Centre of Research Excellence in in Rural and Remote Primary Health Care

PROGRESS REPORT

National Advisory Committee Meeting
14 May 2013

MONASH University
Medicine, Nursing and Health Sciences

**Broken Hill University
Department of Rural Health**

Centre for
Remote Health
A joint centre of Flinders University
and Charles Darwin University

Centre of Research Excellence in Rural and Remote Primary Health Care

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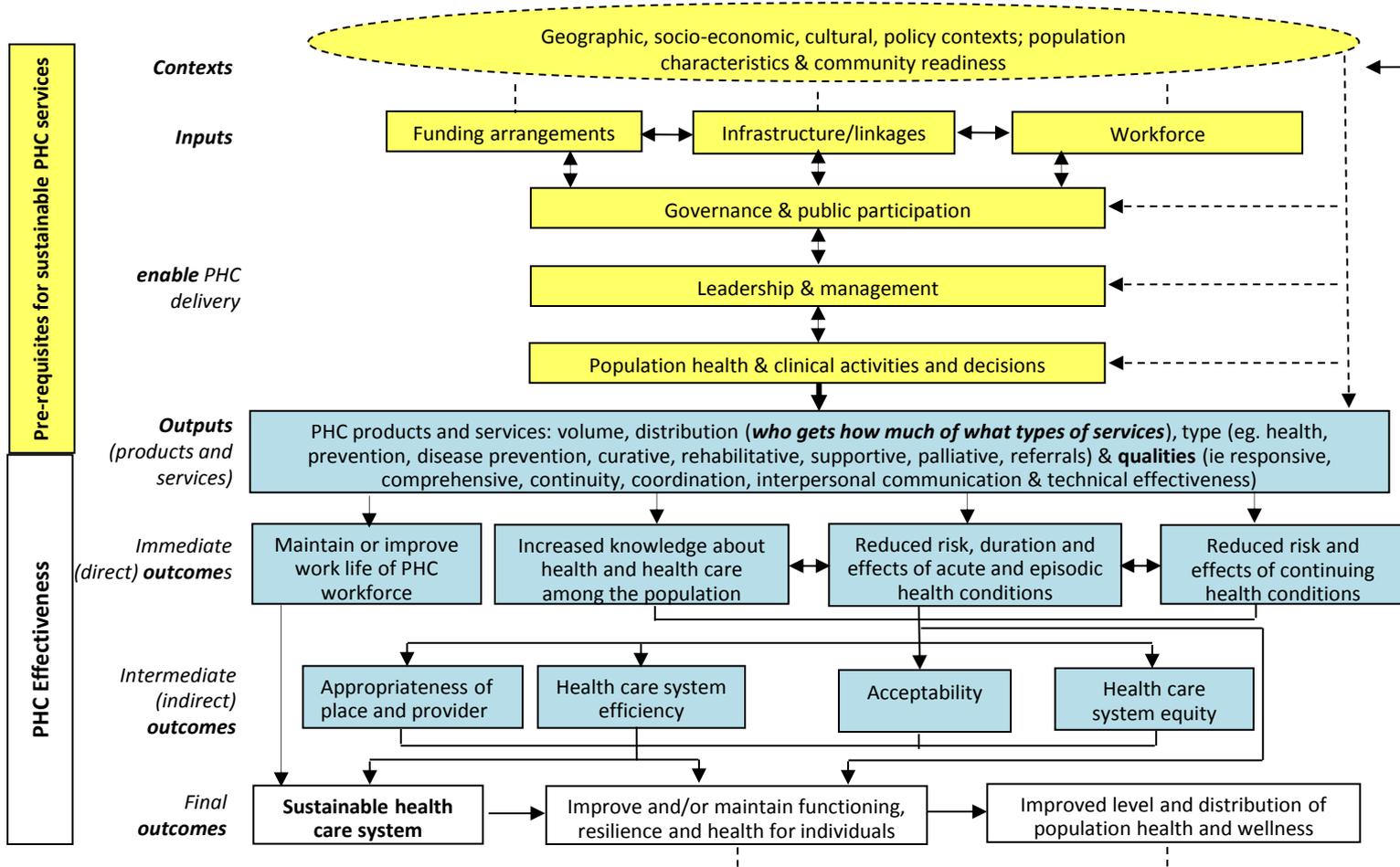
(APHCRI)

2011-2014

Today's presentation
CRE progress

1. Overview & aims of CRE

2. Research streams & progress

3. Research capacity building strategy & progress

4. Knowledge exchange progress

So what?
We know a lot about 'inputs'

Pre-requisites for sustainable PHC services

PHC Effectiveness

Contexts

Inputs

enable PHC delivery

Outputs (products and services)

Immediate (direct) outcomes

Intermediate (indirect) outcomes

Final outcomes

Geographic, socio-economic, cultural, policy contexts; population characteristics & community readiness

Funding arrangements

Infrastructure/linkages

Workforce

Governance & public participation

Leadership & management

Population health & clinical activities and decisions

PHC products and services: volume, distribution (**who gets how much of what types of services**), type (eg. health, prevention, disease prevention, curative, rehabilitative, supportive, palliative, referrals) & **qualities** (ie responsive, comprehensive, continuity, coordination, interpersonal communication & technical effectiveness)

Maintain or improve work life of PHC workforce

Increased knowledge about health and health care among the population

Reduced risk, duration and effects of acute and episodic health conditions

Reduced risk and effects of continuing health conditions

Appropriateness of place and provider

Health care system efficiency

Acceptability

Health care system equity

Sustainable health care system

Improve and/or maintain functioning, resilience and health for individuals

Improved level and distribution of population health and wellness

The CRE team

Bendigo & Gippsland	Alice Springs & Darwin	Broken Hill
John Humphreys	**John Wakerman**	**David Perkins**
Matthew McGrail	Melissa Lindeman	**David Lyle**
Bernadette Ward	Tim Carey	Sue Kirby
Penny Buykx	Steve Guthridge	Emily Saurman (PhD)
Deb Russell (PhD)	Yuejen Zhao	
Lisa Lavey	Susan Thomas	
Mike Jones	Mike Tyrrell (PhD)	
Judi Walker (Director)	Carole Reeve	
Marita Chisholm (PhD)		
Plus International Experts incl Ray Pong		

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Aims

➢ **Stream 1**: Develop a better understanding and improved **measure of access** to PHC services

➢ **Stream 2**: Develop an **evaluation framework** for monitoring impact of PHC services on access & equity of health outcomes in rural & remote Australia

➢ **Stream 3**: Develop & evaluate appropriate sustainable PHC **service models** in priority health areas

➢ **Enhancing PHC research capacity** in rural & remote areas

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Expected outcomes

- Focus on research translation

- Relevant and timely evidence-based policy research

- Stakeholder participation in research/policy development – NAC, Delphi Group, policymakers, service engagement

- Increased research capacity – completed PhDs, independent post-docs, ongoing activity

Stream 1 Progress
Index of Access

- **Success**
  - ➢ Access to rural Medicare data at community level

- **Publication**
  - ➢ Review of recent developments for method

- **Rural survey…evidence**
  - ➢ Which factor (access to doctor) is most important?
  - ➢ How does access to doctor "decay" with increased distance?

- **Senate Committee (rural classifications) – our contribution**

- **Testing / validation of <u>national</u> Index of Access**

Stream 1 Progress
Other work

- **Publication**

  ➢ Comprehensive review of access dimensions (and their significance to rural PHC policy-makers)

- **Submission**

  ➢ Evidence (review) of impact of ↓ (rural) access on PHC utilisation and health outcomes

- **Manuscript**

  ➢ Equity in PHC – key to ↑ (rural) health outcomes

- **PhDs**

  ➢ Access to dementia care & support services (rural)
  ➢ Rural PHC worker retention – determinants & metrics

Stream 2 Progress

- **Systematic review of core PHC services**
  - ➢ paper under review BMC Health Services

- **Delphi Group**
  - ➢ core services defined; resident vs periodic service provision in progress

- **Identification of exemplary PHC services commenced**
  - ➢ IFA; by state, population size & rural/remote

Stream 2 Progress

- **Working with HGU on remote services data**
  - ➢ Expenditure; utilisation; hospitalisations; preventable admissions; modelling cost-effective services

- **Community participation PhD terminated**
  - ➢ Paper under review – J Primary Health

- **Development of 'Elmore framework'**
  - ➢ Adapted for remote WA – indicators + Donabedian
  - ➢ Draft papers

Stream 3 Progress
Evaluations

- **MH emergency care – innovative telehealth service (ES)**

  - ➢ Activity data analysed, 1 paper submitted, second in preparation

  - ➢ Time/Motion study completed, analysis phase in progress

  - ➢ Field work to commence on service accessibility study – qualitative methodology

- **Primary MH Care (Mudgee 2)**

  - ➢ Not progressed - PhD terminated

- **RFDS (SE Section) Diabetes Pilot Study (SK)**

  - ➢ Qualitative Study – Field work completed – data analysis to commence

- **Fitzroy Valley (WA) PHC re-orientation (CR)**

  ➢ Use of Elmore framework shows strengthening of PHC and improved service access, quality of care, health behaviours and mortality

  ➢ Now examining cost effectiveness and implications for policy and practice

- **Patient-led Psychology Clinics in Remote Community (TC)**

  ➢ Two year evaluation completed – clinic effective, efficient, and potentially transferable

  ➢ Evaluation of similar model in very remote Aboriginal community in progress

Stream 3 Progress
Other Work

- **Literature Review of Rural/Remote Education & Supervision (SK)**

  ➢ Literature search completed, material reviewed, analysis in progress

- **Youth suicide data sources in Central Australia (ML)**

  ➢ Youth suicide data report is finalised

  ➢ Community researcher will progress the project in a second stage

- **Youth Programs in Central Australia (ML)**

  ➢ Report has been finalised and will be released by the end of May

  ➢ Preparation of a peer review paper to follow

Research Capacity Building

- **8 Novice Researchers**

- **Program format**
  - Selection
  - Research methods short course
  - Supervised close-to-practice project
  - Report/Publication

- **Access to**
  - Seminars conferences
  - Additional research skills

- **Key outcomes**
  - Maximised translation
  - Research active PHC
  - Publications

Research Capacity Building

Participating Organisation	Project
Mental Health Association of Central Australia, Alice Springs	Aboriginal youth service referral pathways in Central Australia
Northern & Remote Country Health Service, Broome	Change Management: Re-orienting a remote acute care model to a primary health care approach
Far West Local Health District, Broken Hill	An exploration of the reasons for sudden death in restraint in mental health facilities
Maari Ma Aboriginal Health Service, Broken Hill	An exploration of the understandings of family violence of inmate's in corrective services
Far West New South Wales Medicare Local, Bourke	Evaluation of community alcohol management by analysis of indicators of community alcohol consumption in Western NSW
Brooke Street Medical Centre, Woodend	General Practice in Residential Aged Care
Kyabram & District Health Services	Health outcomes associated with participation in a rural diabetes self management education program
Sunraysia Community Health Services	School readiness of Pacific Island migrant children: The care-givers perception

Knowledge transfer matrix to measure impact of CRE

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Broad area of impact	Specific areas of impact	Key audience Stakeholders	Evidence	
			Producer push	**User pull**
Research-related impact 'Advancing Knowledge'	➢ New knowledge ➢ Capacity building	➢ Researchers ➢ Educators ➢ Media	➢ **27 publications** ➢ **6 media releases** ➢ **4 Grants** ➢ **4 PhDs**	➢ **Access hits & citations** ➢ **8 Media interviews** ➢ **Secondary circulation**
Policy impact 'Informing decision making'	➢ Evidence base ➢ Influence in decision-making	➢ Policy makers ➢ Politicians ➢ Professional bodies	➢ **2 policy briefs** ➢ **3 presentations**	➢ **Rapid responses DoHA)** ➢ **Decision maker awareness & use (DoHA/services)** ➢ **Invited policy papers**
Service impact 'Improving health & health systems'	➢ Evidence-based practice ➢ Quality & safety ➢ Efficiency ➢ Cost effectiveness	➢ Managers ➢ Health workforce ➢ Consumers	➢ **Evaluation reports** ➢ Practice guidelines ➢ Recommended models	➢ **Decision maker awareness & use (RDA)** ➢ Board membership
Societal impact 'Creating broad social & economic benefit'	➢ Health literacy ➢ Health behaviour ➢ Health status	➢ Consumers ➢ advocates	➢ **6 media releases** ➢ Evidence of changes	➢ **Website hits (300,000/5,000 unique)** ➢ **Media coverage (Croakey, OZ Doc, ABC)** ➢ Consumer surveys

EXAMPLE
Key steps in knowledge exchange process on 'access index' research

- **User Interest:** 2011 Approach from Senator Nash (National Party) to comment on current basis of resource allocation.

- **Publication:** Humphreys JS, McGrail M, Joyce C, Scott A, Kalb G. (2012). Who should receive recruitment and retention incentives? Improved targeting of rural doctors using medical workforce data, *Australian Journal of Rural Health*, 20(1): 3-10.

- **Submission:** Senate Community Affairs References Committee Inquiry into the factors affecting the supply of health services and medical professionals in rural areas.

- **Presentations and ongoing interaction:**
  - ➢ Senate Community Affairs References Committee in Albury
  - ➢ Department of Health and Ageing
  - ➢ Key stakeholder organisations