

# **Curriculum Vitae**

**CLINICAL PROFESSOR  
STEVEN C. BOYAGES**

**8 February 2012**

**STEVEN C. BOYAGES**  
**MB BS DDU FRACP FAFPHM PhD**

Clinical Professor The University of Sydney  
 Clinical Professor University of Western Sydney  
 Director Menzies Centre for Health Research  
 Chairman Global Health Institute  
 Board Member Industry Training Advisory Board

**ACADEMIC SUMMARY**

Number of Papers: 117  
 Number of Citations: 2285  
 h-index: 26.

**PRESENT POSITION**

Chief Executive, Clinical Education and Training Institute (CETI)  
 Senior Executive Service Level 7

**IMMEDIATE PAST POSITIONS:**

**Professional Appointments**

- Chief Executive, Sydney West Area Health Service  
**Key Dimensions of the position**  
 Number of staff: 19,373  
 Gross operating budget: \$2,100 million dollars per annum  
 Value of Capital Assets: \$1,700 million dollars  
 Responsible for 12 major acute care facilities, and 30 community health centres  
 Population coverage: 1.2 million people
- Administrator, Western Sydney and Wentworth Area Health Services, July 2004-31/12/2004
- Chief Executive Officer, Western Sydney Area Health Service (WSAHS) 2002-2004
- Director, Clinical Operation, Western Sydney Area Health Service (WSAHS) 2001
- Acting Chief Health Officer NSW Health, July-August 2001
- Director, Centre for Research and Clinical Policy, NSW Health; 1999-October 2001
- Clinical Advisor to the Director General for the implementation of the Government Action Plan for Health 2000-2001
- Director, Department of Diabetes and Endocrinology
- Chairman, Western Sydney Area Diabetes Service
- Chairman, Diabetes West
- Clinical Stream Leader, Chronic and Continuing Medical Services, Western Sydney Area Health Service

**Academic Appointments**

- Clinical Associate Professor, Faculty of Medicine, University of Sydney 1995
- Part-Time Clinical Lecturer, Faculty of Health Sciences, University of Western Sydney.

## **Current and Past Honorary Appointments**

### **Current**

- Member, Medical Training and Education Council
- Member, for Chronic, Complex and Aged Care
- Member, Peak Information Management and Technology Executive Committee
- Member, Health Priority Task Force for Sustainable Access
- Senior Executive Advisory Board, NSW Health
- Member, Industrial Advisory Group, NSW Health
- Sydney West Area Health Advisory Council
- Member, Tasmanian Thyroid Advisory Committee
- Chair, Global Health Institute (GHI) Council
- Member, International Council on Flour Fortification Initiative
- Member, National Diabetes Strategy Group

### **Past Honorary Appointments**

- Ministerial Advisory Committee to review health services in Tasmania (2004)
- Member of the executive Greater Metropolitan Transition Taskforce (GMTT<sup>2</sup>)
- Chair, Cabinet Interdepartmental group for Biotechnology strategy
- Member, Cabinet Committee on the Medical Uses of Cannabis
- Member, Ministerial Advisory Committee for Biotechnology
- Member, Ministerial Advisory Committee for Quality
- Member, Ministerial Advisory Committee for Health Workforce
- Chair, States Commonwealth Research Issues Forum
- Member, National Health Priorities Action Council
- Member, Clinical Council, NSW Health
- Co-chair, Chronic and Complex Health Care Implementation Group
- Member, Metropolitan Services Implementation Group
- Member, Teaching and Research Implementation Group
- Member, Models of Care Implementation Group
- Senior Departmental Officer, Information Management Implementation Group
- Chairman, Asia-Pacific Committee, RACP (completed end 2000)
- Chairman, Statewide Health Confidentiality and Ethics Committee, NSW Health
- Chairman, Health Information Exchange Committee, DOH, NSW Health
- Council Member, Royal Australasian College of Physicians
- Member, Adult Division of Medicine, RACP (completed end 2000)
- Member, Registration Committee, NSW Medical Board
- Member, National Health Advisory Council, NHMRC (completed end 2000)
- Member, National Health Priority Action Council, Executive

### **MAJOR PRIZES**

**AIDAB Gold Award Iodine Deficiency Project, China 1988**

**Daichii Prize for scientific achievement (1997) Asia Oceania Thyroid Association, Osaka, Japan**

**Healthy Hospital Award, Patient Care, October 1998**

**DEGREES AND DIPLOMAS:**

- 1980** M.B., B.S. (HONOURS II). University Of Sydney.
- 1985** DIPLOMA OF DIAGNOSTIC ULTRASOUND (DDU).  
Australian Society of Ultrasound in Medicine.
- 1990** DOCTOR OF PHILOSOPHY. UNIVERSITY OF SYDNEY.  
"Endemic Cretinism: Definition, pathogenesis and treatment"

**HIGHER QUALIFICATIONS**

- 1986** Fellow Royal Australasian College Of Physicians (FRACP)
- 1993** Fellow Australian Faculty Of Public Health Medicine (FAFPHM).

**Career Highlights that demonstrate skills and  
attributes of the position**

## **Career Highlights that demonstrate key accountabilities skills and attributes of the position**

### **Clinical Leadership**

#### **Analytical, conceptual and problem solving skills**

1. Awarded highest academic achievement for the FRACP Part 1 examination
2. Appointed Director Department of Diabetes and Endocrinology in 1990 and during that time established an internationally recognised clinical and academic unit in the areas of diabetes, thyroid and pituitary disorders.
3. Recognised as an international authority on thyroid disease and brain development, in particular iodine deficiency disorders. These scientific activities including basic and epidemiological research over the last 20 years have led to new insights into the importance of maternal thyroid hormone for normal fetal brain development. This research has led to recommendations for iodine supplementation in many communities, including China, Indonesia, India, Italy and most recently Australia. This research is current and has led to the first ever National Iodine Nutrition Survey in Australia. This work has helped formulate views on the importance of a population health approach to endemic health conditions. I am only one of 2 Australian authors in the recently released edition of the most respected textbook of thyroidology, Thyroid. I have written over 150 research articles.
4. Epidemiological and population approaches applied to other micronutrient disorders such as folic acid deficiency. This approach includes innovative linkages with industry.
5. Designed innovative models of service delivery for diabetes and other chronic disorders. Established NSW Health Chronic Disease Strategy and negotiated with treasury for recurrent funding of \$15 million per annum.
6. Led the planning and writing for the National Service Improvement Frameworks for Diabetes and Cardiovascular Disease (2005).
7. I have supervised 12 postgraduate students
8. I have held numerous senior executive positions in academic, research, clinical and management roles.
9. I have chaired area-based, state, national and international groups to lead implementation, introduce change, develop policy, and set strategic direction.

### **Planning and Policy**

#### **Experience in diverse large scale operations**

#### **Ability to lead change management processes**

#### **Outstanding leadership qualities**

#### **Management skills to lead a large division**

10. Established the first area wide integrated diabetes service structure in Australia. This required high level communication skills with General Practitioners, Aboriginal Medical Services, Nursing Services and Allied Health as well as service providers to achieve this objective. This platform was then successful in the establishment of the DiabetesWest project, funded jointly by the Commonwealth and State health departments. I have assisted ACT Health in the formulation, implementation and monitoring of their integrated Diabetes services. I have been asked by SA Health to assist in the development of integrated clinical services.

11. Formulated and assisted in the introduction of area wide clinical streams in Western Sydney. This process took 2 years of difficult negotiation with clinicians and other stakeholders. Subsequently, I have been involved in further organisational reform at Western Sydney as well as acting as a resource person to other AHS. I have recently presented to Mid North Coast AHS on the principles of clinical streaming. I have also provided advice to WA Health on clinical services streaming and integration.

12. Appointed as the first clinical stream leader for chronic and complex health care in Australia. Established area wide coordination structures and integrated 8 clinical services area wide. Developed principles of chronic disease management that have now been progressed into the statewide strategy. I had tactical responsibility for 108 clinical staff in the stream.

13. Conceptualized, designed, facilitated the development of the \$45 million chronic and complex care strategy for NSW Health.

### **Wide knowledge of contemporary international trends in health care**

14. The scope and importance of these activities has been recognised internationally. I was invited as a keynote speaker to the International Forum on Diabetes Outcomes Research (IFDOR) and remain as a key advisor to the forum.

15. I had chaired the implementation committee of a major AUSAID project for services in PNG, MONAHP.

16. Appointed member Rural Clinical School of the University of Sydney. In this position I had formulated strategy for the clinical development of the clinical school at Broken Hill. I have spent several weeks in the Far West Area Health Service liaising with clinicians, aboriginal medical service, public health unit and management to develop strategies to improve education and teaching, research and chronic disease management.

17. Invited speakers to numerous forums, national and international on a wide range of health policy matters, in particular health services research, information technology, health technology, chronic and complex health care systems.

### **Wide Experience in Policy Development & Service Planning Processes**

18. Appointed medical stream leader for the structural efficiency principle (SEP) NSW Health (1990). Negotiated with industrial organisations, area health services and clinicians to achieve implementation strategy.

19. Appointed Chairman of the NSW Committee of College Chairmen. As Chairman liaised with NSW Health and ministers

20. Elected Chairman NSW State Committee RACP

21. Elected Council and Adult Division Member, RACP

22. Appointed, Health Advisory Committee, NHMRC

23. Appointed Priority Setting Committee, SRDC of NHMRC

24. In these positions I have worked actively with Commonwealth and State Health Departments on a range of policy and service planning issues. For example, in the areas of mental health, aboriginal health, complementary medicine, pressure ulcer prevention, quality and patient safety, anabolic steroid abuse, infectious disease management guidelines, diabetes, cardiovascular disease, asthma and the general development of guidelines through NHMRC. I have also been actively involved in the process of priority setting for health services research.

25. Established State Commonwealth Research Issues Forum (SCRIF), a key subcommittee of AHMAC responsible for Priority Driven Research Program. As chair of SCRIF I successfully negotiated and secured funding for PDR (\$15 million dollars).

**Detailed knowledge of the Australian and New South Wales Health Systems  
Knowledge of the structure and process in Australia and New South Wales.**

26. As Director, for the Centre of Research and Clinical Policy I have had detailed exposure and first hand knowledge of the workings of the various health systems of Australia and of the government processes. During this position I had also completed the Australian and New Zealand Health Leadership Program that allowed me to develop local contacts in each state and the Commonwealth, as well as observing directly the successes and short comings of respective health care systems. I sit on senior state health committees as well as senior national health committees.

27. As Director of CRCP I had extensive involvement in the policy setting and implementation of strategies related to education and training, research and development and clinical service development.

**Active teacher and postgraduate supervisor**

28. Despite limited time due to the heavy demands of the administrative role as CE, I continue to actively teach. I contribute to endocrine teaching at the Western Clinical School as well as postgraduate teaching to registrars. I continue to undertake regular teaching sessions for General Practitioners at least once per month.

29. I continue to supervise PhD students in the research domains of diabetes and cytochrome P450 polymorphism.

30. Strong advocate for education, teaching and Research within the AHS and a state level. Member of the Medical Training and Education Council.



### **Key Outputs in the last 8 yrs as CEO of Western Sydney Area Health Service and CE of Sydney West Area Health Service**

- successfully managed the transition from 2 area health services into a new larger AHS.
- Developed a new organisational structure that promotes clinical networking
- promoted a patient centred organisational structure for Western Sydney that divides the organisation into 17 clinical streams rather than hospital based structures
- enhanced linkage with General Practice and Primary Care
- promoted the development of research and established new research centres, eg Centre for Research into Adolescent Health (CRASH), the Diversity Health Institute (DHI), and HealthCITE (Health Centre for IT Excellence)
- established an education stream
- created a Directorate for Clinical Systems and Quality
- developed a robust set of board indicators for quality
- developing a set of KPIs for all clinical streams
- established effective communication systems for all staff
- maintained excellent financial performance indicators
- achieved all key objectives of performance contract
- spearheaded major innovations in Health IT infrastructure, hardware and applications
- Developed state and national systems for business intelligence tools
- Over sighted major capital works across all major facilities
- Developed new models of care such as OPERA, SARA, MAU

## **Key Outputs in the 2 years as Director Centre for Research and Clinical Policy, NSW Health**

### **Research**

- Doubled the research infrastructure budget to \$18.5 million per year
- Increased the research moiety to 65c in the dollar for stream 1 institutes
- Negotiated with key stakeholders for the development of research clusters and hubs
- Developed a framework for funding capital development for research institutes
- Established a health sector specific Intellectual Property Unit in NSW Health, IP health.
- Established the States/Commonwealth Research Issues Forum (SCRIF)
- Negotiated with the Commonwealth to appoint SCRIF as the management board for priority driven research
- Developed mechanisms to determine priorities for PDR funding
- Activated the NSW Cabinet subcommittee on biotechnology
- Led the Cabinet interdepartmental group to develop the biotechnology strategy, **BioFirst** for the state of NSW.
- Implemented Round 2 of Streams 1,2,& 3 for Infrastructure funding for Research and Development
- Chaired and streamlined procedures for the State Health Confidentiality & Ethics Committee.

### **Medical Education and Training**

- Developed the Vocational Training Framework for medical workforce
- Established the Medical Training and Education Council
- Negotiated with key colleges the implementation of changes to medical training structures
- Facilitated implementation and change workshops for the establishment of MTEC
- Worked with the commonwealth to facilitate new concepts of medical education and training
- Worked with the Commonwealth on a pilot study for training in the private sector
- Presented at international medical workforce conference
- Led policy development on Area of Need and medical board reform for processes of conditional registration
- Acted as a resource person for advice to the NSW postgraduate medical council
- Provided advice for the location and nature of rural clinical schools

### **Quality and Clinical Policy**

- Implemented recommendations to establish a Quality Branch in NSW Health
- Appointed the Director of the Quality Branch
- Secured budget for the Quality Branch
- Streamlined processes for SCIDUA and SCIDAWS
- Supported the maternal and perinatal committees
- Established guidelines for pressure ulcer prevention
- Established guidelines for gastroenteritis management in children
- Developed policy and legislation for complementary health practitioners
- Assisted in the drafting of circulars for drug medication.
- Overseen the policy development for blood and blood products

### **Information Management**

- Led the development of the Chronic Disease Management System (CDMS) with HIC and IBM Health
- Was the senior departmental officer to oversight the implementation of the IM&T strategy
- Negotiated that the CDMS be the first prototype for the EHR strategy

- Participated in negotiations with Health Connect
- Worked with leaders of the NSW TeleHealth initiative
- Participated in Information Strategy workshops

**Chronic and Complex Care**

- Developed a Chronic Disease Framework for service redevelopment for people with chronic and complex health care needs
- Designed the implementation matrix for the Government Action Plan for Health
- Established Coordinated Care Trial, *Connect*, in three Area health Services
- Launched patient guidelines for cardiac rehabilitation and stroke services
- Launched, implemented, rolled out and developed evaluation systems for chronic and complex care strategy
- Negotiated with treasury for funding to be secured for the chronic and complex care strategy.

## REFEREES

1. **Professor Stephen Leeder**, Chairman Western Sydney Local Health District, Director Menzies Centre for Health Policy, Faculty of Medicine, University of Sydney. Email: [Stephen.leeder@sydney.edu.au](mailto:Stephen.leeder@sydney.edu.au)
2. **Professor Glen Maberly**, Director Centre for Health Innovation and Partnership, Western Sydney formerly Professor of International Health, University of Emory, Atlanta, USA. Email: [Glen\\_maberly@wsahs.nsw.gov.au](mailto:Glen_maberly@wsahs.nsw.gov.au)
3. **Dr Mark Dexter**, Head of Neurosurgical Services, Westmead Hospital, Westmead. Email: [Mark.Dexter@swahs.health.nsw.gov.au](mailto:Mark.Dexter@swahs.health.nsw.gov.au)
4. **Professor Hemmo A. Drexhage**, Professor of Immunology, Erasmus University, Rotterdam, The Netherlands, PO Box 1738 3000 DR; Telephone: (10) 408 8093; Fax: 010-4362841.
5. **Professor Janice Reid**, Vice Chancellor, University of Western Sydney. Email: [vc@uws.edu.au](mailto:vc@uws.edu.au)
6. **Professor Bruce Barraclough**, Dean of Education, The Royal Australasian College of Surgeons. Email: [bbarra@ozemail.com.au](mailto:bbarra@ozemail.com.au)
7. **Professor Bruce Robinson**, Dean of the Faculty of Medicine, The University of Sydney. Email: [bgr@med.usyd.edu.au](mailto:bgr@med.usyd.edu.au)
8. **Mr Alber Goller**, Managing Director Siemens Australia. Email: [albert.goller@siemens.com](mailto:albert.goller@siemens.com)
9. The Right Honourable **Morris Iemma**, Chairman of the South Eastern Sydney Local Health District, Chairman of the Cancer Institute, formerly Premier of NSW.

### **MANAGEMENT TRAINING**

1990	RACMA SYMPOSIUM, November 1990, Management for Clinicians.
1991	Management For Clinicians Course, University Of Western Sydney And Westmead Hospital
1991	ACHS QUALITY MANAGEMENT COURSE 2
1996	COVEY LEADERHIP COURSE
1997	Quality Workshop, WSAHS, November 1997
1997	Programme Budgeting and Marginal Analysis Workshop, 1997
1998	-
1999	Australian and New Zealand Health Leadership Program
2000	Advisory Committee, Management for Clinicians Program
2001	Web Authoring Course
2003	Media Training

### RECENT INVITED PRESENTATIONS

<b>DATE 1999</b>	<b>LOCATION</b>	<b>PRESENTATION</b>
15 April	Royal Hospital for Women	Teaching for Research into Practice Module
13 May	Perth	Integrated Diabetes Systems
1 June	Aged Care Forum, Level 11	The Future of Aged Care
3 June	Wagga Gilmore Centre	Clinical Research Workshop
9 June	Mt Druitt Branch of Diabetes Conference Room Mt Druitt	Patient Education session
9 July	Future Directions for Health Panel, Novotel Brighton Beach	Clinical Governance
16 July	Bowral	Diabetes Disease Management
21 July	Integrating the Elements - Rydges Lakeside	Health Outcomes Conference
22 July	Diabetes Australia, Glebe	Future Therapies
5 August	Nursing Unit Managers Forum Swiss Grand Hotel. Bondi	Quality & Clinical Care
14 August	ACRA 9th Annual Conference Panthers Convention Centre, Penrith	Diabetes and Cardiac Rehabilitation
16 August	SESAHS Dolls Point	Future Directions for Research
18 August	Tony Cunningham, Westmead	Future Directions for Research
19 August	Southern Highlands Divisions of General practice	Initiation & Insulin therapy in patients with Type 2 Diabetes
23 August	Sam Breit, Immunology Grand Rounds	Future Directions for Research
24 August	Bayer International Conference Carlton Crest Haymarket	Urine screening for micro albumin
24	New Dimensions in Type 2	

August	Diabetes Symposium, Star City	
16 Sept	Health Council, Level 11	Chronic Disease Management
17 Sept	International Clinical Trials Symposium, Sydney Hilton	Role of Government for Clinical Trials
8 Oct	Allied Health Alliance, St George Community Centre	Integrated Care Systems
8 Oct	Health Care Research & Practice Conference, Uni Sydney	Shifting health care dollars?

<b>Date 2000</b>	<b>Place</b>	<b>Presentation</b>
1 February	Diabetes Australia	part of expert panel for TV interview
3 February	Facilitator	Western Sydney Multicultural health Strategic Planning Workshop
8 February	Port Macquarie	Clinical Streaming Workshop, invited by Area Executive
11 February	Coffs Harbour	NSW Institute Nurse Executive Workshop - Clinical Governance
29 February	Organ Donation	Opening of Organ Donation
4 April	Motor Neurone	Opening of Motor Neurone Disease + Blue Day at Concord Repatriation Hospital
4 April	Health Informatics	Health Informatics Association EI Rancho Hotel Marsfield
May	Hellenic Diaspora Conference	Invited Guest of the Greek Government
12 May	Copenhagen	The International Forum for Diabetes Outcome Research- Building Better health Care Systems to Improve Outcomes for people with chronic & Complex Health Care Needs
23 May	CCAHS	Divisional Business Planning Workshop □ How can Central Coast Health Better Manage the Chronic Conditions of Cardiovascular Disease, Respiratory Illness & Cancer
1 June	Sydney	Aushealth International - VIP

		Delegation from China - A State Perspective on Community Health
6 June	Sydney	Presentation - GPAC Mtg - Sydney Hospital Board Room
16 June	Westmead	Presentation to Cancer Stream Executive Group - as Div of Medicine
20 June	Wentworth Area Board Room	Participation in a rural Clinical School workshop
24 June	Bankstown	Divisional General Practice
25 June	Maroochydore	NovoNorm Launch Scientific Program Presenting - Key Messages
27 June	University of Sydney	Education Committee for the Cardiac Rehabilitation Association - <input type="checkbox"/> How disadvantage is being addressed at a government policy level
28 June	Sydney	GHAAP Seminar, Grace Hotel, The NSW GAP for Health - Clinical Governance in relation to Chronic Care
10 July	Westmead	Peak Nursing Forum,
15 July	Victoria	Physicians Postgraduate Meeting - Presentation on Metabolic Syndrome and to moderate a case study
27 July	College of Nursing	Open Forum for Nurses, To Open and Present - Update on GAP
31 July	Sydney	Clinical Council Meeting - SB and RP
2 August	Canberra	International Health Outcomes Conference 2000 - 6th Annual Conference - Integrated Diabetes Services - Building better health care systems to improve outcomes for people with chronic and complex health care needs Panel discussion : National Health Priorities Areas : Do they make a difference to health Outcomes
1 September	Sydney	10th Annual St Vincents Campus One Day Symposium - Keynote speaker



7 September	Penrith, Nepean Hospital	Chronic Complex presentation
12 October	Landmark Parkroyal	MTEC - Postgraduate Medical Council Symposium
13 October	Sydney Le Meriden	Diabetes in the 21 <sup>st</sup> Century - towards more physiological control
2 November	Sydney	NSW Telehealth Symposium - How Telehealth would support Chronic Care - Stamford Sydney Airport Mascot
16 November	The Rocks	5th International Medical Workforce Conference - ANA Hotel, "Dilemmas around the Junior Medical Workforce"
20 November	Canberra	The Future of Specialist Medical Training - MTEC
8 December	NSW CC Taronga Park Zoo	NSW Health Departments Policy and Plans for Clinical Trials Infrastructure
14 December	Kempsey	Government Action Plan with an emphasis on Chronic Care. Invited Speaker to Annual General Meeting
<b>DATE 2001</b>	<b>Venue</b>	<b>Presentation</b>
22 March	National Demonstration Hospitals Program – Integrating Results NDHP3, Darling Harbour	Management of Chronic Illness
3 April	Motor Neurone Conference, Main Lecture Theatre, Concord Hospital	NSW Health & progress of Chronic & Complex Care
15 May	Royal Australasian College of Physicians 2001, Novotel Darling Harbour,	Abnormal Thyroid Function Tests
25 May	University of Technology, Eton Road, Lindfield	Masters Group Presentation The Politics of Chronic Care
30 May	AHMAC	Priority Driven Research
18 December	Chinese Health Delegation, Westmead Hospital	
<b>DATE 2002</b>	<b>Venue</b>	<b>Presentation</b>
14 February	Auburn Hospital	The New Structure for Quality
13 February	Doctoral Candidates, Lindfield UTS Campus	Politics of Chronic and Complex Care

13 March	Parramatta Leagues Club	Thyroid
14 March	NSW HFA Conference, Hotel Nikko, Sydney	
23 March	Nuclear Medicine, Westmead Hospital	Neuroendocrine Tumours
27 March	Australian Pain Society, Sydney Convention Centre, Darling Harbour	
6 April	Endocrine Society Annual Seminar, Hobart	Iodine Deficiency – A continuum of Neurological Damage
9 April	Community Care Conference, Wentworth Hotel, Sydney	
9 April	Post Graduate Education, Sydney University	Pregnancy/ Physiology and Medical Complications/Endocrinology Diabetes and Thyroid Disease in Pregnancy
10 April	Breakfast Forum, Westmead Hospital	
17 April	Third Year Medical Students, Westmead Hospital	Thyroid Swellings
30 April	The role of ciglatozones in the management of type 2 diabetes	Avandia
3 May	Mt Druitt Health, Mt Druitt Shopping Centre	Launch of Heart Awareness
3 May	Australian College of Health Service Executive Conference, Novotel, Brighton Le Sands	
10 May	International Cardiac Rehabilitation, Wentworth Hotel, Sydney	
14 May	Abbott Pharmaceuticals, Courtney's Brasserie, Parramatta	Reductil Presentation
30 May	WSAHS Community Health Services Planning Day, Blacktown Hospital	WSAHS "vision" for quality
28 June	Westmead Hospital	Opening of RMO's quarters
8 August	Telehealth Symposium, Stamford Airport Hotel, Mascot	From the Ward to the Board: Role of Telehealth

31 August	Northern Rivers Area Health Service Board Education/Evaluation Workshop, Ballina	
25 September	ESA & SRB Annual Scientific Meeting, Adelaide	
2 October	ETS and Kids Campaign, Parramatta	Keynote Speaker
3 October	Learning and Development Cumberland Hospital	Opening Frontline Management Course
14 October	Disease Management Association, Millennium Hotel, Sydney	Disease Management Approach: Adopting Guidelines for Clinical Areas – Case Study
15 October	Birmingham Delegation, Westmead Hospital	
18 October	HCF Board Executive Management Conference, Bowral	Chronic Disease Management – trends and directions in Australia and the implications for health funds
29 October	Australian College of Health Services Executives, Northern Sydney Education Centre, North Ryde	Clinical Involvement in the Management of Health Services – lessons and benefits from the Western Sydney Model
<b>DATE 2003</b>	<b>Venue</b>	<b>Presentation</b>
16 May 2003	Westmead International Update: Controversies in Perinatal Care	Iodine deficiency in pregnancy and childhood: an insult to Australian Children's intelligence?
24 July 2003	Ambulatory Care Australia's Acute Care Disease Management Conference. (Melbourne)	
7 August 2003	Royal North Shore Hospital Breakfast Forum – Information Technology	"Riding the Technology Wave"
8 August 2003	HIMAA - Health Information Management Association of Australia (Sydney)	
12 August 2003	HIC 2003 (Sydney)	"Building Strategic Relationships to Deliver IT Strategies"
1 Sept 2003	NSW Telehealth Initiative Symposium 2003 (Sydney)	Key Speaker
5 October 2003	Australian Arabic Medical Association Conference (Sydney)	"Diabetes Update"
8 October 2003	University of Sydney Foundation for Information Technology (Sydney)	
27 November 2003	AFR Summit (Sydney)	"Wireless Communications within Australian Hospitals"

<b>DATE 2004</b>	<b>Venue</b>	<b>Presentation</b>
5 February 2004	Wi-Fi Technology Conference (Sydney)	"Wi Fi Solutions within Australian Healthcare"
13 February 2004	2 <sup>nd</sup> National Disease Management Conference (Singapore)	
21 February 2004	13 <sup>th</sup> Annual Health Informatics in NSW (Hunter Valley)	
26 February 2004	Management of Chronic and Complex Diseases (Perth) ARCHI	"Improving Clinical Care for Chronic and Complex Disease in NSW"
3 March 2004	Australian Wireless Summit (Sydney)	"Wireless in Health Care Environment Lessons Learnt from Earlier Doctors"
30 March 2004	M-Health Conference (Sydney)	"Reaping the Benefits of Developing WiFi Technology & Architecture"
1 May 2004	AMA Clinical Conference (Lisbon)	
10 May 2004	Priority Research for Policy Making Project (Sydney)	
13 July 2004	Diabetic Management & Cholesterol Lowering (Sydney)	"Lipitor and Cards Clinical Trials"
26 July 2004	Australian Telecommunication Summit 2004 (Sydney)	"21 <sup>st</sup> Century Healthcare and the role of ICT Technology"

**Media Interviews**  
(Television, Radio, Newspaper and Magazines)

<b>DATE</b>	<b>LOCATION</b>	<b>DISCUSSION TOPIC</b>
	Radio - SBS	Discussions on Migrant Wards and Global Health Institute.

**CLINICAL AND TEACHING APPOINTMENTS  
ACADEMIC RECORD  
OTHER MANAGEMENT ACTIVITIES**

### CLINICAL AND TEACHING APPOINTMENTS

YEAR	APPOINTMENTS
March 2002-Present Day	Visiting Medical Practitioner Endocrinology Westmead Hospital
2001- March 2002	Visiting Medical Practitioner Endocrinology Westmead Hospital
1999-2001	Staff Specialist on secondment to NSW Health
1998-1999	Clinical Stream Leader, Chronic and Continuing Medical Service, Western Sydney Health
1998-ongoing	Director, Clinical Executive Group, Chronic and Continuing Medical Service
1995-ongoing	Director, DiabetesWest Program
1995-ongoing	Director, Western Sydney Area Diabetes Service
1995-ongoing	Clinical Associate Professor, University of Sydney
1991-ongoing	Director, Department of Diabetes and Endocrinology
1992-1995	Clinical Senior Lecturer in Medicine, University of Sydney
1993-ongoing	Part-Time Clinical Lecturer, University of Western Sydney
1990-1993	Director of Clinical Training, Westmead Hospital
1990-	Staff Specialist in Endocrinology, Westmead Hospital
1989-1990	VMO in Endocrinology, Westmead Hospital
1988-1989	Research Fellow in Endocrinology, Free University Hospital, Amsterdam, The Netherlands
1986-1988	NHMRC postgraduate medical research fellow, Westmead Hospital.
1985-1986	Advanced Trainee in Endocrinology, Westmead Hospital
1984-1985	Advanced Trainee in Nuclear Medicine, Westmead Hospital
1980-1983	Junior Medical Officer, Westmead Hospital



## TEACHING

### *1. Current and Recent Teaching Responsibilities and Practice.*

#### **Undergraduate Teaching.**

- Involved in all levels of undergraduate teaching at Westmead Hospital since 1981.
- Previously responsible for ensuring teaching standards of the Department.
- Previous Coordinator for Med IV Endocrinology teaching at the Westmead Hospital Campus.
- Term Mentor for Med IV student attachments.
- Conduct and coordinate Endocrinology and Diabetes lectures for Med IV students at the Westmead Hospital Campus.
- Supervised 9 option term students in the last 5 years who elected to work in the Department.
- In my previous roles as Director of Clinical Training, and in my current capacity as Chairman of the Workforce and Allocation Committee of the NSW Postgraduate Medical Council, I promote a close working relationship with final year medical students to ensure a smooth transition from undergraduate years to junior medical officer training.
- Examiner of Med VI GP letter task; 1993, 1994, 1995.

#### **Graduate Medical Program**

1. Member of the Endocrine Sciences and Metabolism Planning Unit.
2. Case Coordinator for Endocrine Sciences Block 7
3. Member of the Personal and Professional Development Planning Unit.
4. Participated in Workshop on the Structured interview in the Admissions Procedure (17/6/1994).
5. Participated in PBL Workshops at Sydney University and at Westmead Hospital; 1994.
6. Chairman, Pre-Internship Committee, Western Clinical School, 1996
7. Member, Year 3 & 4 Curriculum Committee, 1996
8. Endocrinology Undergraduate clinical teaching, Westmead Clinical School 2011
9. Year 1 Foundation Skills Westmead Clinical School 2012
10. Endocrinology Undergraduate clinical teaching, Westmead Clinical School 2012



## 2. Post-graduate Supervision.

- 1. Dr Peter Smerdely (PhD candidate, commenced 1990). *The regulatory effects of iodide on thyroid cell function and proliferation*. Awarded PhD, University of Sydney, 1994
- 2. Dr. Yan-Ping Fiona Zhu (MM Candidate). *The effects of selenium deficiency on thyroid function, antioxidant enzymes, and morphology in Wistar and BB/W rats*. Awarded Master Medicine, University of Sydney, 1994
- 3. Ms V. Pitsiavis (PhD candidate, commenced 1990; Part-time candidature). *Signal regulatory pathways that affect thyroid function and growth*. PhD awarded 1998
- 4. Dr. Wah Cheung (PhD candidate commenced 1992). *Somatostatin and its effects on cellular proliferation*. Awarded PhD 1996
- 5. Dr Jane Holmes-Walker (PhD candidate commenced 1995). *Characterisation of the nature of diabetes mellitus in patients with mitochondrial gene deletions*. PhD awarded 2000
- 6. Ms Janine Stennett (PhD candidate, Macquarie University, 1994 ) Co-supervisor with Professor John Collins (Macquarie University). *Psychosocial determinants of normal and delayed puberty*. PhD awarded 2000
- 7. Dr Roger Chen (PhD candidate, University of Sydney, 1996) *Effects of recombinant GH in catabolic states*. PhD awarded 2002
- 8. Dr Kris Park (PhD candidate, University of Sydney, 1998) *Vascular dysfunction in diabetes mellitus*. PhD currently being examined
- 9. Dr Sheela Brambhatt (PhD candidate, University of Sydney, 1998) *Iodine deficiency disorders in Western India*. PhD awarded 2004
- 10. Dr Kamala Guttikonda (PhD candidate, University of Sydney, 1999) *Effects of phytoestrogens on estrogen responsive tissues*. PhD suspended
- 11. Mr Neil Orr (PhD candidate, University of Sydney, 2000) *Health Care Utilisation of People with Diabetes*. PhD to be submitted May 2005
- 12. Dr Vincent Wong (PhD candidate, University of Sydney, 2003) *Associate Supervisor; Hyperglycemia and its effects on cellular metabolism*.
- 13. Kellie Billesnksi *PhD Supervisor; The role of vitamin D in health and illness*. The University of Sydney 2010

## 3. Other Teaching Responsibilities

### Junior Medical Officers

- Term Mentor for interns. Direct and coordinate training in the early postgraduate years when basic medical education is completed. Emphasis is placed on practical experience so that competence is attained through the caring of patients with a broad range of medical and surgical conditions.

### Basic Physician Trainees

- Supervise and coordinate a weekly tutorial for basic physician trainees.

### Advanced Trainees in Endocrinology

- Act as supervisor for 2 advanced trainees in Endocrinology

### 3. *Evaluation of teaching*

#### (a) Student evaluation

- Med IV students have consistently assessed the level of teaching provided by the Department at a very high standard.

#### (b) Peer evaluation

- Professor David Harris will provide referee's comments on undergraduate teaching and **postgraduate supervision**.

### 4. *Scholarship in Teaching*

- Invited Professor, University of Pisa, April 1994
- Invited Professor, University of Queensland, May 1995
- Chairman, Workforce and Allocation Committee, NSW Postgraduate Medical Council.
- Director of Clinical Training, Westmead Hospital, Westmead 1990-1993.
- Part-time Clinical Lecturer, University of Western Sydney, Diploma of Clinical Chemistry, 1994, 1995.
- Senior Examiner, Australian Medical Council 1993-ongoing
- Member Board of Examiners, Australian Medical Council, 1993-1994
- Board of Continuing Education, RACP, 1993-1994
- Invited Professor, University of Malaysia, November 1995
- Facilitator, Teaching and Training in the Private Sector, Royal North Shore Hospital, 1996
- Invited Speaker, National Medical Workforce Forum, Sydney, NSW, 1996
- Invited Member, Quality Workshop, Western Sydney Area Health Service, Nov, 1997
- Lecturer, Master of Clinical Epidemiology Course, 1997 & 1998
- Member, Sydney Steering Committee, Faculty of Rural Medicine, University of Sydney, 1997
- Member, Advisory Group, Epidemiology Course, Faculty of Medicine, University of Sydney, 1997
- Invited Professor, University of Tokyo, November 1997
- Invited Speaker, American Thyroid Association, 2003
- Invited Speaker, International Thyroid Congress, 2005

## RESEARCH

### 1. GRANTS

Year	Source	Chief Investigator	Amount
<i>Past</i>			
1986	Westmead Hospital Initiating Grant	Boyages, SC	\$25,000
1987-1988	National Health and Medical Research Council Postgraduate Medical Scholarship	Boyages, SC	\$55,000
1989-1990	Westmead Foundation Supplementary Grant "Effects of goitrogens in iodine excess goitre"	Boyages, SC	\$10,000
1991-1992	Westmead Foundation Grant "Characterisation of thyroid hormone receptors in rat brain"	Boyages, SC	\$12,000
1993-1995	National Health and Medical Research Council Project Grant "Neonatal TSH monitoring as an index of the severity of iodine deficiency"	Boyages SC, Halpern J-P, Eastman CJ.	\$141,000
1995-1996	Westmead Foundation Grant "Thyroid hormone receptor changes in hypothyroid rat brain"	Boyages SC	\$12,000
1992-1995	Pharmacia GH replacement in GH deficient adults	Boyages SC	\$70,000
1995-1997	Pharmacia GH extension trial KIMS	Boyages SC	\$20,000
1995-1997	Eli-Lilly Lyspro Adolescent Study	Poon C & Boyages SC	\$45,000
1995-1997	Eli-Lilly Lyspro Adolescent Study (Addendum)	Boyages SC & Stennett J	\$13,000
1995-1997	Eli-Lilly Lyspro Oral Agent Failure Study	Boyages SC & Holmes-Walker J	\$42,000
1995-1997	Novo-Nordisk Repaglinide Study	Boyages SC	\$55,000
1996-1997	GH Drug Interaction Study	Liddle C & Boyages SC	\$45,000
<i>Current</i>			
1996-	NSW Health Diabetes Outcomes Project	Boyages SC	\$664,000
1996-	Economic Evaluation of Diabetes	Boyages SC	\$65,000
1996-	Accounting for Health	Boyages SC	\$59,000
1996-	Ibersartan Trial	OConnell P & Boyages SC	\$55,000
1997-	Q fever Vaccine Trial in Recent Onset Type 1 diabetes	Multicentre Trial, Boyages SC	\$65,000

1997	Investigation of the Safety and Efficacy of Human Growth Hormone Replacement Therapy in Adults in relation to Diagnostic Criteria and Different Dosage Algorithms	Multicentre Trial, Boyages SC	\$56, 000
2002-2004	NHMRC Aboriginal Diabetes Study	Chief Investigator	\$135,000
<b>2010-2012</b>	The effect of a coordinated care intervention, Care Navigation, on the readmission rate of chronically ill patients at Nepean Hospital. National Health and Medical Research Council Project Grant	Leeder S, Gillespie J, Usherwood T, Boyages S	(\$702,630 over 4 years)
<b>Total</b>			<b>\$ 2,532,000</b>

## 2. Professional Personnel

### A. Postgraduate Students

- 1. Dr Peter Smerdely (PhD candidate, commenced 1990). *The regulatory effects of iodide on thyroid cell function and proliferation*. Awarded PhD, University of Sydney, 1994
- 2. Dr Yan-Ping Fiona Zhu (MM Candidate). *The effects of selenium deficiency on thyroid function, antioxidant enzymes, and morphology in Wistar and BB/W rats*. Awarded Master Medicine, University of Sydney, 1994
- 3. Ms V. Pitsiavis (PhD candidate, commenced 1990; Part-time candidature). *Signal regulatory pathways that affect thyroid function and growth*. Awarded 2001
- 4. Dr. Wah Cheung (PhD candidate commenced 1992). *Somatostatin and its effects on cellular proliferation*. Awarded 1996
- 5. Dr Jane Holmes-Walker (PhD candidate commenced 1995). *Characterisation of the nature of diabetes mellitus in patients with mitochondrial gene deletions*. Awarded 2000
- 6. Ms Janine Stennett (PhD candidate, Macquarie University, 1994 ) Co-supervisor with Professor John Collins (Macquarie University). *Psychosocial determinants of normal and delayed puberty*. Awarded 2000
- 7. Dr Roger Chen (PhD candidate, University of Sydney, 1996) *Effects of recombinant GH on catabolic states*. Awarded 2002
- 8. Dr Kris Park (PhD candidate, University of Sydney, 1998) *Vascular dysfunction in diabetes mellitus, current*
- 9. Dr Sheela Brambhatt (PhD candidate, University of Sydney, 1998) *Iodine deficiency disorders in South West India; completed and submitted*
- 10. Mr Neil Orr (PhD candidate, University of Sydney, 2000). *Impact of health systems on the delivery of health care*. Awarded 2005
- 11. Dr Kamala Guttikonda (PhD candidate, University of Sydney, 2000). *Iodine deficiency in developed communities, current*
- 12. Kellie Billesnksi *PhD Supervisor; The role of vitamin D in health and illness. The University of Sydney 2010*

### B. Post-doctoral Fellows

- Dr Li Mu. MD PhD. Thyroid Hormone receptors in rat brain.

### C. Research Associates

1. Professor Hemmo Drexhage, Immunology Department, Erasmus University, Rotterdam, Postbus 1738, 3000DR Rotterdam, The Netherlands.
2. Dr Alessandro Antonelli; Istituto de Clinica Medica; Universita de Pisa; Via Roma N67;56100-Pisa; Italy.
3. Professor Shin-Ichiro Takahashi, University of Tokyo, Tokyo, Japan.

**D. Overseas Fellows in Endocrinology**

- Dr Gia Wassmer, Manila, The Phillipines 1996-1997
- Dr Ilja Hulinsky, The Czech Republic, 1996
- Dr Jalila Al A'ali, Bahrain 1996-1998.

### 3. RESEARCH EXPERIENCE

- Westmead Hospital, Department Of Medicine, 1986-1988
- supervisors. Prof P.A. Castaldi, Dr. C.J. Eastman
  
- Academic Hospital Free University, Department Of Immunopathology, Amsterdam.  
Supervisor DR. H.A. DREXHAGE, 1986.
  
- Academic Hospital Free University, Department Of Immunopathology, Amsterdam.  
Supervisor DR. H.A. DREXHAGE, 1988.
  
- FIELD SURVEYS IN CHINA:
 

MAY	1986	NOVEMBER	1986
MAY	1987	OCTOBER	1988
APRIL	1989	JULY	1990
  
- FIELD SURVEYS IN NORTHERN ITALY:  
APRIL 1994

### 4. CURRENT AND PREVIOUS AREAS OF RESEARCH ACTIVITY

1. **Characterisation of thyroid hormone receptor abnormalities in developing rat and human brain.** This will provide an insight into the pathogenesis of the neurological deficit of congenital hypothyroidism and endemic cretinism.
  
2. **Clinical Aspects of Iodine Deficiency Disorders.** Further field work will be undertaken in Italy, Vietnam and China to (i) further characterise the clinical features of iodine deficiency disorders; (ii) refine the monitoring tools used in iodine deficiency endemias; (iii) and to assess the complications of iodine replacement.
  
3. **Regulation of thyroid growth and thyroid autoimmunity.** This area of work will continue to determine the role of various growth factors in the regulation of thyroid cell proliferation, particularly the interaction of iodide on thyroid cell proliferation. The effects of iodide and selenium on thyroid autoimmunity will also be examined.
  
4. **Effects of Growth Hormone (GH) and Somatostatin on cell proliferation in vitro and in vivo.** This area of work will continue to explore the role of GH in adults, particularly the effects of this agent on tumour induction, drug metabolism and in catabolic states. The role of somatostatin and its analogues on GH hypersecretion will continue to be explored.
  
5. **The pathophysiology of diabetes mellitus in patients with mitochondrial disorders.** Clinical studies will be undertaken to determine whether diabetes in these patients results from insulin resistance or insulin deficiency. In addition, a study will be undertaken to determine the prevalence of mitochondrial disorders in patients presenting with diabetes mellitus.
  
6. **Improving health outcomes in patients with diabetes through integrated service models.** This project will be jointly funded by NSW Health and the Federal department of health to investigate new models of diabetes service delivery that will maximise health outcomes.

**Other areas of research interest.**

1. Heat shock proteins and the development of autoimmune thyroid disease.
2. Flow cytometric analysis of thyroid cell proliferation.
3. Maternal thyroid function and its impact on brain development of the neonate.
4. Thyroid ultrasonography and assessment of thyroid size.
5. Fine needle aspiration cytology of the thyroid.
6. Audit of thyroid cancer treatment at Westmead Hospital.
7. The use of recombinant GH in brain injury patients
8. The use of insulin analogues in adolescent patients with IDDM
9. The use of insulin analogues in NIDDM patients who fail oral agents



## PUBLICATIONS LIST

### *Published papers and refereed conferenced papers*

1. Cheung NW, Lou JCJ, **Boyages SC**. Growth hormone does not increase thyroid size in the absence of TSH: a study in adults with hypopituitarism.. Journal of Clinical Endocrinology and Metabolism.81: 1179-1183, 1986
2. **Boyages SC**, J. Collins, J. Jupp, J. Morris, G.F. Maberly, C.J. Eastman. Congenital iodine deficiency disorders (endemic cretinism)- history and description. Australian and New Zealand Journal of Developmental Disabilities. 13 (1); 3-11, 1987.
3. **Boyages SC**, G. Ma, G.F. Maberly, C.J. Eastman. Evidence for neuroendocrine factors in the development of the sick euthyroid state. In : Recent Progress in Thyroidology. Eds: Vichayanrat A, Nitiynant W, Eastman C, Nagataki S. pp 43-47 Crystal House Press. Thailand. 1987.
4. Li Mu, Liu Derun, Qu Chengyi, Zhang Peiying, Qian Qidong, Zhang Chunde, Jia Qingzhen, Wang Huaixing, C.J. Eastman, **Boyages SC**, J. Collins, J. Jupp, G.F. Maberly. Endemic goitre in Central China caused by excessive iodine intake. The Lancet 257-260; 1987.
5. Maberly G, **Boyages SC** , Mu L. et al. Intellectual deficits persist in an iodine deficient population in China Given iodised salt and oil prophylaxis. In : Recent Progress in Thyroidology. Eds: Vichayanrat A, Nitiynant W, Eastman C, Nagataki S. pp 407-411. Crystal House Press. Thailand. 1987.
6. **Boyages SC**, JP Halpern, GF Maberly, CJ Eastman, JG Morris, JK Collins, JJ Jupp, Jin Chen, Wang Zhen-Hua and You Chuan-yi. A comparative study of neurological and myxoedematous endemic cretinism in Western China. Journal of Clinical Endocrinology and Metabolism, 1988, 67; 1262-1271.
7. **Boyages SC**, GF Maberly, CJ Eastman, J-P Halpern, J Collins, J. Jupp, Y Chuan -Yi, Z-L Wang, C Jin. Features of endemic cretinism in Qinghai, China. In : The Thyroid 1988, eds. S. Nagataki, K. Torizuka, 1988, pp 311-314, Elsevier, Amsterdam.
8. **Boyages SC**, J-P Halpern, G Ma, GF Maberly, CJ Eastman, C You, C Jin, Z-L Wang. Iodised oil injections fail to benefit myxedematous cretins, Qinghai, China. In : The Thyroid 1988, eds. S. Nagataki, K. Torizuka, 1988, pp 329-332, Elsevier, Amsterdam.
9. **Boyages SC**, J-P Halpern, GF Maberly, CJ Eastman, D Yu, C You, C Jin, Z-L Wang. A high prevalence of pituitary tumour in myxoedematous endemic cretins. In: The Thyroid 1988, eds. S. Nagataki, K. Torizuka, 1988, pp 315-318, Elsevier, Amsterdam.
10. Li M, **Boyages SC**, Liu DR, QD Qian, CD Zhang, HX Wang, QZ Jia, YY Yang, GF Maberly and CJ Eastman. Further studies of endemic goitre in Central China caused by excessive iodine intake. Exp. Clin Endocrinol. (Life Sci Adv.) 7: 165-167, 1988.
11. HA Drexhage, MM Wilders, JW Lens, **Boyages SC**. Immunoglobulins stimulating the growth of thyrocytes. In: H. Imura, K. Shizume, S. Yoshida (eds) Progress in Endocrinology. Amsterdam: Excerpta Medica. pp 1077-1089, 1988.
12. **Boyages SC**, J-P Halpern, G.F. Maberly, C.J. Eastman, C. Jin, Z-H Wang, R. van der Gaag, HA Drexhage. Endemic cretinism: possible role for thyroid autoimmunity. The Lancet ii, 529-532, 1989.

13. **Boyages SC.** Endemic cretinism: a role for thyroid autoimmunity? In: *Thyroid Gland, Environment and Autoimmunity*, 1989; Elsevier, Amsterdam.
14. **Boyages SC,** JP Halpern, GF Maberly, CJ Eastman, P. Carr, Yu Dezhong, You Chuan-Yi and Jin Chenen. Effects of protracted hypothyroidism on pituitary function in endemic cretinism. *Clinical Endocrinology* 1989, 30, 1-12.
15. **Boyages SC,** A.M. Bloot, G.F. Maberly, C.J. Eastman, L. Mu, Q. Qian, L. Derun, R. van der Gaag, HA Drexhage. Thyroid autoimmunity in endemic goitre caused by excessive iodine intake. *Clinical Endocrinology*, 31: 453-465, 1989.
16. **Boyages SC,** J-P Halpern, G.F. Maberly, C.J. Eastman, J.K. Collins, C. You, C. Jin, Z-H Wong. Redefinition of endemic cretinism into goitrous and atrophic types. In: M. Lee, C-S Koh, C. J. Eastman, S. Nagataki (eds) *Progress in Thyroidology* 1989, Korea Medical Publishing Company, Korea, 83-86, 1989.
17. Smerdely P, A Lim, **Boyages SC,** K. Waite, D Wu, C.J. Eastman. Topical iodine antiseptics cause hypothyroidism in very low birth weight infants. *The Lancet*, ii: 661-664, 1989.
18. **Boyages SC,** Collins J, Maberly GF, Jupp J, Morris J, Eastman CJ. Iodine deficiency impairs intellectual and neuromotor development in apparently normal people: a study of rural inhabitants from North Central China. *Medical Journal of Australia* 150: 676-682, 1989.
19. **Boyages SC,** J-P Halpern, G.F. Maberly, C.J. Eastman, J.K. Collins, D.Yu, C. You, C. Jin, Z-H Wong. Outcome of substitution therapy with L-thyroxine on myxedematous cretins from Qinghai Province, China. Redefinition of endemic cretinism into goitrous and atrophic types. In: M. Lee, C-S Koh, C. J. Eastman, S. Nagataki (eds) *Progress in Thyroidology* 1989, Korea Medical Publishing Company, Korea, 473-476, 1989.
20. **Boyages SC,** JW Lens, R van der Gaag, GF Maberly, CJ Eastman, HA Drexhage. Sporadic and endemic congenital hypothyroidism: evidence for autosensitization. In: F. Delange, D.A. Fisher, D. Glinioer (eds) *"Research in Congenital Hypothyroidism*, New York: Plenum Press; pp 123-132, 1989.
21. Halpern, J Morris, **Boyages SC,** G.F. Maberly, CJ Eastman, D Yu, C You, C Jin, Z-L Wang, L-L Liu. Neurological aspects of cretinism in Qinghai Province. In: *"Iodine and the Brain"* (eds) G.R. Delong, J. Robbins, P.G. Condliffe Plenum Press, New York. pp 239-247, 1989
22. André M. Bloot, **Boyages SC,** Hemmo A. Drexhage. IgGs of patients with endemic iodine excess goitre stimulate thyroid cell growth in vitro: comparison of cytochemical bioassay with a modified FRTL-5 mitotic index assay. In: Ambsei-Impiombato & Perrild (eds), *FRTL-5 Today*, Elsevier Press: Amsterdam, 217-218, 1989.
23. **Boyages SC,** J-P Halpern, G.F. Maberly, C.J. Eastman, J. Collins, J. Jupp, C. J. Eastman, C. Jin, Y-H Gu, L. Zhou. Supplementary iodine fails to reverse hypothyroidism in adolescents and adults with endemic cretinism *Journal of Clinical Endocrinology and Metabolism*. 70: 336-341, 1990.
24. Halpern J-P, **Boyages SC,** Morris J, Collins JK, Maberly GF, Eastman CJ. The neurology of endemic cretinism. A comparison of two endemias. *Brain* 114, 825-841. 1991

25. Cheung W, **Boyages SC**. Failure of somatostatin analogue (SMS 201-995) to control steroid excess caused by ectopic ACTH producing carcinoid in two patients. *Clinical Endocrinology* 1992, 36:361-367.
26. Pendlebury SC, **Boyages SC**, Koutts J, Boyages J. Thymic hyperplasia associated with Hodgkin disease and thyrotoxicosis. *Cancer* 70: 1985-1987, 1992.
27. Greenberg M & **Boyages SC**. Fine needle biopsy in the management of thyroid disorders. *Patient Management* 1992
28. **Boyages SC** & Greenberg M. Investigation of thyroid nodules. *Modern Medicine* 1992
29. **Boyages SC**. Thyroid disorders in Children. In: *Lecture Notes, Pediatric Growth and Endocrinology Symposium for Health Professionals*. Ray Williams Institute of Paediatric Endocrinology, Diabetes and Metabolism. 1992.
30. Smerdely PS, Pitsiavis V, **Boyages SC**. Evidence for functional thyroid peroxidase activity in FRTL5 rat thyroid cells. Submitted *Acta Endocrinologica* 1992
31. Smerdely PS, Pitsiavis V, **Boyages SC**. FRTL-5 thyroid cell proliferation: analysis of cell cycle kinetics using flow cytometric techniques. *Journal of Endocrinological Investigation*, 6 (supple 3):51, 1992
32. C Sue, DJ Holmes-Walker, JGL Morris, **SC Boyages**, DS Crimmens, E Byrne. Mitochondrial gene mutations and diabetes mellitus. *Lancet (letter)* 341:437-438, 1992
33. **Boyages SC** & Halpern JP. Endemic cretinism: Toward a Unifying Hypothesis? *Thyroid* 3: 59-69, 1993
34. Li M, Eastman CJE, **Boyages SC**. Iodine induced lymphocytic thyroiditis in the BB/W rat: early and late immune phenomena. *Autoimmunity* 14: 181-187, 1993
35. **Boyages SC**. Clinical Review 49: Iodine Deficiency Disorders. *Journal of Clinical Endocrinology and Metabolism* 77:587-591, 1993
36. Sue CM, Holmes-Walker DJ, Morris JG, **Boyages SC**, Crimmins DS, Byrne E. Mitochondrial encephalomyopathy and diabetes. *Lancet* Feb 13, 341 (8842) 437-438, 1993.
37. Smerdely P, Pitsiavis V, **Boyages SC**. Methimazole inhibits FRTL5 thyroid cell proliferation by inducing S-phase arrest of the cell cycle. *Endocrinology* 133:2403-2406, 1993.
38. Smerdely P, Pitsiavis V, **Boyages SC**. Evidence that the inhibitory effects of iodide on thyroid cell proliferation are due to arrest of the cell cycle at G0G1 and G2M phases. *Endocrinology* 133:2881-2888, 1993.
39. Cheung NW, Taylor L, **Boyages SC**. Long term efficacy and safety of octreotide therapy for acromegaly. In *Therapeutic Strategies of Acromegaly*, Excerpta Medica, Australia, Ed SC Boyages pp19-22, 1993.
40. **Boyages SC** (Ed) *Therapeutic Strategies of Acromegaly*, Excerpta Medica, Australia, Ed 1993.

41. **Boyages SC**. The damaged brain of iodine deficiency: evidence for a continuum of effect on the population at risk. In *The Damaged Brain of Iodine Deficiency* (ed: Stanbury J) pp 251-257, 1994.
42. **Boyages SC**. Pediatric primary hypothyroidism and endemic cretinism. In *Current Therapy of Endocrinology and Metabolism*, Mosby Year Book, St Louis, Missouri, (ed Wayne Bardin) pp 94-98, 1994.
43. Li Mu and **Boyages SC**. Iodine induced lymphocytic thyroiditis in the BB/W rat: evidence of direct toxic effects of iodide on thyroid subcellular structure. *Autoimmunity* 18:31-40, 1994.
44. **Boyages SC**. Thyrotoxicosis. *MIMS Disease Index* 1995.
45. Irie Y, Tatsumi K, Kusuda S, Kawawaki H, **Boyages SC**, Nose O, Ichiba Y, Katsumata N, Amino N. PCR-direct sequencing method for screening PIT1 abnormality. *Thyroid*. 5: 207-211. 1995
46. **Boyages SC**. Secondary failure of diabetes. *Current Therapeutics in Diabetes*. 1:7-9, 1995
47. **Boyages SC** & Cheung NW. Goitre in Australia. Review. *Medical Journal of Australia*. 162: 488-489. 1995
48. Grimmond SM, Teh BT, Hii SI, Cardinal J, Walters M, Epstein M, Edwards M, Hockey A, Pullen P, Perry-Keene D, **Boyages SC**, Cameron D, Hayward NK. Predictive diagnosis of multiple endocrine neoplasia (MEN 1) in four Australian kindreds. *Australian and New Zealand Journal of Medicine*. In Press. 1995
49. Cheung NW, Larcos G, Taylor L, **Boyages SC**. Short-term TSH-suppressive thyroxine therapy does not reduce bone mineral density. *Annals of Internal Medicine*. Submitted. 1995
50. Cheung NW, Taylor L, **Boyages SC**. Long term treatment of acromegaly. *American Journal of Medicine*. Submitted. 1995
51. Smerdely P, Pitsiavis V, **Boyages SC**. The G2M arrest caused by iodide is unrelated to the effects of iodide at adenylate cyclase. *Thyroid*. 5, 325-329; 1995
52. Zhu F, Bilous M, **Boyages SC**. Excess iodine induces the expression of thyroid solid cell nests in lymphocytic thyroiditis-prone BB/W rats. *Autoimmunity* 20: 201-206. 1995
53. Turner SL, Tiver KW, **Boyages SC**. Thyroid dysfunction following radiotherapy for head and neck cancer. *International Journal of Radiation Oncology, Biology and Physics*. 31: 279-283, 1995.
54. Cheung NW & **Boyages SC**. Somatostatin-14 and its analog octreotide exert a cytostatic effect upon GH3 rat pituitary tumour cell proliferation via a transient G0/G1 cell cycle block. *Endocrinology*. 136:4174-4181. 1995.
55. Hulinsky I, Bilous M, Chaseling R, **Boyages SC**. Diagnostic features of panhypopituitarism secondary to granulomatous hypophysitis. Submitted *Journal of Clinical Endocrinology and Metabolism*. 1996.

56. Sue C, Halpern J-P, **Boyages SC**, Yiannikas C. A case of Hashimoto's encephalopathy. *Journal of Neurosciences*. In Press. 1996.
57. Cheung NW, Coverdale S, Lou J, Liddle C, **Boyages SC**. Growth hormone treatment increases cytochrome P450-mediated antipyrine clearance in man. *Journal of Clinical Endocrinology and Metabolism*.81: 1999-2001, 1996
58. Li Mu & **Boyages SC**. Detection of widespread distribution of TR $\alpha$ 2 mRNA in rat brain using cRNA in situ hybridisation histochemistry. *Endocrinology* 137: 1272-1275, 1996.
59. **Boyages SC** & Medeiros-Neto G. Pathogenesis of myxedematous endemic cretinism. . *Journal of Clinical Endocrinology and Metabolism*. 1996
60. **Boyages SC**. Book Review, *The Thyroid and its disorders*. 165, 444, 1996.
61. Caterson I, **Boyages SC** Turtle J et al., . *Thyroid disorders*. Avery's Drug Treatment, Adis Press. 1997
62. L Shi, Z Shi, **Boyages SC**. Relationship of maternal iodine status to neonatal TSH levels. In Press. In *Iodine and Pregnancy* (ed Delange and Dunn).In Press 1997
63. Li Mu & **Boyages SC**. Expression of beta-thyroid hormone receptor in euthyroid and hypothyroid rat pituitary gland: an *in situ* hybridization and immunocytochemical study. *Brain Research*, In Press, 1997
64. Pitsiavis V, Smerdely P, Li M, **Boyages SC**. Amiodarone induces a different pattern of ultrastructural changes in the thyroid to iodine excess alone in the BB/W and Wistar rats. *Accepted European Journal of Endocrinology*, 137: 89-98. In Press 1997
65. Cheung W, Taylor L, **Boyages SC**. An audit of long-term octreotide therapy for acromegaly. *Australian and New Zealand Journal of Medicine*. In Press 1997
66. Cheung W and **Boyages SC**. Increased incidence of malignancy in females with acromegaly. *Clinical Endocrinology*. In Press 1997
67. Cheung W and **Boyages SC**. Thyroid changes in acromegaly. In Press. *Clinical Endocrinology* 1997.
68. Holmes-Walker, J and **Boyages SC**. Syndrome X: a syndrome of increasing importance to general practice and to the community. *Treating Diabetes* 1997 In Press
69. DJ Holmes-Walker & **SC Boyages**. Syndrome X: A diverse metabolic syndrome of increasing importance in General Practice and to the Community.,. *Trends in Diabetes*, 1997.
70. Holmes-Walker, J, Mitchell P, Morris J, Sue C, **Boyages SC**. Increased pigment retinopathy and decreased diabetic retinopathy in patients with mitochondrial diabetes disorders. In Press *Diabetes Care*. 1997.
71. **Boyages SC**. Endemic iodine deficiency: progress in our understanding of the clinical consequences of iodine deficiency. *Current Opinion in Endocrinology and Diabetes* 4:(6) 320-327, October 1997.
72. **Boyages SC**. Iodine and the brain: evidence from the mountains of Thailand 137: 336-337



73. Sue C, Morris J, **Boyages SC**, Deafness and mitochondrial mutations, In press, 1997
74. DJ Holmes-Walker, P Mitchell, **SC Boyages** Does mitochondrial genome mutation in subjects with Maternal Inheritance Diabetes and Deafness (MIDD) decrease the severity of diabetic retinopathy?. *Diabetic Medicine* **15**:946-952, 1998
75. DJ Holmes-Walker, P Mitchell, **SC Boyages**. Does mitochondrial genome mutation in subjects with Maternal Inheritance Diabetes and Deafness (MIDD) decrease the severity of diabetic retinopathy? . *Diabetic Medicine* **15**:946-952, 1998
76. DJ Holmes-Walker & **SC Boyages**. Prevalence of maternally inherited diabetes and deafness in an Australian diabetic population. *Diabetologia* **42**:1028-1029, 1999
77. KE Park, **SC Boyages**, J Koutts. The effect of Lipids and glucose on the Platelet activation; Markers CD62 (p-selectin) and Activated GPII/IIIa. *Diabetes*, 48 suppl.1, A0582, 1999
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79. KE Park, EJ Favalaro, K Chambers, **SC Boyages**, J Koutts. Is the Activity of Von Willebrand Factor Increased in Type 2 Diabetes Mellitus? *Diabetes Research and Clinical Practice* Vol 50, Suppl. 1, (P1191), 2000
80. DJ Holmes-Walker, GM Ward, and **SC Boyages**. Non-diabetic subjects from Maternal Inheritance Diabetes and Deafness families demonstrate abnormalities of insulin dependent and insulin-independent glucose disposal.. Resubmitted with revisions to *Diabetic Medicine* September, 2000
81. S Brahmbhatt, RM Brahmbhatt, **SC Boyages**. Thyroid Ultrasound is the best prevalence indicator for the assessment of Iodine Deficiency Disorders: A study of tribal/rural schoolchildren from Gujarat (Western India). *European Journal of Endocrinology*, **143** (1): 37-48, July 2000
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103. Boyages SC. The importance of bone loss in inflammatory bowel disease. Australian and New Zealand Bone and Mineral Society ASM Sydney, Australia. 1996

104. RCY Chen, C Liddle, M Li, NW Cheung, **SC Boyages**. Growth Hormone Modulates Peripheral Conversion of T4 & T3 in Normal Adults. Endocrine Society of Australia Scientific Meeting, 1996
105. RCY Chen, C Liddle, M Li, NW Cheung, **SC Boyages**. Growth Hormone Down-Regulates Cytochrome P450 function in Normal Men and Women. Endocrine Society of Australia Scientific Meeting, 1997
106. RCY Chen, **SC Boyages**. Modulatory Effects of Recombinant Growth Hormone on Thyroid Function. Asia Oceania Thyroid Association Scientific meeting, Osaka 1997
107. RCY Chen, C Liddle, M Li, NW Cheung, **SC Boyages**. Anabolic doses of Growth Hormone Increase Monodeiodinase Activity. Endocrine Society Scientific Meeting, Minneapolis, USA 1997
108. Holmes-Walker DJ, Mitchell P, Sue CM, Morris JGL & **Boyages SC**. Decreased prevalence of diabetic retinopathy but increased prevalence of pigmentary retinopathy in diabetes due to a mitochondrial mutation. 16th IDF Congress, Helsinki, July 1997.
109. Holmes-Walker DJ, Ward GM, Barton J & **Boyages SC**. Nondiabetic subjects from maternal inheritance diabetes and deafness families demonstrate insulin resistance on IV glucose tolerance testing. 16th IDF Congress, Helsinki, July 1997.
110. DJ Holmes-Walker, GM Ward, J Barton, **SC Boyages**. Non diabetic subjects from maternal inheritance diabetes and deafness families have evidence of insulin resistance with normal insulin secretion. Australian Diabetes Society, Canberra, October 1997
111. V Pitsavis, M Li, P Smerdely, **SC Boyages**. Amiodarone induces a different pattern of ultrastructural change in the thyroid to iodine excess alone in 2 rat models: analysis by light and electron microscopy. In proceedings of the Endocrine Society of Australia, Canberra, 1997
112. Moses R, Slobodniuk R, **Boyages SC**, Colagiuri S, Kidson W, Carter J, Donnelly T, Moffitt P, Hopkins H. Additional treatment with Repaglinide provides significant improvement in glycemic control in NIDDM patients poorly controlled on Metformin. 16th IDF Congress, Helsinki, July 1997.
113. Non diabetic subjects form maternal inheritance diabetes and deafness families have evidence of insulin resistance with normal insulin secretion. D.J.Holmes-Walker, GM Ward, J Barton, **SC Boyages**. Australian Diabetes Society Canberra, October, 1997
114. Excess of maternal inheritance in an Australian NIDDM population is not explained by mutations of mitochondrial DNA. DJ Holmes-Walker, **SC Boyages**. Australian Diabetes Society, Perth, August, 1998
115. RCY Chen, C Liddle, **SC Boyages**. Divergence of Effects of Growth Hormone in Growth Hormone Deficient and Growth Hormone Replete Adults. The Endocrine Society Scientific Meeting, New Orleans, USA 1998
116. S Brahmabhatt, RM Brahmabhatt, **SC Boyages**. Assessment of severity of iodine deficiency disorders (IDD) in rural and tribal schoolchildren from Gujarat, Western India, using all prevalent indicators with special stress on thyroid ultrasound and its comparison with European reference. Endocrine Society of Australia, Melbourne, September 1999



117. S Brahmabhatt, RM Brahmabhatt, **SC Boyages**. Effect of malnutrition, goitrogens and iodine deficiency on the expression of Iodine Deficiency Disorders (IDD) in Gujarat (Western India). Endocrine Society of Australia, Melbourne, September 1999
118. KE Park, L Beutler, **SC Boyages**, J Koutts. Do Platelets Circulate in an Activated state in People with Diabetes? 4<sup>th</sup> International Diabetes Federation Congress, Western Pacific Region, 1999
119. V Pitsiavas, P Smerdely, **SC Boyages**. Amiodarone Induced Thyroid Disease: Potential role of FAS and FAS-LIGAND Expression in Humans. ICE Meeting Sydney, Australia 2000
120. S Brahmabhatt, RM Brahmabhatt, **SC Boyages**. Thyroid Ultrasound is the best prevalence indicator for the assessment of Iodine Deficiency Disorders: A study of tribal/rural schoolchildren from Gujarat. Annual Conference of Association of Physicians of India. Baroda, India, January 2000
121. S Brahmabhatt, RM Brahmabhatt, **SC Boyages**. Effect of Malnutrition and goitrogens on the expression of IDD in Gujarat, Western India. Annual Conference of Association of Physicians of India. Baroda, India, January 2000
122. S Brahmabhatt, RM Brahmabhatt, **SC Boyages**. Thyroid ultrasound is the best prevalence indicator for the assessment of IDD in Gujarat (Western India). Annual Westmead Hospital Week, Sydney, August 2000
123. S Brahmabhatt, RM Brahmabhatt, **SC Boyages**. Impact of Primary Protein Energy Malnutrition on thyroid size in iodine deficient schoolchildren and adults of Gujarat (India). Annual Westmead Hospital Week, Sydney, August 2000
124. S Brahmabhatt, RM Brahmabhatt, **SC Boyages**, CJ Eastman. Thyroid ultrasound is the best prevalence indicator for the assessment of IDD at field conditions in adult population. International Congress of Endocrinology, Sydney, October 2000
125. RCY Chen, S Takahashi, S Seki, **SC Boyages**. Growth Hormone Stimulates 5' Monodeiodinase Activity in FRTL-5 Cells. Endocrine Society Scientific Meeting, Toronto, Canada 2000
126. S Brahmabhatt, RM Brahmabhatt, **SC Boyages**, CJ Eastman. Thyroid size is increased in an iodine replete and well nourished Indian schoolchildren population: Possible causative role for dietary goitrogens. European Thyroid Association, Warsaw, Poland August 2001
127. S Brahmabhatt, RM Brahmabhatt, **SC Boyages**, CJ Eastman. Thyroid size is increased despite sufficient iodine intake and good nutrition: can be due to the effect of goitrogens or just a residual effect of IDD for a prolonged period. American Thyroid Association, Washington DC, November 2001
128. S Brahmabhatt, RM Brahmabhatt, **SC Boyages**, CJ Eastman. Thyroid size determination by traditional palpation method points to "no goitre" endemia whereas ultrasonography consistently identifies goitre in well-nourished iodine replete adults: possible role of flavonoids. American Thyroid Association, Washington DC, November 2001
129. KE Park, K Chambers, C Ting, J Koutts, **SC Boyages**. "Stress Hyperglycaemia" is common in Acute Coronary Syndrome. 44<sup>th</sup> Annual Scientific Meeting of the Endocrine Society of Australia, 2001

130. KE Park, K Chambers, C Ting, J Koutts, **SC Boyages**. "Stress Hyperglycaemia" reflects Pancreatic Beta-cell failure. Australian Diabetes Society Annual Scientific Meeting, 2001
131. KE Park, V Wong, NW Cheung, **SC Boyages**. Correlation between Admission Blood Glucose levels with Outcomes in Patients with Acute Myocardial Infarction. Australian Diabetes Society Annual Scientific Meeting 2001
132. S Brahmabhatt, RM Brahmabhatt, **SC Boyages**, CJ Eastman. Normative thyroid volume reference data for Indian schoolchildren: A survey in sub-Himalayan belt. European Thyroid Association, Goteborg, Sweden September 2002
133. TM Hng, **SC Boyages**, NW Cheung, D Chipps, R coles, J Hazel, J Holmes-Walker, J Marks, H Smith and M McLean. Use of Long Actign Somatostatin in Acromegaly: An Audit. Endocrine Society of Australia 46<sup>th</sup> Annual Scientific Meeting, 2002
134. **SC Boyages**. Iodine Deficiency: A continuum of Neurological Damage. Endocrine Society of Australia, April 2002
135. V Wong, K Park, **SC Boyages**, NW Cheung. Hyperglycaemia predicts adverse outcomes following acute myocardial infarction. International Diabetes Federation, Western Pacific Region, May 2002
136. V Wong, M McLean, K Park, E White, **SC Boyages**, NW Cheung. Effect of Insulin-dextrose infusion on free fatty acid levels following Acute Myocardial Infarction: Preliminary fundings from the Hi-5 Study. ADS & ADEA Annual Scientific Meeting, September 2002
137. RCY Chen, **SC Boyages**. Growth Hormone Decrease Cytochrome P450 Activity In Health Subjects. University Hospital Rotterdam "Somatostatin receptor physiology and targets for Somatostatin analogue therapy young investigator meeting", Barcelona 2002

## **INVITED LECTURES**

### **NATIONAL AND INTERNATIONAL MEETINGS**

- 1986 WUXIANG HOSPITAL , SHANXI PROVINCE,  
CHINA "Thyroid Growth Immunoglobulins"
- 1986 SECOND TEACHING HOSPITAL, SHANXI  
PROVINCE, CHINA "Endocrine Ultrasound"
- 1986 ENDOCRINE SOCIETY OF AUSTRALIA, BRISBANE. Seminar: "Clinical  
Aspects Of Endemic Cretinism"
- 1986 WEEKEND ENDOCRINE CONFERENCE, RANELAGH  
HOUSE, ROBERTSON. " Memory Glucometer Project"
- 1986 WESTMEAD ASSOCIATION REUNION WEEK,  
POKOLBIN. "Neurological Iodine Deficiency  
Syndrome- Definition Of The Subclinical State"
- 1987 SHANXI MEDICAL COLLEGE, SHANXI, CHINA.  
"Iodine And Its Influence On The Development Of Autoimmune Thyroid  
Disease."
- 1987 LINFEN ANTIENDEMIC INSTITUTE, SHANXI,  
CHINA. "Iodine Excess Disorders"
- 1987 AUSTRALIAN SOCIETY OF LABORATORY  
ANIMAL SCIENCE, ANNUAL MEETING, WESTMEAD CENTRE  
"The BB/W Rat And Its Influence On The Understanding Of Human Diabetes  
And Iodine Induced Goitre."
- 1987 NEUROSURGICAL SOCIETY OF AUSTRALASIA- TRAINEE SEMINAR."  
Hyperfunctioning Pituitary Diseases, Diagnosis And Treatment.
- 1988 IODINE AND THE BRAIN, International  
Symposium At National Institute Of Health,  
Washington D.C., USA- March 21-23rd, 1988.  
" Pituitary Tumours In Endemic Cretinism"
- 1988 RESEARCH IN CONGENITAL HYPOTHYROIDISM,  
Nato Advanced Research Workshop, Brussels,  
May 16-18, 1988. Oral Symposia Session:  
"Endemic Congenital Hypothyroidism And Thyroid Autoimmunity"
- 1988 AMSTERDAM THYROID CLUB, June 1988  
Invited Speaker "Endemic Cretinism"
- 1988 AUSTRALIA-CHINA SCIENTIFIC CONFERENCE,  
October 4-5th, Beijing. Oral Communication:  
1. "Endocrine Aspects Of Endemic Cretinism"  
2. " Thyroid Autoimmunity And Endemic Cretinism"
- 1988 WESTMEAD ASSOCIATION REUNION WEEK,  
November 9-11 Th, Sydney. " Somatostatin Analogues"
- 1989 SANDOZ PRE-LAUNCH MEETING OF SANDOSTATIN, GOLD COAST,  
February, 9th-11th: "Sandostatin: A Personal Experience"
- 1989 THE ROYAL AUSTRALIAN COLLEGE OF  
GENERAL PRACTITIONERS, ANNUAL REVISION  
SEMINAR, February, 12-18; "Thyroid Disease"
- 1989 KURINGAI DISTRICT MEDICAL ASSOCIATION, AUTUMN MEETING; Monte  
Pio, Maitland, March 3-5th; Hirsutism- Current Therapeutic Management"
- 1989 4TH ASIA-OCEANIA THYROID ASSOCIATION MEETING,  
SEOUL, SOUTH KOREA, April 19-21, 1989.  
Symposium Speaker: "Redefinition Of Endemic Cretinism Into  
Goitrous And Atrophic Types"

- 1989 AOTA SYMPOSIUM On Iodine Deficiency Disorders, Tianjin, China, April 24-25, 1989. Symposia Presentations:
- Intramuscular Iodized Oil Failed To Reverse Biochemical And Clinical Hypothyroidism In Endemic Cretins From Qinghai, China.
  - Pituitary Disorders In Endemic Cretinism
  - L-Thyroxine Replacement Therapy Reverses Biochemical And Clinical Hypothyroidism In Myxoedematous Cretins Without Toxicity
  - Thyroid Atrophy Demonstrated By Portable Real-Time Ultrasound Is The Hallmark Of Myxoedematous Cretins
- 1989 AOTA SYMPOSIUM On Iodine Deficiency Disorders, Tianjin, China, April 24-25, 1989. Symposia.  
"Endocrinological Features Of Endemic Cretinism In Qinghai, China"
- 1989 AOTA SYMPOSIUM On Iodine Deficiency Disorders, Tianjin, China, April 24-25, 1989. Meet The Professor's Session  
"Regulation Of Thyroid Growth"
- 1989 INTERNATIONAL SYMPOSIUM THYROID GLAND, ENVIRONMENT AND AUTOIMMUNITY 1989.  
**Invited Speaker:** Endemic Congenital Hypothyroidism: A Role For Autoimmunity? October 18-20th, 1989.  
CLINICAL DAY **Invited Speaker:** Endemic Goiter And Cretinism: The Chinese Experience.
- 1989 WESTMEAD REUNION WEEK  
"The Spectrum Of Iodine Deficiency Disorders"  
November 8th, 1989.
- 1990 IODINE AND THE THYROID  
**Invited Symposium Speaker:** September 1990, Athens, Greece.
- 1990 ASIA OCEANIA CONGRESS OF ENDOCRINOLOGY  
**Invited Speaker:** Regulation Of Thyroid Growth December 1990, Jakarta, Indonesia.
- 1991 INTERNATIONAL THYROID CONGRESS  
**Invited Symposium Speaker:** Endemic Cretinism February 1991, The Hague, The Netherlands.
- 1991 ACROMEGALY: DIAGNOSIS AND PATIENT MANAGEMENT IN 1991, Ramada Renaissance Hotel, 31st August 1991
- 1992 PAEDIATRIC GROWTH AND ENDOCRINOLOGY SYMPOSIUM FOR HEALTH PROFESSIONALS. 12th June 1992. Thyroid Disorders In Childhood.
- 1993 RACGP REVISION SEMINAR. Thyroid Disorders.
- 1993 Invited Speaker, Symposium On The Management Of Acromegaly, Sydney
- 1993 Acromegaly: Therapeutic Strategies; Workshop, Invited Speaker Long Term Sandostatin Therapy-The Westmead Experience, 28th March 1993.
- 1993 Invited Grand Rounds Speaker, John Hunter Hospital
- 1993 Invited Grand Rounds Speaker, RAHC, Camperdown
- 1993 Invited Grand Rounds Speaker, Wollongong Hospital
- 1993 **Invited Speaker:** Iodine And The Damaged Brain Conference, Philadelphia, USA, April 1993.
- 1994 Invited Grand Rounds Speaker, Royal Prince Alfred Hospital " Iodine Deficiency Disorders"
- 1994 **Invited Visiting Professor,** University Of Pisa, April 11 To 20th.
- 1995 Invited Speaker, Brisbane Endocrine Group, 8th May " Thyroid Hormone And The Brain: Clinical And Molecular Aspects".
- 1995 Invited Grand Rounds Speaker, Princess Alexandra Hospital, Brisbane, 8th May. " Iodine Deficiency Disorders In The First And Third Worlds"

- 1995 Invited Grand Rounds Speaker, Concord Hospital, "Measuring Health Outcomes In Diabetes", May 6th.
- 1995 Invited Panel Expert. International Cytology Workshop. Leura, 1995
- 1995 Invited Speaker. Clinical Symposium On Thyroid Disease.
- 1995 **Invited Symposia Speaker**, International Thyroid Congress, Toronto, Canada. 10th-15th September, "Iodine Deficiency Disorders In The Year 2000"
- 1995 **Invited Visiting Professor**, World Diabetes Day, Kuala Lumpur, Malaysia (November)
- 1996 **Invited Symposia Speaker**, International Congress Of Endocrinology, San Franscico, USA, June 1996.
- 1997 Invited World Expert Diabetes, Tighter Control without Tears, London, May 1997
- 1997 **Invited Speaker**, Australian Business Health Seminar, Research Institute of Asia and the Pacific, October 1997
- 1997 **Daichii Prize Plenary Lecture**, Asia Oceania Thyroid Association, Osaka, November, 1997
- 1997 **Invited Visiting Professor**, University of Tokyo, November 1997
- 1997 **Invited Visiting Professor**, Endocrine Rounds, Royal Prince Alfred Hospital, November 1997
- 1998 **Invited Speaker**, Health Outcomes Conference, March 1998
- 1998 Invited Visiting Professor, Faculty of Rural Medicine, Broken Hill, April 1998
- Invited Facilitator, Integrated Diabetes Care Workshop, Toowoomba, July,
- 1998
- 1999 **Invited Speaker**, Endocrine Rounds, Royal Prince Alfred Hospital, July, 1998
- 1998 **Invited Speaker**, Acromegaly Symposium, Sydney and Melbourne, May and June 1998
- 1998 **Invited Speaker, Diabetes Symposium, Port Macquarie, September, 1998**
- 1998 Invited Speaker, Diabetes Workshop, Southern Tablelands Division of General Practice, September, 98
- 1998 Invited Speaker, Diabetes Workshop, Bathurst Division of General Practice, July, 98
- 1998 Invited Visiting Professor, University of Tokyo, November 1998
- 1999 See detailed listing on pages 13 to 18
- 2002 Invited Speaker American Thyroid Association, USA
- 2005 Invited Speaker, International Thyroid Congress, Argentina

**Participation at other meetings**

1988	EUROPEAN THYROID ASSOCIATION, Montpellier, September 11-16th, 1988.
1991	AMERICAN THYROID ASSOCIATION MEETING Boston, USA, September 1991.
1993	EUROPEAN THYROID ASSOCIATION, Cardiff, Wales, September 1993
1993	American Diabetes Association, Consensus Conference On Hyperlipidemia, Dallas, Texas January.
1994	INTERNATIONAL DIABETES FEDERATION, KOBE, JAPAN. November, 1994.
1997	Programme Budgeting and Marginal Analysis (PBMA) Workshop, November, 1997

## ADMINISTRATION

### COMMITTEE SERVICE

1987-1988	Foundation Committee for the Medical Graduates Association of the University of Sydney.
1988-1992	Foundation Member of the Medical Medical Graduates Association of the University of Sydney; Convenor of the New Members/Social Committee 1988-.
1988-1989	State Committee of the Royal Australian College of Physicians; Temporary World Health Organisation Consultant on Iodine Deficiency Disorders, October, 1989, Geneva.
1989-1991	Animal Care and Ethics Committee, Westmead Hospital.
1990-1992	Westmead Association; Convenor of the Scientific Programme Committee
1990-1994	Honorary Secretary of the NSW State Committee of the Royal Australian College of Physicians.
1990-1993	Director of Clinical Training, Westmead Hospital.
1990-1991	Convenor of the Endocrine Society of Australia 1991 Clinical Weekend Endocrine Symposium.
1990-1993	Medical Staff Council Representative on the Quality Management and Patient Care Committee.
1990-	Chairman of the Management Committee of the Staff Specialists Clinic.
1991-1992	Team leader for Structural Efficiency Principle for the Medical Stream, NSW Department of Health.
1991-1993	Convenor for the 1993 Scientific Meeting of the Royal Australasian College of Physicians
1992	Review of Resident Medical Staffing Southern Sydney Area Health Service, Team Member
1992	RACP Committee for In-Training Assessment
1992	Postgraduate Medical Council, Meeting organiser for Communications Skills Workshop
1992	Postgraduate Medical Council, Meeting organiser for Performance Appraisal Workshop
1993	Postgraduate Medical Council
1993-	Chairman Workforce and Allocation Committee, Postgraduate Medical Council
1993-	Western Sydney Area Health Service, Health Advancement Committee
1993-1994	Member, Customer Focus Forum NSW Department of Health
1993	Member of the Executive of the Medical Staff Council, Westmead Hospital
1993-1995	Senior Examiner of the Australian Medical Council.
1993-1995	Member, Board of Examiners, AMC.
1993-1994	Special Societies Liaison Officer, RACP
1993-1995	Member Negotiating Team for Staff Specialist Award, NSW Department of Health
1993-	Member, Curriculum for Endocrine Teaching, University of Sydney
1993-	Member, Curriculum for Theme Teaching, University of Sydney
1994-1998	Chairman NSW State Committee RACP
1994-1995	Member Negotiating Team for WSAHS Enterprise Bargaining
1994-1997	Member Heart Health Reference Committee
1994-1997	Chairman, Diabetes Working Group, subcommittee of the Heart Health Reference Committee



1994-1994	Chairman of the RACP Subcommittee Anabolic-Androgenic Steroids
1994	Member NSW Health Diabetes Outcomes Expert Panel
1994	Member NSW Health Diabetes Guidelines Subcommittee
1994	Member Growth Hormone Advisory Board
1995-1996	Chairman, Westmead Association
1995	Member, Standing Committee of College Chairmen
1995	Member, Working Party, Committee of College Chairmen
1995	Member, Committee of Chairmen of NSW State Committees of Medical Colleges
1995-1997	Chairman, Pre-Internship Committee, Graduate Medical Program, Western Clinical School, Westmead Hospital, Westmead
1996-	Chairman, Standing Committee of College Chairmen
1997	Member, Western Sydney Area Stream Committee
1997	Member, MAAC Review Committee
1997	Member, Revenue Enhancement Committee
1997	Member, Sydney Steering Committee, Department of Rural Health, Faculty of Medicine, University of Sydney
1997	National Health Advisory Council, NHMRC
1997	Registration Committee, NSW Medical Board
1997	Senior Clinical Advisory Group, NSW Health
1998	Chairman, Asia-Pacific Committee, RACP

### **ASSOCIATIONS AND COLLEGES**

1986	Fellow of the Royal Australasian College of Physicians
1986	Endocrine Society of Australia
1991	Australian Paediatric Endocrine Group
1992	Fellow of the Australian Faculty of Public Health Medicine
1993	European Thyroid Association
1993	Australian Diabetes Society
1993	British Endocrine Society

### **COMPUTING SKILLS**

High Level Competency in Vax Digital, IBM and Macintosh computing systems, including desk top publishing, statistical analysis, database manipulation and word-processing. Data analysis and statistical skills of high calibre. Familiar with Systat and Statview systems on Macintosh.