

REGION 9 REGIONAL HEALTH RESEARCH CAPACITY ASSESSMENT REPORT

Philippine Council for Health Research and Development 6/22/2009

REGION 9

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PHILIPPINE COUNCIL FOR HEALTH RESEARCH AND DEVELOPMENT VICAR INTERNATIONAL HEALTH AND RESEARCH GROUP, INC.

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ACRONYMS

COA	Commission on Audit
DOST	Department of Science and Technology
DOH	Department of Health
HRC	Health Research Consortium
WMSU	Western Mindanao State University
NAST	National Academy of Science and Technology
NUHRA	National Unified Health Research Agenda
PCHRD	Philippine Council for Health Research and Development
PNHRS	Philippine National Health Research System
RHRDC	Regional Health Research Development Councils
RICUP	Research Information Communication Utilization Programme
RUHRA	Regional Unified Health Research Agenda
SOME	Structure/Organization Monitoring and Evaluation
ZCHRD	Zamboanga Council for Health Research and Development

I. Introduction and Objectives

The Zamboanga Consortium for Health Research and Development (ZCHRD) was organized in 2008. A total of 20 of the leading academic institutions and agencies in region 9 are part of the consortium.

Since then the consortium has undertaken a number of activities including the formulation of a strategic plan and a number of workshops designed to generate health research proposals to address the identified health research priorities.

This assessment is conducted to strengthen research and development in Region 9. Specifically the assessment will identify critical issues and gaps in health research and development in the Zamboanga peninsula and recommend measures that the health research consortium can use to improve the management and implementation of health research and development programs and activities.

II. Methodology and Activities Undertaken

The assessment was carried out by the members of the SOME with administrative and logistical support from PCHRD. Two members of the sub-committee on research management joined the SOME in some of the assessment meetings and sessions. The assessment team utilized the assessment framework and instruments developed by the SOME sub-committee for this purpose (see Annex A).

Two meetings were held as part of the assessment process. The first meeting was conducted on the morning of March 16, 2009 with health researchers and a meeting later in the afternoon with the members of the ZCHRD Advisory Council in attendance. A list of participants is attached (Annex B).

III. Findings and Observations

A. Overall Findings and Observations

The Zamboanga Consortium for Health Research and Development plays a vital role in the promotion of health research in Western Mindanao. Being one of the newly organized health research consortia, it is still facing growing pains especially with respect to its absorptive capacity and in the smooth and timely implementation of its planned activities. It does possess a lot of potential for making a significant contribution to the development of Mindanao through health research not only in Western Mindanao but also because of its proximity to the island provinces of Basilan, Sulu and Tawi-Tawi, three of the five provinces belonging to ARMM.

While the region was able to craft a research agenda and formulate a strategic plan, it still has to demonstrate its ability to fully utilize the information available in the RUHRA and address the major issues that it identified as part of its strategic planning exercise. The consortium also needs to address a number of organizational and structural issues that constrain the consortium from carrying out its plans and programs.

B. Preparation and Utilization of Health Research Agenda

1. RUHRA (2006-2010) was developed in 2005 but many health researchers are not aware of its content, significance and application.

In 2005, with assistance from PCHRD, three researchers from WMSU led the development of a health research agenda for region 9. The preparation process involved reviewing documents and data and stakeholder consultations. Four groups of priority research issues were identified namely: public health, healthy lifestyle, health of families and special populations, and cross-cutting issues such as health facilities, local health systems, health care financing and health care policies and legislation.

During the consultation with health researchers there was very little awareness among those who attended the consultation meeting with respect to the RUHRA. The researchers were not aware of any event or forum wherein the content of the RUHRA was discussed or presented. The researchers were also unaware of any activity or document that demonstrates applications of the RUHRA.

The Region 9 RUHRA can easily be downloaded from the PCHRD website.

2. The health research agenda does not include a systematic analysis of the identified priority needs.

A quick review of the RUHRA document shows that the priority areas for research do not provide a comprehensive epidemiological, social, economic

and policy-related description of the research issues involved. Such gap in the analysis of the research issues makes it difficult for interested institutions and researchers to position the potential contribution of their institutions and in the design and conduct of research studies.

The agenda also does not discuss how it can be utilized and translating the information it provides into an instrument for capacity-building, systems development and resource generation.

3. Strong interest to review the research agenda and transform it into an instrument that can be easily utilized and applied.

Both the group of researchers and the advisory council agreed that a review of the research agenda is in order and that the document needs to have more applications.

C. Health Research Manpower, Facilities And Capacity-Building

1. Researchers and governing board are confident that region 9 has the capacity to undertake r and d activities.

The presence of leading academic institutions in the consortium strongly support the claim of the health researchers and the Advisory Council that region 9 possesses the capacity needed to undertake health research activities based on the identified health research priorities.

This confidence however needs to be further validated and confirmed after a more comprehensive assessment of the facility and manpower capacities of region 9 as compared to the requirements in the RUHRA.

2. Region 9 has a list of capacity building activities for the period 2008-2010 as contained in the ZCHRD Strategic R and D Plan

A review of the consortium's three-year R and D plan shows that it has a capacity-building component. The plan includes an activity to conduct a training needs assessment and various training activities to develop the skills of researchers in the region. The plan is focused mainly on human resource development and does not make any mention about upgrading of facilities. There is also no mention of how the capacity building component relates to the RUHRA and the priority needs of the region.

- D. Funding and Logistical Support for Health Research
 - 1. Health researchers and the members of the advisory council agree that other than the funds provided by some academic institutions and what is being provided by some funding agencies, research funds are difficult to access and insufficient.

The group of health researchers and members of the ZCHRD Advisory Committee are in agreement with respect to the issue of inadequacy of funds that can be accessed by researchers in the region. Some of the large academic institutions such as WMSU and Ateneo de Zamboanga have their own research funds. However, these funds are not solely dedicated to the health sector and competition from the other sectors is stiff.

The funding support by PCHRD offered through the regional research funding mechanism is very much welcome although the researchers expressed some concern about the 100,000 pesos ceiling per research project.

2. The region has not come up with an estimate of its funding requirements based on the identified health research priorities.

An important application of the RUHRA is its translation into a resource mobilization plan or strategy based on an estimate of the cost of the research studies to address the identified priorities.

3. Institutional support for health research exists.

The health researchers and members of the advisory council claimed that member institutions have internal mechanisms that support the work of researchers. In academic institutions such support may be in the form of reducing the teaching load of researchers and some form of financial support for those who are invited to present their research papers.

E. Development of Research Proposals and Conduct of health Research studies

Through a series of training workshops on research design and proposal development, the ZCHRD was able to generate three proposals for funding under the grant provided by Pfizer. The proposals are in line with the identified health research priorities and are intended to address the health needs of adolescents, the

urban poor and strengthen the participation of civil society in the delivery of health services.

The proposals are still being reviewed by PCHRD.

F. Organization, Leadership and Management

1. The organizational structure of ZCHRD is composed of an advisory committee, a management committee, four working sub-committees and a secretariat

The health research consortium of Region 9 has an Advisory Committee that is responsible for setting directions and approval of policies, plans and budgets. Management and oversight is performed by the Management Committee with administrative support from a secretariat assigned by the regional office of DOST and WMSU. Four working sub-committees (please see Annex C) are responsible for carrying out the consortium's plans, programs and activities.

2. No provision in the organizational structure for the day to day management tasks and responsibilities

A review of the organizational structure shows that there is no one responsible for the day-to-day management of the activities of the consortium. The Management Committee does not meet often enough to carry out the required management tasks. To a certain extent the secretariat carries some of the management burden particularly in coordinating the work of the different working sub-committees. But there is danger of work overload as the staffs assigned to the secretariat are also doing full-time work and have other responsibilities in the institutions where they come from.

3. A strategic plan for 2008-2010 has been formulated by the ZCHRD

The 3 year development plan prepared by the consortium contains the basic elements of a well-crafted strategic plan. However, the plan does not appear to enjoy widespread support as many of the researchers who attended the consultation meeting expressed strong interest to subject it to a comprehensive review and revision. The document that was given to the committee for review also does not appear to be evidence-based as no data are offered to substantiate the strategic analysis conducted. The plan also does not include performance indicators without which progress in meeting the goals and objectives cannot be measured and determined.

4. Not all sub-committees are fully functional and there were significant delays in the implementation of the strategic and operational plans.

While the research and development and capacity building sub-committees are actively involved in the generation and review of research proposals and in the conduct of training workshops for health researchers, these activities are too far-in-between resulting in delays in plan execution and implementation.

Some researchers claimed that their membership in the sub-committees makes them less inclined to participate in the design and conduct of research studies under the regional research fund of PCHRD to avoid potential conflict of interest that may arise.

G. Information Dissemination and Utilization

In April of 2008, the ZCHRD organized a training course on the HERDIN Neon Research Database Management System. The course was conducted with technical assistance from PCHRD and resulted in the establishment of the system in the College of Nursing of WMSU. However, the system has not yet been adopted by the other institutions and no functional research database exists for region 9.

H. Ethics

Region 9 has a trained and functioning ethics committee. The committee has been involved in the ethical review of the research proposals that had been approved for funding by the consortium.

IV. Recommendations

Recommendations to the Region 9 Consortium:

1. Review and updating of the RUHRA

The consortium is encouraged to revisit the research agenda and update its content and render it more relevant. The revision should include a systematic

analysis of the research priorities and describe them along epidemiological, social, political and economic lines.

The revision should also include very specific recommendations and guidelines on how the agenda can be applied and put to use.

2. Expand the training needs assessment into a focused but more detailed assessment of the manpower and facilities of region 9 based on the priority research needs and use the results to enrich the existing 3-year capacity-building plan.

The existing effort to conduct a training needs assessment is a good start. However, it needs to be broadened to include other aspects of manpower development as well as the inclusion of the research facility requirements of the region. The results can be used to enrich and update the existing strategic plan.

3. Estimate funding requirements and development of a resource mobilization strategy.

Another important activity for the consortium is the estimation of the funding requirements based on the identified research priorities. To facilitate this process, the region may need to develop or adopt costing or estimation models.

Based on the estimates of the funding requirements and a review of the potential sources of funding, the consortium can then develop a resource mobilization plan or strategy.

4. Designation/Appointment of a manager or administrator who will be responsible for the day to day management of the activities of the consortium.

In order to ensure that the decisions and approved programs and activities of the consortium are carried out, a full-time manager or administrator needs to be designated or appointed. Because it may take time to carry out this recommendation, it is suggested that a member of the Management Committee be designated as acting executive director or manager to fill-up and bridge this organizational gap.

The funding support from PCHRD can be initially utilized to support the cost of hiring this staff. Ultimately however, the consortium needs to assume full

responsibility for this item particularly when it is able to generate its own resources.

5. Review and enhancement of the ZCHRD Strategic Plan

The consortium is encouraged to revisit the Strategic Plan of 2008 and make the necessary updating and revisions. The review should consider the use of the RUHRA as the anchor on which the strategic analysis of key issues and problems should be based. The use of the most current and updated information and a longer time-frame (5 years) be adopted.

Recommendations to the other subcommittees

1. Assistance to the consortium in the review of the agenda and in the application and utilization of the updated RUHRA

The different sub-committees of the PNHRS should support Region 9 in its efforts to update and enhance its RUHRA and strategic plan and in the streamlining of its operations. Specifically, the following recommendations are put forward:

- a. The Research Agenda Committee should provide guidance and support in the updating of the RUHRA
- b. The Capacity Building Committee to assist the consortium in translating the agenda into an instrument to assess the manpower and facilities of the consortium and in the development of a capacity-building plan or strategy.
- c. The SOME to assist the consortium in activating the different subcommittees and in the development of a monitoring and evaluation plan or strategy
- d. The Committee on Information Dissemination and Utilization to assist the consortium in the establishment of a research database and in setting-up a system to facilitate the dissemination and utilization of research studies.

Recommendations to PCHRD

In order to make the provision of funding and technical support to the Region 9 consortium more effective and efficient, the following changes to the current program of assistance are recommended:

- 1. Transform the assistance into a project-based mode wherein clear deliverables and outputs are defined. This could mean a multi-year agreement with the consortium based on the consortium's priorities and initiatives as described in its still-to-be-updated strategic plan. PCHRD should abandon the current practice of supporting short-term activities and proposals that are not anchored on the consortium's long-term plans and do not reflect clear outputs and results.
- 2. Introduction of clear terms of engagement and disengagement and performance-based mechanisms that would motivate the consortium to achieve the desired results.

A new agreement can be put in place that would position the program of assistance in accordance with the long-term goals and objectives of the consortium. Such agreement should be for a specific time period and should be geared towards more research-based activities and outputs rather than funding the operational activities of the organization.

The research-based project agreement should have capacity-building and resource generation components and should encourage institutional collaboration that emphasizes the institutional strengths and capacities. Fund releases could be structured in accordance with the consortium's ability to meet agreed upon benchmarks or development milestones.

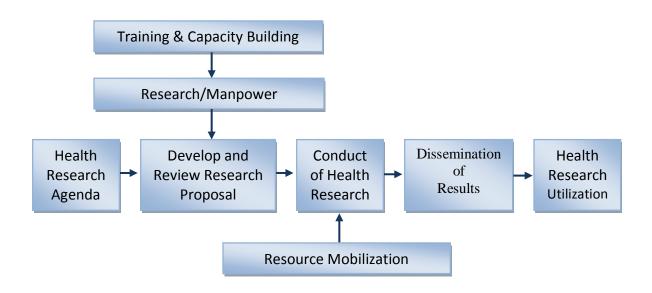
Annex A: Assessment Framework and Instruments

Framework for Developing Regional Capacity for Health Research

Under the PNHRS, the regions play an important role in undertaking health research activities to respond to the country's health needs and problems. Over the years, regional research activities were undertaken under the management and leadership of the Regional Health Research Development Councils (RHRDC). A recent evaluation of the RHRDC showed a wide variation in the performance of the 16 RHRDCs all over the country. The evaluation also recommended a number of strategies and approaches in order to improve the performance of regional capability to carry out and manage health research activities.

In line with this recommendation and in recognition of the strategic importance of the regions in supporting the PNHRS, the following framework is proposed to guide the PNHRS in strengthening regional capability to perform health research activities.

The framework consists of the different critical components of a research development program and a set of questions that identify key issues and problems as well as opportunities for strengthening the program.



Framework for Building Regional Health Research Capability

I. *Preparation and Utilization Health Research Agenda*: The health research agenda is a list of priority research areas in the region.

Some suggested principles and standards in the de3velopment of the regional research agenda:

- The research agenda should be based on local/national health problems
- There should be local evidence to support the research agenda
- The process of identifying the research priorities should be highly consultative and participative

A. Content

- 1. In 1998, was there a well-defined health research agenda for the region?
- 2. If yes, what was the basis for the identified research priorities? Is there evidence to support the priority research areas? Does the agenda respond to the health problems from a local as well as national perspective?
- 3. If no, what constrained the region from having one? What were the key problems and issues that prevented the region from developing an evidence-based regional agenda for health research?

B. Process

- 1. How was the research agenda developed? Who were involved in its development?
- 2. What were the problems and issues encountered in the formulation of the research agenda? What could have been done to make the process more effective?
- **II.** *Development of Research Manpower and Facilities*: Refers to the availability of skilled manpower to conduct health research in the region.

Some suggested principles/standards:

- Number should be adequate to carry out the planned research activities
- There should be expertise in research methods and in the technical areas based on the priority list

- 1. Is there adequate research manpower (experts in research design and methodology and experts in specific content areas as defined by the health research agenda) in the region to carry out the region's health research plan?
- 2. If no, what is being done to address the lack of manpower? Is there a training program in place? Does the region possess the capacity to develop the skills of local researchers? What constraints are being encountered in the area of training and capacity-building?
- 3. Are there opportunities (institutions or individuals) that can be tapped to strengthen existing health research manpower?
- 4. What kind of support does the region expect from the national level to help develop the skills of local researchers?
- **III.** *Resource Mobilization*: Refers to the capacity of the region to mobilize funds and other resources for health research.
 - 1. Are there enough funds to carry out the planned research activities?
 - 2. If no, what are the constraints in mobilizing resources for research?
 - 3. Are there potential funding sources within the region that can be tapped for health research?
 - 4. What kind of support the region will need from the national level to develop regional capability to mobilize resources for health research?
- **IV.** *Development and Review of Research Proposals:* Refers to the capacity of the region to appraise submitted research proposals for content, design, and methodology
 - 1. In 2008, what is the quality of research proposals submitted in terms of content, design, and methodology?
 - 2. Are the specific content areas as defined by the health reseach agenda?
 - 3. If no, what were the reasons why?
- V. *Conduct of Research Studies*: Refers to the research output of the region both in terms of quantity and quality.
 - 1. In 2008, were the planned research studies conducted?
 - 2. If no, what were the reasons why?

- 3. Were the researches that were conducted of good quality?
- 4. If no, why? What can be done to improve the quality of health research in the region? What kind of support the region will need from national levels to make this happen?

VI. Research Dissemination

- 1. Were the researches that were conducted in 2008 disseminated? How?
- 2. If no proper dissemination was done, what were the constraints? Were the completed researches published?
- 3. Are there opportunities that can improve research dissemination in the future?

VII. Research Utilization

- 1. Were the research results utilized? How
- 2. If no, why? What were the constraints? What can be done to help improve the utilization of the research results?

VIII. Leadership and Management

- 1. Is the current composition of the governing council in the region adequate?
- 2. If no, what are the reasons why?
- 3. Is there a strategic plan in place for health research and development in the region? If none, why? What kind of assistance will the region need to make this happen?

Region 9 - Guide Questions for Review of Documents

1. Guidelines for Research Agenda

1.1. Is the research agenda evidenced based?

Remarks:

Lacks parts on epidemiological, sociological, economic and policy

1.2. Does the research agenda cover the following?

Epidemiological	Yes	🖂 No
Sociological	Yes	🖂 No
Economic	Yes	🖂 No
Policy	Yes	🛛 No
	Epidemiological Sociological Economic Policy	SociologicalYesEconomicYes

Remarks:



1.3. Does the agenda contain the recommendations and steps to ensure its utilization?



2. Plan

2.1 What kind of plan do they have?

🖂 Str	ategic Plan	0	perational	Plan
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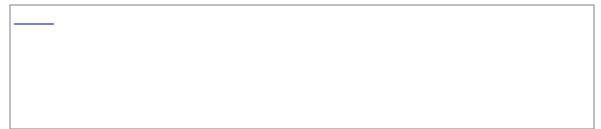
Remarks:

<u> 3 Year Strategic Plan</u>

2.2 Does plan clearly contains the following?

2.2.1	Objectives and Goals	Yes	□ No
2.2.2	Indicators	Yes	🖂 No
2.2.3	Strategies	Xes Yes	🗌 No
2.2.4	Activities	Yes Yes	🗌 No
2.2.5	Budget	Xes Yes	🗌 No
Remar	·ks:		
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2.3 Are the activities conducted as scheduled? \Box Yes \boxtimes No



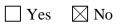
2.4 What is the percentage of fund utilization?





3. Organizational Structure

3.1 Does the organizational structure reflect the need for day-today management and oversight?



Region 9 - Guide Questions for Health Researchers

1. Formulation of Health Research Agenda

1.1. Are you aware of the existence of a regional and national health research agenda?

Yes	🛛 No
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1.2. Have you seen or do you have a copy of these documents?

Yes	🖂 No
-----	------

Remarks:

The researchers expressed a strong desire to do a comprehensive review and revision of the ZCHRD research agenda.

- 1.3. Were you able to participate in the discussions leading to the formulation of the NUHRA/ RUHRA?
 - Yes No
- 1.4. Were you able to participate in a forum where the Regional Health Research Agenda was discussed?

Yes No

1.5. Are you aware whether or not the Regional Health Research Agenda was used in the following?

1.5.1.	Capacity building plan	Yes	🛛 No
1.5.2.	Resource mobilization plan	Yes	🛛 No
1.5.3.	Advocacy tool	Yes	🛛 No

2. Adequacy of Health Researchers, Research Facilities and Existence of Capacity Building Plan

- 2.1 Are there enough skilled researchers in the region to undertake health research based on the identified health research priorities?
 - Yes No
 - 2.1.1 If No, why?

- 2.2 Are there health research facilities in the region where research are conducted based on the identified health research priorities?
 - Yes No
 - 2.2.1 If No, why?

2.3 What needs to be done to strengthen health research manpower in terms of number and skills?

Skills development through training of research manpower

2.4 Is there a long term capacity building program to continue to train health researchers in the region?

\sum	Yes Yes	🗌 No										
ZCHRD	has	a 3-year	Strategic	Plan	for	2008-2010,	but	the	plan	is	not	widely
dissemin	ated a	nd lacks o	clear goals,	result	are	as and perfor	man	ce ind	dicato	rs.		

3. Adequacy of Funding and Logistical Support for Health Research

3.1 Where do you get funding support for your research activities?

Within individual member institutions, other funding institutions

3.2 Are these funds sufficient given what you need? \Box Yes \boxtimes No

Remarks:				

3.3 Have you received funding support from the RHRDC through the RRF?

	Yes No
3.3.1	If no, why?
	-

3.4 Under PCHRD fund, there is a ceiling of PhP 100,000 per proposal. Do you think this is adequate?



3.4.1 If not, do you have any recommendations to make this funding mechanism more effective?

Increase the ceiling amount for RHRDC funding to greater than P100,000

4. Preparation of Research Proposals and Conduct of Health Researches

4.1 How many research proposals have been



prepared?

4.2 How many health researches have you completed in the past two years (2007 and 2008)?



5. Health Research Dissemination and Utilization

5.1 Is there an existing system to disseminate the results of the research study?

🗌 Yes 🛛 🖾 No

5.1.1 If yes, how do you disseminate the results of the study?

5.2 What are the usual problems in the dissemination of your research findings?

5.3 Did any of your researches contribute to the formulation of policies or helped health managers or health workers make informed decisions?

Yes	🖂 No	Do not know
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- 5.3.1 Please elaborate.

Region 9 - Guide Questions for Council Members

1. Health Research Agenda:

- 1.1. Is there a well-defined health research agenda for the region? \square Yes \square No
- 1.2. How was the research agenda developed?

<u>A group from WMSU was tasked with creating the research agenda for ZCHRD.</u>

No No

Yes

1.3. Was the research agenda utilized?

1.3.1. How was it utilized?

2.	Manpower,	Facilities and	Capacity	Building Plan	

2.1 Do you have an inventory of health research manpower and research facilities based on your identified research needs?

 \boxtimes Yes \square No \square Don't Know

2.2 Is there adequate research human resource in the region to carry out the region's health research plan?

🛛 Yes	No	Don't Know
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2.2.1	In researc	ch design a	nd methodology?	🛛 Yes	🗌 No	Don't Know
2.2.2	In specific	content are	as as defined by the	e health res	earch ager	nda?
	Yes	🗌 No	🛛 Don't Know			
2.2.3	If no, what	was the re	gion's response to t	the lack of h	numan res	ource?
	-					
2.3 Do yo region	1	n to develo	op your health resea	arch manpo	wer based	on the needs of the

🖂 Yes	No	Don't Know	

Remarks:

A training in	"Needs Assessment	Survey in H	ealth Research"	' was conducted in	December
2007.		-			

2.4 Based on your requirement, does the region possess the capacity to develop skills of local researchers?

🛛 Yes	No	Don't Know

2.4.1 If yes, please cite the training programs [consider also offerings at member institutions]

Formal:		

Informal:
Training Workshop in Conduct of Health Research, HERDIN NEON System
Training, Seminar-Workshop on Ethics in Health Research
Scholarship Grants:
Study Tour:

2.5 Are there mentors who can be tapped for capacity building in research?

🛛 Yes	No No	Don't Know
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2.5.1 If YES, please specify in what areas:

Conduct of Health Research i.e. research design, methodology and proposal design

2.6 What kind of support does the region expect from national, regional and international levels to help develop the skills of local researchers?

Technical assistance, funding, guidance in crafting a strategic plan

3. Resource Mobilization:

Refers to the capacity of the region to mobilize funds and other resources for health research

3.1 Do you know how much is your funding requirement for your priority research needs?

🗌 Yes 🛛 🖾 No

3.2 Are there enough funds to carry out the planned research activities? \Box Yes \boxtimes No

3.3 Has an annual work plan and budget been proposed?

י 🛛	Yes,	when	was	it	prepared?	
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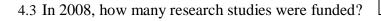
- No No
- 3.4 What kind of support does the region expect from the national, regional, and international levels to develop regional capability to mobilize resources for health research?

tech	nical d	assista	nce an	nd fund	<u>ding</u>	

4. Development, Approval and Conduct of Research Studies:

- 4.1 In 2008, how many proposals were produced by the consortium?
- 4.2 In 2008, how many proposals were reviewed in terms of ethics, methodology, content and utilization?

4.4 In 2008, how many research studies were





<u>3</u>



completed?

- 4.5 Were the proposals parts of the NUHRA/RUHRA? 🛛 Yes 🗌 No 🗌 Don't Know
- 4.6 If the researches were not implemented or not part of NUHRA/RUHRA, what were the reasons?



5.1. Does the consortium have an established system for dissemination of research results?

	Yes	🖂 No	🗌 Don't Know
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5.2. Were the researches that were conducted/completed in 2008 disseminated?

Yes	No	🗌 Don't K
-----	----	-----------

- Don't Know Not applicable
- 5.3. Were the research results disseminated to the relevant stakeholders?
 - \Box Yes \Box No \Box Don't Know \boxtimes Not applicable

5.4. How were the results disseminated?

Published in peer-reviewed journals:

Policy Briefs:

Public Presentations:

	Web-based media:
5.5	Do member institutions integrate in their research forums dissemination of the results

of researches in the region?

Yes	No No	Don't Know
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5.6. What were the facilitating factors to research dissemination?

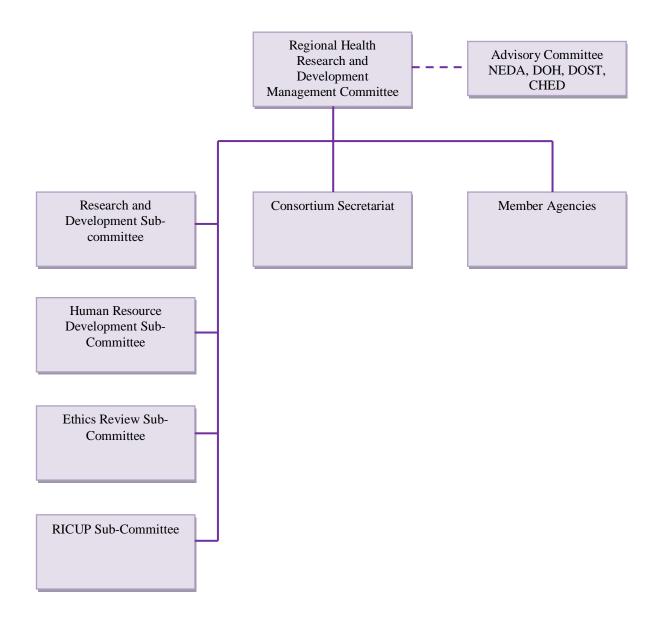
5.7. What were the barriers to research dissemination?

5.8. Is there an existing database of research studies conducted in the region?



6. Leadership and Management

- 6.1. Describe/draw the organizational structure of the governing council:
 - Member composition of ZCHRD is primarily institutions based in Zamboanga City.



6.2. Who is responsible for the daily operations of the consortium?

No one. Secretariat performs some of the adminsitrative responisbilities.

6.3. Which of the following subcommittees are functional? Check appropriate boxes.

R&D	S Functional	NOT Functional
Ethics	Functional	NOT Functional
HRD	Functional	NOT Functional
RICUP	Functional	NOT Functional
	Functional	NOT Functional
	Functional	NOT Functional
	Functional	NOT Functional

6.4. Define the roles and responsibilities of the members of the governing council:

See attachment (i.e. ZCHRD Organizational Structure)		

6.5. Is there an existing Manual of Operations?	Yes	🛛 No	Don't Know

Remarks:						

6.6. Do you have a five-year strategic plan? (Get a copy of the document)

Yes	🛛 No	Don't Know
-----	------	------------

Remarks:

Only a 3-Year Strategic Plan was made.			

6.7. Do you have an operational plan for 2009? (Get a copy of the document)

🛛 Yes	🗌 No	Don't Know
-------	------	------------

Annex B: Conference Proceedings and List of Participants

ZAMBOANGA CONSORTIUM FOR HEALTH RESEARCH AND DEVELOPMENT (ZCHRD)

I. SOME ASSESSMENT TEAM AND TECHNICAL STAFF

Name	Institution
1. Dr. Joe Rodriguez	SOME Committee member
2. Prof. Nina Castillo-Carandang	SOME Committee member
3. Merle Opena	PCHRD
4. Annie Catameo	PCHRD
5. Lina Aquino	PCHRD / ARMM Project Officer
6. Belle Intia	PCHRD
7. Christopher Santiago	Documenter

II. MEMBER INSTITUTIONS OF ZCHRD

- 1. Western Mindanao State University (WMSU)
- 2. DOST-9
- 3. DOH-9
- 4. CHED-9
- 5. Dept. of Education-9
- 6. DILG-9
- 7. NSO-9
- 8. NSCB-9
- 9. POPCOM-9
- 10. National Nutrition Council-9
- 11. Zamboanga City Health Office
- 12. Phil. Health Insurance Corporation Regional Office No.9
- 13. Zamboanga Medical Research Foundation
- 14. PIA ZAMBASULTA Information Center
- 15. Ateneo de Zamboanga University
- 16. Universidad de Zamboanga
- 17. Private Hospitals Association of the Phil.
- 18. Zamboanga Coalition of Development NGOs

- 19. Nagdilaab Foundation, Inc.
- 20. Phil. Medical Association
- 21. Phil. Nurses Association, Zamboanga City Chapter

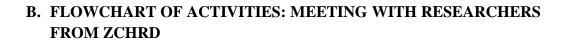
III. MEETING WITH RESEARCHERS FROM ZAMBOANGA CITY – March 30, 2009

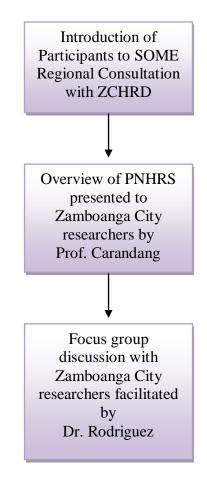
A. ATTENDANCE

Profile of Participants

- Gender of Participants:
 - \circ Male = 4
 - \circ Female = 7
- Institutions Represented by the Participants
 - \circ Academic = 2
 - \circ Government Agency = 2
 - \circ Hospital = 1
 - \circ NGO = 1
 - \circ Private = 1

Name	Institution				
1. Marie Faith Dagapicio	Katilingban				
2. Ma. Agnes Mabolo	DOH-CHD 9				
3. Servando Halili	Ateneo de Zamboanga University				
4. Rex Samson	Ateneo de Zamboanga University				
5. Ricardo Angeles	Zamboanga City Health Office				
6. Florence Alcazar	Phil. Nurses Association				
7. Mirabel Ho	WMSU				
8. Grace Rebollos	WMSU				
9. Gloria G. Florendo	WMSU				
10. Jejunee Rivera	Zamboanga City Medical Center				
11. Myrna Angeles	Zamboanga City Medical Center				





C. FINDINGS FROM MEETING WITH ZAMBOANGA CITY RESEARCHERS

Summary of Responses to "Guide Questions for Health Researchers"

- 1. Formulation of Health Research Agenda
 - The participants agreed that there was a need to further define the previously identified research priorities for Region 9.
- 2. Adequacy of Skilled/Competent Health Researchers

- Zamboanga City has small research community as there are few, albeit competent, health researchers in the area.
- Capacity building and further training was identified as a means to improve the skills of health researchers from Zamboanga City.
- 3. Adequacy of Funding and Logistical Support for Health Research
 - Health research within the area is mostly donor-driven.
 - Sources of funding include individual academic institutions, private corporations and in some instances, the researchers themselves.
 - It was noted that there is a lack of facilities in Zamboanga City dedicated solely to health research.
 - Partnership between member institutions through collaborative research was found to be a means to address the lack of resources.
- 4. Health Research Conduct,
 - Health service delivery is a priority topic for health researchers from Zamboanga City.
 - The relatively low output of health researchers from Zamboanga City was associated with the fact that in addition to their research projects, many have full-time employment.
 - The majority of health research in Zamboanga City is being done within academic institutions by students and faculty.
- 5. Health Research Conduct Dissemination and Utilization
 - Participants feel strongly about the need for the health research output to be communicated at the community level and the need for involvement of sectors outside health.
 - It was agreed upon that ZCHRD should create venues for health research output presentation such as a journal publication and a regular research forum.
 - The assessment team found that there is a need for an inventory of health researches done by researchers from Zamboanga City.
 - The research database for ZCHRD in the planning stages. Despite this, two institutions particularly WMSU and Ateneo de Zamboanga have their own database for research output.
- 6. Leadership and Management
 - Further support and cooperation from DOH CHD-9 was noted by the participants.

- ZCHRD membership only city-wide and is limited to institutions within Zamboanga City.
- The majority of ZCHRD committee members are also researchers themselves.

IV. MEETING WITH MEMBERS OF ZCHRD MANAGEMENT COMMITTEE – March 31, 2009

A. ATTENDANCE

Profile of Participants

- Gender of Participants
 - \circ Male = 1
 - \circ Female = 5
- Institutions Represented by the Participants
 - \circ Academic = 2
 - \circ Government Agency = 2
 - \circ Private = 1

Name	Institution
1. Susan dela Cruz	WMSU
2. Rosthel Almazan	WMSU
3. Servando Halili	Ateneo de Zamboanga University
4. Thelma Diego	DOST-9
5. Ma. Agnes Mabolo	DOH-9
6. Myrna Angeles	ZCMS

B. FLOWCHART OF ACTIVITIES: MEETING WITH MEMBERS OF ZCHRD MANAGEMENT COMMITTEE



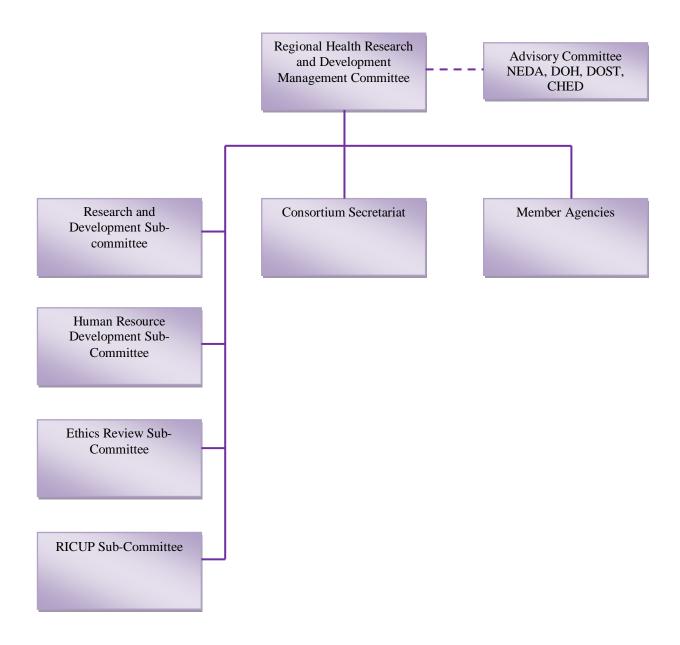
ACCOMPLISHMENT REPORT 2008

- 1) Project Title: Training Needs Assessment Survey Health Research Date of Implementation: December 2007
- Project Title: Training Workshop in the Conduct of Health Research Date of Implementation: April 15-18, 2008
- Project Title: HERDIN NEON System Training Date of Implementation: April 16-18, 2008
- 4) Project Title: Development of ZCHRD Directory

Date of Implementation: February 2008

- 5) Project Title: ZCHRD Subcommittee Meeting Date of Implementation: September 4, 2008
- 6) Project Title: ZCHRD-RICUP Subcommittee Meeting Date of Implementation: September 11, 2008
- 7) Project Title: ZCHRD R&D Subcommittee Meeting Date of Implementation: September 2008
- 8) Project Title: Seminar-Workshop on Ethics in Health Research Date of Implementation: November 13-14, 2008

Annex C: Region 9 Organizational Structure



ORGANIZATIONAL FUNCTIONS (Region 9):

Advisory Committee

- 1. Provides central direction, leadership, and coordination of all health R & D activities in the region;
- 2. Establish policies and guidelines, in consultation with stakeholders in the identification of priority health R &D programs and projects in the region;
- 3. Review and approve health research programs and related activities of the consortium;
- 4. Oversee the overall implementation, monitoring and evaluation or programs;
- 5. Ensure resource generation and mobilization; and
- 6. Develop awards and incentives system.

Management Committee

- 1. Assist the Board of Trustees in the conceptualization, planning, and implementation of the various programs/projects and related activities of the CHRDC;
- 2. Promote the development of research capacity and linkages on health R & D
- 3. Establish monitoring and evaluation mechanism to ensure long-term sustainability of the Consortium; and
- 4. Conduct periodic review of health t=research and development programs and recommends the same to the Board of Trustees.

Sub-Committee on Research and Development

- 1. Identify research programs and projects in accordance with the National Unified Health Research Agenda (NUHRA) and regional health agenda;
- 2. Evaluate research proposals and provide technical assistance in the development and actual implementation of health research and development projects; and
- 3. Monitor and evaluate the implementation of approved health research projects

Sub-Committee on Ethics

- 1. Develop consortium's guidelines on ethical standards and practices in health research;
- 2. Facilitate the institutionalization of ethics review committees in health research organizations in Region 9;

- 3. Provide training and advocacy activities on bio-ethics for members of institutional ethics review bodies;
- 4. Review proposals as to compliance of ethical standards; and
- 5. Monitor compliance to ethical and other standards of on-going projects.

Sub-Committee on Research Information, Communication, and Utilization

- 1. Develop mechanism to facilitate dissemination and utilization of research information to various target clients;
- 2. Collect and package research information for database development; and
- 3. Collaborate with government, private sector, and non-government organizations for the use of health research results into policies, actions, products, and services.

Sub-Committee on Human Resource Development

- 1. Assess the human resource requirements for health research of the institutions within Region 9;
- 2. Develop a comprehensive health research human resource development plan and monitor its implementation; and
- 3. Establish a sustainable mechanism for sharing of resources and exchange of expertise and information.

Annex D: NUHRA Region 9 Agenda (Downloaded from http://www.pchrd.dost.gov.ph/downloads/category/5-nuhra.html)

HEALTH STATUS AND **RESEARCH PRIORITIES** IN REGION IX

GRACE J. REBOLLOS CARMEN T. RAMOS ROSALYN R. ECHEM Western Mindanao State University Zamboanga City

1

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HEALTH RESEARCH STATUS AND PRIORITIES FOR REGION 9

Introduction

The delivery of health service has always been of key importance to our community. With the continuing struggle against poverty and the efforts toward social and economic development, we recognize the need for a healthy citizenry. Meeting this need has even assumed a greater significance after the devolution of services to local government units in 1992.

The timeliness, quality, and efficiency of health services delivery depend on supports such as health research. Yet from interviews and observations, there is broad agreement that this concern has not really taken off in spite of the acknowledged advantages of carrying it out. The situation of Region 9 may not vary much compared to those of other places. Yet its health conditions are unique because of its particular geography, economy, cultural make-up, and other features.

This report takes off from previous attempts to present the need for health information for the Region. It recognizes the advantage of applying other disciplines and perspectives - sociological, economic, political, anthropological, environmental, and geographical - to the process of sensing the health situation. This broader analytical approach allows for a more realistic appreciation of the Region's health picture.

Area Profile: Geography, Demography, and Economy

Geographical Situation

The Zamboanga Peninsula, also known as Region IX, is in the southernmost portion of the country. It is the second smallest region in Mindanao (14.13% of land area), with a total land area of 18.730.1 square kilometers. Its vast expanse of water is speckled with a chain of 958 islands and islets. It is strategically located to serve as a natural gateway to countries comprising the Association of Southeast Asian Nations (ASEAN).

The Zamboanga Peninsula region, as it is known now, was formerly Western Mindanao. It now has three provinces and five cities - the provinces of Zamboanga del Norte, Zamboanga Sibugay, and Zamboanga del Sur and as well as the cities of Dapitan, Dipolog, Pagadian, Zamboanga, and Isabela.

The creation of Zamboanga Sibugay in 2004 and the realignment of Basilan with the Autonomous Region of Muslim Mindanao (ARMM) with the exception of Isabela which likewise became a city together formed the major change in the region's composition in 2001. The region has 77 municipalities and 2,112 barangays (NSO 2004).



Figure 1: Map of Zamboanga Peninsula 1

The seat of government for Zamboanga del Sur is Pagadian City while that of Zamboanga del Norte is Dipolog City. Zamboanga City exists as a separate charter with its congressional representative.

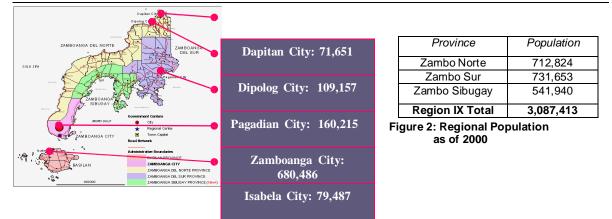
Zamboanga del Sur is the largest province in Zamboanga Peninsula (6,637.3 square kilometers). There are two cities situated in this province, Pagadian and Zamboanga City. Zamboanga del Norte, on the other hand, is the second largest province (6,183.1 square kilometers) with two cities, namely Dipolog and Dapitan.

In sum, the cities of Zamboanga, Dipolog and Pagadian serve as the centers of trade, commerce and education in the region. Zamboanga, the "Queen City of the South", is a tourist destination besides being considered as the busiest city in Western Mindanao. It is located within 1,000 mile radius from Brunei Darussalam, Eastern Indonesia, East Malaysia.

Demographic Data

Population and Growth Rate

In 2000, Zamboanga Peninsula had a total population of 3.1 million (NCSO, 2003), representing 3.7 per cent of the country's population. This is broken down by area as follows:



The regional population figure increased by 296 thousand over the 1995 census figure of 2.8 million (with September 1, 1995 as reference date) and 632 thousand over the 1990 census figure of 2.4 million. This population figure represents 562,180 households, with a household size of 5.49.

The region's population grew at the rate of 2.18 per cent in the second half of the nineties. This means that during this period, the population increased by 59 thousand persons per year on the average, or seven (7) persons per hour. If the population annual growth rate continues at 2.18 percent, then the population of ZAMPEN is expected to double in 32 years. After the 90s, the average annual growth rate of the region has increased to 2.42, with Zamboanga City alone having a rate of 3.65 per cent. This is because the city has been a common destination for in-migrants fleeing violence and dire conditions in their provinces.

Among the three (3) provinces and one (1) highly urbanized city in ZAMPEN, Zamboanga del Sur (excluding Zamboanga City) registered the largest population at 731,653 persons, followed by Zamboanga del Norte with 713 thousand persons, and Zamboanga Sibugay with 541,940. Basilan had the smallest population at 333 thousand persons.

Basilan was the fastest growing province in the region with an average annual growth rate of 2.58 percent, while Zamboanga del Norte was the slowest with 1.42 percent.

Zamboanga del Sur was the most populated among the three provinces in Zamboanga Peninsula (Region IX), comprising 23.7 percent of the 3.1 million persons in the region followed closely by Zamboanga del Norte with 23.1 percent.

Age and Sex Distribution

Zamboanga Peninsula had a median age of 20 years. This showed that in 2000, half of the population was below 20 years old. In 1995, the median age was 19 years. Zamboanga City had the highest median age of 20 years, followed by Basilan and Zamboanga del Norte, (both 19 years). On the other hand, Zamboanga del Sur had the youngest at 18 years. The sex ratio was recorded at 103. This meant that in this region, there were 103 males for every 100 females.

Dependency Ratio

In ZAMPEN, 57 percent of its total population belonged to productive ages or economically active population (15 to 64 years old). On the other hand, the young dependents (aged 0 to 14 years) accounted for about 40 percent while more than three percent were old dependents (aged 65 years and over). The overall dependency ratio in 2000 was 77. This meant that for every 100 persons aged 15 to 64 years, there were about 77 dependents, i.e., 71 young dependents and six old dependents.

Natural Resources

The region has vast forest resources and previously used to export logs, lumber, veneer and plywood. Its mineral deposits include gold, chromite, coal, iron, lead and manganese. Among its non-metallic reserves are coal, silica, salt, marble, sand and gravel. It has the biggest deposits of lead or 84%0 of the national total, zinc 49%, quartz, 52% and silica sand, 34%. It also has deposits of chromite, gold and marble. It is the major supplier of coal and silica sand in the country.

The region's marine resources are partly indicated by the length of its coastline estimated at 700 kilometers or about There are five (5) major fishing grounds for commercial and municipal fishing in the region. The first is in Zamboanga del Sur particularly in Moro Gulf. The second is in Zamboanga del Norte, the Sindangan Bay, and the third is in Basilan, the Pilas Channel. The other two are the neighboring fishing grounds of Sulu and Celebes Seas. Its coastline boasts of different fish species like tuna, sardines, mackerel, round scad, anchovies, and groupers. The region is also a major source of sea corals, pearls, ornamental seashells and other marine products (DTI, 2000). It has also aqua farms for brackish water and freshwater fishes.

<u>Economy</u>

The Zamboanga Peninsula has the first export-processing zone in Mindanao. Farming and fishing are the main economic activities of residents in the region. There are also rice and corn mills, oil processing, coffee berry processing and processing of latex from rubber. Its home industries include rattan and furniture craft, basket making, weaving and brass work.

The region is one of the top producers of rubbers, mango, banana and other tropical crops like mangosteen and lanzones in the country and rubber is one of the priority crops of Western Mindanao. To date, 52,162 hectares are planted to rubber, the bulk of which are in the Provinces of Basilan, Zamboanga Sibugay, Zamboanga del Norte, Zamboanga del Sur and Vitali, Zamboanga City.

ZAMPEN is the No.1 rubber-producing area in Mindanao, contributing nearly 50% to the total rubber output of the country. Over the years, however, the industry has not expanded significantly and attained a level of distinct competitiveness as envisioned. Despite its seemingly bright prospect both in the domestic and world market, the industry is plagued by a number of constraints requiring short and long-term concrete solution.

Zamboanga Peninsula's domestic economy ranks second in the entire Mindanao with an increase of 4.5% in 2003 compared to the region's economic performance in the year 2002.

According to NSCB (2002), the growth in Zampen's economic performance was mainly because of the good performance of the combined agriculture, fishery and forestry sectors. Although forestry sub-sector declined to 19.1 percent, it only represented 0.3% of the total output of the agriculture sector, and was easily offset by the growth in agriculture and fishery sub-sectors.

The agriculture, fishery and forestry sectors, accounted for 50.8% of the total economy of the region, manage to grow by 3.8% in 2003. The exclusion of the six municipalities of Basilan Province, which opted to join ARMM, had tremendously affected the agriculture sector in the region.

Industry, which accounted for 15.09% of the region's total output, grew by 3.2%. The industry sector of the region is characterized by a proliferation of small and medium-

scale companies. Most manufacturing activities are based in the cities of Zamboanga, Dipolog, and Pagadian (DTI, 2002).

With its rich mineral deposits, the Zamboanga Peninsula is a major supplier of lead, zinc, quartz, silica sand, chromite, gold, marble. Mining and quarrying reportedly had the highest growth of 16.5%. This was also due to the increase production of non-metallic products, particularly pebbles and filling materials.

Manufacturing on the other hand, reported a 5.2% growth with the increase of outputs of the food manufacturers in the region.

The service sector, accounted for 34.05% of the region's economy, posted a growth rate of 6.2% with transportation, communication and storage and trade showing the highest growth rates of 13.6% and 6.2% respectively.

The Gross Regional Domestic Product (GRDP) of the region exhibited a 5.2 per cent growth for 1999-2000. Per capita GRDP is P8,240.00.

The overall inflation in the region tapered off for the fourth consecutive month in November 2001 due to softer prices of food, fuel and services.

Facilities

Transportation. Land, air and water transport are available in the region. Buses and jeepneys are the main land transport. Inter-island ships and airlines service passengers to and from Manila, Cebu, Zamboanga and other island provinces almost daily. Both the government and private sectors provide telecommunication facilities. Cities also have post offices and telegraph stations.

There are ten government seaports and several private ports in the region. These include Pulauan, Liloy, Siocon, Zamboanga (port of entry), Isabela, Lamitan, Subanipa, Ipil, Naga, and Pagadian port. Sea routes to the BIMP-EAGA also include a direct ply from Zamboanga to Sabah.

Power. The Mindanao Power Grid Transmission Lines' extension into the Zamboanga Peninsula has substantially reinforced the power supply of the region. The National Power Corporation's power barges which supply 65 megawatts of power augment the power supply of the region so with the 100 megawatts barge in Sangali, Zamboanga City.

Water. As of 1996, only approximately 45% of the potential irrigable area of 62,600 hectares are irrigated. Only 40% of the region's population have access to water and the 60% can get their drinking water from rivers, lakes and open ponds. At present, sixteen water districts service the water needs of the populace. People living in rural areas tap water from shallow and deep wells.

Telephone. All carriers in the region have already installed 30,514 telephone lines with a working capacity of 18,549 lines. Telephone services are mainly provided by the Philippine Long Distance Telephone Co. (PLDT). Facilities provided include local trunk and international networks with direct dialing access. PILTEL also provides telephone services. Cellular phone services are now available in the region with PILTEL, SMART and Globe Telecom giving services.

Postal Services. Postal services cover international and domestic mails, post office boxes, money remittances, business postal cards, parcels and fax transmission. The region has 122 post offices, 6 telex stations and 3 facsimile service facilities. Currently, five (5) local

INTERNET Service Providers (ISPs) are operating in the city. These are Jetlink, ZAMBONET, I-next, Net Access and Philweb.

Regional Development Potentials

The region's potentials for development are the following :

- 1. The proclamation of Regional Agro-Industrial Center (RAIC) as special ecozone.
- 2. Provincial Agro-Industrial Centers and People's Industrial Enterprises
- 3. ZAMBOECOZONE or the Zamboanga Free Port
- 4. Its strategic location vis-a-vis its neighboring ASEAN countries
- 5. The BIMP-EAGA initiative

Poverty Incidence of ZAMPEN in 2002

Region IX's Poverty Threshold, which is the minimum yearly income required or the expenditure necessary to meet the food requirements and other non-food basic needs of an individual increased by 1.87 percent - from P9,511 in 2001 to P9,689 in 2002. This means that at the national average family size of five members (*Family Income and Expenditure Survey 2000, NSO*), an average family in Region IX needed at least, P4,037 monthly in order for them to have enough to buy food and other basic needs.

As expected, people living in urban areas had to spend more to survive than did folks in the rural areas. An average family needed a monthly income of P4,606 to survive in the cities compared to P3,908 for the rural dwellers.

A person living in Basilan had to have an annual income of P10,387, an individual living in Zamboanga Del Norte needed P9,619 a year while someone living in Zamboanga Del Sur required P9,639 annually to make ends meet.

The greatest increase in the poverty threshold from 2001 levels was 4.96%. This was observed in the urban areas of Zamboanga Del Norte. The increase was least felt in the urban areas of Basilan, with an increase of only 1.08%. However, in terms of peso amounts, Basilan appeared to be the most expensive place in the region to live in, where a family composed of five members needed a monthly income of P4,954 in the urban areas. (NSCB, 2002)

Provinces	Annua	al Per Capital	Poverty	Incidence of Fa	milies (%)	Incidenc	e of
	Po	verty Thresho	ld			Populatio	on (%)
Basilan		9, 2	71	:	26.2		32.7
Zambo. Del	Norte	9, 090		45.6		51.9	
Zambo. Del	Sur	9, 404		37.0		43.3	
Region IX		9, 298		38.3		44.5	
Source: (NS	CB Mar	ch 2003)					

Table 1: Provincial Poverty Threshold

Employment

About 1.2 million individuals were employed in the region, whereas unemployment rate was 7.8%. Underemployment rate was 19.2%. This figure may be higher with more workers seeking more hours or additional work, as present income is not enough.

HEALTH RESOURCES AND THEIR DISTRIBUTION

Health Human Resources

In Region IX, the Department of Health estimates that there are 556 doctors, 31 dentists; 732 nurses; and 1,062 midwives. Majority of these, however, work in the private sector and are engaged in private practice.

In 2004, the local government units of Western Mindanao employed 87 doctors, 40 dentists, 182 nurses, and 662 midwives, while the Department of Health employed 153 doctors, 6 dentists, 233 nurses, and 7 midwives. Table 2 below shows the ratio between government health workers to the population.

Health Workers	Standard Ratio	Actual Ratio					
Doctor	1:20,000	1:12,864					
Dentist	1:20,000	1:67,118					
Nurse	1:10,000	1:7,440					
Midwife	1:3,000	1:4,615					

 Table 2: Health Worker and Population Ratio 2004

The table above shows that there is sufficient number of physicians to attend to the medical needs of the population. However, most of the doctors are based in urban centers like Zamboanga City and the cities of Dipolog and Pagadian. Almost five out of 10 doctors in the whole region are in Zamboanga City. The ratio between dentist and the population exceeds the standard.

Health Facilities

More that ten years after the devolution of health services and facilities from the DOH to the local government units, 6 hospitals still remain under the DOH as retained hospitals. Interviewed DOH personnel have raised some concerns about the lack of personnel, equipment, facilities, and logistical support. Also expressed was the need to expand capacity to accommodate patients who sometimes proceed to the regional medical center in Zamboanga City, bypassing poorly equipped provincial and district hospitals. Yet 96 municipal health centers or rural health units are spread throughout the region and are manned, in addition to the nurses and midwives, by 7,547 barangay health workers and 2,446 trained birth attendants.

Almost all of the 71 hospitals in the region are general rather than specialized, with only 1 public tertiary and general services hospital. All these translate to a total bed capacity of 2,209 and a ratio of 1 bed for 1,398 persons. In Zamboanga City, bed capacity is about balanced between government and private facilities. In the provinces of Zamboanga del Norte and del Sur, as well as Dapitan City, there are more in government hospitals.

Table 5. Category of Hospitals and Type of Services, 2004						
Category of	General Services		Special	Total		
Hospital	Public	Private	Public	Private		
Primary	20	22	1	0	43	
Secondary	7	16	1	0	24	
Tertiary	1	4	0	0	05	
Total	28	42	2	0	72	

 Table 3: Category of Hospitals and Type of Services, 2004

CHD Report 2004

Of the hospitals in the region, there is only one public tertiary hospital for general services that serves the region's population. It is located in Zamboanga City.

Household Sanitation Facilities

Out of a regional household count of 562,180 households, it was found that majority (53%) had satisfactory garbage disposal facilities. About seven in ten households were with sanitary toilets. Water facilities were also determined by level, with nearly 30% availing of levels 1 and 3 water facilities. On the whole, only about one in three (33.4%) had complete sanitary facilities.

HEALTH STATUS OF THE REGION

Maternal and Infant Mortality

In almost 10 years, some improvements in health indicators have been registered. For example, infant and child mortality rates have declined from 1996 to 2004. One notes that infant mortality dropped from 13.51 per 1,000 live births in 1996 to 9.09 per 1,000 live births in 2004. Mortality rates for children under five was also noted to go down, from 98.33 per 100,000 population in 1997 to 57.91 per 100,000 population in 2004. However, these figures must be viewed with caution due to underreporting of deaths.

On the other hand, maternal mortality rates have not been uniform across the years, exhibiting a see-saw situation, rising steadily in 1998 (108.18 per 100,000 live births) and decreasing or improving in 2002 (80.27 per 100,000 live births). Toward 2004, however, a rise to 102.99 per 100,000 live births is observed.

By area, we note the high and low mortality areas of the region as follows:

HIGH MORTALITY AREAS		LOW MORTALITY AREAS		
AREA	RATE	AREA	RATE	
(Infant Mortality)		Zamboanga Sibugay	6.75	
Dipolog City	21.11	Zamboanga del Norte	6.64	
Dapitan City	18.07	Pagadian City	6.15	
Zamboanga City	17.04	Zamboanga del Sur	3.37	
(Maternal Mortality)		Zamboanga del Sur	94.43	
Pagadian City	239.32	Zamboanga Sibugay	91.99	
Dipolog City	137.68	Zamboanga del Norte	78.57	
Zamboanga City	123.55	Dapitan City	56.24	

 Table 4: Regional Mortality Areas

Leading Causes of Illness and Death

Communicable diseases appear to be the major cause of illness or morbidity. Among the top 10 leading cause of morbidity 6 of which affect the respiratory system. Noncommunicable causes emerge as well, like hypertension and injuries. The leading causes of morbidity are:

Table 5.	Table 5: Leading Causes of Morbidity					
Causes	Number	Rate				
1. Acute respiratory infection	88,565	3179.94				
2 Influenza	46,407	1666.25				
3. URTI / LRTI	33,389	1198.84				
4. Bronchitis	32,403	1163.44				
5. Diarrhea / Gastro-enteritis	32,329	1160.78				
6. Pneumonia	23,495	843.59				
7. Hypertension	21,954	788.26				
8. Injuries (All forms)	19,284	692.40				
9. Skin Disorders	15,965	57323				
10.TB (All forms	6,135	220.28				

Table 5:	Leading	Causes	of	Morbidity	
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Source: CHD IX, 2004

Mortality, on the other hand, is mainly traced to non-communicable causes. It is interesting that injuries (especially caused by trauma, accidents, gunshot wounds, assault by sharp objects) take the lead in causing deaths in the region, indicative of the pervasiveness of violence in the area.

A 1999 research led by Dr. Fortunato Cristobal associate these trends to growing urbanization, with the specific circumstances of violence being traced to situations of kidnapping, loose firearms, illegal logging, drug-related cases, etc. Recent incidents of violence particularly in Zamboanga City would also be attributed to the exportation of family feuds and political enmities from nearby islands, leading city officials to declare a gun ban in the area. The following are the ten leading causes of death in Region IX.

Causes	Rate
1. Injuries	38.17
2. Cancer (All forms)	32.31
3. Pneumonia	30.69
4. Cardiovascular disease	28.47
5. Ischaemic heart disease	23.70
6. TB (All forms	22.65
7. Hypertensive disease	16.69
8. Disease of the kidney	13.71
9. Septicemia	10.79
10. Cerebrovascular disease	8.84

 Table 6: Ten Leading Causes of Mortality Region IX, 2004

CHD Region IX Report shows that 40.37 percent of deaths in 2004 ranged from ages 65 and over. Only 5.77 percent among infants and 2.10 percent among children under 5 years old. Details across age groups and gender are indicated in Table 7.

rabio in mortanty by rigo oroup and ook riogion hi, 2004							
Age Group	Male		Female		Total		
Age Group	Number	Rate	Number	Rate	Number	Rate	
Under 1 year	312	3.19	253	2.58	565	5.77	
1-4 years	109	1.11	97	1.0	206	2.10	
5-14 years	161	1.64	111	1.13	272	2.78	
15-49 years	1880	19.20	834	8.52	2714	27.72	
50-64 years	1356	13.85	726	7.41	2082	21.26	
65 & over	2161	22.07	1792	18.30	3953	40.37	
Total	5979	61.06	3813	38.94	9792	100	

Table 7: Mortali	y by	Age-Group	and Sex	Region IX,	2004
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Nutritional Status of 0-6 Year Old Preschoolers

Out of a total of 451,871 pre-schoolers weighed in 2004, majority (83%) were found normal. 13.3% or 59,733 were found to be moderately to severely malnourished and weighed below normal. On the other hand, 15, 624 children or 3.5% were found to be overweight. Zamboanga City had the highest malnutrition rate of 666.88 per 100,000 population(CHD2004). By 2004, with supplemental feeding, the number of underweight children 6 to 59 months has decreased by 22.95% from previous rates. However some areas in the region were not given food supplementation due to lack of funds.

Birth Rate

Regional population estimates are based on the annual growth rate of 2.31%. For 2004, a total of 62,143 live births were registered, with Zamboanga City, and the provinces of Zamboanga del Sur and del Norte contributing to this number of births. A crude birth rate of 20.13 was computed.

THE HEALTH RESEARCH SITUATION

Local Research Developments

The institutionalization of the Pediatrics Research Center for Mindanao (PRCM) in the mid-90s resulted to significant accomplishments in three main research thrusts: (a) implementing research projects, (b) providing technical assistance to young researchers, and (c) conducting research workshops. Included in its record are over 50 clinical trials and community-based researches done mostly in the fields of pediatrics and maternal and child health.

The establishment of Ateneo de Zamboanga University School of Medicine (ADZU-SM) has also contributed to research development in the region. Yearly, ADZU-SM would require research outputs from graduating medical students and post-graduate students both from the Master of Public Health and Medical Education. These researches were mainly focused on community-based interventions, public health and medical education.

In November 2002, a joint PRCM and ADZU-SM study on "Identifying and Prioritizing Health Research Areas; 1999-2004" was carried out led by Dr. Rosemarie Santana-Arciaga. The research findings continue to be reflected in current trends and have led to a number of research priority concerns, such as:

- 1. Morbidity: (Leading causes are infectious origin)
 - Diarrhea, pneumonia and TB;
 - Neonatal tetanus and rabies;
 - Malaria, dengue
- 2. Non-communicable diseases: Cardiovascular disease and cancer
- 3. Other identified health concerns : trauma, problems of displaced populations, malnutrition, mental illnesses, drug dependency
- 4. Quality of health service delivery and effect of devolution:
- 5. Current available health facilities severely inadequate;
 - Hospitals mostly either primary or secondary;
 - Abject lack of medical personnel and medical equipment;
 - Some municipalities without regular services;
 - Restricted / paralyzed services in many rural areas due to inadequate funds

Out of these findings, the following recommendations for health research and development were made:

1. The need for culture-sensitive education programs addressing health problems especially those of the cultural minorities and tribal groups. Educational strategies should include community-based participatory approach.

- 2. Health policy research; program evaluation and policy review, health policy research of the devolved hospitals and services.
- 3. Evaluation research to ascertain: :
 - Quality of health service delivery
 - Utilization of alternative health care interventions
 - Effects of devolution scheme on health programs implementation; policy review of devolved services;
 - Cost-effective treatment strategies especially on simple diagnostic tests for common illnesses and
 - Treatment compliance and drug resistance
- 4. People's health-seeking behavior;
- 5. Socio-behavioral research to determine region-specific risk factors of disease

THE REGIONAL RESEARCH UPDATES

Data Sources

- Documentary analysis of secondary data (DOH, MHO reports, NEDA, ZC Planning & Development Office, etc.),
- Fortunato Cristobal, <u>Health S & T Priorities, Region 9, 1999-2004</u> (PCHRD); Arciaga, Rosemarie, et. al., <u>Research Priority Agenda for Region 9, 2004</u> (CHD-DOH)
- Consultation with members of the original team of provincial doctors who contributed to the 2004 reports
- Key informant interviews of key DOH provincial / municipal and city health officials.

The Findings

Based on reviews of records and reports, interviews with key informants and consultation with health officials, the following are the key areas of concern for health research and related problems that contribute to their occurrence:

a. Public Health

• Communicable diseases like pulmonary tuberculosis and pneumonia. Low case finding and handling; inadequate drugs/ medicine, fast turn-over of trained personnel, inadequate facilities and logistics, poor information and health education, poor environmental sanitation, and malnutrition

• **Diarrhea/gastroenteritis.** Still prevalent due to inadequacies in medicines, inaccessibility to sanitary toilet facilities and potable water, poor environmental sanitation related to (poverty and low literacy)

• **STD-HIV/AIDS.** Related to poverty and vulnerability to human trafficking, low awareness of safe sex measures and non-compliance among sex workers to use protective devices.

• **Dengue.** Endemic in the region. Low community participation in control of breeding places / public awareness on preventive measures.

• **Rabies.** Low public awareness on control measures, poor enforcement of local ordinances / regulations on stray animals, and costly vaccines.

• **Polio.** Confirmed cases in Sulu including Indonesia and Malaysia, may spill over to Zamboanga due to open port situation and mobile population targets make immunization difficult

b. Degenerative Diseases

• **Cardiovascular disease and Diabetes mellitus**. Weaknesses in advocacy especially on promotion of healthy lifestyles, knowledge deficit in early detection, among high risk population, high cost of medicines; lack of personnel trained in case management

• **Malignant neoplasm**. Inadequate skills in early diagnosis and treatment; among health workers expensive detection procedures and lack of medicines

• **Disease of the Kidney.** Lack of equipment and medicine to manage cases, e.g., dialysis machine, reagents for lab exams; lack of trained personnel for case handling; insufficient advocacy on dietary limitations and healthy lifestyle

• **Chronic obstructive pulmonary disease**. Poor health seeking behavior and non compliance to regiment (complacent attitude), non-enforcement of anti-smoking regulations and lack of logistics to purchase medicines

c. Healthy Lifestyle Concerns

• Nutritional health risks and disorders. Poverty, food insecurity, food fallacies, inaccurate evaluation of nutritional status (age uncertainty, erroneous weighing procedures), insufficient food supplementation (iron, Vitamin A) also due to lack of funds, prevalence of parasitism,

• Environmental / occupational health risks. Poor environmental sanitation; improper solid/ water waste disposal; pollution from industry (E.g., sediment and chemical pollution of TVI mine tailings in Canatuan, Zambo del Norte), health care access limitations due to company controls (TVI checkpoints restrict availment of health services and facilities), and poor access to herbal resources.

• **Substance abuse**. Unbridled sniffing of rugby among youth and street children; weak anti-drug abuse advocacy, need for counseling and values formation programs

• **Peace and order**. Culture of violence; proliferation of weapons for destruction (firearms, bladed weapons, explosives, etc.); inter-religious/cultural biases and stereotypes; poverty, human displacement

d. Health of Families and Health of Special Populations

• Infants and children. High malnutrition, victims of physical and sexual abuse/ trafficking, Reg. IX- 3rd highest in the Philippines for cases of child abuse. (Consuelo Foundation Inc. Survey 2000).

• Adolescents and youth. Prevalence of substance abuse and youth in conflict with the law

• **Urban poor.** Human insecurity - Landlessness/homelessness, congested living conditions, low income, high prevalence of malnutrition, high rate unemployment, lack of government assistance, growing number of migrants

• Women in difficult circumstances – Situations of VAW (physical and emotional abuse, incest, battering, slavery), need for more awareness of women's rights,

limited access to opportunities for personal growth and empowerment; trafficking and prostitution; prevalence breast cancer

e. Health Care Delivery

• **Programs and services:** Too many programs that need prioritization based on relevance, need to sustain community-based health programs; mismatch of services with the health-seeking behavior of communities

• **Health facilities:** Deteriorating facilities and equipment aggravated by lack of funding and slow bureaucratic processing and disbursement of operational funds; inability to procure much needed equipment due to lack of funds

• **Health personnel:** Inadequate number and clustering of health workers in urban centers; career shifts to nursing, job turnover and overseas employment; low compensation and unsatisfactory incentives and reward system;

• **Procurement of medicines and other health products:** Limited access to reasonably priced by safe and effective drugs; safety and efficacy of other health products need to be ensured; local production of drugs and other health products, including herbal medicine be encouraged

f. Local Health Systems

• Low quality of local health service delivery. Local health facilities need upgrading and repair, equipments to be procured, personnel to be trained to enhance local health service capabilities

• Non-maximization of local health resources. Due to lack of confidence on lower level facilities (Promote linkages and cost-sharing schemes including local health care financing systems for better use of local health resources)

• LGUs hesitate to involve private sector, NGOs, in the development of local health systems.. (Foster participation of private sector, NGOs, and communities in local health systems development)

g. Health Information and Education System

• **Poor databanking / retrieval, database on health statistics.** Need to establish updated, sharable, consistent data (proper reporting / recording); public information to improve health intelligence / statistics)

• Inadequate advocacy and health education programs especially for vulnerable groups

• Lack of awareness on patients' rights; Magna Carta for Patients

• Intra- interagency linkage. Need for inter-agency cooperation in various aspects of health education / research and IEC

• For curricular infusion in training / education of health workers: alternative / complementary medicine, gender sensitivity, preventive health care, primary health care, cultural sensitivity

• Urban- or rural-poor community service to be encouraged for medical and paramedical students / graduates

• Culture-sensitive IEC materials and teaching models

h. Health Care Financing

Inadequate funding, inefficient sourcing, ineffective allocation, and often subject to changing priorities, budget cutbacks, reserve requirements, budget deficits.

i. Health Policies / Legislation

• **Devolution:** Has been implemented inconsistently and unilaterally by LGUs without consideration for overall effects (devolution has been seen as deprivation); led to decrease in budgets leading to lowering of morale among health workers. Involvement of local health boards in decision-making, e.g., budgeting, prioritizing health programs and activities; how can health services management be integrated with long-term development plan of LGUs (ensuring sustainability / consistency of health plans regardless of leadership changes in LGUs)

• **Other ordinances:** Weak enforcement of regulations and ordinances relative to smoking, stray animals, senior citizens, persons with disabilities, etc.

j. Health Equity

• Limited access to health care due to poverty; tertiary hospitals clustered in city proper; health insurance benefits are biased toward hospital-based care when most are out patients

• Community-based financing schemes and seek ways to link them with national health insurance program.

A summary of these health research concerns is presented in a final table on pages 25 to 33, as the priority health research agenda for Region 9.

Special ZAMPEN Concerns

Certain special features of the health research priorities of the Zamboanga Peninsula are also indicated by specific concerns that stem from geographical, economic (industrial), cultural and administrative factors operating in the area. These are:

• **the plight of deportees**, owing to Zamboanga City's strategic geographical location as a transit point for deportees (externally displaced persons), drug trafficking, and trafficked persons

• the mining operations in Zamboanga Sibugay (Roseller T. Lim), Zamboanga del Norte (Canatuan, Siocon) and Zamboanga City (Vitali and Curuan)

• the administration and operation of the health delivery system.

a. The Deportees.

Mindanao shares at least two southern borders with its neighbors, Indonesia and East Malaysia. The ports of Western Mindanao often serve as the transit points for deportees who come on board passenger vessels that drop anchor in Zamboanga City on a weekly basis. These vessels come from Sabah, East Malaysia.

Over the years, somewhere between 300,000 to 500,000 Filipinos have found their way into Sabah. Some have legal papers and found decent good-paying jobs, whereas others have remained undocumented, vulnerable, and constrained to take on the so-called 4-D jobs: dirty, dangerous, difficult, and demeaning. (Cabaraban, Fernandez, 2005) Their conditions are enumerated as follows:

- Malnutrition (severe in some cases), respiratory infection, pneumonia, measles (outbreak), diarrhea, dehydration, acute gastroenteritis, malaria in male deportees working in plantations / logging concessions
- Health risks increased with unhygienic conditions in congested jails (40 to 50 persons to a cell), rotten food
- Psychological scars due to prolonged detention
- Cases of : children dying in transit, mental imbalance; pregnant women suffering miscarriage; raped women; men mauled/ caned
- Illegal status and low education prevent halaw from seeking health services. (fear of exposure)
- Usual response to illness: self-medication, massage, herbal application, treatment at private clinics, quack doctors
- "No watcher" policy in hospitals
- Undocumented / stateless street children

b. Mining Controversies

Mining operations in the provinces of Zamboanga del Norte, Sibugay and Zamboanga City have been questioned for their effects on various communities in the mining site. These communities – mostly Subanen - have accounts of environmental as well as cultural and personal effects that now include the following reported conditions:

• Some problems:

•

- Food blockades
- Blocking of health services by limiting movement within privatized forest area;
- Militarization and acts of violence and intimidation
- Destruction of hunting and fishing grounds
- Construction of roads, camps, cyanide processing plant and tailing dam in herbal medicine area.
- Soil erosion and siltation through massive tailings dumped into waterways.
- · Fisherfolk complain of low catch due to waste water or concentration of mud

c. **Health Service Delivery:** Concerns relative to this aspect have been enumerated in previous pages hereof (pages 20 to 22).

		GROUP I: PUBLIC HEA	LTH		
Broad R&D Area	Specific topic(s)	Rationale	Objective	Responsible Agency*	Funding Source
 Pulmonary tuberculosis and pneumonia 	 Evaluation of CARI Program Prevalence of TB KAP of mothers and health workers on pneumonia Factors related to the knowledge !referral of pneumonia cases to the health center Health-seeking behavior of patients with ARI Factors affecting implementation of DOTS (including attitudes of health personnel); TB Risk Factors (including gender and occupation) 	-Low case finding and handling; -Inadequate drugs! medicine, personnel, facilities and logistics; -Low level of information and education; -Inadequate environmental sanitation; -Malnutrition	 -To evaluate extent of implementation of CARI! Anti-TB Programs -To determine health information- and health care-seeking behavior of mothers and health workers; - To determine TB risk factors 	Doh Lgu (cho! pho! Mho)	PCHRD
2. Diarrhea! gastroenteritis	 Risk practices for cholera Weaning behavior among indigenous communities Access to Safe, potable water Food handling (sanitary permits, intensive food sanitation campaign, etc.) Home management of diarrhea, with focus on practices of marginalized groups 	 -Inadequacies in medicines, -Unsanitary toilet facilities ! environmental sanitation -Low access to potable water; -Poverty and low literacy -Scanty information about cultural communities 	 -To examine factors related to case management of diarrhea especially among indigenous communities, marginalized groups; - To facilitate access to safe water resources 	Doh Lgu (Cho! Pho! Mho)	PCHRD
3. STD- HIV!AIDS	 HIV!STD surveillance among high-risk population Prevalence of STDs, AIDS in selected atrisk groups Sexual practices and behavior of sexually active groups Safe sex practices (inc. condom use) of sexually active groups; KAP of selected groups at risk regarding STDs and HIV!AIDS Strategies for prevention and control of STD! HIV 	 Poverty and vulnerability to human trafficking; Low awareness and compliance with safe sex measures; Low public awareness on STDs and HIV!AIDS (including prevention and control) 	-To investigate HIV!STD KAPs and prevalence in high-risk and sexually active groups -To determine level of KAPs relative to safe sex practices -To enhance awareness of STD!HIV prevention and control measures	DOH LGU (CHO! PHO! MHO)	PCHRD

4. Dengue	 Local epidemiology of dengue Changing clinical course of dengue infection Larval index survey as an early warning indicator for dengue outbreaks Migration patterns of dengue vectors Evaluation of various strategies for control and prevention of dengue Evaluation of dengue control programs LGU and private agency participation in control and prevention of dengue 	 Low community participation in control of breeding places; Lack of public awareness on preventive measures; Low enforcement of local regulatory ordinances on stray animals 	-To model the spread of dengue -To determine effectiveness of early warning indicators, prevention and control strategies for dengue -To assess effectiveness of dengue control programs including participation of LGUs, private agencies in anti-dengue advocacy and promotion	DOH LGU (CHO! PHO! MHO)	PCHRD
5. Malaria	 Incidence! prevalence of malaria cases Evaluation of type and pattern of anti- malarial drug resistance of <i>Plasmodium</i> <i>falciparum</i> (in- vitro and in-vivo) 	 Proximity to endemic areas of Sulu and Tawi-Tawi; Low community participation in control of breeding places; Lack of public awareness on preventive measures; 	-To study prevalence! incidence of malaria in Zamboanga City and other endemic areas -To examine anti-malarial drug resistance of Plasmodium falciparum	DOH LGU (CHO! PHO! MHO),	PCHRD
6.Rabies	 Incidence! prevalence of rabies ! dog bite cases Cost effectiveness of different modalities of post-exposure prophylaxis Evaluation of dog anti-rabies immunization program KAP of the community regarding dog bites ! rabies Utilization of the Animal Bite Center in Western Mindanao 	Low public awareness on control measures, enforcement of local ordinances ! regulations on stray animals, costly vaccines	-To examine incidence! prevalence rabies!dogbite cases -To evaluate cost effect-iveness of anti-rabies treatment programs, including utilization of public facilities (Animal Bite Centers) -To determine public KAPs on dog bites!rabies	DOH LGU (CHO! PHO! MHO)	PCHRD

	G	ROUP II: DEGENERATIVE	DISEASES		
1. Cardio- vascular disease	 Epidemiologic studies on the incidence, prevalence of modifiable risk factors for CVDs, CFRs and prognosis of specific CVDs; Treatment compliance 	Weaknesses in advocacy re healthy lifestyles; Knowledge deficit in early detection; High cost of medicines; Lack of personnel trained in case management	-To determine incicence! prevalence of CVDs -To study treatment management and compliance in CVDs	Doh Lgu (cho! pho! Mho)	PCHRD
2. Diabetes mellitus	 Incidence and prevalence of diabetes Nutritional habits and diet preference of diabetics Treatment compliance in diabetes, including alternative medicine Education and advocacy for prevention!control of diabetes 	Low awareness and education re diabetes prevention and care; Case management problems (expensive medicines and treatment compliance)	 To determine incidence! prevalence of diabetes; To examine case management and treatment compliance including dietary management To enhance awareness for prevention ! control of diabetes 	DOH LGU (CHO! PHO! MHO)	PCHRD
3. Malignant neoplasm	 Profile of cancer patients KAPs of physicians and surgeons on cancer pain management The role of support groups in the management of cancer patients Compliance with cancer management 	Inadequate skills in early diagnosis and treatment; expensive detection procedures, lack of medicines	-To profile cancer patients -To determine cancer case handling practices including pain manage- and the role of support systems in case management	doh Lgu (cho! pho! Mho)	PCHRD
4. Disease of the Kidney	 Local capacity for case handling Health education and advocacy re lifestyle factors associated to kidney diseases. 	Lack of equipment and medicine to manage cases, e.g., dialysis machine, reagents for lab exams; lack of trained personnel for case handling; insufficient advocacy on dietary limitations and healthy lifestyle	-To document kidney case handling practices and local treatment facilities! personnel (in)capacities -To develop IEC materials and advocacy strategies relative to kidney disease prevention	DOH LGU (CHO! PHO! MHO)	PCHRD

	GROUF	P III: HEALTHY LIFESTYL	E CONCERNS		
1. Trauma! Violence	 Peace Advocacy vs. the Culture of Violence including gun proliferation in the region KAPs on safety precautions (including street signs) and incidence of local accidents Local preparedness for mass violence, calamity or injury Quick Reaction and Emergency Referral! Response Mechanisms Local capacities and mechanisms for Conflict Transformation (Resolution and Management) 	Injury is foremost cause of death in the region; Peace and order is precarious, spillovers of violence from the island provinces; Urban-related problems due to presence of industrial factories; Need to activate ! empower ! train local peace and order councils (Lupong Tagapamayapa) for conflict management	 To promote the culture of peace in the community through public education and media; To enhance conflict transformation skills (negotiation, mediation, facilitation, dialogue handling, etc.) To enhance local competence for disaster management and violence To determine safety consciousness 	DOH LGU (CHO! PHO! MHO) PNP, NGOs, Academe, Media, DSWD	-UNDP -LGSP -OPAPP -USAID (USIP)
1. Nutritional health risks and disorders	 Prevalence of macronutrient malnutrition and anemia Attitude toward commercially prepared multivitamins Public awareness on nutrition and unhealthy eating habits Nutritional and behavioral studies among indigenous communities Bottle feeding practices: factors associated to exclusive use (vs. breast feeding) Weaning practices of breastfeeding mothers Food preparation habits of mothers KAPs on appetite stimulants Food fallacies Evaluation and implementation of Milk Code in government and private hospitals 	Poverty and food insecurity, Food fallacies, Inaccurate evaluation of nutritional status (age uncertainty, erroneous weighing procedures), Insufficient food supplementation (iron, Vitamin A) also due to lack of funds, prevalence of parasitism; Need to emphasize breastfeeding Low knowledge re practices of indigenous groups	 To examine the prevalence of malnutrition (including macronutrient malnutrition and anemia); To document public KAPs on nutrition and eating habits (including food fallacies, appetite stimulants, commercially prepared multivitamins and breastfeeding) To determine nutritional and food preparation practices among indigenous groups 	DOH LGU (CHO! PHO! MHO) Academe Media, NCIP, OMA, NNC, DA, BFAR, DTI	PCHRD
2. Environmental ! occupational health risks	 Waste disposal ! solid waste management and the development of appropriate waste disposal technologies Evaluation of compliance to the Sanitation Code 	Poor environmental sanitation; improper solid! water waste disposal; pollution from industry (E.g., sediment and	 -To explore KAPs in solid and water waste disposal (household and industry levels) - To examine the implementation of occupational safety 	DENR-EMB, DOH LGU (CHO! PHO! MHO) Academe Media, NCIP, OMA	PCHRD

		 Occupational hazards and safety measures in factories and various workplaces (especially areas using chemicals) KAPs on proper food sanitation KAPs on solid and waste water management; Mining: Its effects on indigenous communities (also with implications for their access to health care) 	chemical pollution in factories, or waterways and communities within mining areas, i.e., mine tailings in the Zamboanga Peninsula), health care access limitations due to mining and industrial company controls, i.e., TVI checkpoints restrict availment of health services and facilities, and access to herbal resource	 measures in industrial areas and workplaces To determine the effects of mining on health status of affected communities; To determine food sanitation KAPs among indigenous and marginalized households 		
	Substance abuse	 Prevalence of drug abuse among adolescents and young adults; Risk factors associated with drug abuse Random drug testing among students, government and private employees Utilization of Drug Rehabilitation Centers in Western Mindanao 	Unbridled sniffing of rugby among youth and street children; Weak anti-drug abuse advocacy, Need for counseling and values formation programs; Non-maximization of drug rehabilitation facility	-To determine prevalence of drug abuse among adolescents and young adults (including students, government and private employees -To examine patterns associated to drug use! abuse -To study problems related to the operation and development of drug rehabilitation centers in the region	DOH-DDB, LGU (Anti-drug abuse councils, CHO! PHO! MHO), PNP, drug rehab centers, Academe, Media	PCHRD
4. S	Smoking	 Prevalence of smoking in different establishments ! schools!offices Effects of passive smoking on the health of children KAPs related to smoking, Review of implementation of the Tobacco Regulation Act Effectiveness of Anti-Smoking Campaigns 	Seeming disregard for smoking hazards and anti- smoking notices; Exposure of children and non-smokers to passive smoking;	 To strengthen the anti-smoking campaign through an evaluation of adherence to anti-smoking law To determine popular KAPs on smoking To document cases arising from passive smoking effects especially among children 	DOH, DENR, DOST LGU (CHO! PHO! MHO) PNP, NGOs, Academe, Media, DSW D	PCHRD

		FAMILIES AND HEALTH OF		· · · ·	
Broad R&D Area	Specific topic	Rationale	Objective	Responsible Agency	Funding Source
1. Infants and children	 Immunization among cultural communities (factors associated with compliance to immunization); Impact of maternal education on child mortality among cultural communities in Region 9; KAPs associated to the low utilization of pre- natal services; Trauma healing services for displaced children Early childhood education and development services (day care and childminding services) especially among indigenous communities Needs of trafficked children !street children Parenting practices among indigenous communities 	High malnutrition due to low awareness and knowledge of health services, especially home- based health care; Violence toward children ! physical and sexual abuse; Lack of trauma healing services and facilities to deal with cases of child abuse and trafficking; Vagrancy and street children in urban areas	-To determine the reach of health and early childhood services among cultural communities -To document mothers' availment of prenatal and health education -To examine and evaluate services for children exposed to violent circumstances, including street children and undocumented juvenile deportees	DOH – PRCM, LGU (CHO! PHO! MHO) PNP, NGOs, Academe, NCIP, DOLE, Media, DSW D, church, DEPED	-UNICEF -PCHRD -ASIA ACTS- ECPAT ! IACAT
2. Women in difficult circumstances	 Gender sensitivity among community leaders; Capacity for handling of VAWC cases (for health and law enforcement personnel; Availability of local services for traumatized women(e.g., feminist counseling and trauma healing services; pductive skills and livelihood opportunities); Sexual harassment in workplaces 	Physical and emotional abuse; Lack of trained personnel to handle VAW C Poverty and risk factors for sexual trafficking and prostitution; Need for gender sensitivity among local community officials, including female leaders	 To determine availability of services especially to victimized women (VAWC cases, trafficked and prostituted women, etc.) To evaluate local women support mechanisms (especially among health and law enforcement personnel) and strengthen these; To enhance access to opportunities for skills development and income generation 	DOH – PRCM, LGU (CHO! PHO! MHO) TESDA , PNP (Gender desk), NCIP, DOLE, DSW D, NGOs, Academe, Media, church	-Ford Foundation -UNIFEM
3. Adolescent and youth	 School and community services for youth Youth preparation for the world of work and career; for college and !or skills enrichment for vocational efficiency Gender and sexuality issues affecting youth, especially Muslim and IP youth Alternative learning systems for out of school youth and related services 	Malnutrition, substance abuse, lack of basic health assistance; prevalence of youth in conflict with the law; lack of information on adolescent behavior relative to sexuality and fertility concerns especially among Muslim and indigenous populations; Idle out of school youth	 To strengthen school- and community-based youth services (counseling and training) To document Muslim and IP youths' KAPs on gender and sexuality issues (love, friendship, marriage, reproductive health info-! care-seeking behavior, etc.) To determine opportunities for enhancing development options for out of school youth 	DOH – PRCM, LGU (CHO! PHO! MHO) PNP, DEPED, CHED, Academe (Extension Services), NCIP, DOLE, Media, DSW D, NGOs,church	-PCHRD -UNFPA

	GROUP IV : HEALTH OF I	FAMILIES AND HEALT	H OF SPECIAL POPULATION	S (Cont'd)	
Broad R&D Area	Specific topic ²	Rationale	Objective	Responsible Agency	Funding Source
4. Urban poor	 Conditions of habitability in landless and homeless households Livelihood-cum-health care financing strategies Advocacy for primary health care and herbal treatments; Document ation of displaced communities' needs and referral services 	Overcrowding, congested population; high prevalence of malnutrition; growing urban poor communities due to influx of migrants; high rate of unemployment; insufficient government assistance	 To determine the extent of health care services in urban poor communities, To study urban poor alternatives in home-based treatment and availment of affordable health care financing schemes To document urban poor community conditions of (in)habitability in support of anti-poverty advocacy To explore ways of enhancing access to livelihood opportunities 	DOLE, DSW D, DOH, LGU (Social Service Offices), HLURB, DTI, NGOs, Church (Social Action), Academe (Extension Services)	-Ford Found'n -Peace & Equity Foundation -NAPC -DOLE -DTI
	GI	ROUP V: CROSS-CUTTING	CONCERNS		
1. Quality of Health Care Delivery	 <u>Health Programs and Policies:</u> (Focus on Devolution) Policy Review of devolved health programs and services, and standards for prioritization Effects of devolution on health programs Comparative studies on health service delivery before and after devolution Survey on level of client and provider satisfaction on devolution (pre- and post-) Status of community- based programs in the context of devolution 	Precarious policy environment, too many programs that need prioritization based on relevance, \ Need to sustain community- based health programs; negative attitude towards devolution Matching services with the health-seeking behavior of communities	 To determine priority health policies and programs for implementation based on empirically grounded and relevant local realities To examine the effects of devolution on the quality of health programs and services To document broad KAPs on devolution among health management and staff, and served communities 	DOH, LGU (CHO ! MHO! PHO, Health Boards)	PCHRD
	 <u>Health Equipment and Facilities:</u> Alternative strategies and creative budgeting for procurement of health equipment and facilities KAPs and advocacy on Primary health care 	Deteriorating facilities and equipment aggravated by lack of funding and slow bureaucratic processing and disbursement of operational funds; inability to procure much needed equipment due to lack of funds; Tertiary hospitals concentrated in urban areas	 -To explore appropriate technologies as alternatives to expensive health equipment and facilities; -To study pro-active and responsive mechanisms as well as non-traditional budgetary resources for procurement of equipment; 	DOH, LGU (CHO ! MHO! PHO, Health Boards, Local budget offices), DBM	PCHRD

	GROUF	P V: CROSS-CUTTING CO	NCERNS(Cont'd)		
Broad R&D Area	Specific topic ²	Rationale	Objective	Responsible Agency	Funding Source
1. Quality of Health Care Delivery (cont'd)	 Health Personnel: Distribution of health workers as to number and availability; Implementation of incentives, continuing education, non-monetary benefits for health personnel Innovations in human resource management and development that involves career path, incentives, and rural service component Review of formative processes (education and training) in the value systems of health and medical rofessionals 	Inadequate number and clustering of health workers in urban centers; Career shifts to nursing, job turnover and overseas employment; Low compensation packages and unsatisfactory incentives and reward system;	-To provide information for rationalizing the distribution of health workers in the region -To examine current compensation and incentive systems and develop innovative mechanisms for benefiting health personnel -To review curricula and other formative components in the education and training of health and medical professionals	DOH, LGU (CHO ! MHO! PHO, Health Boards, Local budget offices), DBM CHED (Boards! Tech'l Panels of Medical Education & Nursing Education, Academe,	PCHRD
	 Procurement of medicines and other health products Local production of drugs and other health products, including herbal medicine be encouraged Attitudes of the public and medical community re herbal medicines Clinical trials of indigenous plants and marine products 	Limited access to reasonably priced by safe and effective drugs; safety and efficacy of other health products need to be ensured;	 To explore appropriate technologies as alternatives to expensive health equipment and facilities; To study pro-active and responsive mechanisms as well as non-traditional budgetary resources for procurement of equipment; 	DOH, LGU (CHO ! MHO! PHO), NCIP, DOST, DTI, Academe, Media, Business groups	PCHRD
2. Local Health Systems	 Factors influencing poor LGU compliance to the implementation of health standards and regulations Sociocultural beliefs and value systems contrary to appropriate use of health services Factors associated to the role of the local health board in the delivery of quality health care 	Low quality of local health service delivery; Local health facilities need upgrading and repair, equipments to be procured; personnel to be trained to enhance local health service capabilities	-To examine LGU compliance with health standards and regulations; -To determine the sociocultural environment for the availment of health services -To study the role of the local health board in delivering quality health care	DOH, LGU (CHO ! MHO! PHO, Health Boards), Academe (Public Ad ! Health Sciences)	PCHRD

	GROUP	V: CROSS-CUTTING C	ONCERNS (Cont'd)		
Broad R&D Area	Specific topic ²	Rationale	Objective	Responsible Agency	Funding Source
2. Local Health Systems (cont'd)	 Factors associated to the LGU engagement and participation of private sector, NGOs, and communities in local health policy determination and health systems development 	LGUs hesitate to involve private sector, NGOs, in the development of local health systems	-To investigate the factors related to LGU involvement of non- government stakeholders in determining health policy and health care systems	DOH, LGU (CHO ! MHO! PHO, Health Boards), Academe (Public Ad ! Health Sciences) NGOs	PCHRD
	Strategies to promote linkages and cost-sharing schemes including local health care financing systems for better use of local health resources	Non-maximization of local health resources due to lack of confidence on lower level facilities	-To explore ways of engaging a wider support base in the development of health care financing schemes and health resource utilization	DOH, LGU (CHO ! MHO! PHO, Health Boards), Phil- Health, NGOs	PCHRD
3. Health Information and Education System	 Review and improvement of health reporting and documentation systems (with immediate and frequently updatable, sharable information) 	Poor databanking ! retrieval, inadequate database on health statistics; Inadequate public information to improve health intelligence ! statistics	-To strengthen health reporting and recording systems -To improve health intelligence retrieval and access	DOH, LGU (CHO ! MHO! PHO), NCSO, Academe (Health Sciences) NGOs	PCHRD
	Affirmative action in health advocacy and education programs for vulnerable sectors	Inadequate advocacy and health education programs especially for vulnerable groups	-To focus public attention on the health status and overall plight of vulnerable sectors	DOH, LGU (CHO ! MHO! PHO), DEPED, CHED, NCIP Media, NAPC, Academe , PIA, NGOs, Church	-PCHRD -NAPC -PEF
	 IEC on patients' rights Magna Carta for Patients 	Lack of awareness on patients' rights;	-To enhance the awareness of and sensitivity to patients' rights in the provision of health care	DOH, LGU (CHO ! MHO! PHO), CHR, Media, PIA Academe , NGOs, Church	PCHRD
	Inter-agency collaborative processes in health research, education, and healthy lifestyle advocacy	Need for inter-agency cooperation in various aspects of health research and IEC	-To determine ways of engaging a multi-sectoral involvement in health research, education and advocacy	DOH, LGU (CHO ! MHO! PHO), DEPED, CHED, NEDA, NCSO, Media, Academe , PIA, NGOs, Church	PCHRD
	Development of culture-sensitive IEC materials and teaching models	Health learning resources tend to be disregard of local cultural diversity; further translation and illustration needed	-To review and package culture- sensitive health IEC materials and develop a correspond-ing educational delivery system	DOH, LGU (CHO ! MHO! PHO), DEPED, CHED, NEDA, NCSO, Media, Academe , PIA, NGOs (Popular Education) , Church	PCHRD

		GROUP V: CROSS-CUTTING CC	ONCERNS (Cont'd)		
Broad R&D Area	Specific topic ²	Rationale	Objective	Responsible Agency	Funding Source
3. Health Informa- tion and Education System (cont'd)	 Updating of curricular content with more socially relevant issues for infusion in training ! education of health workers: Curricular review of rural and urban poor exposure and health service in the training of health and medical professionals 	 Emphasis on commercial, biomedical orientation in training of health care provi-ders; need for alternative ! complementary medicine, gender sensitivity, preventive health care, primary health care, cultural sensitivity Need to intensify urban- or rural poor community service for medical and paramedical students ! graduates 	-To root curricular content in empirically grounded problems and realities; -To develop a pre-service appreciation for the health needs of rural and urban poor communities	DOH, LGU (CHO ! MHO! PHO), DEPED, CHED (Tech'l Panels in Med. & Health Scs), Academe , PIA, NGOs, Church	PCHRD
4. Health Care Financing	 A survey of community- based financing schemes Linking community-based financing schemes with the national health insurance program 	 Health insurance benefits biased toward hospital-based care when most are out patients; Low affordability of health care services (expensive medicines, professional fees, facilities, etc.) 	-To explore health care financing schemes for low income groups; -To examine flexibilities in entitlement to and availment of health care services outside traditional modalities.	DOH, LGU (CHO ! MHO! PHO, Health Boards), PhilHealth, DSW D, NGOs	-PCHRD -PhilHealth,