

Stream Six Research Program Component One

Professor Nicholas Glasgow 16 Nov 2006 Canberra



Welcome and Introductions

- The APHCRI hub team
 - Phil Robson
 - 4 Administrative Officer and first contact person for Stream Six
 - Elizabeth Kerr
 - 4 Institute Manager
 - Frith Rayner
 - 4 Program Co-ordinator: Communications and Policy Liaison
 - Karen Gardner
 - 4 Researcher
 - Yun-Hee Jeon
 - 4 a big welcome
- S DoHA
 - Primary and Ambulatory Care Division
 - Mental Health and Workforce Division
- Stream Four
- Stream Six



Elizabeth Kerr

<u>http://www.anu.edu.au/aphcri</u>



Overview of the day

- § Establishing relationships
 - APHCRI hub personnel
 - Spokes
 - Topics
 - DoHA staff
- S Clear sense of and commitment to overarching method
 - Systematic review (What do we know about....?)
 - What then are the options? (Australian context)
 - Presentation of information '1.3.25'
 - Resources
- Synergistic approach of spokes within topics
- Stakeholder groups
- Solution
 Dates for Research Program Components 2, 3, 4 and other administrative matters



What's in your pack?

- Stream Six (not previously in Stream Four)
 - Agenda
 - APHCRI brochure
 - Instructions for authors of 1.3.25 reports
 - Media release
 - Stream Six biographies (please send through one for each Cl and any other significant contributors)
 - CHSRF Communication Notes (2)
 - Nick Mays presentation link
 - JHSR&P Supplement



On being guinea pigs

- **§** Four brief presentations
- § A bit of information about the particular topics
- Seflections on the overarching method
- **§** Time for some discussion





Presentations from Stream Four

Geoff Mitchell and Jennifer Tieman

Lily Cheung

Lucio Naccarella

Lydia Hearn



Adrian Schoo

S The NHS Centre for Reviews and Dissemination



Key Emphases in Stream Six

Professor Nicholas Glasgow



Background information – a refresher

- **§** The virtual institute
- S Linkage and exchange
- S APHCRI's approach to linkage and exchange

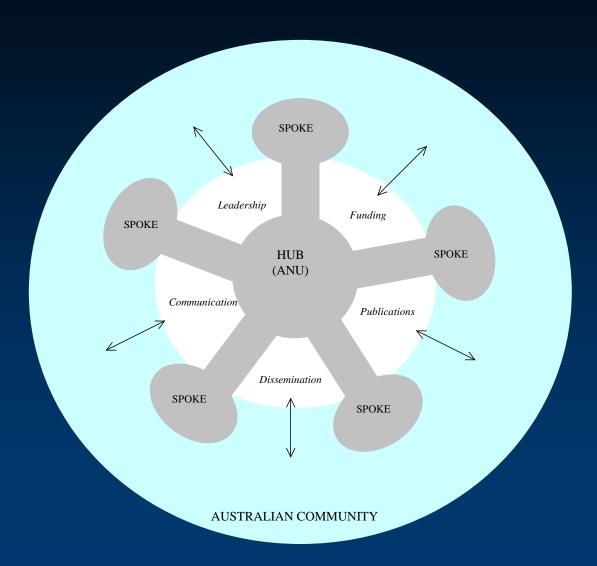


APHCRI – a virtual institute

- #Hub and Spoke" model
 - Hub based at ANU
 - Spokes programs of research commissioned by Institute's Research Advisory Board (RAB)
- § Hub and Spokes form Institute



Hub and Spoke Model





'Not a grants program'

- \$\$ to contribute to Institute's work program.
 - Working together
 - Communicating often
 - Participating in activities as they arise
 - 4 Publications (including APHCRI Dialogue)
 - 4 Policy forums and debates
 - 4 Media activities
 - Capacity building activities
 - **4** Visiting fellowships

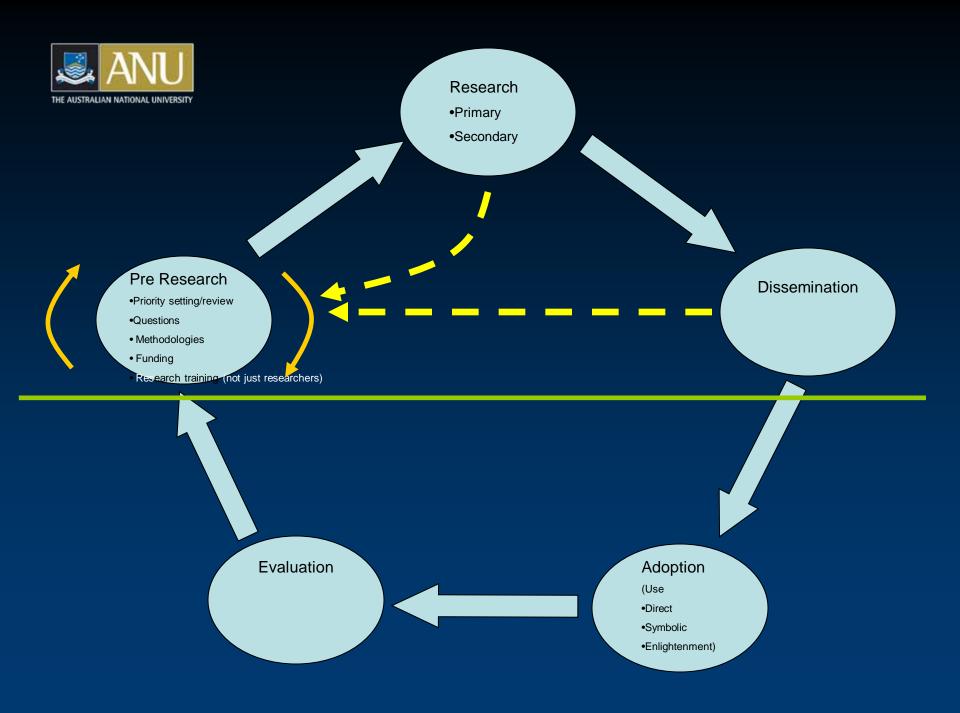


Linkage and Exchange



Mission and Aims

- **\$** APHCRI's mission: "provide national leadership in improving the quality and effectiveness of primary health care through the conduct of high quality priority-driven research and the support and promotion of best practice"
- Improving the quality and effectiveness of primary health care requires the adoption of evidence into policy and practice





Linkage and exchange

§ "For too long implementation of health services research has been viewed as a technical exercise in better dissemination; now is the time to highlight the importance of inter-personal links and the need to embed exchange between applied research and practice within health service delivery organisations."

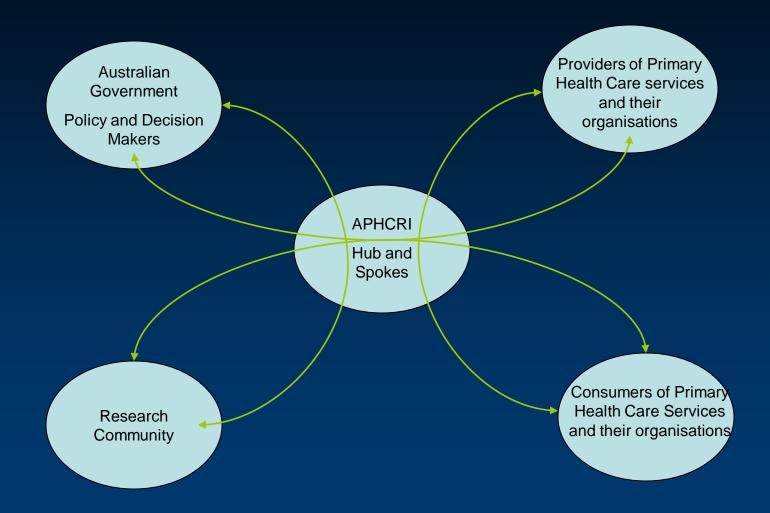
Who needs to be linked?

Goering, P., D. Butterill, et al. (2003). "Linkage and exchange at the organizational level: a model of collaboration between research and policy." <u>Journal of Health Services Research & Policy</u> **8**: S14.





Linkage and exchange [1]



[1] Lomas J. Using 'linkage and exchange' to move research into policy at a Canadian foundation. *Health Affairs* 2000; 19:236-40





Communicating and communities of interest

- Second Property Pr
- Providers of primary health care services and the various organisations with which they are linked;
- Sesearchers; and/or
- Susers of primary health care services and the various organisations with which they are linked





Linkage and exchange

- The current definition of research needs to be expanded to include at least the following as 'fundable' stages of the research process
 - The initial consultation with decision makers (needed to inform relevant research questions);
 - The ongoing linkages (needed to maintain decision makers' interest and researchers' relevance); and
 - The post-project communication and exchange (needed to make all decision makers aware of the research results)"

C. H. S. R. F. (1999). "Issues in Linkage and Exchange Between Researchers and Decision Makers." <u>Canadian Health Services Research Foundation</u> (May 1999)



Systematic review

- § JHSR&P Supplement
 - Lavis
- http://www.anu.edu.au/aphcri/Presentations/Mays_Evidence%2 0synthesis_Jan%2006.ppt



Linkage and exchange APHCRI style

- **S** Communities of interest more than two
- Sesearch priorities/topics built through consultations with policy advisers
- Sesearch Advisory Board includes senior policy advisors in both Commonwealth and State jurisdictions and senior members of all "communities"
- **§** Expert Review Committee expertise across communities
- § Assessment criteria for applications within Stream Six reflect emphasis on policy and provider expertise in addition to more usual "academic" criteria
- § Focus on systematic review



Linkage and exchange APHCRI style (cont)

- § Funding explicitly supports researchers' participation in linkage and exchange activities (early results)
- Structured research workshops bringing policy advisors and researchers together
- § Approach facilitates development of personal relationships across communities
- § International experts and resources engaged
- S Communication strategy developed and implemented including:
 - APHCRI Dialogue
 - APHCRI@work
 - Web site including thematic presentation of work
 - Adaptation of CHSRF 1.3.25 presentation of results



Stream Six Activities

- **§** Further refine the research questions
- Participate in research program components in Canberra
- Participate in meetings with DoHA (policy analysts and advisors)
- Secondary Participate, as part of APHCRI, in responding to "issues of the day"
- Deliver outcomes in a timely fashion



Key points for Stream Six

- The overarching method
- § 1.3.25 report
- Stakeholders
- § International expertise
- **§** Administrative matters



Overarching method

- Innovative
- S Application and Evaluation of an approach to synthesis and linkage and exchange
 - "In taking forward work on methods of synthesis, there is a need to move beyond theorizing to application. Specifically, studies are now required of the experience of doing realist reviews and applying the methods proposed by Mays and colleagues" Professor Chris Ham
- Solution in the second of t
- § Timely production of "what is known" (de-contextualized)
- More time focused on "what then are the options" (contextualized)
- Timelines are fixed

1.3.25 report

- Write using plain, economical, succinct, jargon-free language aimed at an intelligent audience
- 25 can be 25!
- Production of first drafts
 - Outline of 25 by 21st Feb 2007
 - Penultimate drafts of 25 by 23rd May 2007
 - This will change as a result of key informants' input
- **§** Peer review and editorial input
 - Important
 - Final reports required by 12th September 2007 so that they can be peer reviewed
 - Comments fed back to authors by mid October 2007
 - Final reports, addressing reviewers comments received by 14th November 2007





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A SYSTEMATIC REVIEW OF CHRONIC DISEASE MANAGEMENT

Zwar N Harris M Griffiths R Roland M Dennis S Powell Davies G Hasan I

POLICY CONTEXT

Worldwide chronic disease is on the rise, placing an increasing burden on those affected, their carers and the health system. In Australia many chronic diseases are predominantly managed in primary health care (PHC) and there is a need to understand how to do this more effectively. A systematic review was conducted on chronic disease management in primary health care using the Chronic Care Model (CCM) as the conceptual framework. The key findings of the review and policy options are listed below:

KEY FINDINGS:

- Self-management support, in particular, patient education and motivational counselling, improve physiological measures of disease as well other patient outcomes including: patient quality of life, health and functional status, patient service use and satisfaction with service and patients' knowledge about their disease.
- Delivery system design, in particular, a multidisciplinary team-approach is effective in improving physiological measures of disease and health care professional's adherence to disease management guidelines.
- Combinations of multidisciplinary-team approach and patient education and/or motivation improve physiological measures of disease and other patient outcomes.
- Decision support to health care professionals in the form of evidence-based guidelines and other educational materials and educational meetings, audit and feedback improve professionals' adherence to disease management guidelines and patients' disease measures.

For more details, go to www.anu.edu.au/aphcri

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A SYSTEMATIC REVIEW OF CHRONIC DISEASE MANAGEMENT

Zwar N, Harris M, Griffiths R, Roland M, Dennis S, Powell Davies G, Hasan I

POLICY CONTEXT

Worldwide the prevalence of chronic disease and their risk factors is increasing and placing more demands on health care systems and carers. Australia is grappling with how it might respond to this at a policy level.

The Chronic Care Model (CCM) provided the framework for this systematic review of the evidence of interventions for chronic disease management in primary health care. The review used the CCM as a framework for the analysis.

KEY FINDINGS

Self-management support

Self-management support, in particular patient education and motivational counselling are beneficial. Self-management support interventions are associated with improvements in disease measures, such as HoAL: In diabetes and other patient outcomes like: quality of life, health and functional status, patient satisfaction and health service use. There is most evidence for self-management support for diabetes and hypertension, with some evidence for arthritis and the evidence is less clear for asthma and Chronic Obstructive Pulmonary Disease.

Delivery system design

Multidisciplinary beams are effective in improving disease measures and adherence to guidelines, particularly for diabetes, hypertension and lipid disorders. The combination of self-management support and delivery system design is particularly effective, for example, nurses acting as case managers for diabetes, combined with selfmanagement education. The development of multidisciplinary team care, especially the role of practice nurses, reminders and proactive follow up are important in the management of chronic conditions. Many of the delivery system design interventions are designed to support self management.

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Decision support and clinical information systems

Evidence-based guidelines and educational meetings for health professionals improve health professional adherence to quidelines and some patient outcomes. Health professional education alone does not improve patient health extraores. Clarkel information systems that provide audit and freedback encourage the use of decision warrant.

Health; care organisations and/or community resources play significant roles in chronic disease management. There is no evidence about the role of these organisations in the Resolute.

POLICY OPTIONS

Self-management support

- Engage primary health care through the development of programs to support the training of GPs, practice nurses, community health, multicultural and Abordunal health exchange to the principlesses sold represented.
- Encourage or mandate the inclusion of patient self-management education into directic disease care plans.
- Link the referral to affect health providers under Medicare arrangements to self-management support to general practice.
- management support in general practice.

 Explore the role of Divisions of General Fractice in providing will exmagement.
- support to general practices.

 Support self management by linking general practice with community health, multicultural health and Abertahud health services to provide group self-management support targeted for specific athric groups.
- Explore how the frame medicines review could be used to enable pharmacista to support self management.

Delivery system design policy options

- Extend the financial support for practice nurses to become more involved as self-management especially group programs for patients in general practice, soluting self-management education.
- Extend the financial support for practice nurses to provide group clinics and outreach violation patients with channel, including self-management support.
- Signort training of primary care staff in a multidisciplinary team approach to transportant of churaic disease. Training should focus on close roles and responsibilities of the bearn reimbers.
- Unit the referral to affect health providers under Medicare arrangements to facilitate multidisciplinary self-management support in general practice.

Decision support and clinical information systems policy options

- Further develop practice incentive payment (PIP) and service incentive payment.
 (SIP) programs to encourage guideline-based chronic disease management.
- Entegrate chronic disease SEP and PEP incentives so that patients are not considered as a series of separate chronic diseases.
- Encourage greater sair of stroughed STP and PIP incentives to improve quality of care.
- Excurage the use of chronic disease registers; only diabetes is supported by PIP at prosent. Excurage the use of registers in the provision of anoth data for practices to use in quality improvement process.

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- Support the use of data extraction tools and Collaboratives methodology to improve the quality and use of practice data.
- Continue to support the development and revision of disease specific mathematics.
- Develop programs to support the training of GPs and practice runses in quideline-based chronic disease management in general practice.
- Provide support to GPs and practice staff so that they can make more effective use of directal information systems for patients with chronic illness.

METHOD

A systematic review of the published threature, including a review of published systematic reviews was undertaken with a focus on chronic disease expangement in primary care. The Chronic Care Model (COR) was used as the conceptual financeously, for the synthesis of the extense. The interventions in the included studies are described and exposed to the elements of the COR. The elements are analysed to determine their effectiveness on outcomes such as physiological measures of disease, health professional difference to publishers, health stuties and quality of life. In addition to the systematic review there is an in deoth exploration of the management of chronic disease in countries comparable to Australia, many of which based their policy on aspects of the Cornic Care Model.

3







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THE UNIVERSITY OF NEW SOUTH WALES SCHOOL OF PUBLIC HEALTH AND COMMUNITY MEDICINE

APHCRI STREAM FOUR: A SYSTEMATIC REVIEW OF CHRONIC DISEASE MANAGEMENT

Prof Nicholas Zwar Prof Mark Harris Prof Risonda Griffiths Brof Blarille Boland Dr Sarah Dennis Mr Gawaine Powell Davies My lighted Harsett

September 2006

AUSTRALIAN PRIMARY MEALTH CARE RESE

PRETACE

This is the final report of a systematic review constanted as part Primary Houlth Care Receased Institute (APHCRI) Stream Fox Strong Four was to optionalisate shortly, review, and synthesis prompt flexible are organization, handing, delivery and perform here this bromkedge might be applied in the Australian contest. Inc. and on the management of chronic diseases in the primary

THE RESEARCH TEAM

This proton was undertaken by the Center for Primary Health C of Public Health and Community Medicine. University of New Science are University of Planters Systems and University of removable - moderni molecial Prof Not Zear (MCRC), Prof M. Rocada Cieffita, (UNIX), Peet Marta Robert (University of Mart Dates of PATIES, Mr. Common Provided Classes ACMICAL and Mr to SUGGESTED CITATION:

Zwar M, Harris M, Griffiths R, Holand M, Dennis St, Powel Dani systematic remove of discover discover management. Research C Irinath Care and Eguity, School of Public Health and Community

For further withmeter contest Prof Nicholas Zwa-Tel: (02) 9616 8520 Fax: (02) 9615 8400 E mail numic@unenside.co Website (rip.Cover.cotos.cover.eds.co

ACKNOWLED/DEMENTS

The repranch team would particularly like to thank the following. Esecuto True - University of Assistant Sydney Chrotine Walker - Chronic Steens Afficece Probasor Shown Doyages - NSW Health Began Handord - Australian Divestors of Deliena Practice Targe Marchine - Australian Divestors of General Practice Jackin Comming - Victoria University of Wollington, New Zindawd Rustyn Sporter - MSM Health Jerny Brands - La Trobe University States Godme - La Trobe University Stately Gotton – La India University Joseph Gotton – Conforce EPDC Review Group Joseph Gotton EPDC Review Group Hash Maydeen – Conforce EPDC Review Group Greater Househer – Australian Chapterneet of Hashband Agency Creater Househer – Australian Chapterneet of Hashband Agency Linch Powel – Australian Department of Health and Agency Michael Politic – Australian Department of Health and Opening Communic Reduces Advantagement of Health and Opening Communic Reduces Advantagement of Health Maydell Maydell Communic Reduces Advantagement of Health Maydell Communic Reduces Advantagement and Maydell Agency Advantagement (Agency Agency Agency

FUNDING - NEEDS THE BOX ONCIGE ACKNOWLEDGISTRAT

RESULTS FROM THE PRIMARY RESEARCH PAPERS

3 RESULTS

Selection process:
The venue database search identified 5002 retreats pricing that were published. The main distribution beams identified 5022 relational articles that easier published between 1990 and featuring 2006. The relation streams published between 1990 and featuring 2006 in emilliar streams published this is 10%. Does needles man embourd to 200 with the receiving was undertakent by businesses the receiving and undertakent by businesses of the published and the relational of the published and the relational and the relation of the from one multiple papers losed in the same study. Was use empired from one paper for bent excited the purpose of the mixer (included and evoluted papers are demaind in Appendious 16, \$1 and \$25

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Emphase (10 during the rotal search and 5 during providualing) relevant Australian studies clarified during the ranks alon stage were included for data extraction and were not subjected to qualify assessment $\mathcal F$ give $\mathcal F_0$.



Fig 2. Delection private of the previous research papers.

Characteratics of the programs

Of the LES studies data enhanced from the muserily (60%) were transformed and transform. (ECL). The next rock common study design was committed before and all (CEA) (12-2b). These were has contrained clinics have (CCL) and one interruge. sepen (ITS). Four descriptive Australian studies were also included to provide additional nationships information.

The majority (64.1%) of the profess were bound at primary care pettings, 23 in mit, based care and 12 in managed care organisation. Over half of the ist

1.5

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DECISION SUFFORT AND CLINICAL INFORMATION SYSTEMS

Enciron apport and circuit interaction systems will be considered trooffer as there ebs considerative events; in the interventions used, Overall both dististion support and direct information systems in provide leastly professional adherence to guidelines for a sanger of shows disease in presery case, particularly stateties. Many of the electromations in wide disease specific guidelines and the incorporation of these guidelines into computer systems to provide prompts and beneficially on. performance. Feelin professional education alone did not exprove patient outcomes.

Disease specific gardelines are almost in one or Australia, encouraged by financial systems such as the SP and PP partners is general positioners or completion of condition matted tasks. However, update of these exception has not been present accomply positioners, partly because the systems is completely (2) and further completed by the first but they are discuss specific safers their participal on hotels. approach which may make #.51%cultro examige patients with several district diseases

General practices as flustrate asset a casety of computer software and the quality of the estimation extrest cases. In corpi to managing critisms classons effectively and action performance freetback, there is a send to compete and according parent offer. This may be difficult for small prochase or soly proclaiment who may not have the support to update this information

Decision support policy options.

- Further develop practice recentive payment (PP) and service exception payment (SP) programs to exchange particle educated channel decrease.
- integrate christic disease SIP and PIP interfaces so that patients are not
- concidence as a series of separate characteristics.

 Choose age greater was of alteractered 3.9° and PIP executives to employe quality.
- of sale. Encourage the use of chronic disease registers, only distretes in supported by
- PIP at present. Encourage the use of segisters in the provision of sold data for
- provides to use or quality expressment process. Support the use of data extraction took and Collaboratives methodology including Plan De Study Act (PDSA) cycles to express the quality and use of prestore date.
- clause to support the development and revision of drasque apec for
- Develop programs to support the mining of GPs and practice number is guidaline based of movie development management in govern practice. Plants approach to GPs and practice and that they can make more effective.

HEALTH CARE DROANISATION AND COMMUNITY RESCURCES.

There was no experimental evidence for the effect of health care organization or community released as on the management of channel disease. Inter-order is that actions these elements such as increasives and support for without order or other facilities or interring to the increase of inter-orders such as self-enumeration. support or cultivary option diseign. Health care organization and community recovers are also specific to the builthcare system that the CCM is operating at but it excell be



CHSRF Resources relevant to writing

- http://www.chsrf.ca/knowledge_transfer/pdf/cn-1325_e.pdf
- http://www.chsrf.ca/knowledge_transfer/pdf/presentation_e.pdf



Stakeholders

- § Identification
 - This afternoon create list
- S Coordinated approaches
 - Between spokes and across spokes
- Sentralised approaches
 - Invitations to the research program components



International expertise

- § Judith Smith
 - Feb meeting
- § GP & PHC meeting Sydney 22nd 25th May 2007
 - Pre-conference workshop
 - 4 Prof Bonnie Sibbald
 - Key note speakers include Prof Chris van Weel and Prof Nicky Britten



Administrative matters

- **§** E-mail to Phil Robson
 - Names, titles, positions, brief bio and e-mail contact details for all researchers/associates involved in spoke
- § Confirm attendance at meetings as soon as you are able for venue confirmation and catering purposes



Any Questions?

