practice, page 33.*

Quote 2: "Evidence-based practice is the integration of individual clinical expertise with the best available external clinical evidence and client values. The best available external evidence is not

restricted to randomised controlled trials and meta-analyses (Australian Physiotherapy Association, 2005).Activities that support and promote evidence-based practice include:
– engaging in discussion of issues relevant to evidence-based practice
– critically evaluating practice that has insufficient supporting evidence
– participating in and undertaking research
– collecting and recording client data
– cooperating with others who are undertaking clinical research programs
– volunteering assistance to others in their research endeavours
– quality improvement activities." *The second quote is from Glossary, page 79.*

Health Record
Refer to search term 'electronic'.

Information
Quote 1: "3.3.2 Information from a range of sources is critically evaluated for the impact on own work." *The first quote is from Standard 3, access, interpret and apply information to continuously improve practice, 3.3 Apply an evidence-based approach to own practice; 3.3.2, page 32.*

Quote 2: "3.4.1 Knowledge and information needs are identified". The rest of the quotes where the term information is used refer to information to be collected from the patient and its accuracy. *The second quote is from the same standard, that is standard 3, 3.4 Acquire and apply new knowledge to continuously improve own practice, 3.4.1, page 32.*

Information and Communication Technology
Refer to search term 'record'.

Internet
Does not appear in document.

Online
Refer to search term 'data'.

Record
Relevant information and communication technology is used efficiently to record, store, convey and retrieve client information". *3.2 Apply contemporary forms of information management to relevant areas of practice, 3.2.1, page 30.*

Technology
Refer to search term 'electronic'.

Communication

"The capacity to convey, appraise and interpret information in both oral and written formats and to interact on a professional level with a wide range of client groups and other professionals , including: the ability to establish and maintain constructive working relationships and in clinical settings therapeutic alliances with clients; the ability to communicate, interact and liaise for a range of purposes (e.g., discussing research with other professionals; discussing relevant psychological services with clients, potential clients); the ability to develop knowledge of theories and empirical data on professional relationships high level oral communication and interpersonal skills in communicating effectively with clients, other psychologists, other professionals, the community; individuals, small groups and agencies from varied cultural, ethnic, religious, social and political backgrounds; excellent written communication, including the ability to write, in an organised fashion, reports and other documents excellent written communication, including the ability to write, in an organised fashion, reports and other documents." *Section 5, Postgraduate professional courses, 5.1.12, core capabilities and attributes, 5.1.12(f) communication and interpersonal relationships, page 52.*

Computer

"All students in each course should have access to computers with a range of software for word-processing and data analysis and presentation, as well as access to the Internet." *Section 5, Postgraduate professional courses, Resources, 5.1.8, page 49.*

Data

"The Psychology AOU must provide access for staff and students to a range of software including packages for statistical analysis, spreadsheets, data presentation and word processing." *Section 2, General accreditation standards, 2.5, Resources, 2.5.7, page 39.*

Database

Quote 1: "The Psychology AOU must have access to a computer network which has full electronic mail facilities and is linked to the Internet and on-line databases." *The first quote is from Section 2, General accreditation standards, 2.5, Resources, 2.5.8, page 39.*

Quote 2: "The Institutional library or libraries must provide ready access to a comprehensive and up-to-date range of psychology texts, monographs, journals and databases." The *second quote is from same section, that is section 2, 2.5, Resources but point 2.5.11.*

Quote 3: "The Institutional library should have substantial holdings of, or electronic access to, journals, monographs and relevant peer-reviewed international journal databases in each area of course specialisation offered by the AOU". *The third quote is from Section 5, Postgraduate professional courses, Resources, 5.1.7, page 49.*

Quote 4: "The Psychology AOU must have access to a computer network which has full electronic mail facilities and is linked to the Internet and on-line databases." *The fourth quote is from Section 2, General accreditation standards, 2.5, Resources, 2.5.8, page 39.*

E-health / Ehealth

Does not appear in document.

Electronic

Quote 1: "All units should provide the opportunity for formative assessment aimed primarily at facilitating learning as distinct from contributing to the final assessment e.g., electronic quizzes, comments on essays and peer assessment, and marked according to the same criteria and

standards as those applying to on-campus assessments." *The first quote is from Section 2, General accreditation standards, 2.6, teaching materials and methods: managing the learning process, 2.6.10, page 39.*

Quote 2: "The Institutional library should have substantial holdings of, or electronic access to, journals, monographs and relevant peer-reviewed international journal databases in each area of course specialisation offered by the AOU." *The second quote from Section 5, Postgraduate Professional Courses, Resources, 5.1.7, page 49.*

Quote 3: "....While casework with clients by means of other electronic media or use of simulation is permissible, face-to-face casework must never be less than 66% of the total casework undertaken as part of the course. There must be at least three different practical placements in different settings, with at least two of these being external to the AOU offering the course." *The third quote from 5.3, Fifth and sixth year masters courses of professional education, practical placements, 5.3.19, page 59.*

Quote 4: "Supervision of all placements must involve one hour of direct contact for each full day of placement (7.5 hrs). Direct contact supervision may include telephone, video conference or other electronic forms of real-time interaction, as long as the total percentage of supervision conducted by such electronic means across all casework units is never greater than 40% for any given student." *The fourth quote from same section, that is 5.3, but is point 5.3.25, page 59.*

Evidence
Quote 1: "Knowledge of the theoretical and empirical bases underpinning evidence-based approaches to psychological intervention". *The first quote is from Section 4, Undergraduate 4th year and four year courses, course content, 4.1.4 (second bullet point), page 45.*

Quote 2: "The content of the lectures, tutorials and laboratories in the course must be supported by relevant and up-to-date evidence-based scientific reference material. This material should include peer-reviewed empirical articles in the best international scientific journals, preferably at all year levels and certainly at all levels beyond first year." *The second quote from Section 3, undergraduate 3-year sequence courses, 3.1 three year courses, course content, 3.1.9, page 42.*

Quote 3: "Fourth year topics must include education in the theoretical and empirical bases underpinning the construction, implementation, and interpretation of some of the more widely used cognitive and personality assessments, and evidence-based approaches to psychological intervention". "All work in these professional courses should adhere to the scientist-practitioner model and always direct students to the relevant scientific empirical evidence base for each and every aspect of the course." *The third quote is from Section 4, undergraduate 4th year and four year courses, 4.1, fourth year courses, page 43.*

Evidence-based practice
Refer to search term 'evidence'.

Health Record
Does not appear in document.

Information
The term information is mainly used in the document to outline the accreditation process.

Information and Communication Technology
Does not appear in document.

Internet

"The Psychology AOU must have access to a computer network which has full electronic mail facilities and is linked to the Internet and on-line databases." *Section 2, general accreditation standards, 2.5, resources, 2.5.8, page 39.*

Online

"The Psychology AOU must have access to lecture theatres, tutorial rooms and computer facilities that meet all of its teaching requirements. Specifically: Lecture rooms must be equipped with appropriate audiovisual facilities. Some rooms used for professional skills training must have video recording facilities. Units taught by distance or in mixed mode must be supported by an online learning management system". *Section 2, general accreditation standards, 2.5, resources, 2.5.2, page 39.*

Record

"Administrative and record keeping procedures (including adequate clarification of any financial arrangements);   record keeping, including demonstrated knowledge of the ethical and legal implications of administrative and record keeping procedures including confidentiality" *Section 5, Postgraduate Professional Courses, core capabilities and attributes, 5.1.12 (b), ethical, legal and professional matters, page 51.*

Technology

"Practical placements must provide students with experience and skill development in a range of settings. Placements must include casework which involves face-to-face work with clients (individuals, groups or organisations as appropriate to the course). Face-to face work is defined as real time verbal communication in the presence of client(s) in the room with the trainee or interacting with the trainee by means of videoconference technology where there is a real time image of the each of the parties, including a clear view of facial expressions". *5.3, Fifth and sixth year masters courses of professional education, practical placements, 5.3.19, page 58*

Communication
The term communication is used one to describe teaching and learning approaches that promote communication.

Computer
Does not appear in document.

Data
Does not appear in document.

Database
Does not appear in document.

E-health / Ehealth
Does not appear in document.

Electronic
The term electronic is used to describe the availability of online accreditation documents.

Evidence
The term evidence is used to describe information that needs to be presented to the accrediting body.

Evidence-based practice
Quote 1: "The course provider demonstrates that contemporary, relevant and varied approaches to teaching and learning underpin the course and that the teaching and learning approaches provide Australian and international evidence based best practice perspectives on sonography." *The first quote from The Standards, standard five: teaching and learning, page 14.*

Quote 2: Locate, analyse and synthesise information to support evidence based practice. *The second quote is from Appendix, Appendix 1: Required graduate competency outcomes for general sonography and discipline specific sonography courses, general sonography course, page 18.*

Quote 3:   "An appropriate use of evidence based simulated learning in relevant areas of the curricula." *The third quote is from The Standards, standard five: teaching and learning, 5.10, page 14.*

Health Record
Does not appear in document.

Information
Refer to search term 'information'.

Information and Communication Technology
Does not appear in document.

Internet
Does not appear in document.

Online
Does not appear in document.

Record
"Learning in the clinical environment is supervised in order to ensure that acceptable standards of patient care are maintained including accurate and complete record keeping is undertaken." *Standard five: teaching and learning, criteria, 5.7, page 14.*

Technology
"That technology, including information technology and information management, to support patient management is integral to the course." *Standard three: Course Content, criteria, point 3.4, page 12.*

Communication

the term communication is used to describe communication strategies, open and timely communication and communication and information exchange.

Computer

Does not appear in document.

Data

the term data is used in the document to mainly describe evaluation data and basic data about the paramedic program.

Database

"Library facilities available to staff and students should include access to electronic databases, supportive staff and a reference collection adequate to meet curriculum and research needs." *3.4, curriculum implementation, 3.4.7, educational resources, standards, page 24.*

E-health / Ehealth

Does not appear in document.

Electronic

Refer to search term 'database'.

Evidence

Refer to search term 'evidence-based practice'.

Evidence-based practice

Quote 1: "The interaction between research and teaching influences teaching and learning and prepares students to engage in paramedic research and evidence-based practice." *The first quote is from 3.1, the context of entry-level paramedic education programs, 3.1.7, teaching-research nexus, notes, page 13.*

Quote 2: "The curriculum must be structured to include classroom, clinical experiences as well as an understanding of research methodology, that are carefully sequenced and integrated to ensure effective learning at the appropriate point on the paramedic pathway. The curriculum would include but not limited to: .... evidence-based practice...." *The second quote is from 3.3, the paramedic curriculum, 3.3.2, curriculum structure, page 18.*

Health Record

Does not appear in document.

Information

The term information is mainly used to describe the information to report to the accrediting body.

Information and Communication Technology

Does not appear in document.

Internet

Refer to search term 'online'.

Online

"Physical facilities required for program delivery include auditoriums, tutorial rooms, laboratories, laboratory equipment, clinical skills laboratories, libraries, ICT facilities and Internet access, multimedia equipment. Facilities for student study and recreation should also be provided." *3.4, curriculum implementation, 3.4.7, educational resources, notes, page 24.*

Record

Does not appear in document.

Technology

"The key drivers of change include operating environment/demography; new technologies and healthcare; empowered consumers and resources and capability." *1. the guidelines, 1.1, background, page 5.*

Communication
Refer to search term 'Information and Communication Technology'.

Computer
Quote 1: "Notes: Access to computer-based reference systems must also be provided". *The first quote is from 3. Educational resources, 3.6 Learning resources centre, page 11.*

Quote 2: "The evolution of curricula in health sciences in recent years has resulted in innovative teaching strategies and greater emphasis on small group and self-directed learning. Thus, complete dissection of the human body is no longer considered essential and may be replaced by study of prepared specimens and computer-based learning modules, which integrate structure and function. Similarly, some practical classes may be better replaced with interactive computer-based simulations for individual students. The rapid improvement in multimedia information technology has vastly expanded the potential for integrated learning throughout the basic and clinical sciences. Increasingly, computer-assisted learning may be an integral part of the chiropractic curriculum." *The second quote is from 4.2 Curriculum models and instructional methods, page 14*

Data
The term data is used in the document to mainly describe administrative requirements.

Database
Does not appear in document.

E-health / Ehealth
Does not appear in document.

Electronic
Does not appear in document.

Evidence
"The principles of scientific method and evidence based health care, including analytical and critical thinking must be taught throughout the curriculum." *4.4 Program content, 4.4.2, basic sciences, page 15.*

Evidence-based practice
"The use of information and communication technology may be part of education for evidence based health care and in preparing the students for continuing education and professional development." *3.7, Information Technology, Notes, page 12.*

Health Record
Does not appear in document.

Information
Refer to search term 'information and communication technology'.

Information and Communication Technology
Quote 1: "Each institution must have a policy which addresses the evaluation and effective use of information and communication technology in the educational program." *3.7, Information Technology, Basic standard, page 12.*

Quote 2: "Quality Development; Teachers and students should be enabled to use information and communication technology for self-learning, accessing information, managing patients and working in health care systems". *3.7, Information Technology, Basic standard, page 12.*

Quote 3: "A policy regarding the use of computers, internal and external networks and other means of information and communication technology would include coordination with the library services of the institution." *3.7, Information Technology, Basic standard, page 12.*

Internet
Does not appear in document.

Online
Does not appear in document.

Record
"An ongoing review of a representative sample of patients and patient records to assess the appropriateness, necessity and quality of the care provided". G*overnance, structure, administration, 3.9, patient services, page 12*

Technology
Quote 1: "The rapid improvement in multimedia information technology has vastly expanded the potential for integrated learning throughout the basic and clinical sciences". *The first quote is from 4.2 Curriculum models and instructional methods, page 14.*

Quote 2: "Notes: Determination of institutional/unit policy includes the design, management and evaluation of the curriculum, and other matters relevant to students such as library acquisitions, information technology support, matters relating to the clinical facilities, etc." *The second quote is from 2. Students, 2.4 Student representation, notes, page 10.*

Quote 3: "Notes: Physical facilities include lecture halls, tutorial rooms, laboratories, learning resource centres, information technology facilities, clinical facilities, recreational facilities etc. *The third quote is from 3. educational resources, 3.3 physical facilities, notes, page 10.*

Communication
The term communication is used in the document to mainly describe communication between the doctor and the patient.

Computer
Does not appear in document.

Data
the term data is used to describe the collection and analysis of data relating to the individuals nutrition, demographics etc.

Database
"Library facilities available to staff and students. Key nutrition texts, e-journals and databases must be available under the following knowledge areas: − human nutrition, − food habits and behaviour, − food science, − food service, − communication, − nutrition education, − organisation and management, − public health/health promotion." *Section 3, requirements for dietetic programs seeking accreditation, 3.8, university facilities and resources, page 15.*

E-health / Ehealth
Does not appear in document.

Electronic
The term electronic is used to describe the availability of the accreditation report in electronic format.

Evidence
The term evidence is mainly used to describe the types of evidence that needs to be presented to the accrediting body.

Evidence-based practice
Quote 1: "Evidence-based practice: − Published evidence based practice guidelines related to nutrition, dietetics, medicine and health, including those available in national and international agencies". The first quote is from *Section 5, Guidelines for curriculum development - core fields of study, 5.1, unit 1: underlying knowledge, content area: theory of nutrition and dietetics, page 29.*

Quote 2: "Elements: 1.11 Conducts or uses nutrition research methodology, research principles and evidence based practice including qualitative and quantitative research methods
Knowledge 〉 Research ethics and principles for conducting clinical trials
〉 Knowledge of quantitative and qualitative research methods
〉 Principles of research design, including data management and statistical analysis
〉 Principles of evidence based practice, including critical appraisal of the literature
〉 Principles of epidemiology and sampling methodology". The second quote is from *Section 5, Guidelines for curriculum development - core fields of study, 5.1, unit 1: underlying knowledge, content area: Research and evidence based practice, page 32.*

Quote 3: "DAA strives towards best practice and evidence-based education for students. *The third quote is from Section 1, DAA's role in dietetic education, page 3.*

Quote 4: Fundamental skills are taught within an evidence-based paradigm to ensure all graduates meet and maintain core competency standards in all areas of dietetics, nutrition communication and advocacy, management and research, which can then be expanded with continuing professional

education and work experience." *The fourth quote is from Section 1 (same as second quote), 1.3, DAA's philosophy of continuous quality improvement, page 5.*

Health Record
Does not appear in document.

Information
The term information is used mainly to describe the information required by the accrediting body.

Information and Communication Technology
Does not appear in document.

Internet
Does not appear in document.

Online
The term online is used to mainly describe the availability of the accrediting body's resources online

Record
The term record is used in the document to mainly describe the recording of patient information (does not specify whether this is written or electronically done).

Technology
Quote 1: "IT facilities that provide access to terminals and dietary analysis, statistics and word processing software." *Section 3, requirements for dietetic programs seeking accreditation, 3.8, university facilities and resources, page 15.*

Quote 2: "Where universities offer offshore placements, the following requirements apply:
1. The placement sites must provide an environment equivalent to Australian sites, in consideration of the following issues:
− case mix – sites should reflect in general the typical case mix found in the Australian health setting
− technology – sites should provide access to technologies found commonly in the Australian health setting
− protocols of medical and dietetic practice – sites should reflect protocols in the Australian health care
system, including the multidisciplinary approach, evidenced-based practice and clarity of role of the allied health practitioner and, where relevant, community/public health nutrition practice." The second quote is from *Section 3, requirements for dietetic programs seeking accreditation, 3.6, clinical placement program, 3.6.11 Offshore placements, page 14.*

Communication
The term communication is used in the document to mainly describe communication skills between the health practitioner and patient.

Computer
"AS2.21 Please detail the computer facilities available to support the research and teaching needs of students, beyond those required for formal laboratory and tutorial sessions. AS2.23 Do staff and students have access to computer networks for emailing and internet purposes?" *Application 2: General Criteria, A2.3.3, Computers and software, page 34.*

Data
The term data is mainly used in the following ways: kinematic data, clinical data, data analysis and data collection.

Database
"AS2.27 Please list the information databases available to both staff and students." *Application 2: General Criteria, A2.4.3, Exercise and sports science information databases and additional resources, page 38.*

E-health / Ehealth
Does not appear in document.

Electronic
"(b) Communication (verbal, written, electronic) using brief and concise language, and in appropriate syntax (subjective, objective, assessment, plan — SOAP, lay, medical) for other AEPs, medical practitioners, other health professionals, compensable authorities/agents (eg insurers), and clients". *Application Section 4: Exercise physiology criteria, 4.2.18, communication, application, page 75.*

Evidence
The term evidence is mainly used to describe the supporting documents that needs to be provided to the accrediting body.

Evidence-based practice
Quote 1: "(b) Understanding of evidence-based practice models of clinical decision making." *The first quote is from Application Section 4: Exercise physiology criteria, 4.2.19, evidence-based practice, knowledge, page 75.*

Quote 2: "• Other related activities as outlined in the AEP evidence-based criteria." *The second quote is from A 5.2: Information for EP accreditation only, page 90.*

Quote 3: "– Research to prepare for a client service; e.g. research of evidence-based practice for the particular case." *The third quote is from A 5.2: Information for EP accreditation only, 2. Preparation for exercise service delivery, observation and other clinical activities related to the scope of practice (≤ 35%):, page 92.*

Health Record
Does not appear in document.

Information
The term information is used in the document to mainly describe the information required by the accrediting body during the accreditation process.

Information and Communication Technology
Does not appear in document.

Internet
Refer to search term 'computer'.

Online
The term online is used to mainly describe the online availability of accrediting body documents.

Record
the term record is used in the document to mainly describe record keeping (not specified as to whether this is one electronically or by written format).

Technology
Quote 1: "For example, a regionally located academic unit may have developed innovative solutions using information technology to address limitations in appropriately qualified supervisors for the practicum program." The *first quote is from 2.2, specific considerations, 2.2.1 consideration of special circumstances, page 18.*

Quote 2: "The academic unit must be able to demonstrate that it has the necessary level of support staff (administrative, technical and information technology) to ensure the opportunity for excellence in the training of exercise and sports science students." *The second quote is from A2.2, Support Staff, page 31.*

Quote 3: "Does the academic unit believe that access to administrative, technical and information technology support staff is sufficient? If no, please explain." *The third quote is from A 2.2, Support Staff, A2.2.1, Details of support staff involved in the course, AS 2.13 Support staff details, page 32.*

Communication

"Whilst dissemination and communication of information is critical, principles of confidentiality and privacy must always be upheld." *Unit 5: Occupational therapy professional communication, page 40.*

Also used to describe appropriate communication between doctors and patients.

Computer

Does not appear in document.

Data

Refer to search term 'database'.

Database

"5.2.6 All client information is secured and maintained according to workplace and legal requirements of privacy and confidentiality. Cues: Workplace database is password-protected." *Unit 5: Occupational therapy professional communication, 5.2, adopts a communication approach appropriate to the working environment, 5.2.6, page 43*

E-health / Ehealth

Does not appear in document.

Electronic

"Communication may take a range of forms, including verbal, written, non-verbal and electronic means." *Unit 5: Occupational therapy professional communication, page 46.*

Evidence

"In their everyday work, competent professionals will recall and apply facts and skills, evaluate evidence, create explanations from available facts, formulate and test hypotheses, and synthesise information from a rich and highly organised knowledge base." *Accreditation and registration process, professional competence, page 4.*

Evidence-based practice

Quote 1: "Many approaches can be taken to performing evaluation activities, and occupational therapists must be able to undertake and understand such activities, and occupational therapists must be able to undertake and understand such activities as part of evidence-based practice and quality improvement". *The first quote is from Unit 4: Occupational therapy service evaluation, page 36.*

Quote 2: ".... Occupational therapists should seek to utilise opportunities to disseminate professional information which is evidence-based and reflects the importance of occupation, the occupational therapy process and occupational therapy services." The *second quote is from Occupational therapy professional communication, page 40.*

Health Record

Does not appear in document.

Information

The term information is used in the document to mainly describe the information to provide and collect from patients.

Information and Communication Technology

"Information and Communication Technology (ICT) and other electronic communication tools (e.g., mobile phones, internet, social networking sites, paging systems) are used responsibly in accordance with privacy and confidentiality, and workplace and legislative requirements, to support occupational therapy practice." *Unit 5: Occupational therapy professional communication, element 5.2, adopts a communication approach appropriate to the working environment, page 42.*

Internet

"7.1.7 Resources within the workplace are used efficiently, safely, appropriately and responsibly to support practice. In accordance with the expectations of the practice setting, occupational therapists assume responsibility for development, management and maintenance of resources within financial constraints. Cues: Content downloaded from Internet relates directly to work tasks and responsibilities." *Element 7.1: Adopts and efficient, effective and systematic approach to daily workload management, p.48*

Online

"Information that supports evidence-based practice and enhances the occupational therapy profession is disseminated. Cues: Online interest groups are accessed and engaged with...." *Unit 5: Occupational therapy professional communication, element 5.4, page 43*

Record

"All client information is secured and maintained according to workplace and legal requirements of privacy and confidentiality. Cues: Client records are stored to ensure restricted access." *Unit 5: Occupational therapy professional communication, element 5.2, adopts a communication approach appropriate to the working environment, page 42.*

Technology

"Australian occupational therapy practice is dynamic and continues to evolve in response to changes in national priorities and legislation, population demographics, health and information technology, and work environments". *Scope of Occupational Therapy Practice, page 2.*

The accreditation document for optometry contains a journal article within which competency standards are outlined. The reference to this article is : Kiely, P.M., (2009), Optometrists Association Australia Universal (entry-level) and Therapeutic Competency Standards for Optometry 2008, Clinical and Experimental Optometry, 92:4, 362-386.

Communication
The term communication is used to describe doctor-patient communication skills.

Computer
Quote 1: "Problem-based learning, computer assisted learning and other student-centred learning strategies are encouraged. Some of these strategies include: essays / extended responses, problem sheets / case studies / computer aided activities...." *The first quote is from Guideline 5, Teaching and learning methods, interpretation, a. Requirements for varied and innovative teaching methods, page 28.*

Quote 2: "Where the school is unable to provide a sufficient number of student/patient contacts, it must be able to demonstrate that effective clinical teaching is provided during those encounters and that the clinical experience is extensively supplemented by: .... computer aided case exercises". *The second quote is from guideline 6, clinical training and setting, interpretation, b. Requirements when clinical exposure is limited, page 26.*

Quote 3: "review the different methods of teaching used (lectures, practical classes, clinical experience, assignments, computer aided instruction etc). *The third quote is from guideline 6 (same guideline as above), site visit/focus of assessment team, page 33.*

Quote 4: "Library staff and access to computer-based reference systems and the Internet should also be available to help students and staff." *The fourth quote is from guideline 10, physical resources, interpretation, c. library.*

Quote 5: "Description of: ....computer facilities, including Internet and email access, any computer-based reference systems and learning packages." *The fifth quote is from the same guideline (guideline 10), evidence for a. facilities, optometry library and information systems, page 47.*

Quote 6: "Ability to assess the suitability of aids such as closed circuit television, computer software for low vision, mobility aids, independent living aids, telescopes." *The sixth quote is from the journal paper, Unit 5: patient management, element 5.4, performance criteria 5.4.1, suggested indicator number 2, page 381.*

Quote 7: "Recognition of the need to use appropriate firewall, virus protection and back-up systems to safeguard computer records." *The seventh quote is from the journal paper, unit 6: recording of clinical data, element 6.1, performance criteria 6.1.2, suggested indicator number 3, page 386.*

Data
The term data is used to describe analysis of data and recording of clinical data in the journal paper.

Database
"Ability to research information about demography and epidemiology through suitable methods such as database analysis, questionnaires and other means." *This quote is from the journal paper, Unit 1: Professional responsibilities, element 1.11, performance criteria 1.11.1, suggested indicator number 2, page 370.*

E-health / Ehealth
Does not appear in document.

Electronic
Quote 1: "Ability to access material such as recent publications, journal articles, library materials (including textbooks and electronic media, seminar and conference proceedings, internet and computer materials, online databases)". *The first quote is from Unit 1: Professional responsibilities, Element 1.1, performance criteria 1.1.1, suggested indicator number 2, page 366.*

Quote 2: "Understanding that information should be provided to the patient in a manner suitable to the abilities of the patient, e.g. written/oral instructions/information; CDs or electronic records of ocular photographs". *The second quote is from the same unit, element 1.4, performance criteria 1.4.1, suggested indicator number 2, page 367.*

Quote 3: "Understanding of the need to create a separate, distinct record for each patient either in paper form or electronically". *The third quote is from Unit 6: Recording of clinical data, element 6.1, performance criteria 6.1.1, suggested indicator number 1, page 385.*

Quote 4: "Recognition of the need to provide an electronic method to show corrections and modifications to electronic records." *The fourth quote is from unit 6, element 6.1, performance criteria 6.1.3, number 2, page 386.*

Quote 5: "Understanding of privacy and security requirements when patient information is communicated to others through electronic transfer, facsimile transmission or via telephone communication." *The fifth quote is from the same unit, performance criteria 6.2.4, suggested indicator number 1, page 386.*

Evidence
"The ability to interpret biomedical evidence in a critical and scientific manner, and to use libraries and other information resources to pursue independent inquiry relating to optometric problems. " *Appendix 1, Objectives of basic optometric education, objectives relating to skills, point 11, page 51.* N.B.

The term evidence is mainly used to indicate the evidence that needs to be submitted to the accrediting body.

Evidence-based practice
Does not appear in document.

Health Record
"Understanding of the legal requirements related to confidentiality and privacy and health records." *Unit 6: Recording of clinical data, element 6.2, suggested indicator number 4, page 386 (journal paper).*

Information
The term information is used in the document to mainly outline the information that needs to be provided to the accrediting body. Also used to describe information that needs to be communicated to the patient, collected from the patient and stored.

Information and Communication Technology
Does not appear in document.

Internet
"Copy of school/university policies relating to Internet and email access. Statement on the proportion of students who have Internet and email access through the school or the university." *Guideline 10: Physical resources, evidence for a. facilities, optometry library and information systems, page 47.*

Online
Refer to search term 'electronic'.

Record
The term record is used to describe patient records and the need to adhere to privacy and security legislation, collect the patients personal history which is then held on record. *The majority of the information containing the term record is in Unit 6 of the journal paper.*

Technology
Quote 1: "The school should demonstrate that it has mechanisms that recognise and initiate responses to emerging issues, especially those that cross disciplinary boundaries. Topics of emerging interest may include those arising from recent or imminent legislation changing the scope of practice of optometry or changes in methods of practice arising from new knowledge or technology." *The first quote if from Guideline 3, Course development and management, interpretation, b. Emergent topics requiring special emphasis, page 20.*

Quote 2: "Developments in clinical theory, optometric techniques and technology are critically appraised and evaluated for their efficacy and relevance to clinical practice." *The second quote from Unit 1: Professional responsibilities, Element 1.1., performance criteria 1.1.2.*

Communication
The term communication is used extensively in the document as speech pathologists take care of people with communication problems or swallowing issues. If used in another context, it will appear under information and communication technology.

Computer
Does not appear in document.

Data
The term data is used in the document to mainly indicate 'assessment data'.

Database
Quote 1: "client information databases are maintained." *The first quote is from Unit 5: Planning, providing and managing speech pathology services, element 5.2, Use and maintain an efficient information management system, cues for this element, page 29.*

Quote 2:"accessing through library the electronic databases relevant to speech pathology work practices." *The second quote is from Unit 5: Planning, providing and managing speech pathology services, element 5.6, adhere to professionally accepted scientific principle in work practices, cues for this element, page 32.*

E-health / Ehealth
Quote 1: "With the advent of new technologies, entry-level speech pathologists will have competencies with, for example, video conferencing, social networking platforms, and tele-health applications". *The first quote is from defining 'speech pathology practice', clinical services, page 3.*

Quote 2: "updating skills with the latest technology (e.g. tele-health applications)." *The second quote is from Unit 7: Lifelong learning and reflective practice, element 7.2, participate in professional development and continually reflect on practice, cues for this element, page 37.*

Electronic
Quote 1: "electronic alternative and/or augmentative communication." *The first quote is from Unit 1: assessment, element 1.2, Identify the communication and/or swallowing conditions requiring investigation and use the best available scientific and clinical evidence to determine the most suitable assessment procedures in partnership with the client, cues for this element, page 13.*

Quote 2: Show ability to comply with workplace requirements for electronic record keeping, data collection and video conferencing. Demonstrate a capacity to use or learn other relevant programs as required. Information management system education must be provided by the employer in a timely manner to ensure ethical delivery of services. The *second quote is from Element 5: planning, providing and managing speech pathology services, Element 5.2, use and maintain an efficient information management system, point 3.*

Quote 3: training is provided for electronic information management systems. *The third quote from Element 5.2 (same as second quote), cues for this element, page 30.*

Evidence
Quote 1: "best available evidence from the current literature." *The first quote appears in two different places: - Element 3.1, cues for this element, a rationale for decisions made with reference to, point 3, page 20 - Element 3.4, cues for this element, methods for measuring outcomes, point 2, page 22. As well as Element 4.2, cues for this element, a rationale for decisions made with reference to, point 3,*

page 25. - Element 4.3, cues for this element, evaluation of intervention that considers, point 1, page 26.

Quote 2: the best available evidence from the current literature and research (for further information refer speechBITE™). *The second quote is from element 3.5, performance criteria, point 3, page 22.*

Quote 3: best available evidence from the current literature and research. *The third quote is from Unit 4: Implementation of speech pathology practice, point 1, page 24.*

Quote 4: Be able to justify decisions made about the speech pathology intervention program with reference to the client's case history and background and critical appraisal of the evidence in current literature and research. . *The fourth quote is from element 4.2, performance criteria, point 8, page 25.*

Quote 5: critical appraisal of individual client's progress with evidence from the research literature. *The fifth quote is from Element 4.3, cues for this element, evaluation of intervention that considers, point 2, page 26.*

Quote 6: best available evidence from the current research literature. *The sixth quote is from element 5.3, cues for this element, rationale for choice of delivery model makes reference to, page 30.*

Quote 7: Critically evaluate evidence from literature and research using knowledge of research methods and statistics. *The seventh quote is from Element 5.6, performance criteria, point 2, page 32.*

Quote 8: Know current research trends, concepts and theories in speech pathology practice as reported in the literature. Understand the extent and limitations of the evidence base. Actively seek information and analyse new research for implications for practice. *The eighth quote is from element 7.2, performance criteria, point 1, page 37.*

Evidence-based practice
Quote 1: "Speech Pathology Australia's position is that evidence-based practice is the combination of clinical expertise, research evidence and resources and contextually appropriate decision making in order to make informed choices and decisions about clinical best practice. When a clinician engages in evidence-based practice, they approach their clinical practice from the perspective of a researcher. They critically analyse their practice and formulate focused and structured questions or hypotheses about the likely outcomes of their planned management. speechBITE™ sponsored by Speech Pathology Australia, is one of a number of evidence-based practice resources available to speech pathologists. Where appropriate reference to speechBITE™ is made in this document, however, this is not to the exclusion of other resources (e.g. The Cochrane Library) or the integration of systematic research with clinical expertise." T*he first quote is from Defining 'evidence-based practice', page 4.,*

Quote 2: "Identify the communication and/or swallowing conditions requiring investigation and use the best available scientific and clinical evidence to determine the most suitable assessment procedures in partnership with the client." *The second quote is from competency-based occupational standards: entry level, 2011, unit 1: assessment, element 1.2, page 10.*

Quote 3: "3.1 Use integrated and interpreted information (outlined in Unit 2) relevant to the communication and/or swallowing condition, and/or the service provider's policies and priorities to plan evidence-based speech pathology practice. 3.2 Seek additional information required to plan evidence-based speech pathology practice. 3.5 Select an evidence-based speech pathology approach or intervention in collaboration with the client and significant others". *The third quote is from the same section as the first quote, but unit 3: planning evidence-based speech pathology practices, elements 3.1, 3.2, 3.5, page 10.*

Quote 4: "4.2 Implement an evidence-based speech pathology intervention according to the information obtained from speech pathology assessment, interpretation and planning (see Units 1, 2, and 3)". *The fourth quote is from the same section as the first 3 quotes, but from unit 4: implementation of speech pathology practice, element 4.2, page 10.*

Quote 5: "Integrate information obtained from assessment using knowledge, clinical reasoning (COMPASS®), decision-making and evidence-based practice to develop an interpretation of the data". *The fifth quote is from unit 1: assessment, element 1.1, investigate and document the client's communication and/or swallowing condition and explore the primary concerns of the client, point 8, page 11.*

Quote 6: "The interpretation and analysis of clients' communication and/or swallowing condition must demonstrate current clinical reasoning approaches (refer to COMPASS®) and relevant evidence-based analysis." *The sixth quote is from unit 2: analysis and interpretation, page 16.*

Quote 7: "Analyse assessment data and collate, record and interpret results in the light of normative or test guidelines or using other evidence-based procedures."Quote 6: Be able to justify the choice of assessment procedures and tools with reference to: • best available evidence available from current literature and research...". *The seventh quote is from unit 2: analysis and interpretation, element 2.1, analyse and interpret speech pathology assessment data, performance criteria, point 1, page 16.*

Quote 8: "In particular, the speech pathologist's clinical reasoning abilities and use of evidence-based practices are critical to competence in Unit 3 – the planning of speech pathology practice. Speech pathology practice is always informed by the best available evidence (refer to speechBITE™). Evidence-based speech pathology practice is designed to include the components of the International Classification of Functioning, Disability and Health...." *The eighth quote is from unit 3: planning evidence-based speech pathology practices, page 19.*

Quote 9: Consider a variety of evidence-based speech pathology approaches using clinical and theoretical knowledge to decide on the most suitable intervention. *The ninth quote is from Element 3.5, select and evidence-based speech pathology approach or intervention in collaboration with the client and significant others, performance criteria, point 1, page 22.*

Quote 10: "....Evidence-based speech pathology programs may involve one-to-one intervention, group intervention, classroom based intervention, training others, consultation and/or education, depending on each unique set of clinical circumstances." *The tenth quote is from Element 4.2, implement an evidence-based speech pathology intervention according to the information obtained from speech pathology assessment, interpretation and planning (see units 1,2,3), point 1, page 25.*

Quote 11: "Show an appreciation of the different workplace contexts in the choice of the most appropriate and evidence-based speech pathology intervention. " *The eleventh quote is from Element 4.5, identify the scope and nature of speech pathology practice in a range of community and work place contexts, performance criteria, point 3, page 27.*

Quote 12: Integrate current information about client needs (as obtained in accordance with Units 1, 2, 3 and 4)the speech pathology service, and evidence-based practice (refer to Evidence-Based Practice in Speech Pathology Position Statement) with the knowledge of the objectives and context of the speech pathology service. *The twelfth quote is from element 5.3, manage own provision of speech pathology services and workload, performance criteria, point 1, page 30.*

Quote 13: "using available evidence-based practice resources to determine efficacy of work practices (e.g. speechBITE™ or The Cochrane Library)". *The thirteenth quote is from element 5.6, adhere to professionally accepted scientific principles in work practices, cues for this element, knowledge of scientific principles, point 1, page 32.*

Health Record
Does not appear in document.

Information
The term information is used widely in the document to describe the collection of information, interpretation of the information and analysis of the information.

Information and Communication Technology
"Design projects or programs taking into account a variety of strategies, media, information and communication technologies and materials, and the requirements of the target population. (In such projects or programs the 'client' is often the general public and/or professional groups)." *Element 4.6, Undertake preventative, educational and/or promotional projects or programs on speech pathology and other related topics as part of a team with other professionals, performance criteria, page 28*

Internet
"Relevant policies and procedures: policies on internet use." *Unit 5: Planning, providing and managing speech pathology services, element 5.1, respond to service provider's policies, cues for this element, page 31*

Online
Does not appear in document.

Record
Quote 1: procedures for dealing with medical and/or educational records. *The first quote is from Unit 5: Planning, providing and managing speech pathology services, element 5.1, respond to service provider's policies, cues for this element, page 31.*

Quote 2: Maintain efficient systems of records, consistent with organisational requirements, for the purposes of service delivery, planning, accountability, monitoring client status and ensuring a high quality of service. *The second quote is from Element 5.2, use and maintain an efficient information management system, point 1.*

Quote 3: digital recordings-audio & visual. *The third quote is from Unit 1: Assessment, element 1.2, identify the communication and/or swallowing conditions requiring investigation and use the best available scientific and clinical evidence to determine the most suitable assessment procedures in partnership with the client, cues for this element, page 13.* NB: the term record is also used to describe the recording of information accurately.

Technology
"Assistive technology." *Range of practice for the entry-level speech pathologist, Range of practice, 6. multi-modal communication, examples (include but not limited to), page 9.*

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