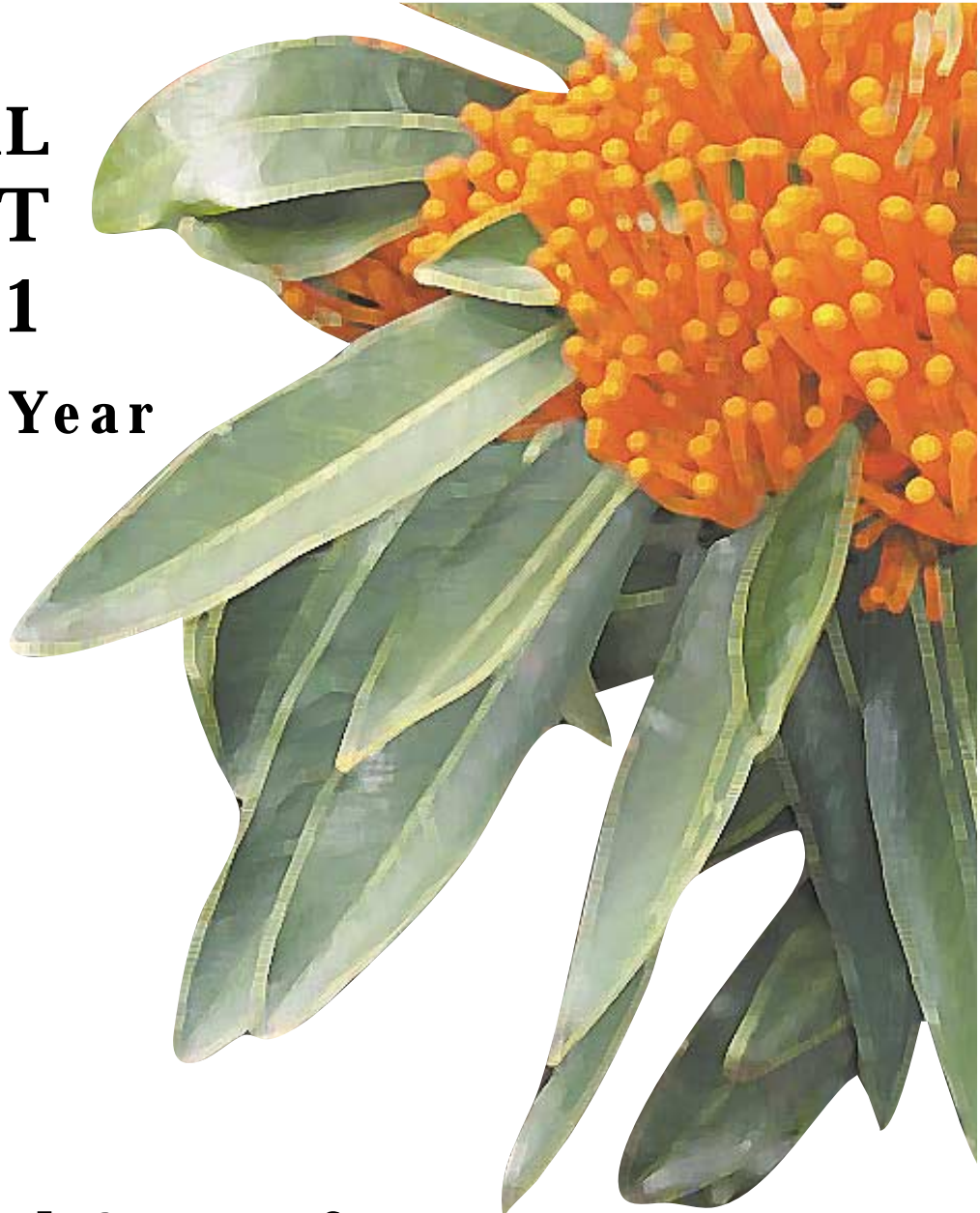


**ANNUAL  
REPORT  
2000-2001**

**The Seventh Year**



**National Centre for  
Classification in Health**

The major sources of funding for the National Centre for Classification in Health are:



Commonwealth Department of  
Health and  
Aged Care

Commonwealth Department of Health and Aged Care



Australian Institute of Health and Welfare



Australian Bureau of Statistics

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The University of Sydney  
PO Box 170  
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Queensland University of Technology  
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### **NCCH Quality and Education Division**

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ANNUAL REPORT  
**2000-2001**

**The Seventh Year**



**National Centre for  
Classification in Health**

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# CHAIRMAN'S FOREWORD

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*Peter Williams  
Chairman  
NCCH Executive Committee*

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**It is traditional for reports by the Chair to commence with a statement about the significance of the accomplishments from past year, and about how eventful it has been. After my first year as Chair of the Executive Committee of the NCCH, I find that my observations comply with tradition, and can state that the NCCH has made major steps towards achieving its mission in 2000 – 2001.**

*The NCCH Strategic Plan 2000-2005 has directed these significant advances. Publication of this important document has provided a solid foundation for the continuing development of the Centre's activities, which are described in this report.*

I would especially like to draw readers' attention to some outstanding achievements that have been made during 2000-2001:

## **ICD-10-AM Second Edition**

On July 1 2000, ICD-10-AM Second Edition was introduced to acute care hospitals in all Australian states and territories. 'Introduced' does not effectively convey the skills and efforts that go into the consultation, revision, publication and education activities to produce the classification.

The development of an electronic browser version of ICD-10-AM Second Edition has been successfully completed. This enhancement has pre-empted the increasingly sophisticated needs of the classification's users.

## **General Practice Coding Jury**

A tangible accolade for ICD-10-AM Second Edition was made when the General Practice Coding Jury announced its recommendation that ICD-10-AM, with additional specific general practice components, should be adopted as the Australian general practice classification system for the next five years. ICD-10-AM was preferred from a range of other national and international classifications.

### **10-AM training**

A major component of each revision of ICD-10-AM is training clinical coders about changes in the classification. In 2000, an ICD-10-AM Second Edition training program was developed and implemented throughout Australia and New Zealand.

### **Consultative approach**

A significant feature of the NCCH's work in classification theory is the consultative approach that is made to clinicians, clinical coders and other stakeholders. This year, a series of Classification Update Forums (CUFs) was conducted on seven clinical specialty areas – diabetes mellitus, adverse events, injury, mental health, paediatrics and neonatology, oncology and haematology, anaesthesia. The CUFs brought together clinicians, data users and clinical coders with special expertise in the field, to discuss the clinical language of the specialty. Outcomes from the CUFs have helped to inform enhancements to the classification, which in many cases, will be included in ICD-10-AM Third Edition.

### **The language of health**

The language of health is the cornerstone of health classification theory. Significant work has been undertaken to consolidate Australian clinical language, with the aim of creating an Australian Clinical Vocabulary. This work will ultimately underpin the foundations of national and international health vocabularies.

Not coincidentally, the biennial conference conducted by the NCCH in collaboration with the Clinical Coders' Society of Australia, was also called 'the language of health'. National and international speakers and delegates met in Sydney in April 2001 for a conference that addressed both the global and local concepts and definitions of the language of health. It was a highly successful event.

### **ICD-10-AM Mental Health Manual**

Work is well advanced to meet the publication schedule for the mental health subset of ICD-10-AM, which is planned for concurrent release with ICD-10-AM Third Edition in 2002. The subset has been developed for use by clinicians working in mental health services with a special focus on community mental health.

### **SNOMED CT in Australia**

SNOMED CT (the *Systematized Nomenclature of Human and Veterinary Medicine – Clinical Terms*) has been designed and created as an international, multi-lingual terminology resource. A further recommendation from the report of the General Practice Coding Jury was that Australia should become involved in SNOMED CT developments. To explore possibilities for involvement, NCCH Director Associate Professor Rosemary Roberts was a member of a delegation that visited the College of American Pathologists in Chicago in June 2001 to investigate recent SNOMED CT advances. As a result, NCCH is one of the Australian alpha trial sites for SNOMED CT in the second half of 2001. SNOMED CT should be available in January 2002.

### **Professional Relativities Study**

The Professional Relativities Study, conducted as part of the Relative Value Study for the Medicare Schedule Review Board, delivered its final report at the end of 2000. This three-year project produced a major report which has been delivered to the Medicare Schedule Review Board and thence to the Australian Medical Association and Dr Michael Wooldridge, Minister of Health.

### **International activities**

NCCH's influence is apparent in many parts of the world. In 2000, NCCH Brisbane hosted an intern from the University of Ulm in Germany. The connection was extended in 2001, when Germany announced its decision to introduce Australian Refined Diagnosis Related Groups (AR-DRGs) in 2003.

### **International education**

Education activities through WHO, AusAid and individual countries have been conducted by NCCH staff in New Zealand, the Cook Islands, Tonga and Singapore. Negotiations are well under way to continue and expand these initiatives.

### **Memorandum of Understanding with Singapore's Ministry of Health**

NCCH's relationship with the Ministry of Health in Singapore was formalised when the University of Sydney, Queensland University of Technology, the NCCH and the Ministry signed a Memorandum of Understanding. The Memorandum recognises Singapore's objective to develop best practice in clinical coding and casemix, and identifies the NCCH consortium as a world leader and preferred provider of services.

### **International standards development**

Staff of the NCCH have played a key role in representing Australia on ISO TC215, Working Group 3, Health Concept Representation and also in contributing to the work of the World Health Organization on the emerging “Family of Classifications” and the WHO Update Reference Committee.

### **NCCH structural changes**

In 2001, the Quality and Education divisions of the NCCH merged to become the Quality and Education Division (QED). QED is located at La Trobe University in Melbourne. The results from an education needs survey conducted in 2000 is providing guidance about clients’ needs and preferences. Enhancements to on-going services and new opportunities are being developed.

### **Quality improvement tools**

Two new electronic data quality tools, *Performance Indicators for Coding Quality (PICQ)* and *Australian Coding Benchmark Audit (ACBA)* were launched in 2001.

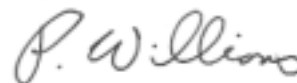
These products were designed and developed by NCCH staff and supported by consultants. PICQ and ACBA is a major advance for health facilities of all sizes that wish to monitor and audit coding activities. Adoption of the products by healthcare facilities has been gratifying.

### **Community health codeset custodianship**

In 2001, the NCCH was granted custodianship of the Australian Community-Based Health Services Codeset (ACBHSC) following a joint proposal with the Australian Institute of Health and Welfare and the Commonwealth Department of Health and Aged Care. The contracts will be finalised before the end of 2001.

### **Conclusion**

The scope of achievements made is outstanding. The Executive Committee joins me in congratulating NCCH Director, Associate Professor Rosemary Roberts, and the Centre’s staff on the contributions they have made to health classification theory, both nationally and internationally. The future is challenging, in particular the developments associated with electronic health records. I am excited about the Centre’s prospects during its eighth year of operation in 2001-2002.



*Peter Williams*  
**Peter Williams**  
Chairman  
NCCH Executive Committee

# PREFACE FROM THE DIRECTOR

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The NCCH has experienced another year of growth in 2000-2001. Contracts for its operation will continue through to 2003 for Sydney, Brisbane and Melbourne locations and allow the Centre to consolidate and expand its activities. The Centre has been exploring the directions of the NCCH strategic plan adopted in 2000 by responding to external environments and customers as well as the internal needs of its staff.

The strategic plan encapsulates the present responsibilities and future opportunities facing the Centre, and established six strategic initiatives and related objectives for the 2000-2005 work program. This seventh annual report is the first to summarise NCCH activities and achievements related to the strategic direction we will be taking over the next few years.

While its focus has been on its core business of health classifications, particularly ICD-10-AM, it has used this foundation to expand into related areas and build on the expertise of its staff. We have embarked on exciting new projects in terminology development, and in forging new collaborative relationships with national and international colleagues.

We have maintained our commitment to our core values of client focus, co-operative and collaborative work with coders, clinicians and peers, with an emphasis on coding and data quality. NCCH staff have made significant contributions in the national and international health information arena, and I am proud to have lead the Centre through another successful year.

The future holds substantial challenges and changes to the health information environment in Australia and I look forward to the Centre's participation in these new initiatives.

A handwritten signature in dark ink, appearing to read "Rosemary Roberts". The signature is written in a cursive, flowing style.

*Associate Professor Rosemary Roberts AM*  
**Director, NCCH**

# 1. PURPOSE

The reported activities reflect the core functions of the NCCH which are to provide our clients with a scientifically robust, public domain health classification in accessible formats and to respond effectively to demands from classification users.

## Queries

The NCCH continued to support ICD-10-AM coding queries from state and territory coding committees during 2000-2001. Queries that are of interest to coders nationally are published with responses in the NCCH's newsletter *Coding Matters*.

	NSW	ACT	QLD	VIC	NT	SA	WA	TAS	All
June 2000			4	1	1	1	1		8
July 2000			3	7		1		1	12
Aug 2000			1						1
Sep 2000			6	4	1			3	14
Oct 2000	1		10	6	1				18
Nov 2000			1	1		1			3
Dec 2000	10								10
Jan 2001			3						3
Feb 2001			5		1			3	9
Mar 2001			3						3
Apr 2001					1			4	5
May 2001	3		4	25					32
June 2001			5	4				1	10
July 2001				3					3
TOTAL	14	0	45	51	4	4	1	12	131

*State and territory coding queries June 2000 – July 2001*

## ICD-10-AM

ICD-10-AM, the Australian Modification of the World Health Organization (WHO) ICD-10, is being updated for its Third Edition which is due for release and implementation in 2002. The major clinical and coder input to this update through Classification Update Forums on Australian health priority areas was a welcome addition to the usual consultation process. The forums allowed detailed review of terms and classification in mental health, injury, adverse events, oncology and haematology, anaesthesia, diabetes, neonatology and paediatrics. These forums have led to classification revision for ICD-10-AM Third Edition while maintaining stability at the level of the WHO ICD-10 classification. The Third Edition will include a number of major improvements, some of which are:

### Neonatal/Paediatric classification

The Royal College of Paediatrics and Child Health (formerly the British Paediatric Association) modification of ICD-9-CM has been used in reporting birth defects and other related paediatric conditions in Australia over at least the last decade. The 'BPA' version of ICD-10 was recently released and the NCCH has included many of the features of BPA ICD-10 into ICD-10-AM Third Edition.

### Inclusion of the International Classification of Oncology, Version 3 (ICD-O-3) morphology codes

The Third Edition of ICD-10-AM is being modified to include ICD-O-3 morphology codes. The Australasian Association of Cancer Registries regards the inclusion of ICD-O-3 morphology as vital to ensure currency of morphology reporting. This is particularly important in the lymphoproliferative disorders (leukaemia and lymphoma) where knowledge about their classification has progressed quickly and has made ICD-O-2 inappropriate.

### External Causes of Injury

The National Injury Surveillance Unit identified some significant shortcomings in external causes of injury codes when ICD-10-AM was first introduced into Australia in 1998. In ICD-10-AM Third Edition the NCCH has been able to incorporate a number of improvements which will significantly improve our ability to accurately report how injuries occur. Many of the changes have been made with direct reference to the International Classification of External Causes of Injury (ICECI) which is expected to be included in the WHO Family of Classifications in the near future.

### Medicare Benefits Schedule (MBS)

ICD-10-AM Third Edition will include modifications based on MBS changes from November 1999, May 2000, November 2000 and May 2001.

### Anaesthetics

The anaesthetic codes have been reviewed and ICD-10-AM Third Edition will provide a more concise and user-friendly code structure.

The patient's ASA (American Society of Anesthesiologists) rating will be included in ICD-10-AM Third Edition as the last two characters of the anaesthetic code. The sixth character has six possible values and the last character has two possible values (hence 120 valid codes).

### Diagnoses in procedure codes

The ICD-10-AM First Edition procedures classification (MBS-Extended) was closely aligned with the Medicare Benefits Schedule (MBS) both in its numbering system and terminology. The MBS utilises diagnostic information to describe many item numbers and this feature was maintained in MBS-Extended. To improve the classification's consistency with the principle that a procedure classification should describe only the procedure performed, a number of diagnostic statements have been deleted from the procedure code label.

### **Public submissions**

In February 2001 the NCCH again opened its public submission process whereby users of ICD-10-AM can suggest changes for the next edition. Thirty-eight submissions were received and 23 have been processed for ICD-10-AM Third Edition. The remainder will be considered for ICD-10-AM Fourth Edition.

### **Database**

NCCH is concentrating its energies on building its existing ICD-10-AM database to equip us for relating terms used in clinical practice with classifications used for a range of clinical, research and administrative purposes.

### **Education**

At the invitation of the New Zealand Ministry of Health, a train-the-trainer workshop for 22 clinical coders and health information managers was conducted in Wellington, New Zealand in February 2001. The course addressed revisions to ICD-10-AM Second Edition. New Zealand implemented ICD-10-AM Second Edition on 1 July 2001.

### **Publications**

The electronic browser version of ICD-10-AM Second Edition was released in September 2000. The browser was initially released on CD-ROM. It was subsequently distributed as an e-mail file that has proved popular with international clients. Response to the browser has been positive – the search facility and ability to navigate between volumes are proving to be very useful.

The popular *Casemix DRGs and clinical coding* book series was completed in late 2000. In December 2000 the series was published in Adobe Portable Document Format (PDF). The PDF files, delivered on CD-ROM, include all titles in the series and a comprehensive index which is cross-linked to entries in the books. The NSW and Queensland Health departments have purchased the PDF version and have made the information available to staff and key stakeholders through their intranet facilities.

## 2. PARTICIPATE

**The second strategic initiative for the NCCH is to play an active role in the formulation of national policies and practices to collect, interpret and use health information. NCCH has been actively involved with many national and international organisations that are at the forefront of the evolving health information environment. The focus has been on electronic innovations to provide health classifications and the international development of health terminologies. These opportunities have allowed us to contribute our expertise and experience internationally, and to gather information and skills to apply in the Australian context.**

NCCH staff in Brisbane, Sydney and Melbourne have been involved in international activities during the year. Many of these have been for World Health Organization (WHO) Western Pacific, Southeast Asian and African Regional Offices, with missions in Myanmar, Cook Islands, Mauritius, Bangladesh and Thailand. NCCH Brisbane was successful in a tender to deliver health record and classification education in the Kingdom of Tonga, and education programs for clinical coders have been provided for the Ministry of Health in Singapore. Some of these have been in conjunction with Queensland University of Technology (QUT) and the Health Information Management Association of Australia Ltd (HIMAA).

Others have been part of a contract to provide Performance Indicators for Coding Quality (PICQ) in ICD-9-CM for Singapore, a product which was delivered in May 2001.

### **World Health Organization (WHO) Update Reference Committee (URC)**

The Classification Support and Development Division undertakes a large volume of work to assist the Australian Institute of Health and Welfare in its role as the Australian WHO Collaborating Centre for Classification of Diseases. The NCCH Director, Rosemary Roberts, chairs the WHO Update Reference Committee (URC) which recommends updates to ICD-10. NCCH Nosologist, Michelle Bramley, provides secretariat support to the URC. This involves receipt, screening, research and dissemination of recommendations for change to the ICD-10. The process culminates in the annual meeting where final decisions for minor (annual) and major (three yearly) updates are made. This year, an e-mail listserver was set up to assist the members of the URC to handle issues more efficiently. Approximately 45 proposals were considered by the URC in 2000-2001.

## WHO Collaborating Centres for the Classification of Diseases

The annual meeting of heads of WHO Collaborating Centres for the Classification of Diseases was held in Rio de Janeiro in October 2000. The Australian team, comprising NCCH delegates and headed by the Director of the Australian Institute of Health and Welfare, Dr Richard Madden, presented a number of papers. This meeting was also the forum for the annual meeting of the WHO Update Reference Committee for ICD-10.

NCCH Brisbane Associate Director Sue Walker, and NCCH Sydney Associate Director Kerry Innes, are also members of Heads of Centres (HoC) sub-committees: Education and Credentialling, Mortality Reference Group, Electronic Tools and WHO Family of International Classifications.

## Unified Medical Language System (UMLS)

In early 2001 Donna Truran, NCCH Research Officer, progressed the inclusion of ICD-10-AM in the US National Library of Medicine Unified Medical Language System. NCCH hopes to follow the initial work involving the tabular list of codes with inclusion of index terms from ICD-10-AM in this international metathesaurus which provides mapping between concepts in its member classifications.



(Back) l-r: Lynn Bracewell, Rosemary Roberts, Donnamaria Pickett, Kerry Innes  
(Front) l-r: Michael Schöpen, Arun Nanda at the WHO meeting, Rio de Janeiro, October 2000

## International Organization for Standardization (ISO)

Michelle Bramley is the NCCH representative on health concept representation committees for Standards Australia and also for the International Organization for Standardization (ISO). In this latter capacity, she attended the ISO meeting on health informatics held in Seoul in March 2001. Her contributions for NCCH and for Australia have been extremely valuable in the context of understanding relationships between classifications and terminologies.

Michelle is also the Australian representative to ISO/TC 215 Working Group 3 on Health Concept Representation. Her role at the NCCH involves representation on Standards Australia's IT-14-2 Subcommittee on Health Concept Representation, the mirror group to the ISO Working Group. Development of a comprehensive clinical language is one of the building blocks in the development of electronic health records. Working Group 3 is developing standards that will:

- define the language used in describing the types of terminological systems used in health informatics and their components (a metavocabulary) and
- establish guidelines which will assist terminology developers to construct useful, maintainable terminological systems.



*l-r: Kerry Innes, Deirdre Murphy (ESRI, Dublin)  
and Karen Peasley*



*Dr YC Chong  
(WHO Western Pacific  
Regional Office, Manila)*



*A/Prof Rosemary Roberts (left) and Dr Wu Hong  
(WHO Collaborating Centre, Beijing)*



*l-r: Rosemary Roberts,  
Linda Kloss (AHIMA, Chicago)  
and Kerry Innes*

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## International visitors

- Caroline Stahl, *Student intern*, University of Ulm, Germany
- Lim Kuan Meng, *Divisional Director*, Postgraduate Programs, Singapore Institute of Management, Singapore
- Teo Lee Gee, *Manager*, Postgraduate Programs, Singapore Institute of Management, Singapore
- Dr Fatemah Sabokrooh, *Post-doctoral Research Fellow*, School of Management and Health Information Science, Iran University of Medical Science, Tehran, Iran
- Dr Christopher Chute, *Head of the Medical Information Resources Section, Professor of Medical Informatics*, Associate Professor of Epidemiology, Mayo Clinic, Rochester, Minnesota, USA
- Professor Suzanne Bakken, *School of Nursing and Department of Medical Informatics*, Columbia University, New York, New York, USA
- Dr Eckhardt Frantz, *Resident*, Medizinische Klinik Charité, Kardiologie, Campus Virchow Klinikum, Humboldt-Universität und Deutsches Herzzentrum, Berlin, Germany
- Diane Aschman, *Vice President*, College of American Pathologists, SNOMED Chief Operating Officer, Chicago, Illinois, USA
- Dr Wansa Paoin, Thammasat University, Thailand
- Professor Dr Roland Wauer, Campus Charité Mitte, Klinik für Neonatologie, Berlin, Germany
- Dr YC Chong, *Regional Adviser in Health Information*, World Health Organization, Western Pacific Regional Office, Manilla, Philippines
- Dr Wu Hong, *Visiting Fellow*, WHO Collaborating Centre, Beijing, China
- Linda Kloss, *Executive Vice President / Chief Executive Officer*, American Health Information Management Association, Chicago, Illinois, USA
- Deirdre Murphy, *Coding Manager*, Economic and Social Research Institute, Dublin, Ireland
- Siti Haslinda bin Mohammed, *Visiting Fellow*, WHO, Kuala Lumpur, Malaysia

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## **International meetings and visits**

### ***Meetings***

*World Health Organization (WHO) Heads of Collaborating Centres for Classification of Diseases Meetings*

Rio de Janeiro, Brazil, October 2000

- Attended by: Associate Professor Rosemary Roberts, Kerry Innes and Sue Walker

*International Organization for Standardization Plenary Meeting of the Technical Committee on Health Informatics (ISO/TC 215)*

Seoul, Korea, March 2001

- Attended by: Michelle Bramley

*SNOMED, Chicago*

Department of Health and Aged Care delegation

Chicago, USA, June 2001

- Attended by: Associate Professor Rosemary Roberts

### ***Seminars, workshops and conferences***

- Australian Coding Benchmark Audit training, WHO South East Asia *Brisbane*
- ICD-10 training *Cook Islands*
- Medical terminology and clinical documentation seminar and ICD-10 workshop *Kingdom of Tonga*
- ICD-10-AM Train-the-trainer workshop *New Zealand*
- NCCH 7th Biennial Conference *Sydney*
- ICD-10 training *Bangladesh*
- PICQ-S for ICD-9-CM training and seminar *Singapore*
- ACBA workshop *Myanmar*
- ICD-10 implementation and training *Mauritius*

### **Expert Group on Health Classifications**

This group, responsible to the National Health Information Management Group, was re-formed in December 2000.

It brings together Australian experts on health classifications and aims to establish a process of national maintenance of classifications and terminologies and use of a national reference terminology to facilitate their inter-operability. It mirrors international work on identifying classifications appropriate for all health sectors. NCCH staff from both Sydney and Brisbane are members of this expert group.

### **Classification Update Forums**

The Classification Update Forums, facilitated by NCCH, were completed in early 2001. The forums brought together experts in the nominated specialties to assist the NCCH in modifying ICD-10-AM Second Edition, principally to maintain its currency. The process has resulted in some significant improvements for ICD-10-AM Third Edition. The forums focused on neonatology and paediatrics, oncology, diabetes, mental health, adverse events, anaesthetics and injury.

### **Clinical Classification and Coding Groups (CCCGs)**

The DRG Development Section of the Acute and Coordinated Care Branch, Department of Health Aged Care conducted face-to-face and teleconference meetings of these groups during 2000-2001 to discuss improvements to the Australian Refined Diagnosis Related Group (AR-DRG) system. The NCCH participated in these meetings, providing advice on ICD-10-AM code assignment and other classification-related topics. The NCCH regularly liaises with CCCG members in the production of successive editions of ICD-10-AM.

<b>NCCH Executive Committee</b>			<b>Terms of Reference</b>
Peter Williams	(Chair)	<i>National Health Information Management Group</i>	<ul style="list-style-type: none"> <li>■ To oversee the function of the NCCH</li> <li>■ To report to and from represented organisations, including seeking agreement and implementation, where appropriate</li> <li>■ To receive and approve the budget on an annual basis</li> <li>■ To receive twice yearly reports from the Director on the financial status of the Centre</li> <li>■ To receive and approve the work plan on an annual basis</li> <li>■ To receive progress reports from the Director on the work of the Centre in relation to the agreed work plan</li> <li>■ To guide the Centre in achieving its goals as set out in the agreed work plan</li> <li>■ To establish policies for the Centre</li> <li>■ To review and advise on submissions from the Centre for funding</li> <li>■ To approve changes to the scope of the Centre.</li> </ul>
Brian Doyle	Regional Director	<i>Australian Bureau of Statistics</i>	
Phil Hagan	Portfolio Strategies Division	<i>Department of Health &amp; Aged Care</i>	
Peter Broadhead	Acute & Co-ordinated Care Branch	<i>Department of Health &amp; Aged Care</i>	
Steven Hann	Acute & Co-ordinated Care Branch	<i>Department of Health &amp; Aged Care</i>	
Jenny Hargreaves	Manager, Patient Morbidity & Mental Health Services Unit	<i>Australian Institute of Health &amp; Welfare</i>	
Dr Richard Madden	Director	<i>Australian Institute of Health &amp; Welfare</i>	
Prof Brian Oldenburg	Head, School of Public Health	<i>Queensland University of Technology</i>	
Joanne Callen	Head, School of Health Information Management	<i>The University of Sydney</i>	
Dr Johanna Westbrook	Head, School of Health Information Management	<i>The University of Sydney</i>	
A/Prof Rosemary Roberts	Director	<i>NCCH</i>	
Kerry Innes	Associate Director (Sydney)	<i>NCCH</i>	
Sue Walker	Associate Director (Brisbane)	<i>NCCH</i>	

<b>Advisory Committee</b>		<b>Terms of Reference</b>
<i>NSW Health, representing the National Health Information Management Group</i>	Peter Williams (Chair)	<ul style="list-style-type: none"> <li>■ To report to and from represented organisations</li> <li>■ To advise and contribute to the NCCH work plan on an annual basis</li> <li>■ To receive progress reports from the Director on the work of the NCCH in relation to the agreed work plan</li> <li>■ To advise and contribute to policies of the NCCH.</li> </ul>
<i>Army Health Benefits Society</i>	Ron Coghill	
<i>Australian Bureau of Statistics</i>	Brian Doyle	
<i>Australian Capital Territory Health</i>	Mohan Singh	
<i>Australian Health Insurance Association</i>	Peter McDonald	
<i>Australian Institute of Health &amp; Welfare</i>	Dr Richard Madden	
<i>Australian Private Hospitals Association</i>	Michael Roff	
<i>Casemix Clinical Committee of Australia</i>	A/Prof Michael Cleary	
<i>Commonwealth Department of Health &amp; Aged Care</i>	Peter Broadhead	
<i>Department of Community &amp; Health Services, Tasmania</i>	Virginia Kalma	
<i>Department of Health &amp; Aged Care</i>	Steven Hann	
<i>Department of Human Services, South Australia</i>	Lorraine Van Gemert	
<i>Department of Human Services, South Australia</i>	Tanya Drake	
<i>Department of Human Services, Victoria</i>	Irene Kearsey	
<i>Department of Human Services, Victoria</i>	Mark Gill	
<i>Family Medical Research Centre, The University of Sydney</i>	A/Prof Helena Britt	
<i>Health Department of Western Australia</i>	Dr Merran Smith	
<i>Health Information Management Association of Australia Ltd</i>	Ross Fear	
<i>Health Information Management Association of Australia Ltd</i>	Joy Smith	
<i>Health Insurance Commission</i>	Dr Andrew Parkes	
<i>Health Insurance Commission</i>	Steve Neilsen	
<i>Medibank Private</i>	Sam Kanaris	
<i>NCCH</i>	A/Prof Rosemary Roberts	
<i>NCCH (Brisbane)</i>	Sue Walker	
<i>NCCH (Sydney)</i>	Kerry Innes	
<i>Queensland Health</i>	Ann Hay	
<i>Queensland Health</i>	Sue Cornes	
<i>Queensland University of Technology</i>	Prof Brian Oldenburg	
<i>School of Health Information Management, The University of Sydney</i>	Joanne Callen	
<i>Territory Health Services, Northern Territory</i>	Janine Cassidy	

## Coding Standards Advisory Committee

The Coding Standards Advisory Committee (CSAC), which has membership from all states and territories, Health Information Management Association Ltd, private sector, Clinical Coders' Society of Australia and the Department of Health and Aged Care, met quarterly in 2000-2001. The members of this committee evaluated approximately 120 proposals for changes to ICD-10-AM during the year. The committee also advises the NCCH on other classification-related issues such as coder education and data quality.

NCCH	A/Prof Rosemary Roberts (Chair)
<i>Australian Capital Territory</i>	Dianne Hoskings
<i>Australian Institute of Health &amp; Welfare</i>	Jenny Hargreaves
<i>Casemix Clinical Committee of Australia</i>	Dr Lynette Lee
<i>Clinical Coders' Society of Australia</i>	Andrea Groom
<i>Commonwealth Department of Health &amp; Aged Care</i>	Katrina Chisholm
<i>Commonwealth Department of Health &amp; Aged Care</i>	Stuart McAlister
<i>Health Information Management Association of Australia Ltd</i>	Carmel Cheney
<i>Health Information Management Association of Australia Ltd</i>	Toni Patterson
NCCH	Kerry Innes
NCCH	Sue Walker
NCCH	Sheree Gray
<i>New South Wales</i>	Joanne Chicco
<i>New Zealand</i>	Christine Thorpe
<i>Northern Territory</i>	Jillian Burgoyne
<i>Private Sector Victoria</i>	Kay Bonello
<i>Queensland</i>	Ann Hay
<i>Queensland Health</i>	Meegan Snell
<i>SA Department of Health &amp; Human Services</i>	Rhonda Pfeiffer
<i>South Australia</i>	Tanya Drake
<i>Tasmania</i>	Karen Hinton
<i>Victoria</i>	Irene Kearsey
<i>WA Health Department</i>	Sue Stevens
<i>Western Australia</i>	Brian Stanley

## Terms of Reference

Updated May 2001

- Advise the NCCH on the implementation and publication of new and amended ICD-10-AM codes and Australian Coding Standards.
- Advise the NCCH on activities and products relating to coding and coding quality measures.
- Report to and from organisations/jurisdictions represented on this committee.
- Ensure that standards of definition and convention are maintained when ratifying changes to ICD-10-AM and the Australian Coding Standards.
- Review public submissions for changes to ICD-10-AM.
- Receive feedback from users of coded data on the impact of standards and codes on current data collections.
- Ratify coding advice from the NCCH prior to publication in Coding Matters.
- Recommend to Health future changes to the Australian Refined – Diagnosis Related Groups classification system as they relate to coding.
- Recommend to National Health Information Management Group the national adoption of ICD-10-AM modifications on a biennial basis.
- Provide input to relevant authorities on morbidity and mortality coding related issues such as data edits, coding quality measurement, design of data collection systems.
- Provide coding advice to the National Health Data Committee on definitions relating to relevant classification items in the National Health Data Dictionary.
- Provide advice to NCCH and the Australian Bureau of Statistics on the relationship between Australian Coding Standards for morbidity coding and rules for cause of death coding.
- Provide advice on other relevant health classification systems.

## Representation

NCCH provided representatives to a number of committees. NCCH is represented on:

- Australian Council for Safety and Quality in Health Care Data and Information Working Group
- Australian Hospital Statistics Advisory Committee
- National Health Information Management Group Expert Group on Health Classification
- Casemix Clinical Committee of Australia
- Clinical Coders' Society of Australia
- Health Information Management Association of Australia Ltd
- Health Information Management Association of Australia Ltd (NSW Branch) Mentor Program
- *Health Information Management: the Journal of the HIMAA*, Editorial Board
- International Federation of Health Records Organizations Education Committee
- International Federation of Health Records Organizations Grand Council
- International Organization for Standardization TC 215 WG3
- Medicines Coding Council of Australia
- National Health Data Committee
- Outpatient Information Strategy Reference Group (NSW Health)

- Royal Australasian College of Surgeons, Australian Safety and Efficacy Register of New Interventional Procedures – Surgical
- Standards Australia IT/14 Subcommittee 2 Health Concept Representation
- University of Sydney, School of Health Information Management External Advisory Committee
- World Health Organization Mortality Reference Group
- World Health Organization Update Reference Committee

## Coding Educators Network (CEN)

The Coding Educators Network includes representatives from all Australian states and territories, and New Zealand. Members of the CEN assist delivery of education and training for clinical coders throughout Australia. The Quality and Education Division of the NCCH provides train-the-trainer sessions to transfer information and skills to the CEN members. The membership of the Coding Educators Network provides a wide reach in the coding community to ensure that essential training is available in all areas.

### Australian Capital Territory

Vicki Bennett

### New South Wales

Linda Best

Megan Cumerlato  
Sandra Fletcher  
Marlene Garriock  
Nerida Stevens  
Filippa Pretty  
Julie Rust

### Victoria

Pauline Basilio  
Andrea Groom  
Kylie Holcombe  
Nicolle Parrent  
Catherine Perry  
Jennie Shephard

### Tasmania

Gayle Smith

### South Australia

Lesley Ward  
Chris Robey

### Western Australia

Sheree Gray  
Joan Knights

### Queensland

Debbie Abbott  
Kerri Chalmers  
Sharon Wiseman

### Northern Territory

Jillian Burgoyne

### New Zealand

Barbara Arundell  
Sallyanne Wissmann

## Conference Papers and Presentations

Donna Truran, Gay Lysenko and Kerry Innes. *Innovative approaches to coding quality assessment*. 12th Casemix Conference, Cairns, August, 2000.

Julie Rust, Kerry Innes and Rosemary Roberts. *Reforming procedure complication coding*. 12th Casemix Conference, Cairns, August, 2000.

Rosemary Roberts. *Using and managing national administrative data: a clinical classification perspective*. National Health Online Summit, Adelaide, September, 2000.

Caroline Stahl, Donna Truran, Sue Walker, Kerry Innes, Rosemary Roberts and Michael Schöpen. *Electronic maintenance of clinical classifications: two approaches*. 8th Health Informatics Conference, Adelaide, September, 2000.

Rosemary Roberts and Sue Walker. *Keeping the classification current: International procedures for updating ICD-10*. 13th International Federation of Health Record Organizations Congress, Melbourne, October, 2000.

Donna Truran, Chantel Garrett, Rosemary Roberts and Erich Schulz. *Getting the most from ICD-10-AM: Relational databases, clinical terminologies and thesauri*. 13th International Federation of Health Record Organisations, Melbourne, October, 2000.

Kerry Innes, Karen Peasley, Donna Truran and Rosemary Roberts. *The Australian Way: A report on the development, implementation and maintenance of ICD-10-AM*. 13th International Federation of Health Record Organisations, Melbourne, October, 2000.

Lai Mun Balnave, Gay Lysenko and Irene Kearsey. *PICQ and ACBA: Fuelling the acceleration toward quality*. 13th International Federation of Health Record Organisations Congress, Melbourne, October, 2000.

Rosemary Roberts, Kerry Innes, Sue Walker and Julie Rust. *Modifying ICD-10-AM external cause codes to improve adverse event reporting*. World Health Organization, Heads of Collaborating Centres Meeting, Rio de Janeiro, October, 2000.

Lai Mun Balnave, Donna Truran, Colin Spowart, Megan Cumerlato, Kerry Innes and Rosemary Roberts. *Quality information: A prerequisite for good decision making*. World Health Organization, Heads of Collaborating Centres Meeting, Rio de Janeiro, October, 2000.

Rosemary Roberts and Kerry Innes. *International classification of health interventions*. World Health Organization, Heads of Collaborating Centres Meeting, Rio de Janeiro, October, 2000.

Rosemary Roberts. *Exploring clinical terminologies and classifications: obstacles or oases in e-health?* Health Informatics Association of NSW, Pokolbin, February, 2001.

Donna Truran, Jane Kookarkin, Kerry Innes, Michelle Bramley and Patricia Saad. *A report on the early parenting classification project*. 7th Biennial Conference of the National Centre for Classification in Health, Sydney, April, 2001.

Karen Peasley and Jessica Lightfoot. *A report on the National Coroners Information System (NCIS)*. 7th Biennial Conference of the National Centre for Classification in Health, Sydney, April, 2001.

Dr Coll Fisher and Sheree Gray. *Obstetrics clinical Update*. 7th Biennial Conference of the National Centre for Classification in Health, Sydney, April, 2001.

Peng Bi and Sue Walker (2001) *Mortality trends for deaths related to excessive heat (E900) and excessive cold (E901), Australia, 1910-1997*. *Environmental Health*, 1(2):80-86

Ian England, Don Stewart and Sue Walker (2000) *Information technology adoption in health care: When organisations and technology collide*. *Australian Health Review*, 23(3):176-185

Sue Walker and Candy Longmire (2000) *Developments in education in health information management in south east Asia*, 13th International Health Records Congress Melbourne: 2-6 October 2000

# PRODUCE AND 3. PROVIDE

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**This initiative is concerned with the production and provision of products and services to our clients.**

**During 2000-2001 we continued to provide a variety of training and education services, publications and products that support the use of ICD-10-AM and assist with coding and data quality assurance.**

## **Casemix**

NCCH has continued to work closely with its major funder, the Acute and Co-ordinated Care Branch of the Commonwealth Department of Health and Aged Care, and with clinicians, on coding issues in the refinement of the Australian casemix classification.

The series of 21 specialty books *Casemix, DRGs and clinical coding*, was completed during the year and is now provided in both electronic and print formats.

## **Education**

NCCH, in conjunction with the Clinical Coders' Society of Australia, hosted a highly successful two-day conference in Sydney in April 2001. The theme, *the Language of Health*, reflected our commitment to making health classifications relevant to clinicians and the way they communicate with patients. This was the seventh conference held by the Centre and the tradition of mixing international with local presentations provided a stimulating atmosphere for the 256 participants.

A special guest lecture was conducted at the conclusion of the conference by visiting keynote speaker, Dr Christopher Chute, from the Mayo Clinic, Rochester, Minnesota. Dr Chute's presentation addressed medical concept representation, clinical information retrieval and patient data repositories.

Other education activities included workshops in Australia and New Zealand on implementation of classifications or new NCCH products.

A two-day workshop for 22 participants in Wellington, New Zealand in February 2001 reviewed ICD-10-AM Second Edition revisions for coders preparing to implement the classification.

A three-day workshop for 53 participants in Adelaide, South Australia in June 2001 provided an overview of *Performance Indicators for Coding Quality (PICQ)* and *Australian Benchmark for Coding Quality (ACBA)* and how they can be implemented in workplaces.



*Medical terminology course participants and officials, Kingdom of Tonga*

Several NCCH staff members provided guest lectures to health information management students as part of their degree courses. Donna Truran lectured third year students enrolled in the Bachelor of Applied Science (Health Information Management) course at the University of Sydney. This two-hour guest lecture acquainted students with PICQ and ACBA products and the role of quality in HIM responsibilities in the workforce. Donna was also a guest lecturer for the Master of Health Science (Health Informatics) students (University of Sydney) where she provided an overview of the collaborative NCCH-UMLS project, the relationships between terminologies and classifications and the use of medical thesauri and search engines.

Michelle Bramley lectured postgraduate students enrolled in the Master of Health Science (Health Informatics) course at the University of Sydney. The lecture covered clinical terminologies and mapping. Michelle described traditional classifications used in health and the new concept-based terminologies developed specifically for an electronic environment. She also explained how classifications and terminologies could be related through mapping and the advantages/disadvantages of this approach.

Jenny Seems brought her international perspective to the Masters students when she gave a short talk about the UK classification, Read Codes, which were originally devised by Dr James Read. The classification is now called Clinical Terms Version 3 (CTV3) and is licensed to the National Health Service.

This year members of the International Coder Educators Network (CEN International) assisted the staff of the NCCH to conduct international training courses. The first of these was a health information systems program run in the Kingdom of Tonga, with funding provided by AusAID. Sue Walker conducted this course with the assistance of Debbie Abbott, a member of CEN International. Over 70 students, drawn largely from the Ministry of Health and the main hospitals in the Kingdom, participated in the training which encompassed medical terminology, introduction to ICD-10 coding and a two day course for clinicians relating to documentation practices and standards.

The second course was a quality assurance workshop run in Brisbane for participants from Thailand and Sri Lanka. The WHO South East Asia Regional Adviser on Evidence for Health Policy, Dr Myint Htwe, also attended this program. Andrea Groom, another member of CEN International, conducted the training course with assistance from NCCH staff.



*l-r: Garry Waller, Peter Scott and Sue Walker  
of NCCH Brisbane*



*l-r: Shilu Tong and Kirsten McKenzie  
of NCCH Brisbane*

NCCH, in collaboration with the Queensland University of Technology Faculty of Health, has continued its distance education for clinical coders in Singapore. Students are currently studying medical terminology, introductory clinical classification and advanced clinical classification. The first students are due to complete all three units in July 2001.

### **Quality**

NCCH has launched two electronic products that allow measurement of coding quality. *Performance Indicators for Coding Quality* (PICQ) is designed to measure compliance of coded data sets with Australian Coding Standards. The second product is an electronic version of the *Australian Coding Benchmark Audit* (ACBA), a coding audit which standardises audit methodology and analysis and results reporting. The electronic version of ACBA enables matching of original with recoded results and assists in analysis and expression of differences.

A revised and updated edition of the manual, paper-based ACBA audit methodology was also developed. This replaces the first edition of ACBA (1998) and brings the audit error category reporting into line with the newly developed electronic ACBA tool. This product is especially designed for small medical facilities where the volume of cases and medical records is low, or where computing facilities are limited.

Several Australian states have purchased state-wide licences for the use of PICQ and ACBA and are beginning to implement co-ordinated approaches to regular quality audits of their morbidity data. NCCH Quality and Education Division is providing support for PICQ and ACBA users and working closely with state health departments to provide user training for PICQ and ACBA.

### **Quality project for Monash University National Centre for Coronial Information**

A secondment agreement has been established between NCCH and the Monash University National Centre for Coronial Information (MUNCCI). Karen Peasley is currently holding the position of MUNCCI quality assurance officer as well as carrying out her usual role as Manager, NCCH Quality and Education Division.

### **Queensland Trauma Registry**

In March 2001, NCCH Brisbane signed a secondment agreement with the Queensland Trauma Registry, located at the University of Queensland. This agreement provides for the employment of a Quality Assurance and Training Officer, working four days per week at the Trauma Registry and one day at NCCH on projects relating to injury and external cause classifications. Peter Harkness was employed in this position in June 2001.

## PRODUCTS AND PUBLICATIONS



### ICD-10-AM

The National Centre for Classification in Health produces biennial revisions to the classification under contract from the Commonwealth Department of Health and Aged Care. The process of producing new editions is consultative. Coded data users, clinicians and clinical coders are consulted through several review mechanisms.

ICD-10-AM Third Edition is due to be released in February 2002, and is anticipated to be implemented in July 2002. The classification is produced in several formats:

- five volume book set
- ASCII files
- a Microsoft Access database
- and for the first time, as an electronic browser.

### ICD-10-AM Second Edition Browser

The ICD-10-AM Second Edition Browser was launched in August 2000. The browser is a stand-alone, linked and searchable electronic document.

Users navigate the classification using the windows-like tree hierarchy. It also features an export facility that enables text to be exported to word processing software while retaining the style and format of the publication.

### Errata

The classification is supported by periodic publication of errata. The errata are compiled by the Classification Support Division, and are ratified by the Coding Standards Advisory Committee before being published. Errata are circulated with the NCCH's newsletter, *Coding Matters*, and are available at the NCCH web site. During 2000–2001, three errata listings for ICD-10-AM Second Edition were published:

- ICD-10-AM Second Edition Errata 2
- ICD-10-AM Second Edition Errata 3
- ICD-10-AM Second Edition Errata 4

### Coding queries

Results of selected coding queries continued to be published at the NCCH web site.

ICD-10-AM Coding Queries online (<http://www.cchs.usyd.edu.au/ncch/>)

## QUALITY TOOLS



### **Performance Indicators for Coding Quality (PICQ) 2000™**

PICQ is a landmark product for the NCCH. PICQ is an electronic tool which provides a set of predetermined performance indicators which identify coding variation in a defined dataset.

The indicators are designed to provide measures of coding quality. Coding indicators identify presence or absence of codes, combinations of codes, code sequencing and code specificity variations. Indicators are expressed in a standard format so outcomes can be compared across facilities and over time. When identified, causes of coding variation can then be investigated and corrective actions implemented, leading to improved quality in the dataset.

PICQ has been readily adopted by clinicians, clinical coders, educators, health services administrators, data managers and other users of coded data.

During the trial phase, one PICQ user was moved to comment:

*The PICQ program is excellent. It is comprehensive and produced a more sophisticated and time-efficient result than our previous analysis.*



### **Australian Coding Benchmark Audit (ACBA) 2000™**

ACBA is an electronic tool that provides a mechanism to assess the quality of coded data.

ACBA automates coding audit methods through a process of re-coding samples of hospital-admitted patient episodes and uniformly recording results.

ACBA identifies errors in coding practice and indicates the causes of errors as either system or coder errors. The ACBA tool has also been designed to allow comparison of data across facilities and over time. Results from ACBA analysis can be extrapolated to casemix environments.

ACBA users have an option to notify NCCH of audit results. These reports will form the basis of national benchmark data.

ACBA users are being supported by the Quality and Education Division to provide assistance including collation of a FAQ (frequently asked questions) web page, optional customised education programs and a coding and audit consultancy service. At this early stage, feedback from ACBA users indicates that this will be a widely used tool that will enhance the quality of morbidity data.



### **Australian Coding Benchmark Audit (ACBA) Second Edition (manual version)**

ACBA Second Edition (manual version) features improved error categories.

The paper-based ACBA Second Edition has the same logic as the electronic ACBA. It includes added features such as screens for entering codes and graphs to provide clear presentation of statistics. Importantly, any edition of ICD-10-AM can be used with the ACBA manual version product.

### ***Coding Matters* NCCH newsletter**

In early 2001, *Coding Matters* subscriptions were reconfirmed and consequently, the hard copy circulation was reduced from 4000 to 1500. In contrast, subscriptions to receive the e-mail version of *Coding Matters* grew steadily. The NCCH has continued to supply schools of health information management with copies for use as student resources. *Coding Matters* is archived at the NCCH web site (<http://www.cchs.usyd.edu.au/ncch/>) and is linked to the coding queries database.

*Coding Matters* was produced quarterly in 2000–2001:

Volume 7, number 2, September 2000

Volume 7, number 3, December 2000

Volume 7, number 4, March 2000

Volume 8, number 1, June 2001

### **Specialty book series**

*The Casemix, DRGs and clinical coding* series, produced with funding from the Australian Casemix Clinical Committee (ACCC), was finalised in 2001.

The series has also been produced in electronic format. In 2000-2001, three revised editions and seven new books were added to the series, bringing the total number of books in the series to 21. A cumulative index of topics for the series has also been produced.

In response to an expression of interest from the NSW Department of Health, the series has been produced as Adobe PDF (Portable Document Format) files. The NSW Department of health has installed the files on its intranet for use by staff and key stakeholders. Other Australian health authorities have also taken up this option. Subsequently, a compilation of all titles was produced on CD-ROM for general sale.



Publications Division Staff  
l-r: Rodney Bernard and Elizabeth Azel

Titles published in 2000–2001 are:

- Ear, Nose, Mouth and Throat
- Immunology, Rheumatology and Infectious Diseases
- Nephrology and Urology
- Dermatology and Plastic Surgery
- Oncology and Haematology (Revised)
- Ophthalmology
- Neonatology and Paediatrics
- Obstetrics and Gynaecology
- Respiratory Medicine (Revised)
- Cardiovascular Medicine and Surgery (Revised)
- Series Cumulative Index

### Conference publications

NCCH 7th Biennial Conference Proceedings was published on CD-ROM. A suite of promotional, information and delegate resources was also produced.

### Promotional merchandise

Coding Matters index and binder was produced for sale. A display system was designed and produced for use at conferences and seminars. Several new brochures, flyers and other promotional items were also produced.

### NCCH on the World Wide Web

<http://www.cchs.usyd.edu.au/ncch/>

The NCCH has maintained its presence on the World Wide Web. Features have been maintained and enhanced to make searching and down loading files fast and simple.

### Distribution

NCCH continued its partnership with the Commonwealth Department of Health and Aged Care to distribute the *Australian Refined Diagnosis Related Groups Definitions Manuals (AR-DRG)*. AR-DRG version 4.2 – *Definitions Manual* was released in early 2001.

### AR-DRGs for Germany

There has been a significant increase in sales of Australian Refined Diagnosis Related Groups manuals from a decision by the Federal Republic of Germany to adopt AR-DRGs. Following an international review of casemix-based funding systems, DRG variations and classifications, the German government has endorsed a recommendation to implement AR-DRGs from 2003. The German government's decision has created interest from several other European countries to investigate adoption of Australian health classification expertise and products.

# 4. PROMOTE



*Shannon Watts presents a plaque to Moses Lee, Permanent Secretary of Health, Singapore, in commemoration of the MoU*

**The fourth strategic initiative concerns promotion of NCCH products, services, skills and expertise. Substantial achievements have been made in promoting the Centre through involvement with national and international health information organisations, and participation in professional and academic forums. In addition to these core functions, a number of other activities have contributed to these successes.**

## **International collaboration**

The Classification Support and Development Division staff responds to queries from around the world in relation to ICD classification. Notably in 2000-2001, a number of queries about ICD-10-AM have emanated from Germany where a commitment to implement AR-DRGs in 2003 has been made. NCCH Sydney staff have also participated in presentations to delegations from Germany as they prepare for the introduction of AR-DRGs.

The CSDD staff also liaise with colleagues from North America in the development of ICD-10-CM (USA) and the Canadian ICD-10 modification, ICD-10-CA. Thailand has also consulted NCCH in the development of the Thai ICD-10 modification, ICD-10-TM.

## **PICQ for Singapore**

In early 2001, the NCCH developed a version of *Performance Indicators for Coding Quality (PICQ)* based on ICD-9-CM for the Ministry of Health, the Republic of Singapore. A training course on PICQ implementation was conducted in Singapore for 30 people in May 2001 by a team from the NCCH including Shannon Watts and Nicole Schmidt, who were assisted by Andrew Brion, a consultant from OR Systems.

## **Memorandum of Understanding: NCCH and the Ministry of Health, Singapore**

A Memorandum of Understanding (MoU) between the NCCH, The University of Sydney, Queensland University of Technology and the Ministry of Health of the Republic of Singapore was signed in May 2001.

The MoU recognises the aim of the Ministry to develop best practice in relation to clinical coding, health classification and casemix in Singapore. The NCCH has been recognised by the Ministry as an organisation with demonstrated expertise in these areas and will provide education, training and consultative services to the Ministry under the agreement.



*CAP Delegation in Washington, DC*  
l-r: Elizabeth Moss, Rosemary Roberts,  
Cathy Jubb, Don Walker, Peter MacIsaac,  
Ric Marshall and Geoff Sims

### **SNOMED CT delegation**

In August 2000, the *Report of the General Practice Coding Jury* recommended that ICD-10-AM, with added general practice terms, be adopted as the coding system to be used in Australian general practice for the next five years. The report also recommended that Australia should become involved in SNOMED CT developments. SNOMED CT (*Systematized Nomenclature of Medicine Clinical Terms*) has been promoted internationally as a multi-language terminology resource.

To investigate Australian participation in SNOMED CT developments, a delegation supported by the Commonwealth Department of Health and Aged Care (DHAC) visited the College of American Pathologists (CAP) in Chicago in June 2001. The group was led by Senior Medical Adviser Dr Peter MacIsaac (DHAC) and included NCCH Director Associate Professor Rosemary Roberts, Cathy Jubb and Elizabeth Moss (DHAC), Geoff Sims (Australian Institute of Health and Welfare), Dr Ric Marshall (National Health Information Management Group and Victorian Department of Human Services) and Dr Don Walker (medical informatics consultant, South Australia).

The delegation received detailed explanations of the structure of the terminology for both input and output from the SNOMED CT developers at CAP. Technical issues relating to the terminology's structure, which is multi-hierarchical and has an average of 10 levels of hierarchy per concept, were also investigated. Tools to hold SNOMED CT and other terminologies to which it is, or might be mapped, were discussed.

### **National initiatives**

One of the structural changes during the year was the merger of the Quality and Education Division which is now located at La Trobe University in Melbourne. This reflects the NCCH policy of connecting measurement of coding quality with problem based education of clinical coders. Identification of problem areas also helps to improve the classification itself and the Australian Coding Standards that guide coders in application of the classification.



*Quality and Education Division Staff  
l-r: Shannon Watts, Karen Peasley  
and Irene Kearsey*



*l-r: Suzanne Bakken, Rosemary Roberts,  
Kerry Innes, Diane Aschman, Christopher Chute,  
Sue Walker and Donna Truran  
at the NCCH 2001 Conference*



*Nicole Schmidt (right) demonstrates PICQ  
at the NCCH Conference, April 2001*

The Quality and Education Division is actively promoting PICQ and ACBA products, the role of auditing in data quality and compliance and in providing skilled auditors to conduct coding audits on demand.

The biennial NCCH conference held in Sydney also provided an opportunity to promote NCCH products and services, as well as to promote our diversifying interests in classifications and terminologies. For the first time, the NCCH conference exposed the health information industry and our major clients in the coding workforce to esteemed international speakers who are working at the forefront of terminology development. The theme for the conference was 'the language of health' which provided an opportunity for our clients to expand their horizons, and their understanding of what their future careers might hold.



*Rosemary Roberts (l) with award recipients  
l-r: Elaine Le, Asher Livingston  
and Jennifer Stevenson*



*Sue Walker (right) congratulates  
award recipient Taryn Loimaranta*

### **NCCH Coding Prize**

The NCCH Coding Prize is awarded for high achievement in clinical coding to highlight the importance of studies in this area and to encourage the aim for excellence. It is a way of promoting both the NCCH and the health information profession among university students and new graduates.

■ Taryn Loimaranta

School of Public Health, Queensland  
University of Technology  
(Bachelor of Health Science, Health  
Information Management)

■ Elaine Le

School of Health Information  
Management, The University of Sydney  
(Bachelor of Applied Science, Health  
Information Management)

■ Asher Livingston

School of Health Information  
Management, The University of Sydney  
(Bachelor of Applied Science, Health  
Information Management)

■ Jennifer Stevenson

School of Health Information  
Management, The University of Sydney  
(Bachelor of Applied Science,  
Health Information Management)

■ Susan Wood

School of Public Health, La Trobe  
University (Bachelor of Health  
Information Management)

■ Natalie Galbraith

School of Public Health,  
Curtin University of Technology  
(Bachelor of Health Science, Health  
Information Management)

■ Carolyn Haggerty

School of Public Health,  
Curtin University of Technology  
(Bachelor of Health Science, Health  
Information Management)

■ Judith Hall

Health Information Management  
Association of Australia Ltd  
(HIMAA Distance Education Program)

# 5. PEOPLE

**Our strategic plan would not be achievable without the dedicated efforts of NCCH staff.**

**This important initiative sets out objectives for increasing the skills and experience of the NCCH staff members, and in gaining additional and diverse skills through employing new staff members.**

The organisational chart (page 39) shows the present structure of the NCCH and the table of staff members (pages 40–41) details the skills, experience and responsibilities of each of our employees.

During 2000-2001, several people joined the NCCH and they are:

## **Shannon Watts**

Shannon Watts is Quality and Education Co-ordinator at the the NCCH Quality and Education Division



(La Trobe University, Melbourne).

Shannon is a qualified health information manager and has worked in a regional position in South Australia and more recently as a Health Information Management Advisor at the Department of Human Services in Victoria.

Shannon is responsible for preparing and presenting many of the NCCH's quality and education programs.

## **Colin Spowart**

Colin Spowart was appointed as Systems Manager at NCCH Sydney in December 2000. Colin brings with him 12 years IT experiences gained from commercial environments.



Colin is responsible for managing the higher-end technical aspects of products, systems, and computing requirements for NCCH.

## **Sheree Gray**

Sheree Gray has been a member of the NCCH Classification Support and Development Division (Sydney) since September 2000. Prior to relocating to Sydney, Sheree was extensively involved with clinical coding and health information management in Western Australia.



Sheree is primarily responsible for managing the ICD-10-AM database and coordination of the Classification Support Department in her role as Classification Support Coordinator.

## **Jenny Seems**

Jenny Seems commenced her role as a Project Officer at the NCCH in April 2001. Jenny was formerly a clinical coding and health records manager in the National Health Service in the United Kingdom. She is also a coding trainer and auditor. Jenny was a guest speaker at the 1997 4th NCCH conference held in Adelaide.



## **Grace Kwaan**

Grace Kwaan was appointed to NCCH (Sydney) in May 2001 as a Special Project Officer to revise and improve the procedure codes in the Medical Imaging section of ICD-10-AM. Grace's professional experience in radiography and health information management is a valuable asset in the revision and restructuring in this section of ICD-10-AM.



Grace is upgrading her Health Information Management Graduate Diploma to a Masters degree by completing an additional research component which is being undertaken at the NCCH.

**Kerri Chalmers**

Kerri Chalmers joined the NCCH Classification Support and Development Division in



March 2001. Kerri previously worked in Queensland for over ten years as a health information manager. Kerri has been a member of the Coding Educators Network since 1995.

Kerri has a particular interest in quality improvement and is applying this knowledge to a project investigating the use of *Performance Indicators for Coding Quality* (PICQ) software for the collection of Australian Council for Healthcare Standards' (ACHS) clinical indicators.

**Garry Waller**

Garry Waller commenced working at NCCH Brisbane in November 2000.



He has background experience in telecommunications, nursing and tourism and graduated as a health information manager from the Queensland University of Technology in 1997. In his current role as Senior Classification Officer, Garry's work includes classification updating, coder education and QA of mortality coding for the Australian Bureau of Statistics Cause of Death unit.

**Kirsten McKenzie**

Kirsten McKenzie began her present role at NCCH Brisbane in February 2001.



Kirsten is in the final year of her PhD in Psychology at Queensland University of Technology, having completed Honours in Psychology in 1998. She works on a part-time basis as a senior research assistant, and is primarily involved with statistical analysis of mortality data.

**Shilu Tong**

Dr Shilu Tong joined the NCCH in January 2001, as a Senior Research Fellow.



Shilu's position is shared with the Centre for Public Health Research, providing NCCH Brisbane with expertise and support in relation to research activities. Shilu has led a number of research projects in the past year, mainly relating to long term trend data relevant to Australian mortality statistics.

**Peter Scott**

Dr Peter Scott is a Brisbane general practitioner who commenced a part-time role with NCCH (Brisbane) in February 2001.



Peter is working on the development of the general practice clinical vocabulary.

**Caroline Stahl**

NCCH Brisbane hosted Caroline Stahl during a six-month internship from the University of Ulm in



Germany, where she is studying towards the award of postgraduate diploma in medical documentation and health information. Caroline's previous career was in nursing.

During her internship, Caroline worked on analysing multiple cause mortality data for the Australian Bureau of Statistics. Caroline also prepared a paper, which was presented at the 2000 WHO Heads of Collaborating Centres meeting in Rio de Janeiro, comparing the NCCH database and the German Institute for Medical Documentation and Information (DIMDI) database.

NCCH also enjoyed providing placements for a number of students who have made a contribution to our work program during their terms.



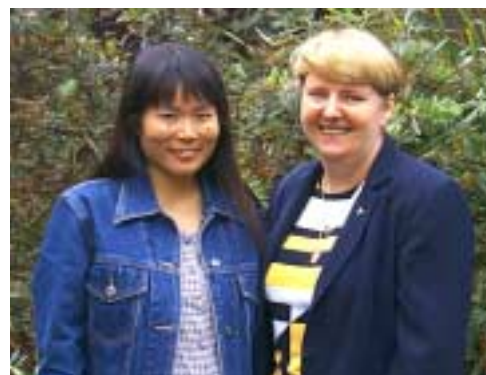
*Classification, Support and Development Division staff  
l-r: Megan Cumerlato, Sheree Gray and Julie Rust*



*Classification, Support and Development Division staff  
l-r: Grace Kwaan, Jenny Seems,  
Kerri Chalmers and Christine Erratt*



*Classification, Support and Development Division staff  
l-r: Patricia Saad, Judith Hooper and Michelle Bramley*



*Classification, Support and Development Division staff  
l-r: Tiffany Chan and Linda Best*



*IT and Research Staff  
l-r: Nicole Schmidt, Donna Truran  
and Colin Spwart*



*Associate Director and  
CSDD Manager Kerry Innes*



*Quality and Education Division  
staff member Irene Kearsy (left) with  
NCCCH Director Rosemary Roberts*



*Administration Team  
l-r: Tina Stanhope, Imelda Noti,  
Catherine Stanhope and Dana Merrin*



*Corporate Relations Officer  
Ann Jones*

### **Training Courses**

Several staff attended training courses during the year:

- *Introduction to MS Access* 2 day course attended by Linda Best and Rodney Bernard
- *Organising successful conferences* 1 day course attended by Karen Peasley
- *Budget management in the university environment* 1 day course attended by Tina Stanhope
- *Visual basic programming: an introduction* 10 weeks x 2.5hours attended by Chantel Garrett.

## Other important people

As well as our regular crew, many people who serve on our committees provide time and expertise to assist with our work program. These include clinicians, casual employees, contractors and colleagues in the Commonwealth Department of Health and Aged Care and the Australian Institute of Health and Welfare. All have made a contribution to NCCH achievements this year, with our appreciation.

**Prof Ken Bowman**, *Dean*, Faculty of Health, Queensland University of Technology

**Peter Broadhead**, *Assistant Secretary*, Acute and Co-ordinated Care Branch, Commonwealth Department of Health and Aged Care

### CCCG members

**Prof Stephen Cordner**, *Director*, Monash University National Centre for Coronial Information (MUNCCI)

**A/Prof Judith Dwyer**, School of Public Health, Faculty of Health Sciences, La Trobe University

**Prof Brett Emmerson**, *Director of Mental Health Services*, Royal Brisbane Hospital

**A/Prof Heather Gardner**, *Head*, School of Public Health, Faculty of Health Sciences, La Trobe University (to July 2000)

**Prof Vivian Lin**, *Head*, School of Public Health, Faculty of Health Sciences, La Trobe University (from August 2000)

**Prof Stephen Duckett**, *Head*, Faculty of Health Sciences, La Trobe University

**Andrea Groom**, *Health Information Management Consultant*, Victoria

**Jenny Hargreaves**, *Head*, Patient Morbidity and Services Unit, Australian Institute of Health and Welfare

**A/Prof James Harrison**, *Director*, Research Centre for Injury Studies, South Australia

**A/Prof Aleksandar Janca**, *Department of Psychiatry and Behavioural Science*, Royal Perth Hospital, Western Australia

**Prof Hal Kendig**, *Dean*, Faculty of Health Sciences, The University of Sydney

**Jessica Lightfoot**, *Project Manager*, Monash University National Centre for Coronial Information (MUNCCI)

**Dr Peter MacIsaac**, *Senior Medical Adviser*, Commonwealth Department of Health and Aged Care

**Dr Finlay Macrae**, *Consultant Physician & Gastroenterologist*, Royal Melbourne Hospital

**Dr Richard Madden**, *Director*, Australian Institute of Health and Welfare

**Jennifer Nicol**, *Lecturer*, School of Health Information Management, Queensland University of Technology

**Prof Brian Oldenburg**, *Head*, School of Public Health, Queensland University of Technology

**Prof Beth Reid**, *Chair*, School of Health Information Management, The University of Sydney

**OR Systems: George Rennie, Andrew Brion and Selvanayagam Mathiyalagan**

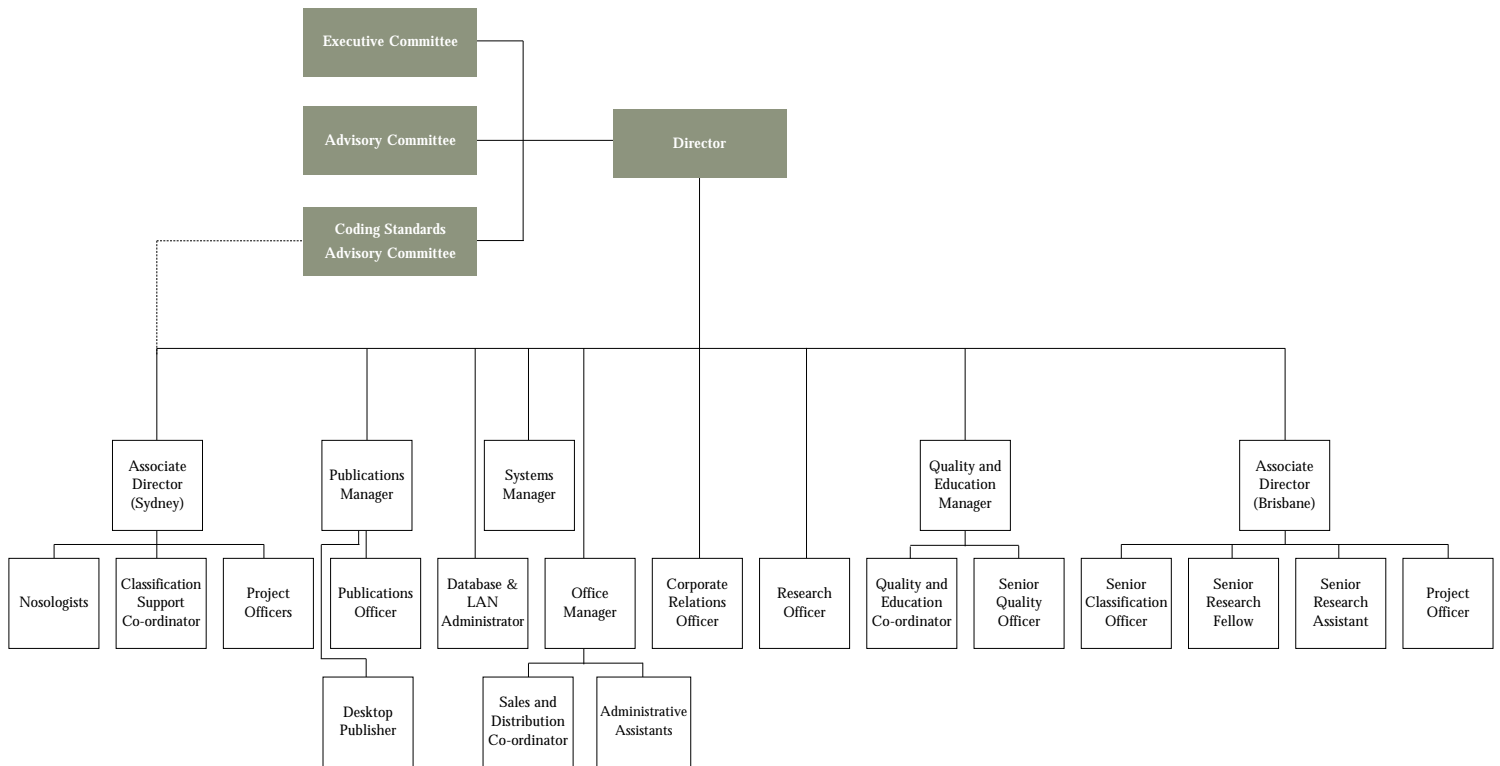
**Kerin Robinson**, *Course Co-ordinator, Bachelor of Health Information Management*, School of Public Health, La Trobe University

**Prof Bill Runciman**, *Head*, Department of Anaesthesia and Intensive Care, Royal Adelaide Hospital

**Dr Gordon Senator**, *Consultant Endocrinologist*, Queensland

**Peter Williams**, *Chair*, NCCH Executive Committee

# ORGANISATIONAL CHART



# STAFF

A/Prof Rosemary Roberts AM, BA Syd, MPH Syd, MBA *Monash*..... Director

## SYDNEY

### Administrative

Christine Erratt (to January 2001) BBus (A/g) *UTS* AssocDip (MRA) *Cumb* ..... Executive Officer  
 Ann Jones BAppSci(Information) *UTS*, *AALIA*..... Corporate Relations Officer  
 Dana Merrin (from January 2001)..... Administrative Assistant  
 Imelda Noti (from January 2001)..... Administrative Assistant  
 Nicole Schmidt AssocDegAppSci (Resource Tech) *SCU*..... Database & LAN Administrator  
 Colin Spowart (from December 2000) BBus (Computing) *UCQ*..... Systems Manager  
 Tina Stanhope..... Office Manager  
 Donna Truran BA (Psych) (Hons) *Syd*..... Research Officer

### Classification Support and Development Division

Kerry Innes AssocDip (MRA) *Cumb*..... Associate Director  
 Linda Best AssocDip (MRA) *Cumb* ..... Project Officer  
 Michelle Bramley BAppSci (HIM) *Syd*..... Nosologist  
 Francine Brownlow (to August 2000) BHlthServMgmt *CSU*..... Project Officer  
 Kerri Chalmers (from March 2001) BBusHlthAdmin *QUT*..... Project Officer  
 Tiffany Chan MOpsMgmt *UWS*, BAppSci (HIM) *Syd*..... Project Officer  
 Megan Cumerlato BAppSci (HIM) *Syd*..... Project Officer  
 Christine Erratt (from January 2001) BBus (A/g) *UTS*, AssocDip (MRA) *Cumb* ..... Project Officer  
 Sheree Gray (from September 2000) BSc (HIM) *Curtin*..... Classification Support Co-ordinator  
 Judith Hooper BAppSci (HIM) *Syd*..... Project Officer  
 Monica Komaravalli BAppSci (HIM) *Syd*..... Project Officer  
 Grace Kwaan (from May 2001) BAppSci (MRT) *Syd*, GradDip (HIM) *Syd*..... Project Officer  
 Allison Lawer (to September 2000) BAppSci (HIM) *Syd*..... Project Officer  
 Merrilyn Morris (to October 2000) BAppSci (HIM) *Syd*..... Project Officer  
 Julie Rust BAppSci (HIM) *Syd*..... Project Officer  
 Jenny Seems (from April 2001) ..... Project Officer

### Publications Division

Rodney Bernard GradDip (Design Stds) *UTS* ..... Publications Manager  
 Elizabeth Azel DipComm *Natal* ..... Desktop Publisher  
 Chantel Garrett ..... Publications Officer  
 Catherine Stanhope ..... Sales & Distribution Co-ordinator

**Quality and Education Division**

Karen Peasley AssocDip (MRA) <i>Cumb</i> .....	Quality & Education Manager
Irene Kearsey MA (Arch&Rec) <i>Monash</i> BAppSci (MRA) <i>Lincoln</i> ..... GradDip (HlthAdmin) <i>Lincoln</i>	Senior Quality Officer
Gay Lysenko (to September 2000) AssocDip (MRA) <i>Cumb</i> .....	PICQ Manager
Shannon Watts (from November 2000) BAppSci (MRA) <i>LaTrobe</i> .....	Quality & Education Co-ordinator

**Professional Relativities Study**

Richard Juckes BA (Hons) <i>Tas</i> .....	Project Manager
<i>On secondment from the Medicare Schedule Review Task Force (to January 2001)</i>	
Imelda Noti (to December 2000) .....	Administrative Assistant
Patricia Saad BAppSci (HIM) (Hons) <i>Syd</i> .....	Project Officer

**BRISBANE**

Sue Walker BAppSci (MRA) <i>Cumb</i> GradDip (Pub Hlth) <i>QUT</i> .....	Associate Director
Peng Bi (to September 2000) MBBS <i>Anhui</i> MMedSci <i>Anhui</i> PhD <i>UQ</i> .....	Research Associate
Tung Wah (Sunny) Chan MBA MPublicAdmin BSocSc (Hons) <i>Hong Kong</i> .....	PhD Fellow
Tahnee Maker (to August 2000) BBus (HIM) <i>QUT</i> .....	Senior Classification Officer
Kirsten McKenzie (from February 2001) BSocSc (Psych) (Hons) .....	Senior Research Assistant
Peter Scott (from February 2001) MBBS <i>UQ</i> BA (InfoMgmt) .....	Project Officer
Shilu Tong (from January 2001) BMed AMU MMed <i>BMU</i> PhD <i>Adelaide</i> .....	Senior Research Fellow
Garry Waller (from November 2000) BBus (HIM) <i>QUT</i> .....	Senior Classification Officer
Peter Harkness (from June 2001) BHlthServMgmt (Info) <i>CSU</i> .....	Quality Assurance & Training Officer

# 6. PROGRESS

**The sixth strategic initiative adopted by the NCCH is concerned with progressing the Centre, and its products and services, to meet the evolving demands of the health information industry. The objectives are to explore innovative ways of creating and applying health classification and terminology products, and related tools that report, measure and improve the quality of health care. Many of the projects initiated during 2000 and early 2001 are already contributing to the achievement of these objectives.**

## **ICD-10-AM Mental Health Manual**

In 2000, the Mental Health Branch of the Department of Health and Aged Care provided funds to the NCCH for the development of a national mental health classification based on ICD-10-AM.

A meeting of all stakeholders was held on 18 December 2000. The meeting recommended that the manual include diagnoses based on the *Diagnostic and management guidelines for mental disorders in primary care, ICD-10 Chapter V primary care version (ICD-10-PC)* and relevant codes from other chapters of ICD-10-AM, coding guidelines, assessment tools, a glossary and index. NCCH has also included a limited set of mental health interventions. The classification is due for completion by August 2001 with publication expected to synchronise with ICD-10-AM Third Edition (early 2002).

An education program will be undertaken during 2002 prior to expected implementation in July 2002.

## **Ambulatory developments**

The scope of the Centre has been widened following recommendations of the General Practice Coding Jury that ICD-10-AM be the standard coding system for general practice in the short term pending exploration of SNOMED CT. The balance between these short and long term plans is still being reviewed, particularly in the light of classification systems currently in use in Australian general practice and the development of an Australian Clinical Vocabulary to prepare the way for future use of terminologies in electronic health records. NCCH has been successful in its proposal to act as custodian for the Australian Community-Based Health Services Codeset which populates the Community Health Information Model. It will work with the Australian Institute of Health and Welfare in developing and maintaining this codeset.

### **Early Parenting Classification**

To address the difficulties experienced in classifying the casemix of early parenting centres over the years, the CSD and research divisions of NCCH undertook a coding study in early parenting centres during 2000–2001. The study involved coding a small selection of records from eight Early Parenting Centres in a number of states in both ICD-10-AM and an early parenting classification developed by Angela Randall from Victoria.

The study also involved the recording of diagnostic and interventional information from the medical records which provided some insight into the scope of presenting conditions and interventions undertaken in these centres. The study identified that both the Randall classification and ICD-10-AM did not cover the scope of early parenting conditions and interventions as well as one would like. The NCCH is continuing to investigate how the conditions and interventions of early parenting centres can be incorporated into ICD-10-AM and whether a purpose-built classification for early parenting is a possibility. Developments in other classifications, in particular the Australian Community-Based Health Services Codeset (an initiative of the Community Health Information Management Enterprise) will be considered in this process to ensure consistency of reporting early parenting concepts across health sectors.

### **Clinical Indicators, Australian Council on Healthcare Standards (ACHS) Project**

NCCH Sydney staff is working with the Australian Council on Healthcare Standards (ACHS) to apply *Performance Indicators for Coding Quality (PICQ)* logic to codable ACHS clinical indicators.

ACHS has recognised that an enhanced version of the PICQ software could be used to streamline clinical indicator data collection and enhance consistency between data provided by various health care organisations.

The preliminary review has indicated that there are a substantial number of indicators that rely, fully or in part, on ICD-10-AM codes or *National Health Data Dictionary (NHDD)* fields for data abstraction. Minimal enhancements were made to the PICQ software to test its application on a sample of clinical indicators, with favourable results.

Collaboration between ACHS and NCCH will continue for the future development of the clinical indicators to ensure coded data facilitates the data collection process.

## INTERNATIONAL DEVELOPMENTS

**Safety and quality in health care**

The Classification Update Forum on Adverse Events, held in November 2000, provided advice to the NCCH on how to improve adverse event coding for ICD-10-AM Third Edition. The key recommendation from this forum was the need to have a 'flag' data element within the morbidity database to indicate when a condition arises within the hospital stay. As a result, the NCCH made a proposal to the National Health Data Committee (NHDC) to introduce a new data element, 'diagnosis flag', to be included in the National Health Data Dictionary, Version 11, 2002. If accepted, this date will provide synchronicity with the implementation of ICD-10-AM Third Edition, due for release in July 2002.

**International Classification of Health Interventions**

In 2000-2001 the CSDD staff developed a short version of the ICD-10-AM procedure classification as a possible solution for countries which currently have no procedure classification.

This draft 'International Classification of Health Interventions' was discussed at the 2000 meeting of WHO Heads of Collaborating Centres for Classification of Diseases with a favourable response. The classification has been refined since that meeting with further discussion and evaluation expected at the 2001 WHO Heads of Centres meeting.

# PERFORMANCE INDICATORS

As well as specifying six major initiatives, the NCCH Strategic Plan sets out some qualitative and quantitative performance indicators which can help measure our success.

Even though the Plan describes our mission for the next five years, significant achievements have been made during 2000-2001.

Our achievements ‘at a glance’ are measured against the performance indicators shown below. Further information about the financial management and performance of the Centre is given in the following financial statements.

## 2000 – 2001 NCCH at a glance

Number of staff .....	41
Number of staff exchanges, placements .....	16
Staff development courses attended (person days) .....	9.5
Number of procedure codes in ICD-10-AM Second Edition .....	5,945
Number of disease codes in ICD-10-AM Second Edition .....	14,159
Total number of codes in ICD-10-AM Second Edition .....	20,104
Number of publications and products produced 2000-2001 .....	24
Number of publications sold .....	5,374
<i>Coding Matters</i> circulation (4 editions per annum) (average, per edition) .....	3,375
Number of people trained .....	428
Number of contributions to journals and conferences .....	14
Number of people who serve on NCCH committees .....	35
Number of organisations on which NCCH is represented .....	20
Number of projects initiated or completed .....	15
Number of visits to the NCCH web site .....	30,572
Number of coding queries received .....	134
Number of subscribers to Code-L (30-6-01) .....	662
Number of international visitors to the NCCH .....	15
Number of collaborative relationships .....	9
<b>Distances between NCCH sites</b>	
Sydney – Brisbane .....	990km
Sydney – Quality and Education Division (Melbourne) .....	872km
Brisbane – Quality and Education Division .....	1,674km

# FINANCIAL STATEMENTS

## SYDNEY

<b>INCOME</b>	<b>2000/2001</b>
Commonwealth government grants	1 476 157
State government grants	76 000
ICD sales	201 902
Other publications sales	80 665
PICQ and ACBA software sales	37 160
Other sales	477 611
Conferences, workshops and seminars	182 719
Consultancies	276 702
Interest	45 279
Other income	(128 109)

**Total income** **2 726 085**

<b>EXPENDITURE</b>	
Salaries	1 098 557
On costs	293 163
Sub-total salaries and on-costs	1 391 721
Administrative fee	315 314
Advertising	3 498
Communications	51 339
Consultants	286 582
Contractors	75 848
Education and training	17 026
Equipment and maintenance	69 262
Library	1 585
NCCH Coding Prize	1 000
Printing – ICD	28 699
Printing – other	110 595
Stores/consumables	25 437
Travel	109 975
Other expenses	127 912
Sub-total non-salaries	1 224 072

**Total expenditure** **2 615 792**

<b>SURPLUS/DEFICIT</b>	<b>110 293</b>
Accumulated surplus/Deficit B/forward	1 719 784
Accumulated Surplus/Deficit C/forward	1 830 077

**BRISBANE**

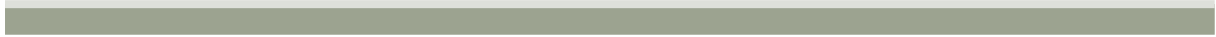
<b>INCOME</b>	<b>2000/2001</b>
Australian Bureau of Statistics	45 000
University of Sydney (DHAC funding)	93 266
Queensland Health	1 417
Australian Institute of Health & Welfare	61 254
Queensland University of Technology (QUT) School of Public Health	10 000
QUT Faculty of Health	10 000
QUT grant	20 000
QUT interest	117
Project income: Melbourne Enterprises International	43 412
Project income: World Health Organization	9 909
Project income: Ministry of Health, Singapore	5 000

**Total income** **299 375**

<b>EXPENDITURE</b>	
Salaries and on-costs	156 899
General supplies/consumables	9 419
Equipment and maintenance	2 375
Hire of facilities and services	1 652
Communications	2 479
Administration fees	41 005
Travel, allowances and accommodation	39 808
Printing and photocopying	1 029
Scholarship	17 838
Other expenses	843
Sub-total non-salaries	116 448

**Total expenditure** **273 346**

<b>SURPLUS/DEFICIT</b>	<b>26 028</b>
Accumulated surplus/Deficit B/forward	128 629
Accumulated Surplus/Deficit C/forward	154 657



Editor: **Ann Jones**

Contributing Editor: **Donna Truran**

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Printing:

Stock: **Novatech**

Fonts: **Galliard**

**Goudy**

**Zapf Humanist**

Cover photo: **Queensland Waratah**

*Alloxylon flammeum* Family: *Proteaceae*



**National Centre for  
Classification in Health**