

**NATIONAL IMMUNISATION
EDUCATION FRAMEWORK
FOR HEALTH
PROFESSIONALS**

P R E F A C E

The *National Immunisation Education Framework for Health Professionals* (the National Framework) updates the *National Guidelines for Immunisation Education for Registered Nurses and Midwives* (the National Guidelines) endorsed by the National Immunisation Committee in 2000.

The National Framework responds to the contemporary environment for immunisation education programs, which is influenced by innovative workforce arrangements, good practice in learning and teaching, new service and program delivery models, and improved health literacy.

The availability of a diverse network of appropriately trained immunisation providers is necessary to ensure equitable access to quality immunisation services.

ACKNOWLEDGEMENTS

This document was written in collaboration with members of the Immunisation Provider Competency Working Group, a sub-committee of the National Immunisation Committee. Membership of the Working Group during the development of this document included representatives of Commonwealth, state and territory health authorities, and health professional associations.

Members of the Immunisation Provider Competency Working Group

Ms Luda Molchanoff (Chair), Department for Health, South Australia

Dr Pauline Glover (Deputy Chair), Australian College of Midwives

Ms Brigid Dohnt, Immunisation Policy Section, Commonwealth Department of Health

Ms Carolyn Banks, ACT Health

Ms Karen Booth, Australian Primary Health Care Nurses Association

Ms Karen Cook, Workforce Innovation and Reform Section, Commonwealth Department of Health

Ms Simone Duncombe, Department of Health and Human Services, Tasmania

Ms Janice Finlayson, Maternal Child and Family Health Nurses Australia

Ms Palee Kaur, Western Australia Health

Ms Sonya Nicholl, New South Wales Health

Ms Chris Nagy, Northern Territory Department of Health

Ms Helen Pitcher, Department of Health and Human Services, Victoria

Ms Maureen Watson, Department of Health, South Australia

Secretariat

Ms Krissa O'Neil and Ms Judith Witheridge

Immunisation Policy Section

Commonwealth Department of Health

The members of the National Immunisation Committee were also consulted throughout the development of this document.

Members of the National Immunisation Committee

Dr Masha Somi
Chair and Assistant Secretary Immunisation Branch, Department of Health

Dr Vicky Sheppard
Deputy Chair, Communicable Disease Network Australia Nominee, NSW Health

Ms Carolyn Banks
Manager, Communicable Diseases Control Business and Immunisation Health Protection Service,
Australian Capital Territory Health

Ms Karen Booth
President of the Board, Australian Primary Health Care Nurses Association (APNA)

Ms Sue Campbell-Lloyd
Manager, Immunisation Unit, NSW Health

Dr Jane Cook
Assistant Secretary, Medicines Regulation Division, Pharmacovigilance and Special Access Branch,
Therapeutic Goods Administration

Dr Rosalie Schultz
Member, Royal Australian College of General Practitioners (RACGP)

Ms Simone Duncombe
Manager, Communicable Diseases Prevention Unit, Department of Health and Human Services,
Tasmania

Professor Paul Effler
Medical Coordinator, Prevention and Control Program, Communicable Disease Control Directorate,
Department of Health, Western Australia

Ms Janice Finlayson
Queensland State Representative, Maternal Child and Family Health Nurses Australia (MCaFHNA)

Dr Pauline Glover
Member, Australian College of Midwives (ACM)

Mr Ian Hawkins
Member, Australian Local Government Association (ALGA)

Mr Brendon Kelaher
National Indigenous Immunisation Coordinator, National Centre for Immunisation Research and
Surveillance (NCIRS)

Ms Alison Marcus
Member, Consumers Health Forum of Australia

Professor Peter McIntyre
Director, National Centre for Immunisation Research and Surveillance (NCIRS)

Dr Dennis Pashen
Member, Rural Doctors Association of Australia (RDAA)

Mr Stephen Pellissier
Manager, Immunisation Public Health Branch, Department of Health and Human Services Victoria

Ms Karen Peterson
Manager, Queensland Health Immunisation Program, Communicable Diseases Unit, Chief Health Officer Branch, Queensland Health

Ms Maureen Watson
Nursing Director, Immunisation Section, Communicable Disease Control Branch, Department of Health, South Australia

Dr Rosalind Webby
Head of Immunisation, Centre for Disease Control, Department of Health, Northern Territory

Dr Anne Wilson
Member, Australian Medical Association (AMA)

ABBREVIATIONS

AEFI	Adverse Events Following Immunisation
CPD	Continuing Professional Development
IPCWG	Immunisation Provider Competency Working Group
NIC	National Immunisation Committee
NIP	National Immunisation Program

C O N T E N T S

PREFACE	II
ACKNOWLEDGEMENTS	III
ABBREVIATIONS	VI
PART I	
BACKGROUND	2
INTRODUCTION TO THE USE OF THE NATIONAL FRAMEWORK	5
PART II	
1	
<i>THE GLOBAL AND AUSTRALIAN CONTEXT FOR IMMUNISATION</i>	<i>8</i>
1.1 Public health and immunisation	8
1.2 National Immunisation Program and the National Immunisation Program Schedule	9
2	
<i>THE IMMUNE SYSTEM AND IMMUNISATION</i>	<i>10</i>
2.1 The immunological principles of vaccination	10
2.2 Vaccine preventable diseases and epidemiology	11
2.3 Vaccine types and components	12
3	
<i>THE LAW, ETHICS AND IMMUNISATION</i>	<i>13</i>
3.1 Legal and ethical considerations for immunisation practice	13
4	
<i>IMMUNISATION PRACTICE</i>	<i>14</i>
4.1 Information resources and communicating risk	14
4.2 The management of storage, handling and transport of vaccines	15
4.3 Vaccine safety	16
4.4 Vaccine administration	17
4.5 Documentation and reporting	18
4.6 Strategies for improving immunisation coverage rates	19
A	
<i>REFERENCES</i>	<i>20</i>

PART I
BACKGROUND AND
INTRODUCTION

I

BACKGROUND

Immunisation continues to be a cost-effective national public health priority in Australia, and an appropriately, skilled and educated health workforce is important in achieving higher immunisation coverage rates and contributing to successful implementation of the *National Immunisation Strategy 2013-2018* (the 'Strategy').

The National Framework has its origins in the *National Guidelines for Immunisation Education for Registered Nurses and Midwives 2000* (the 'National Guidelines'). The National Guidelines, endorsed by the National Immunisation Committee (NIC), were developed for course assessors, educators and training organisations to promote consistency across states and territories among staff involved in the implementation and application of immunisation procedures. While the National Guidelines informed the development of standardised curriculum for registered nurses and midwives, they were also utilised to supplement the education and training of other health professionals involved in immunisation, such as pharmacists and Aboriginal and Torres Strait Islander health workers / practitioners.

Redevelopment of the National Guidelines

A range of health professionals play an important role towards maintaining high immunisation coverage rates and maintaining public confidence in immunisation programs through the provision of accurate and comprehensive information about vaccines and immunisation programs.

The *National Immunisation Strategy 2013 – 2018* recognises an adequately skilled and educated immunisation workforce as a priority, and the availability of a diverse network of providers as necessary to ensure equitable access to services. This document supports the Strategy by providing a core education framework for developing nationally consistent immunisation education programs.

The NIC established the Immunisation Provider Competency Working Group (IPCWG) with the primary purpose of reviewing the National Guidelines and to assist with the development of new National Guidelines. The IPCWG considered the current immunisation workforce in states and territories, the regulatory framework for immunisation providers in jurisdictions, good practice in immunisation education programs nationally and internationally and a review of the training needs of Aboriginal and Torres Strait Islander health workers / practitioners.

To meet the objective, a literature review and key stakeholder consultations informed the development of a series of papers.

1. Literature review

The literature review considered the best practice in immunisation education including theoretical and clinical assessment nationally and internationally. The review also considered an international model of Indigenous health care that contributed to increased immunisation coverage rates in their respective communities. The learnings from the review supported the need for national guidelines, a consideration for an increase in the number of immunisation providers and the need to improve national consistency in immunisation education provision.

2. Regulatory framework

Review of the regulatory framework in Australia highlighted that while responsibilities for the delivery of health services and the Immunise Australia Program are shared between the Commonwealth and states and territories, legislation governing the use of drugs and poisons, and hence administration of vaccines, is the domain of states and territories. Medical practitioners by virtue of their qualifications are legislated to prescribe and administer vaccines and this does not vary across states and territories. Categories of health professionals who are not medical practitioners and their authorisation

to administer vaccines independent of a medical order currently vary across states and territories as do the circumstances in which categories of health professionals can administer vaccines.

It was also noted that it is the responsibility of immunisation education providers to ensure that their courses meet requirements set out in state and territory legislation and other policy documents (such as the National Guidelines), and, in some cases, to apply for approval for their courses as meeting these requirements.

3. Education programs

There are currently nine immunisation education programs recognised by one or more states and territories as an approved level of training to lead to independent immunisation if all other legislative conditions are met. All programs are available to registered nurses, a smaller number specify entry for registered midwives, two offer entry to enrolled nurses and registered Aboriginal and Torres Strait Islander health workers / practitioners, and one specifies other health practitioners including pharmacists.

Implications

The background research undertaken to inform the redevelopment of the National Guidelines supported an approach that:

- Provided clear direction about the core areas of knowledge and skills to enable operation as an independent immunisation provider; and
- Recognised the role for a range of non-medical health professionals, in addition to medical practitioners, to be involved in the administration of vaccines and the continuing interest by new categories of health professionals not traditionally engaged in this area.

The research also identified opportunities to address portability of training and its implications for a quality and sufficient workforce. Refer to Appendix A for the documents which contributed to the development of the *National Immunisation Education Framework for Health Professionals* (the National Framework).

The National Framework for Immunisation Education for Health Professionals

The National Framework replaces the 2000 National Guidelines for Immunisation Education for Registered Nurses and Midwives.

The National Framework is a set of minimum curriculum content requirements and must be used as a resource by those involved in immunisation program management and education to assist with the planning and implementation of immunisation education strategies for eligible health professionals at undergraduate or post-graduate level, or through in-service modes of education.

For education programs to be nationally recognised they must also meet a set of nationally agreed program standards that relate to the curriculum design, assessment, program management, resourcing and evaluation. A template for the assessment of these standards is currently being developed and will support the process for mutual recognition of qualifications across states and territories.

Structural supports promoting national consistency

Consistent with nationally agreed standards for practice for immunisation education, a range of supports have been nationally agreed that reflect the contemporary needs of a mobile workforce and the national approach to the regulation of health practitioners. In addition, the roles and responsibilities of states and territories are acknowledged and the opportunity for national mechanisms to support a consistent approach has been agreed. These supports include:

Minimum course content

To enable national recognition, providers of immunisation education courses must articulate the learning outcomes for immunisation providers as outlined in the National Framework.

Education provider standards

Education providers delivering immunisation courses leading to independent practice as an immunisation provider are required to be either an accredited higher education provider or affiliated with an accredited higher education provider or to be a Registered Training Organisation.

Successful course completion

Learning outcomes are incorporated into every course but it is not the sole responsibility of education providers to offer clinical practice.

The inclusion of clinical assessment into education courses will reflect the student cohort requirements as necessary. Recognising a number of registered health professionals obtain the necessary clinical technical skills as part of undergraduate education programs, students of immunisation programs will need to be individually assessed to determine the need for relevant education in clinical technical skills. For example, in relation to individual practitioner needs, an education provider may deem it necessary for successful completion of a clinical assessment prior to issuing the individual with a certificate. In recognition that some professions do not include the requisite clinical skills as part of undergraduate education, some immunisation education programs will require the inclusion of a clinical skills assessment component in their training, for example, pharmacists.

Maintaining authorisation

The health professional is responsible for achieving and maintaining their authorisation.

Authorisation/Endorsement of health professionals to administer vaccines

Traditionally, medical practitioners have been the only health professionals legislated to possess and administer vaccines. Most states and territories now legislate specific health professional groups to administer vaccines. Authorisation to practice and the conditions relating to authorisation is provided through state and territory governance arrangements. The conditions relating to authorisation may vary between jurisdictions. These conditions may relate to:

- Qualification, for example, registered nurse, enrolled nurse, Aboriginal and Torres Strait Islander health workers / practitioner, pharmacist, registered midwife;
- Administration to specific age groups;
- Administration of specific vaccines; and
- Evidence of clinical competence and/or annual updates.

To support a range of modalities of delivery of education programs and in recognition that some health professionals may already have recognised technical qualifications for administering vaccines, clinical assessment is not a mandatory requirement under the National Framework. In line with the above statements (successful course completion), if a health professional has not previously been assessed as competent in the technical aspects used in vaccine administration a clinical assessment should be included as part of their education.

Immunisation providers seeking authorisation to immunise independent of a medical order, should refer to the Department of Health in the jurisdiction they wish to practice, for information on conditions to authorisation other than the successful completion of a recognised education program.

INTRODUCTION TO THE USE OF THE NATIONAL FRAMEWORK

Aim

The National Framework is provided to assist in the development of nationally consistent immunisation education programs. The National Framework sets an agreed benchmark for immunisation education programs to meet in order to be considered as a nationally recognised program, and support transferability of qualifications across states and territories. Through a nationally agreed set of core standards, the National Framework aims to ensure the provision of high quality immunisation education programs for health professionals who are not medical practitioners but are seeking authorisation to possess and administer vaccines without a medical order.

Structure

The National Framework outlines domains of learning and the principal standards for practice relevant for any immunisation education program. Learning objectives are presented under each standard for practice. These learning objectives relate to education programs that address the provision of all aspects of the National Immunisation Program.

The following domains, domain topics and learning outcomes are described in the National Framework.

DOMAIN 1 THE GLOBAL AND AUSTRALIAN CONTEXT FOR IMMUNISATION

1.1 Public health and immunisation

Learning Outcome: Demonstrates an understanding of the impact of immunisation programs as a public health measure.

1.2 The National Immunisation Program and the National Immunisation Program Schedule

Learning Outcome: Demonstrates knowledge of the National Immunisation Program and the National Immunisation Program Schedule.

DOMAIN 2 THE IMMUNE SYSTEM AND IMMUNISATION

2.1 The immunological principles of immunisation

Learning Outcome: Demonstrates knowledge of the immune response and how vaccines work.

2.2 Vaccine preventable diseases and epidemiology

Learning Outcome: Demonstrates knowledge of the key features of vaccine preventable diseases.

2.3 Vaccine types and components

Learning Outcome: Demonstrates and applies knowledge of the various vaccine types and their components.

DOMAIN 3 THE LAW, ETHICS AND IMMUNISATION

3.1 Legal and ethical considerations for immunisation practice

Learning Outcome: Demonstrates and applies knowledge of the current legal and ethical issues related to immunisation.

DOMAIN 4 IMMUNISATION PRACTICE

4.1 Information resources and communicating risk

Learning Outcome: Demonstrates knowledge of the risks and benefits of vaccination and utilises relevant information resources.

4.2 The management of storage, handling and transport of vaccines

Learning Outcome: Demonstrates knowledge of the cold chain and implements the current national guidelines when storing, handling and transporting vaccines.

4.3 Vaccine safety

Learning Outcome: Demonstrates knowledge of the management and reporting of adverse events following immunisation.

4.4 Vaccine administration

Learning Outcome: Demonstrates knowledge of the requirements for the delivery of a safe immunisation service.

4.5 Documentation and reporting

Learning Outcome: Demonstrates the knowledge of the principles of accurate documentation and reporting in accordance with national and state/territory guidelines, policies and procedures.

4.6 Strategies for improving immunisation coverage rates

Learning Outcome: Demonstrates knowledge of strategies and resources to improve immunisation coverage rates in Australia.

PART II
CORE LEARNING
OBJECTIVES AND
OUTCOMES FOR
IMMUNISATION
PROVIDERS

II

1.1 Public health and immunisation

TOPIC

LEARNING OUTCOME

Demonstrates an understanding of the impact immunisation programs have had as a public health measure.

Learning objectives

On completion of this topic the health professional will be able to:

1. Describe the public health aims of immunisation programs and explain why immunisation is an effective and safe public health strategy
2. Explain the concept of herd immunity
3. Explain the prevalence of vaccine preventable diseases in other countries and why we need to continue to vaccinate even when diseases are no longer a problem in Australia
4. Explain how the effectiveness of immunisation programs is measured

TOPIC**1.2 National Immunisation Program and the National Immunisation Program Schedule**

**LEARNING
OUTCOME****Demonstrates knowledge of the National Immunisation Program and the National Immunisation Program Schedule.**

Learning objectives

On completion of this topic the health professional will be able to:

1. Identify the strategic priorities of the National Immunisation Strategy
2. Describe the National Immunisation Program and the role of the key stakeholders
3. Describe how service delivery occurs across Australia
4. Discuss the eligible groups and the specific vaccine recommendations listed on the National Immunisation Program (NIP) Schedule
5. Understand the rationale for the different state and territory schedule variations
6. Assess national and state/territory vaccine coverage rate reports against national targets

DOMAIN

2 THE IMMUNE SYSTEM AND IMMUNISATION

2

TOPIC

2.1 The immunological principles of vaccination

LEARNING
OUTCOME

Demonstrates knowledge of the immune response and how vaccines work.

Learning objectives

On completion of this topic the health professional will be able to:

1. List and differentiate between the various types of immunity
2. Explain and differentiate between the primary and secondary immune response
3. Discuss the immune response to vaccines
4. Explain conditions that affect the immune response to vaccines
5. Describe the rationale behind the placement of vaccines on the National Immunisation Program

TOPIC**2.2 Vaccine preventable diseases and epidemiology**

**LEARNING
OUTCOME**

Demonstrates knowledge of the key features of vaccine preventable diseases.

Learning objectives

On completion of this topic the health professional will be able to:

1. Describe the epidemiology, clinical features and complications of common vaccine preventable diseases
2. Identify the rationale for the vaccine recommendations relating to the common vaccine preventable diseases

Demonstrates and applies knowledge of the various vaccine types and their components.

Learning objectives

On completion of this topic the health professional will be able to:

1. Discuss the types of vaccines available, as listed in the current edition of the Australian Immunisation Handbook, and identify key differences between each type
2. Define the terms vaccine efficacy, immunogenicity and vaccine effectiveness
3. Identify the purpose of individual components contained in vaccines

DOMAIN

3 THE LAW, ETHICS AND IMMUNISATION

3

TOPIC

3.1 Legal and ethical considerations for immunisation practice

LEARNING
OUTCOME

Demonstrates and applies knowledge of the current legal and ethical issues related to immunisation.

Learning objectives

On completion of this topic the health professional will be able to:

1. Outline the legal requirements that relate to obtaining valid and informed consent
2. Identify the state and territory legislation relevant to the practice of immunisation
3. Identify the national legislation relevant to the practice of immunisation
4. Discuss the professional accountability in immunisation practice as per the relevant codes and standards of practice stipulated by the relevant Board for health practitioners regulated under the National Registration and Accreditation Scheme
5. Discuss the key ethical issues that affect immunisation practice

DOMAIN

4 IMMUNISATION PRACTICE

4

TOPIC

4.1 Information resources and communicating risk

LEARNING
OUTCOME

Demonstrates knowledge of the risks and benefits of vaccination and utilises relevant information resources.

Learning objectives

On completion of this topic the health professional will be able to:

1. Discuss the effects of common vaccine preventable disease compared with the side effects of the vaccines
2. Identify credible sources of information appropriate to individual needs
3. Identify factors influencing an individual's decision making process to vaccinate
4. Recognise and respond to the different communication needs of the individual and culturally diverse populations

Demonstrates knowledge of the cold chain and implements the current national guidelines when storing, handling and transporting vaccines.

Learning objectives

On completion of this topic the health professional will be able to:

1. Identify the principles of safe vaccine storage management
2. List the key recommendations for inclusion in a vaccine management protocol
3. Identify the steps involved in responding to a cold chain breach
4. Apply the current national policies, protocols and procedures for management of a cold chain breach

Demonstrates knowledge of the management and reporting of adverse events following immunisation.

Learning objectives

On completion of this topic the health professional will be able to:

1. Define the term Adverse Event Following Immunisation (AEFI)
2. Identify and discuss the management of common and uncommon events following immunisation
3. Differentiate between a vasovagal episode and anaphylaxis
4. Discuss the management of a vasovagal episode
5. Discuss the management of anaphylaxis
6. Discuss future vaccination recommendations following an AEFI
7. Describe the national and state/territory policies and procedures for documenting and reporting an AEFI
8. Describe the role of the Therapeutic Goods Administration in relation to the safety of vaccines

Demonstrates knowledge of the requirements for the delivery of a safe immunisation service.

Learning objectives

On completion of this topic the health professional will be able to:

1. Discuss the pre-vaccination screening process and identify conditions or circumstances that require specific action
2. List the steps to correctly select, prepare and administer vaccines appropriate for the individual
3. Identify situations where vaccines are overdue and develop a catch-up schedule in accordance with the recommendations from the current Australian Immunisation Handbook
4. Identify true contraindications for all vaccines and the common false contraindications
5. List the recommendations for post-vaccination care
6. Identify the Work Health and Safety requirements that relate to delivering an immunisation encounter

Demonstrates knowledge of the principles of accurate documentation and reporting in accordance with national and state/territory guidelines, policies and procedures.

Learning objectives

On completion of this topic the health professional will be able to perform the following:

1. Identify and list the recording requirements relating to the provision of immunisation services
2. Describe the process of submitting information to the immunisation registers
3. Discuss the impact of inaccurate and delayed reporting to immunisation registers

TOPIC**4.6 Strategies for improving immunisation coverage rates**

**LEARNING
OUTCOME**

Demonstrates knowledge of strategies and resources to improve immunisation coverage rates in Australia.

Learning objectives

On completion of this topic the health professional will be able to perform the following:

1. Identify areas of low coverage and discuss potential barriers
2. Describe current national programs aimed at improving immunisation coverage rates
3. Identify recent immunisation promotional activities that aim to improve immunisation coverage rates

REFERENCES



- Aboriginal and Torres Strait Islander Health Practice Board of Australia. (2012). *Guidelines for continuing professional development*. Aboriginal and Torres Strait Islander Health Practice Board of Australia. Retrieved from <http://www.atsihealthpracticeboard.gov.au/documents/default.aspx?record=WD12%2f7069&dbid=AP&chksum=IW1w0wrEL1MR7BHsvozNIA%3d%3d>
- AdvancingPractice.com. (2014). *Immunization Competencies Education Program*. Retrieved August 27, 2014, from Advacing Practice: <http://www.advancingpractice.com/p-68-immunization-competencies-education-program.aspx>
- Alvarez-Pasquín, M. J., Heijbel, H., Yarwood, J., Damme, P. V., & VACSATC, p. (2009). VACSATC (Vaccine safety : attitudes, training and. *Eurosurveillance*, 14(16), 1-4. Retrieved from http://wma.comb.es/Upload/Documents/VACSATC_Eurosurveillance2009_50.pdfhttp://wma.comb.es/Upload/Documents/VACSATC_Eurosurveillance2009_50.pdf
- American Association of Colleges of Nursing. (2008). *The Essentials of Baccalaureate Education*. Washington: American Association of Colleges of Nursing. Retrieved from <http://www.aacn.nche.edu/publications/order-form/baccalaureate-essentials>
- American College of Nurse-Midwives (ACNM). (2012). *Core Competencies for Basic Midwifery Practice*. Silver Spring: ACNM. Retrieved from [http://www.midwife.org/ACNM/files/ACNMLibraryData/UPLOADFILENAME/000000000050/ore%20Comptencies%20Dec%202012.pdf](http://www.midwife.org/ACNM/files/ACNMLibraryData/UPLOADFILENAME/000000000050/Core%20Comptencies%20Dec%202012.pdf)
- Annie Barr Associates. (2014). *Immunisation Training for Nurses – Childhood & Travel Health*. Retrieved August 27, 2014, from Annie Barr Associates: <http://www.anniebarr.com/healthcare-training-courses/immunisation-training-for-nurses-travel-health/>
- Australian College of Nursing. (2014). *Immunisation for Registered Nurses*. . Retrieved September 8, 2014, from http://www.acn.edu.au/sites/default/files/education/outlines/acn_immunisation_for_registered_nurses_package_MAR14.pdf
- Birmingham City University. (2014). *Immunisation and Vaccination Online Moodle Course*. Retrieved September 1, 2014, from Birmingham City University: <http://www.bcu.ac.uk/courses/immunisation-and-vaccination-on-line-moodle-course>
- Bow Valley College Continuing Education. (2014). *Immunization*. Calgary, Alberta: Bow Valley College.
- British Columbia Centre for Disease Control. (2013). *Immunization Manual*. Immunization Programs and Vaccine Preventable Disease Service. Victoria: British Columbia Centre for Disease Control. Retrieved from www.bccdc.ca/dis-cond/comm-manual/CDManualChap2.htm
- British Columbia Centre for Disease Control. (2014). *Immunization Competency Course*. Retrieved September 5, 2014, from British Columbia Centre for Disease Control: www.bccdc.ca/imm-vac/ForHealthProfessionals/ImmunizationCourses/ImmsCompCourse/htm
- Canadian Midwifery Regulators Consortium. (2008). *Canadian Competencies for Midwives*. Winnipeg: Canadian Midwifery Regulators Consortium. Retrieved from http://cmrc-ccosf.ca/files/pdf/National_Competencies_ENG_rev08.pdf
- Canberra Institute of Technology. (2014). *Immunisation Fundamentals for Health Care Workers - Statement of Attainment*. Retrieved from Canberra Institute of Technology:

- http://cit.edu.au/study/courses/immunisation_fundamentals_for_health_care_workers_statement_of_attainment
- Central Australian Aboriginal Congress,. (2014). *Education & Training Aboriginal Health Practitioner Training*. Retrieved from Central Australian Aboriginal Congress: www.caac.org.au
- College of Licensed Practical Nurses of Alberta. (2014). *Continuing Education*. Retrieved from College of Licensed Practical Nurses of Alberta : www.clpna.com/members/continuing-education/
- College of Licensed Practical Nurses of BC. (2012). *Immunization Competencies for BC Licensed Practical Nurses*. College of Licensed Practical Nurses of BC. Retrieved from https://www.clpnbc.org/Documents/LPN_Immunization-Competencies_June2012.aspx
- College of Licensed Practical Nurses of British Columbia. (2014). *Immunization Education*. Retrieved from College of Licensed Practical Nurses of British Columbia: www.clpnbc.org/Practice-Support-Learning/Immunization-Education.aspx
- College of Registered Psychiatric Nurses of Alberta. (2014). *Continuing Competence Program*. Retrieved from College of Registered Psychiatric Nurses of Alberta: http://www.crpna.ab.ca/imis15/CRPNAWEB/Member_Information/Continuing_Competence_Program/CRPNA/Member_Information/Continuing_Competence_Program.aspx?hkey=10b25dd3-0e5c-4fbf-9cfa-4653d0bde2a
- College of Registered Psychiatric Nurses of BC. (2014). *Limits and Conditions on RPN Practice: Immunizations*. Retrieved from College of Registered Psychiatric Nurses of BC: <https://www.crpnb.ca/wp-content/uploads/2014/04/SLC-immunizations.pdf>
- Commonwealth Department of Health and Aged Care. (2001). *National Guidelines for Immunisation Education for Registered Nurses & Midwives*. Commonwealth of Australia. Canberra: Commonwealth of Australia. Retrieved from [http://www.immunise.health.gov.au/internet/immunise/publishing.nsf/Content/099D80606D28C934CA25798E0007E758/\\$File/attachment-d-national-guidelines-for-immunisation-education-for-registered-nurses-and-midwives.pdf](http://www.immunise.health.gov.au/internet/immunise/publishing.nsf/Content/099D80606D28C934CA25798E0007E758/$File/attachment-d-national-guidelines-for-immunisation-education-for-registered-nurses-and-midwives.pdf)
- Commonwealth of Australia. (2011). *Families in regional, rural and remote Australia*. Retrieved September 5, 2014, from Australian Institute of Family Studies: <http://www.aifs.gov.au/institute/pubs/factsheets/2011/fs201103.html>
- Department of Health. (2006). *Medicines Matters*. London: Department of Health. Retrieved August 29, 2014, from http://webarchive.nationalarchives.gov.uk/20130107105354/http://www.dh.gov.uk/prod_consum_dh/groups/dh_digitalassets/@dh/@en/documents/digitalasset/dh_064326.pdf
- Department of Health WA. (2013). *Western Australian Immunisation Strategy 2013–2015*. Perth: Department of Health WA. Retrieved from <http://www.public.health.wa.gov.au/cproot/5225/2/immunisation-strategy-wahealth-2013.pdf>
- Elonsalo, U., Hirvonen, M., Nikula, A., & Nohynek, H. (2014). ABSTRACT: License to Vaccinate: ROKOKO Project provides nationwide training module of vaccination competence for nurses that will be used by all universities of applied science in Finland. *32nd Annual Meeting of the European Society for Paediatric Infectious Diseases*. Dublin, Ireland. Retrieved September 8, 2014, from http://espid.meetingxpert.net/espid_945/poster_95197/program.aspx
- Government of Manitoba. (2014). *Immunization Program Manual for Immunization Providers in Manitoba*. Winnipeg: Government of Manitoba. Retrieved from gov.mb.ca/health/publichealth/cdc/div/manual/index.html
- Government of Nova Scotia. (2014). *Nova Scotia Immunization Manual*. Halifax Regional Municipality: Government of Nova Scotia. Retrieved from novascotia.ca/dhw/cdpc/documents/Immunization-Manual/pdf
- Government of Saskatchewan. (2012). *Saskatchewan Immunization Manual*. Regina: Government of Saskatchewan. Retrieved from www.health.gov.sk.ca/immunization-manual

- Government of Western Australia, Department of Health. (2014, September 8). *Immunisation education*. Retrieved from Government of Western Australia, Department of Health: http://www.public.health.wa.gov.au/3/477/2/immunisation_education.pm
- Health Protection Agency. (2005a). *Core Curriculum for Immunisation Training*. London: Health Protection Agency. Retrieved from http://www.hpa.org.uk/webc/HPAwebFile/HPAweb_C/1204100468732
- Health Protection Agency. (2005b). *National Minimum Standards for Immunisation Training*. Immunisation Department. London: Health Protection Agency. Retrieved from http://www.hpa.org.uk/webc/HPAwebFile/HPAweb_C/1196942164323
- Health Protection Agency. (2012). *National Minimum Standards and Core Curriculum for Immunisation Training of Healthcare Support Workers*. London: Health Protection Agency. Retrieved from http://www.hpa.org.uk/webc/HPAwebFile/HPAweb_C/1317134415868
- Health Protection Scotland. (2014). *Immunisation Programme: Promoting Effective Immunisation Practice*. Retrieved September 9, 2014, from Health Protection Scotland: <http://knhswww1.the-knowledge-business.com/KNHSIMM/index.asp>
- Imm and Vacc. (2014). *Immunisation Courses*. Retrieved from Imm and Vacc: <http://www.immandvacc.co.uk/immunisation-courses.html>
- Immunisation Advisory Centre. (2011). *Vaccinator Training Course Standards for Authorised Vaccinators*. Education Review Group. Auckland: Immunisation Advisory Centre. Retrieved from <http://www.immune.org.nz/sites/default/files/resources/StandardsImacVaccinatorsInitialVTC20110131Final.pdf>
- Immunisation Advisory Centre. (2013). *Immunisation Information Standards for Midwives: 2 Hour Course*. Retrieved from Immunisation Advisory Centre: http://www.immune.org.nz/sites/default/files/resources/StandardsImacMidwivesII-2hr20130430Final_0.pdf
- Immunisation Advisory Centre. (2014a). *Education and Training*. Retrieved August 28, 2014, from Immunisation Advisory Centre: <http://www.immune.org.nz/education-and-training>
- Immunisation Advisory Centre. (2014b). *Midwives Immunisation Course*. Retrieved August 27, 2014, from Immunisation Advisory Centre: <http://www.immune.org.nz/education-and-training/midwives-immunisation-course>
- Immunise Australia Program. (2014, June 12). *ACIR - Current Data*. Retrieved September 2, 2014, from Immunise Australia Program: <http://www.immunise.health.gov.au/internet/immunise/publishing.nsf/Content/coverage-data.htm#1acir>
- King's College London. (2014). *Immunisation Foundation with Anaphylaxis*. Retrieved September 5, 2014, from King's College London: http://www.kcl.ac.uk/teares/nmvc/external/prospectus/study_info.php?code=KSIVF_
- Kingston University; St Georges University. (2014). *CPPD Study day: Child immunisation – two day foundation*. Retrieved September 1, 2014, from Faculty of Health, Social Care and Education: <http://www.healthcare.ac.uk/cppd/study-days/child-immunisation-two-day-foundation/>
- Landon, B., Selle, M., Doucette, S., & Loudon, J. (2003, August). *The Alaskan Community Health Aide Program: An integrative literature review and visions for future research*. Health Resources and Services Administration. Retrieved September 1, 2014, from <http://www.uaa.alaska.edu/acrh-ahc/projects/archives/upload/2004chap-lit-rev.pdf>
- m&k Update. (2014). *Immunisation Training*. Retrieved September 1, 2014, from m&k Update: Training and development for healthcare professionals: http://www.mkupdate.co.uk/courses/primary_care/immunisation_training

- McIntyre, P. B., & Menzies, R. I. (2005). Immunisation: reducing health inequality for Indigenous Australians. *Medical Journal of Australia*, 182(5), 207-8.
- Midwifery Council of New Zealand. (2007). *The Competencies for Entry to the Register of Midwives*. Wellington: Midwifery Council of New Zealand. Retrieved from <http://www.midwiferycouncil.health.nz/images/stories/pdf/competencies%20for%20entry%20o%20the%20register%20of%20midwives%202007.pdf>
- Ministry of Health. (2014). *Immunisation Handbook 2014*. Wellington: Ministry of Health. Retrieved from <http://www.health.govt.nz/system/files/documents/publications/immunisation-handbook-may14-v4.pdf>
- New South Wales Department of Health. (2014, Jan 9). Information Bulletin: Definition of an Aboriginal Health Worker. Retrieved September 2, 2014, from http://www0.health.nsw.gov.au/policies/ib/2014/pdf/IB2014_001.pdf
- Northern Territory Department of Health. (2014a). *About Giving Vaccines (AGV) Course*. Retrieved September 8, 2014, from Northern Territory Department of Health: http://www.health.nt.gov.au/Centre_for_Disease_Control/Immunisation/About_Giving_Vaccines_Course/index.aspx
- Northern Territory Department of Health. (2014b, April 24). NT Medicines, Poisons and Therapeutic Goods Act. *Prescribed qualification to supply or administer or possess vaccination*. Northern Territory, Australia. Retrieved from [http://www.health.nt.gov.au/library/scripts/objectifyMedia.aspx?file=pdf/64/70.pdf&siteID=1&str_title=Northern%20Territory%](http://www.health.nt.gov.au/library/scripts/objectifyMedia.aspx?file=pdf/64/70.pdf&siteID=1&str_title=Northern%20Territory%20)
- Nova Scotia Community College. (2014). *Immunization for Nurses*. Retrieved September 12, 2014, from Nova Scotia Community College: http://www.nsc.ca/learning_programs/coned/Course.aspx?l=237
- Nursing and Midwifery Board of Australia. (2010). *Continuing professional development registration standard*. Nursing and Midwifery Board of Australia. Retrieved 2014, from <http://www.nursingmidwiferyboard.gov.au/documents/default.aspx?record=WD10%2f135&dbid=AP&checksum=8UL9PD4%2byPR9h99u%2b6alcA%3d%3d>
- Nursing Council of New Zealand. (2012). *Competencies for Registered Nurses*. Wellington: Nursing Council of New Zealand. Retrieved from <http://www.nursingcouncil.org.nz/content/download/263/1205/file/Competencies%20for%20registered%20nurses.pdf>
- Public Health Agency of Canada. (2008). *Immunization Competencies for Health Professionals*. Ottawa: Public Works and Government Services Canada. Retrieved from <http://www.phac-aspc.gc.ca/im/pdf/ichp-cips-eng.pdf>
- Public Health Agency of Canada. (2014). *Canadian Immunization Guide*. Ottawa: Public Health Agency of Canada. Retrieved from www.phac-aspc.gc.ca/publicat/cog-cgi/index-eng.php
- Public Health England. (2014). *Skills for Health Core Learning Unit*. Retrieved from Public Health England: <http://www.hpa.org.uk/EventsProfessionalTraining/HealthProtectionAcademy/AdditionalOpportunitiesAndInformation/ImmunisationTrainingResources/hpacadvacc04elearningimmunisationresources/>
- Queensland Health. (2014). *Drugs and Poisons*. Brisbane: Queensland Health. Retrieved 2014, from Queensland Health: www.health.qld.gov.au/ph/documents/ehu/adv-course-prov.pdf
- Queensland Parliamentary Counsel. (2014). *Health (Drugs and Poisons) Regulation 1996*. Brisbane: Queensland Parliamentary Counsel. Retrieved from <http://www.legislation.qld.gov.au/LEGISLTN/CURRENT/H/HealDrAPoR96.pdf>

- Royal College of Nursing. (2013). *Supporting the delivery of immunisation education: A quality framework to support the implementation of national standards and guidelines on immunisation training*. London: Royal College of Nursing. Retrieved August 29, 2014, from http://www.rcn.org.uk/__data/assets/pdf_file/0005/553748/004479.pdf
- Schmitt, H. J., Booy, R., Aston, R., Van Damme, P., Schumacher, R. F., Campins, M., . . . Peltola, H. (2007). How to optimise the coverage rate of infant and adult immunisations in Europe. *BMC Med*, 5(11). Retrieved from <http://www.biomedcentral.com/1741-7015/5/11>
- South Australia Department of Health. (2014). *A Short Course on Immunology and Immunisation for Nurses*. Retrieved September 8, 2014, from South Australia Department of Health: <http://www.sahealth.sa.gov.au/wps/wcm/connect/public+content/sa+health+internet/clinical+resources/professional+development/immunisation+provider+training>
- Stephens, C., Nettleton, C., Porter, J., Willis, R., & Clark, S. (2005). Indigenous peoples' health—why are they behind everyone, everywhere? Indigenous peoples' health—why are they behind everyone, everywhere? *The Lancet*, 366(9479), 10-13. Retrieved from [http://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(05\)66801-8/fulltext](http://www.thelancet.com/journals/lancet/article/PIIS0140-6736(05)66801-8/fulltext)
- Tasmania Department of Health and Human Services. (2014). *Nurse Immunisers in Tasmania*. Retrieved September 8, 2014, from Tasmania Department of Health and Human Services: http://www.dhhs.tas.gov.au/peh/nurse_immuniser
- The National Skills Academy. (2014). *Immunisation & Vaccination*. Retrieved September 1, 2014, from The National Skills Academy: <http://www.nsahealth.org.uk/e-learning/courses-we-offer/42-immunisation-vaccination>
- The University of Sheffield. (2014). *Introduction to Vaccination and Immunisation Two Day Basic Training*. Retrieved September 1, 2014, from The University of Sheffield: <http://www.sheffield.ac.uk/hscpcd/courses-az/esfpcn/n0037sd>
- training.gov.au. (2013). *HLT40213 - Certificate IV in Aboriginal and/or Torres Strait Islander Primary Health Care Practice*. Retrieved October 2, 2014, from training.gov.au: <https://training.gov.au/Training/Details/HLT40213>
- University of Alaska Fairbanks. (2013, 6 August). *Community Health*. Retrieved September 1, 2014, from University of Alaska Fairbanks: http://www.uaf.edu/catalog/current/programs/comm_health.html
- University of South Wales. (2014). *University of South Wales*. Retrieved September 2014, 2014, from Immunisation for Primary Care Module: www.southwales.ac.uk/nursing/short-courses/immunisation/
- Vaccine Safety, Attitudes, Training and Communication (VACSATC) EU-project. (2009). *Criteria for good pre-service immunisation training*. University of Antwerp. Antwerp: Centre for the Evaluation of Vaccination. Retrieved August 28, 2014, from Criteria for good pre-service immunisation training: <http://www.ua.ac.be/download.aspx?c=.CEVVACCINOLOGYTRAINING&n=79468&ct=73290&e=210741>
- Vaccine Safety, Attitudes, Training and Communication (VACSTAC) EU-project. (2009). *Report on pre-service training of future health care workers in Europe*. VACSTAC.
- VACSATC EU-project. (2009). *Criteria for good pre-service immunisation training*. University of Antwerp, Vaccine Safety, Attitudes, Training and Communication. Antwerp: Centre for the Evaluation of Vaccination. Retrieved August 28, 2014, from Criteria for good pre-service immunisation training: <http://www.ua.ac.be/download.aspx?c=.CEVVACCINOLOGYTRAINING&n=79468&ct=73290&e=210741>
- Victorian Department of Health. (2014). *Nurse immuniser information*. Retrieved September 8, 2014, from Department of Health, Victoria: <http://www.health.vic.gov.au/immunisation/nurse-immuniser-information.htm>

(n.d.). *Western Australian Immunisation Strategy 2013–2015*.

WHO. (2014). *WHO vaccine-preventable diseases: monitoring system. 2014 global summary*. Retrieved August 28, 2014, from WHO:
http://apps.who.int/immunization_monitoring/globalsummary