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THE SCOTTISH SCHOOL OF PRIMARY CARE UNIVERSITY OF DUNDEE

INTERNATIONAL VISITING FELLOW REPORT: OBSERVATIONS ON E-HEALTH AND RESEARCH NETWORKS

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- Adelaide
- Canberra
- Greater Green Triangle
- Melbourne
- Perth
- Sydney.

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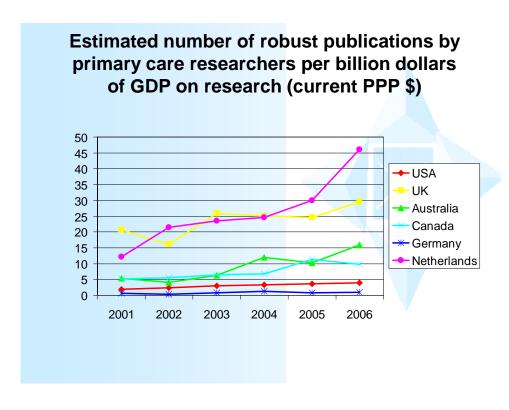
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Estimated number of robust publications by primary care researchers per billion dollars of GDP on research (current PPP \$)

INTRODUCTION

International Visiting Fellowships are intended to allow Australia's primary health care sector to benefit from the expertise of internationally acclaimed academics. The Australian Primary Health Care Research Institute awards the fellowships under Stream 11 of its research program. I was invited to undertake this visiting fellowship by APHCRI because of my research in the fields of e-health and my role in the development of primary care research networks in Scotland¹,². I was asked to deliver a keynote lecture (Appendix i) at the 2009 General Practice and Primary Health Care Conference in Melbourne, where I was able to hear about research from across the country, deliver a workshop and a seminar and provide a commentary on the two best papers from Australian primary care during the previous 12 months at a plenary session. I also had the privilege of visiting three practices, six academic groups, the Department of Health and Ageing and to be present when the Prime Minister launched 'A Healthier Future For All Australians – Final Report of the National Health and Hospitals Reform Commission in Canberra on 27 July 2009.

During the three week visit I was able to meet primary care researchers at all stages of their research career in most primary health care professions and many disciplines which contribute to Australia's vibrant and developing primary care research community. I undertook a range of lectures and seminars as detailed in the itinerary and as exemplified in appendices ii and iii. I formed a strong impression that many of the capacity building efforts that have been undertaken in recent years have been very successful. This is borne out by the large and increasing number of successful National Health and Medical Research Council (NHMRC) bids from primary care. A recent international comparison prepared by York University for the Heads of Department in the UK Society for Academic Primary Care shows that Australia's primary care research productivity is exceeded only by the Netherlands and the UK. The figure below which shows the estimated number of robust publications by primary care researchers per billion dollars of GDP on research.



As the Australian Health System prepares to undergo the largest re-organisation in two decades with an increased emphasis on prevention, primary health care and e-health, it is clear that the research community is ready to step up to the challenge of providing high quality evidence to support the decisions which will be needed to improve patient care. It is also self-evident that a mutually beneficial relationship between primary care researchers and policymakers exists in many areas which makes it possible for research findings to be translated into practice in Australia more rapidly than many other industrialised nations.

ITINERARY

PRACTICES VISITED:

Aboriginal Medical Service Western Sydney Hamilton Medical Group, Victoria Hawkins Practice Mt. Gambier S.A.

ACADEMIC DEPARTMENTS VISITED

- University of Adelaide
- · Australian National University, Canberra
- Flinders University, Adelaide
- Greater Green Triangle University Department of Rural Health, Flinders and Deakin Universities: Warrnambool, Hamilton, Mount Gambier
- Melbourne
- Perth
- University of Sydney.

POLICYMAKER SEMINARS

Department of Health and Ageing staff in Canberra with responsibilities for:

- e-health
- practice research networks

OTHER DISCUSSIONS

- Meeting Meng Tuck Mok, PhD Implementation & Data Manager BioGrid Australia and Dougle Boyle
- Meeting with Associate Professor Adrian Schoo and Dr Dale Ford, Clinical Director, National Primary Care Collaborators
- Adelaide to Outback GP Research Committee
- Meeting with Dr Oliver Frank and Professor Nigel Stocks regarding data linkage/IT
- Lunch with APHCRI hub staff including Bob Wells the Director of APHCRI

- Meeting with Jon Emery and PHCRED staff on Primary Care Networks.
- Attended launch of the final report of the National Health and Hospitals Reform Commission by Prime Minister Kevin Rudd.

LECTURES AND SEMINARS

SYDNEY

Monday 13 July

Lecture - *Integrating knowledge derived from phenotypic and genotypic data into consultations*Faculty of Medicine, University of Sydney

Wednesday 15 July

- GP & PHC Conference Driving Change, Melbourne
- Workshop: Skill Building Writing for Publication
- AAGP Dinner Speech on Futurology

Thursday 16 July

- Keynote Speaker at Australian Association of Academic General Practice
- Plenary Driving Change in Research Networks
- Seminar with Dougle Boyle Record Linkage

Thursday 23 July

- University of Adelaide
- Seminar in the DGP Networks and critical mass

Friday 24th July

Tri-state Workshop Flinders University: "New data from old: linking primary and secondary care data in research from WOSCOPS to DARTS and SHIP"

Monday 27th July

Public seminar at ANU: E-health: one giant leap for the health system

Wednesday 28th July

Clinical trials in general practice: the case of Bell's Palsy

OBSERVATIONS

E-HEALTH

I was already aware that Australia has a significant e-health capability and witnessed a developing capability to extract detailed information from primary care datasets (Hawkins Practice Mount Gambier, and new tools to link the data in a secure and confidential manner (GHRANITE)³, ⁴. I also heard from colleagues in Adelaide and Perth about plans to use record linkage techniques for primary care and research data. As the National Health and Hospitals Reform Commission suggests in its final 9 recommendations, more could be done to increase the contribution to clinical care and quality improvement from developments in e-health. In making a comparison between the current situation in Scotland where informational continuity has been a policy for more than a decade the current situation could be summarised as in Table 1 below⁵.

Some Differences between Scotland and Australia

SCOTLAND	AUSTRALIA
Community Health Index number – a unique patient	No Unique identifier
identification number	
NHS – GP's familiar with health research – track record	Private general practice – easier to say no
GP System accreditation (~6 GP systems in UK –	No accreditation - ~20 GP systems in Australia
formerly ~ 100)	
GP's have comfort in the quality of their systems	At procurement, GP system quality and cost can be
	difficult to quantify
Mandated interface standards	Standards but no mandate
Mandated clinical dataset definitions and coding system	No standards – SNOMED-CT possibly on the way
Quality and Outcomes Framework (QOF) in depth data	Very minor reporting requirements, payments minor
reporting and care standards linked to payment	
Population concerned about privacy but in general	Confidentiality and privacy – especially in indigenious
expect data to be used for research	communities is a public debate

If the 'partial takeover' option for the health service outlined in the final NHHRC report is adopted then greater opportunities for improved clinical care, quality improvement and research will be possible as summarised in Table 2. Based on international experience these seem audacious but achievable goals.

Changes implied in 'Partial Takeover' Option

AUSTRALIA NOW	AUSTRALIA IN 1-3 YEARS
No Unique Identifier	Person- controlled Electronic Health record likely to require
	a unique ID
Private general practice easier to say no	Increased accountability
No accreditation - ~20 GP systems in Australia	System accreditation
At procurement, GP system quality and cost can be	National Standards
difficult to quantify	
Standards but no mandate	Mandated interface standards
No standards – SNOMED-CT possibly on the way	Mandated clinical dataset definitions and coding system
Very minor reporting requirements, payments minor	Performance related pay
Confidentiality & privacy – especially in indigenous	Population concerned about privacy
communities is a major public debate	·

An additional benefit which the Australian primary care research community would derive if these ambitions are realised is the research potential from linking clinical data to other administrative research databases as can be seen from experience in Scotland and Scandinavia⁶. Failure to act on this issue would place Australian researchers in many fields across the translational spectrum at a considerable disadvantage to their colleagues in other developed countries.

For policymakers the advantage would be better measurement of the performance of the health system, including clinical outcomes and allowing for analysis of the variance between providers⁷.

RESEARCH NETWORKS

There are many varied research capacity building strategies being undertaken across Australia with a variety of aims and productivity. It is clear to me that the support provided for inexperienced researchers has often led to worthwhile engagement between academic departments and local health service colleagues working in clinical and management roles. In several cases the availability of PHCRED fellowships has made a positive contribution to the local workforce. The vertical integration of a range of academic activities in some practices: undergraduate teaching, postgraduate training and research coordinated by local disciplines of general practice is already providing a critical mass which is likely to ensure sustainability for these groups. Another strong feature of APHCRI's portfolio is the encouragement of international collaborations.

The National Health and Hospitals Reform Commission has recommended that more of the extra \$100 million it proposes for health research should be spent to promote research and uptake of research findings in clinical practice. They recommend that clinical and health services research be given higher priority and that the Commonwealth increase the availability of part-time clinical research fellowships across all health sectors to ensure protected time for research. When considered in combination with the increasing emphasis on prevention and primary health care in recent policy changes this creates a positive environment for the PHC academic community to further increase its ability to provide high quality evidence. I suggest that further consideration be given to the following:

FOCUS

- (a) Some groups appear to permit, or are required by stakeholders to undertake, a wide diversity of research themes to be pursued within their group when most international evidence suggests that restricting the range of research activities to areas of current or emergent strength facilitates the development and maintenance of consistently high quality research.
- (b) Acceptance of this principle means that some groups will develop a national or international lead in particular areas of primary care research. This may often be in areas where the local university or health service already has a significant track record. In other countries such as Scotland and the Netherlands it has proven mutually advantageous to the groups with more focused interests and others with different interests to encourage affiliation of new and part-time staff to the groups where the highest level of expertise is to be found.

LEADERSHIP

- (a) Succession planning for retirement was an issue for some colleagues I spoke to.
- (b) Apparent gaps in the career ladder for primary care academics in all clinical professions and many scientific disciplines relevant to primary care suggest that a review is required

to avoid a significant manpower problem in academic leads for teaching and research in 7-10 years.

CRITICAL MASS

- (a) Some research groups are currently too small to be sustainable at present.
- (b) Greater national co-ordination of network activities could enable high quality research to be undertaken across Australia.

If infrastructure funding could be more clearly linked to research performance then a positive feedback cycle contributing each of the three areas highlighted above might be more readily achieved.

PLANNED PUBLICATIONS ARISING FROM THE VISIT

Record linkage of primary care data: Medical Journal of Australia with Dr D. Boyle and Professor M. Kidd

Research Driving Change: Australian Journal of Primary Health.

APPENDICES

EXAMPLES OF PRESENTATIONS:

- i. Conference Plenary: Research Driving Change in Scottish Primary Care
- ii. Public lecture ANU: *E-Health: one giant leap for the health system*
- iii. University of Adelaide Seminar: Primary Care Networks and Critical Mass

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² Pitkethly M, Sullivan F.

³ WA

⁴ Ghranite

⁵ Guthrie wyke info cont

⁶ Smith BH, Campbell H, Blackwood D, Connell J, Connor M, Deary IJ, Dominiczak AF, Fitzpatrick B, Ford I, Jackson C, Haddow G, Kerr S, Lindsay R, McGilchrist M, Morton R, Murray G, Palmer CN, Pell JP, Ralston SH, St Clair D, Sullivan F, Watt G, Wolf R, Wright A, Porteous D, Morris AD.

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