



Lecture Series LXXXIII

PARI: Strengthening Health Research in Nepal

Kathmandu, 6th April 2015

Prof. Edwin van Teijlingen













Partnership on improving Access to Research Literature for Higher Education Institutions in Nepal (PARI)

Grantholders: Ram Sharan Pathak, Padam Simkhada, Bhimsen Devkota, Edwin van Teijlingen Collaborators: Trilochan Pokharel, Pramod Regmi, Julie Bruce, Amudha Poobalan, Janet Ashwell, Brijesh Sathian, Paras K. Pokharel, Shyam Lohni, Sujan Marahatta, Dayaram Lamsal, Shishir Gokhale.







Accessing research literature

Accessing research literature: A mixed-method study of academics in Higher <u>Education Institutions in Nepal</u>

Simkhada P¹⁻⁶, van Teijlingen E⁵⁻⁷, Devkota B⁸⁻⁹, Pathak SR¹⁰⁻¹¹, Sathian B¹²





Research Methods Coverage in Nepal

Research Methods Coverage in Medical and Health Science Curricula in Nepal

Simkhada P¹⁻⁶, van Teijlingen E⁵⁻⁹, Pokharel T¹⁰⁻¹³, Devkota B¹⁴⁻¹⁵ and Pathak RS¹⁶⁻¹⁷

References:

Simkhada, P., van Teijlingen, E., Pokharel, T., Devkota, B., Pathak, R.S. (2013) Research Methods Coverage in Medical & Health Science Curricula in Nepal, *Nepal J Epidemiol* **3**(3): 253-258.

www.nepjol.info/index.php/NJE/article/view/9185

Simkhada, P., van Teijlingen, E., Devkota, B., Pathak, R.S., Sathian, B. (2014) Accessing research literature: A mixed-method study of academics in Higher Education Institutions in Nepal, *Nepal J Epidemiol* **4**(4): 405-14. www.nepiol.info/index.php/NJE/article/view/11375

PARI: Evidence-based practice

Evidence-based medicine or health care or policy-making relies on good information to base your decisions upon.



Good research evidence needs to be collated, assessed and disseminated for practitioners / policy-makers.



Best possible research evidence needs to 'fit' into local culture and available health systems & services.



Research is about being critical & questioning!

PARI: Research in Nepal

- HE (Higher Educ.) which is research-based or research focused seems to be in its infancy in Nepal, but growing.
- Teaching at Nepalese universities appeared to be more didactic than in the UK.
- What we teach doctors/nurses today as best practice "much of it will be out of date or wrong in 15 years time".
- Health care workers need skills to find and assess available research evidence for their future practice.
- University staff needs right attitudes, skills & confidence to offer research-based teaching (=Capacity Building).

Limited research capacity



Health and Medical Research in Nepal: A Bibliometric Review

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Padam P. Simkhada, PhD^{1,2}, Yuba R. Baral, MSc¹, and Edwin R. van Teijlingen, PhD^{1,2,3}

Abstract

This study aimed to quantify the following: (1) health research in academic journals covering Nepal, (2) location of authors, and (3) most prevalent specialties. Published health research conducted in Nepal during 1996 to May 2007 was assessed by searching from 4 electronic databases, and 631 research articles met the inclusion criteria. Only 11% was published in Nepalese journals. Most research covered urban districts. About two thirds of articles had Nepalese authors, but

Conducted research

to establish state of health &

medical research

in Nepal in period

1996 to 2007.

Limited research capacity II

Paper concluded:

- number health research articles is small, perhaps due to:
 - lack of funding;
 - poor health research planning & policies;
 - lack proper training;
 - an underdeveloped research culture.

Research capacity focus

- Limited research capacity
- Underdeveloped research culture
- Practice needs to be evidence-based
- Research resources (e.g. HINARI) people don't know about it and/or use it
- Motivated by MDG 8: Develop a Global Partnership for Development

WHO: HINARI

HINARI Access to Research in Health Programme

HINARI Programme set up by WHO together with major publishers, enables low- and middle- income countries to gain access to one of the world's largest collections of biomedical and health literature. Up to 13,000 journals (in 30 different languages), up to 29,000 e-books, up to 70 other information resources are now available to health institutions in more than 100 countries, areas and territories benefiting many thousands of health workers and researchers, and in turn, contributing to improve world health.



Other Sister Programmes with



Access to Research4life [2]



Access to Global Online Research in Agriculture 🖸

Brief video about AGORA



Access to Research in the Environment 🗗

Brief video about OARE



Access to Research for Development and Innovation

PARI: Overview

Capacity-building programme to ensure higher education staff in Nepal become more aware of world-wide electronic literature and use this information critically.

2010 - Cu	rricula review	& Needs	assessment
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- Training package development

- Field testing training package

- Training academics & librarians across Nepal

2012/2013 - Workshop Curriculum Improvement

- Development of Network & Dissemination

- Wring academic papers.



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Pari Project



Tribhuvan University (Nepal), the University of Aberdeen, Bournemouth University, the University of Sheffield (both in the UK) and the Development Resource Centre, a non-governmental organisation based in Kathmandu, formed a Partnership on improving Access to Research Literature for Higher Education Institutions in Nepal (PARI). PARI is a three-year capacity-building programme which aims to ensure higher education lecturers in Nepal become more aware of the world-wide electronic literature and learn how to use this information critically. Higher institutions and researchers, including university teachers, often do not access freely available research literature databases in Nepal. A lack of knowledge of available resources and a lack of the necessary skills to search for evidence are key barriers to accessing the research

PARI: Research Methods

Mixed-Methods Approach:

- Primary research:
 - 1. Questionnaire study 200+ staff in universities.
 - 2. Interviews with senior academics
 - 3. Focus groups discussions with students
- Secondary research:
- 1. Curriculum review





Advocating mixed-methods approaches in health research

MacKenzie Bryers H1-2, van Teijlingen E3-5, Pitchforth E6

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- ⁶ Research Leader, RAND Europe, Cambridge, UK.

Chief Editor

Dr. Brijesh Sathian

MacKenzie Bryers, H., van Teijlingen, E., Pitchforth, E. (2014) Advocating mixed-methods approaches in health research, *Nepal J Epidemiol* **4**(5): 417-422.



PARI: Staff Survey 2010

Aims

• To assess staff's IT access, experience in research-teaching, publishing, using electronic data bases, etc.

Methods

• Questionnaire study of over 200 members of staff of many colleges of four universities.

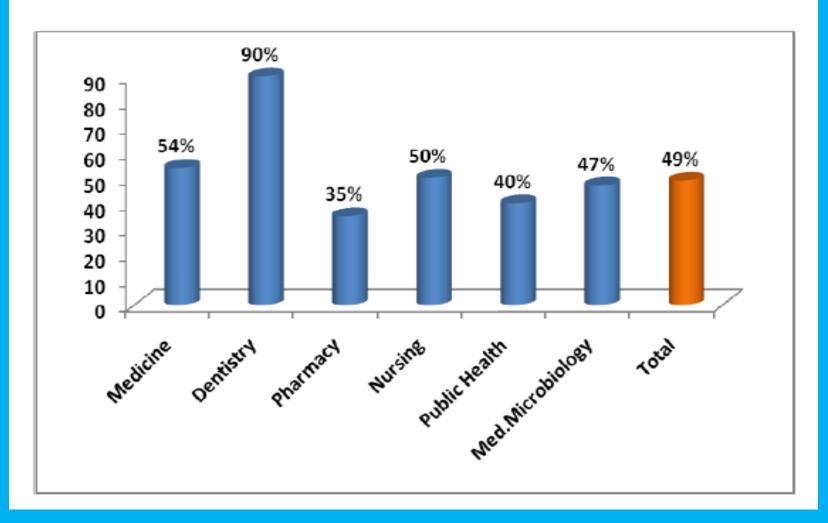
Table 3: HE teachers who have published research papers in peer reviewed journals

1. By University	No.	Percentage	χ² value
TU	32	57.1	
PU	25	33.3	
KU	36	53.7	P=0.023
PoU	6	26.1	
BPKIHS	17	73.9	
Total	116	47.5	

3. By gender			
Male	73	67.6	
Female	43	31.6	P=<0.001
Total	116	47.5	

Simkhada P et al. (2014) Nepal J Epidemiol 4(4): 405-14

Figure 1: Teacher access to electronic database by discipline



PARI: Staff Survey 2010

- Most respondents were female, had MSc, 1-5 years experience, quarter was <30, nearly half aged 30-39.
- Only 47.5% published in journal; men & higher ranks more likely than women/lower ranks.
- Internet in nearly all institutions, all had library.
- Few thought librarians supported accessing databases.
- PubMed & HINARI only elect. databases mentioned.
- Quarter institutions had some research capacity funding.

Staff Survey: Staff access to electronic resources

Whether or not electronic research databases were available and used by the HE teachers was the another key question of the study. On the whole, 119 out of 244 (48.8%) HE teachers reported that they had access to electronic research databases at their HEIs. The study

PARI: Qualitative Overview

- Heads of department, coordinators and principals of institutions offering health-related degrees were interviewed about: importance of research, IT facilities, students' motivation, skill /abilities staff in accessing research literature, curricula reviews, etc.
- Four focus groups with students, each with 7 to 12 participants. One FGD each was held at four different institutions with students from various health-disciplines.

PARI: Interviews

- All agreed research-methods teaching is important
- All claimed to have IT facilities, but: (a) not all computers were equally good; (b) not enough computers for all students; or (c) no generator.
- Electronic data bases were not always used.
- Generally positive about library staff's IT ability.
- Mixed responses about abilities of teachers on searching research literature. The notion was that younger staff was more familiar with IT in general
- Need for training recognised, both not widely available.

PARI: Student Focus Groups

- Students IT literate, had home computers, some without internet. Internet used more socially than for study.
- Computer labs open all day (6 AM to 6 PM) working days but these were not well managed.
- Students used PubMed, HINARI, BMJ, NEJM, WHO Bull., open-access journals, search engines (Google).
- Lack of knowledge and experience in using of research literature among students and staff.
- Accessing research literature should be in curriculum
- Make accessing electronic data bases examinable to get students to study. Make it count.

Summary Nepal health research

- Higher Educ. which is research-based or research focused seems to be in its infancy in Nepal, but growing.
- Teaching at Nepalese universities appears to be more didactic than in the UK.
- Health care workers need skills to find and assess available research evidence for their future practice.
- Younger (newer) staff generally more familiar with IT.
- University staff needs right attitudes, skills & confidence to offer research-based teaching (=Capacity Building).

Curriculum Review Method

Table 1: Course/Programme included in content analysis

Level	TU	KU	PoU	PU	BPKI HS	Total
Bachelor level	11	4	6	4	6	31
Master level	26	20	0	1	27	74
Total	37	24	6	5	33	105

Legend: TU Tribhuvan University; KU Kathmandu University; PoU Pokhara University; PU Prubanchal University; BPKIHS BP Koirala Institute of Health Science

Example Matrix: Undergraduate BSc Nursing

Name of Programme	1	2	3	4
BSc Nursing				
Literature review	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
Research design - qualitative/quantative	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	
Statistics	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
Sampling	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	
Ethical consideration in research	$\sqrt{}$		$\sqrt{}$	
Writing up proposal	$\sqrt{}$	1	V	
Citation and referencing				
Systematic review/ meta analysis				
Data analysis-	1	1	$\sqrt{}$	
Data analysis software				

Observations Curr. Review

- As expected much more research related contents at Master's level than Bachelor
- Content of research varies within the level
- Research component Bachelor varies from as low as 1% to over 20% of total course
- Some curricula are 'new', whereas others are more than a decade old
- MD: least defined 'research methods' curricula

Strengths

- Basic statistics included in most curricula
- Data analysis software
- Newly introduced curricula have more detailed research component.
- General health-related curricula have higher proportion of research related course
- Access to electronic research literature database is mentioned in some curricula

Gaps in most curricula

- Weighting research-related elements varies among disciplines: Clin./ lab-based curricula are less defined.
- Curricula vary within/between universities
- Most curricula lack contents in
 - Ethical consideration in health research
 - Citation and referencing
 - Systematic review
- Access elect. research literature can be improved

Curriculum Review

Nepal. Our key recommendations are that higher education institutions in Nepal need to review, where necessary revise existing health science curricula to strengthen their research methodology contents. Similarly, curricula should include more contemporary issues in research methodology training. The curricula should include clear instructions to students on how to access the most-up-to-date research literature and how to appraise the research articles.

EBP workshop 2011



How to read a paper

Three starter questions:

- Why was the study done and what were authors testing?
- What type of study did they do?
- Was design appropriate to broad field of research in question?

Parts of a paper

Find all key information

A. Abstract-

Find aims & objectives

- B. Introduction/Background
- C. Methods
- D. Results
- E. Discussion
- F. References (Bibliography

Example slide from workshop material aimed at health staff on: 'How to read a paper'

Workshops 'outcomes'

- Concept and methodology of systematic reviewing was new to majority of Nepalese academics at workshops.
- There is a need for hands-on training skills on critical appraisal and interpreting systematic reviews by health professionals.
- One-day workshop in Kathmandu to bring as many directors of nursing & medical colleges together as possible to establish elements of EBP are most needed in health workforce.

Workshop Dhulikal 2010



Workshop team at BP Koirala Institute of Health Science (BPKIHS)



Overview PARI Dissemination

- Each of the three years included dissemination workshop;
- Dissemination through media;
- Academic dissemination:
 - Conferences
 - Scientific papers
 - Webpages (less succesful)

Media in English

TU faculty gets British Council aid

Himalayan News Service

Kathmandu, November 2

In a bid to strengthen health research in the country, the British Council today announced a grant of Rs 10 million to Tribhuvan University Central Department of Population Studies.

TU, the University of Aberdeen, Bournemoth University (both UK) and the Development Resource Centre have initiated a project 'Partnership in improving

The Rising Nepal

MISCE

January 1, 2011 Ponsh 17, 2067 B.S., Saturday

TU, UK varsities join hands to strengthen health research

By A Staff Reporter

Katumanda, Dec 31
Tribhuwan University
of. Nepal and three UK
universities and the
Development Resource
Centre have formed a
Partnership on improving
access to research literature
for Higher Education
Institutions (PARI) in
Nepal with an aim to
strengthen health research

Population Studies said.

When many students are leaving for study abroad, PARI strengthens research capacity in Nepal which in the long-run may encourage talented people to stay or return to the country, he said.

The PARI is organising five international workshops on 'Access to Health Research and

staff when it comes to accessing the internal literature online, PARI will encourage high calibre research and teaching in this country."

Dr. Julie Bruce from Warwick University said, "We need to move away from textbook teaching in health care and teach our students about finding the most appropriate evidence-based treatment for

THE KATHMANDU POST | SUNDAY, JANUARY 2, 2011

'Increase access to the internet'

POST REPORT

KATHMANDU, JAN. 1

ACADEMICIANS on Saturday expressed the need to increase the access of medical students to the internet in order to facilitate evidence-based research and identify emerging diseases in the country.

Addressing a workshop, coordinator of Partnership on Improving Access to

Research Literature for Higher Education Institutions in Nepal (PARI), Prof. Ram Sharan Pathak said, "The universities here lack access to the internet, making it diffficult for students to assess research-based information on medicine, pharmacy and public health. As a result, the students have not been able to study academically any emerging

disease and take immediate control measures." PARI is a joint initiative taken by Tribhuvan University UK-based and the University of Sheffield, University of Aberdeen Bournemouth University as well as the Development Resource Centre for identifying health resource information and stressing the need of evidence-based practice.

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Media in Nepali

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वादन नामारोजनाई प्रमा आसन्यात सम्बोधन गरी प्राचा समान कि कि ले पश्चिमीय अवाहने आश्च समयया नेपालका गांतकानाह अनुसन्धानकानाही सहस्रकप्रमा प्रपत्नकप्र वी परियोजना शुरू राम् सुनीकी यत्राजनमधी ।

वविद्यालय सर्वेका पारनसरी जनसभारतां उच्च एपनि प्रि.चि. ले अनुसन्धान प्रावनस्य गति दिन नमविज्ञान tile fix.lie.ait ultifricelisare व बवान्यमध्यद्व अनुवास्थान र तथा चारे पटा अनसमान नसन्धान कतिवाट धरिपण consactional upstan रेपोजना महायब हमें बाजा

राज्या समापनिको आसनकार दा सर्वेतान अमान्यने प्रश received the fire reporter तिस्त महत प्रयादने सहस्रते एर्ण रहेको बाराचाँदै स्वास्थ्य नगायतका जेती विषयका

। विजयम विश्वविद्यालयाता । पाठ्यप्रश्वकाण प्राची अञ्चलकाण । प्राचीमा सावित अरको कारावी बावक रामभाई अधार्याक्र गर्न अनगरामको। गर्म नविका वा बहिकी देश क्रिकावक इसी बांची हा र वी बांची यस परिएका बनसञ्जानका नीतना नना परियोजसभाषात्र सेती रहमस्य कर याँच नेपालको असलीय जवस्या गरिएको पति तने भारत वास्त तन्भाते ।

अनुसन्धान निया नेपानको सन्दर्भम एपटीन विकासिकालयम मनसंख्या । नहीं प्राथिती र प्रभाववारी हते भएकाने स्वास्थ्यका हा नदस सिम्बदान यस्त अनुसन्तान नेपानके एन आवरण्ड



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नेपालमा स्वास्थ्यक्रमान्त्री जनसम्बानत संस्थापन अभ्या चीच व्यक्तिगत तपरसा संभागन महरहेको सलाउँदै नेपालका Revelaurence at where from you क्षा अनुसार्वातात्राक्षको पहित्र अनुसार्वात स्तितफं क्षा मात्रे लेखो सन्दर्भमा ग्रम कार्यक्रम अन्तर्गत विश्वकृत्व क्यमा प्रशस्त अनुसन्धान अतिहास आधुनिय स्थाना प्रमानी मार्चल प्राप्त गर्न सक्ति प्राप्तवरी

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गरं नत्यांच धर्ने बताइएको छ । सहकातः पान were a supplement from ferwire growing at their

नेपालबाद स्थानबाजन तर पनि विकास एके सहस्रक एक परिचारताल । जान कामानु परिचार्क न एते। laten organie e unrudt und gu fufu vonum unfin voneffiguneren unruhung.

stemment apparture इन्स्यानका नामि नाम्ने परिवासकः पानियो समाने पवित्रो क्या गृहपात्र विक्रि समानवा कन्द्रीय मान्यानन पन अविद्युक्त हो । पाइक्कम निर्माण, बांबा को विश्वासमा बांबाहित कार्यक्रममा तीन वर्षभाग भागतांतर पूर्व को अवस्थान र तेन्द्र कान्य अनुसन्धानारी। पुण्यानवीत प्राप्त माजप्रकार राजाने परियोजनाने विकित्ताविकान, समित्र । सामेद्रसी करण राने बताद्वरकी हु । विकि । विकित्त । वार्य मामानाद्व र प्रश्नाकाको लेखमा इक्त विका । योग्यो प्रसीवाहः प्राच्योपकः, क्ष्मगरिष्ट्रप्रभारत्यो समाह नुप्रसार प्रदान र लेकिन क्षेत्रमा प्रत्य विश्वार विद्यार्थी व पुरस्कानकताई सकेन वृद्धिमा नामि परेको सन्तापन क्षित्र व

अनुसन्धान आधारित अध्ययन



हाम्रो शिक्षाको पाठ्यक्रम फेरिन १० वर्ष लाग्छ। गुरुहरू आफुले पढेको करा मिनेटमिनेटमा परिवर्तन भइरहेको चाल पाउँदैनन्। समग्रमा हाम्रो शिक्षा अनुसन्धान र त्यसले देखाउने तथ्यमा आधारित छैन।

यही समस्यालाई सम्बोधन गर्ने कोसिस गरेको छ, उच्चशिक्षामा नेपाली शिक्षकलाई सघाउने परियोजना (परी) स्कटल्यान्डको एवर्डिन र बर्नेमाउथ विश्वविद्यालय, डीएफ आईडी तथा ब्रिटिस काउन्सिलकको सहयोगमा सञ्चालन हुने यो परियोजनाले विद्यार्थी र शिक्षकलाई वर्षौ अघि

लेखिएका पुस्तकका आधारमा नभई भखरे गरिएका अनुसन्धानले देखाएका तथ्यहरूका आधारमा अध्ययनअध्यापन गर्न प्रेरित गर्नेछ।

'त्यसका लागि अनुसन्धान गरिएका दस्तावेजहरूमा शिक्षक विद्यार्थीको पहुँच बढाउन खोजिएको छ', एवर्डिन विश्वविद्यालयका प्राध्यापक पदम सिम्खडा भन्छन्। त्यसँगरी बर्नेमाउथ विश्वविद्यालयका प्राध्यापक भ्यान तेइझिलेन भन्छन्, 'हामी हाम्रो विश्वविद्यालयमा भएका पाठ्यक्रम सुधार र अनुभवको आदानप्रदान गर्न तयार छाँ।'

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Central Department of Population Studies

Faculty of Humanities and Social Sciences
Tribhuvan University

Handbook for Research Methodology

Approaches and Techniques

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Conferences



- Bournemouth Univ. 2011 Global Vision Conference 'International development through collaborative evidence-based practice workshops in Nepal: an example of Internationalisation.'
- Reading, UK 2012 BNAC conference: 'Systematic review workshops on collaborative evidence-based practice for higher education institutions in Nepal'.
- Poster 13th World Congress on Public Health (Ethiopia, 2012), 'Improving Access to Health Research Literature for HE Institutions in Nepal' https://wfpha.confex.com/wfpha/2012/webprogram/Paper9064.html

Discussion points??

- Why do staff not know about resources such as HINARI?
- Can we build capacity that is fit for purpose? The more we train Nepal's health professionals the more employable they become in the West.



THANK YOU!













