RESEARCH PRIORITIES SETTING REGION V

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EXECUTIVE SUMMARY

Bicol Region (Region V) is situated in the southernmost tip of Luzon. Dubbed as Luzon's gateway to the Visayas and Mindanao, it is bounded on the northeast by Quezon province, east by Pacific Ocean, southeast by Samar Sea and southwest by Sibuyan Sea. The region is composed of 6 provinces, namely Camarines Norte, Camarines Sur, Albay, Sorsogon, which are located in mainland Luzon, and the 2 island provinces, which are Catanduanes and Masbate. It has a total land area of about 18,130.5 square kilometers (about 6% of the country's 300,000 square kilometers).

As of 2004 the region's population was estimated to be 5,020,471 (6% of the country's), 2% more than the previous year's figure. The average annual growth rate over 5 years has been noted to be 1.77%. With a population density of 271.08 per square kilometers, Bicol is said to be one of the more densely populated areas outside the National Capital Region. About 72% of the population resides in the rural areas. The population is relatively young. The labor force (consisting of 15 years old and above) was estimated to be 43% of the total population indicating that a large percentage of the population are dependent for food and basic needs.. Only 92% of the work force is employed and 19% of them are underemployed. Since 73% of the work force are in the rural areas agriculture and services are the leading sources of employment. Average labor productivity was estimated at P16, 728, the fourth lowest in the country. The annual per capita poverty threshold of the region is lower than the national average and most of the regions, making Bicol the 3rd poorest province in the country. Poverty incidence in the region is 53%, and the provinces Masbate and Camarines Norte are the 2nd and 10th poorest provinces in the country.

Health indicators for 2004 have shown slight decrease compared to the data from the previous year except for maternal mortality which was noted to be higher than that of the preceding year and the national rate. Acute respiratory infections remained as the most common causes of morbidity though respiratory diseases has been replaced by cardiovascular diseases as the leading causes of mortality. Endemic diseases in the region (Schistosomiasis and filariasis) have been controlled though increasing cases of Paragonimiasis have been identified.

There has been growing concerns in the community about toxic leaks from some mining areas in the region.

The DOH reported a total number of 118 hospitals. Forty nine of these are government facilities and 69 private. These provide the Bicolanos a bed to population ratio of 1:1390. Other facilities are RHUs (128) and Barangay Health Stations (1096).

GEOGRAPHIC PROFILE

Bicol Region lies at the southernmost tip of Luzon. It is bounded on the northeast by Quezon province, east by Pacific Ocean, southeast by Samar Sea and southwest by Sibuyan Sea. It lies within coordinates 122 to 124.5 degrees longitude and 12 to 14.5 degrees latitude. Bicol has a total land area of about 18,130.5 square kilometers, comprising about 6% of the country's total land area (300,000 square kilometers). The region is composed 6 provinces, 4 of them, Camarines Norte, Camarines Sur, Albay and Sorsogon, occupying the tip of the Luzon landmass and 2 islands, Catanduanes and Masbate. It also has 7 cities, 107 municipalities and 3,471 Barangays. The region has been known to be prone to calamities such as volcanic eruptions (Mayon Volcano in Albay) and typhoons.

Geographical Data per Province

Particulars	Albay	Cam. Norte	Cam. Sur	Cat.	Mas.	Sor.	Region V
T 14 (1)	2.565.0	2 220 1	5 401 6	1 402 2	4.151.0	2.110.0	10 120 5
Land Are (in sq.km)	2,565.8	2,320.1	5,481.6	1,492.2	4,151.8	2,119.0	18,130.5
Percentage of the							
Region's Land Area	14.2%	12.8 %	30.2%	8.2%	22.9%	11.7%	
Number of cities	3		2		1	1	7
Number of							
Municipalities	15	12	35	11	20	14	107
Number of							
Barangays	720	282	1063	315	550	541	3,471
Number of Districts	3	1	4	1	3	2	14

Source: Department of Health (Region V) - Report

DEMOGRAPHY

The estimated population as of 2004 was 5,020,471, about 6% of the country's total population. A 2% increase over the previous year's population was noted. The average annual growth rate over the last 5 years was reported to be 1.73 %. Though lower than the national growth of 2.36%, it is still considered as rapid because of the high crude birth rate. Population continued to rise despite the high outmigration. Sorsogon was registered as having the highest growth rate at 2.04 and Catanduanes the lowest rate at 1.33%. The population density was reported to be 271.08 per square kilometers in 2003. Bicol is considered as one of the more densely populated regions outside of NCR. Albay is the most densely populated province and Catanduanes the least. Population is relatively young, with the 0-19 years age group comprising 51% of the region's population. Seventy two percent of the population lives in the rural areas. There are more males (51.08%) than females (48.92%).

Total population per Province, City, Region V, 2004

Province/City	Population	%
Albay	789,646	15.73
Camarines Norte	499,535	9.95
Camarines Sur	1,418,374	28.25
Catanduanes	227,044	4.52
Masbate	680,874	13.56
Sorsogon	604,970	12.05
Iriga City	95,168	1.91
Naga City	147,539	2.94
Legazpi City	168,425	3.35
Ligao City	97,190	1.94
Tabaco City	114,957	2.29
Masbate City	76,454	1.52
Sorsogon City	100,295	1.99
Region V	5,020,471	100.00

Source: Department of Health (Region V) - Report

Total Population, by Gender, Region V, 2004

Sex	Population	%
Males	2,564,457	51.08
Females	2,456,014	48.92

Source: Department of Health (Region V) - Report

Total Population, Number of Households, Average Household Size, Population Growth Rate,

and Population Density, by province as of May 1, 2000

			Average	Annual	Growth	Populatio
Province	Total	Number of	Household	Rate	Rate (%)	
	Population	Households	Size	1990-	1995-	Density
	_			1995	2000	(persons/k
						$m.^2$)
Philippines	76,498,735	15,271,545	5.00	2.32	2.36	255
Region V	4,674,855	891,541	5.24	1.91	1.68	265
Albay	1,090,907	208,640	5.22	2.01	1.77	427
Cam. Norte	458,840	89,574	5.12	2.20	0.94	217
Cam. Sur	1,551,549	288,172	5.37	1.75	1.72	295
Catanduanes	215,356	41,019	5.25	1.50	1.33	142
Masbate	707,668	138,945	5.09	1.64	1.71	175
Sorsogon	650,535	125,191	5.19	2.35	2.04	304

Source: National Economic Development Authority

In 2003 there were 945,150 households registered. As reported in year 2000, 46% of the total families or 53.1% of the total population live below the region's annual per capita poverty threshold of P11, 524. The region's per capita poverty threshold was lower than the average for the country (P11, 605.) and most of the regions. (Please see table on Annual per Capita Poverty Threshold, Appendix) Of the 6 provinces, Masbate has the highest number of population living below the poverty threshold with 62.8%, followed by Camarines Norte with 52.7%. Even if Albay has the lowest number of poor population in the region, with 39.6%, it is still higher than the national average of 34%. Poverty incidence in the region is 53.1%, much higher than the national average and most of the regions, making Bicol the 3rd poorest in the country. Among the provinces, again Masbate has incidence of 70.9% and Camarines Norte 57.3%, making Masbate the 2nd and Camarines Norte 10th poorest provinces in the country. Poverty incidence in the rural areas is higher at 79.9%.

A survey in 2004 reported that 82% of the households have access to safe water, less than the 87.25% reported in 2003. Though more households have access to safe water, only 66.1% have potable water supply in their homes. Only 67.3% have sanitary toilets.

The labor force (population belonging to 15 years old and above) makes up only 43% of the total population. Fifty seven percent therefore of the population is dependent for their food and other basic needs. Of the labor force 92% are employed (as of 2003) with 19% of them underemployed. About 73 % of the labor force is in the rural areas. The agricultural sector therefore remains to be the major employer, though its total employment has gradually decreased over the years to about 46% in 2003. The decrease in the agricultural labor has been absorbed by the services sector, which increased to 41%, while the industry sector, which comprises only 13% of the working force, has not changed over the years. Average labor productivity was estimated at P16, 728, the fourth lowest in the country.

According to the 2000 Human Development Report, Bicol has a medium state of health as indicated by the life expectancy. As of 2004, life expectancy was estimated to be 72.3 years for females and 66.98 for males.

HEALTH CARE FACILITIES

The DOH reported a total number of 118 hospitals in the region, with 49 government, and 69 private, as of 2003, providing the Bicolanos with bed to population ratio of 1:1390. Masbate has the lowest number of beds with 1:2,213. Other facilities are 128 rural health units and 1096 Barangay health stations.

HEALTH SITUATION

Health indicators for 2004 showed some reduction, though insignificant, from the previous year. Crude birth rate was 22.8 per 1000 population, lower than that of the previous five-year average of 23.06 (1999-2003). This represents total registered live-births of 114,482. Crude death rate was 4.3, also slightly lower than the five year average of 4.48 (1998-2003). Infant Mortality rate also fell from 10.96 in 2003 to 9.33 in 2004. This is also lower than the 5-year average of 12.08. But maternal Mortality rate was higher (1.16) in 2004 than that of the previous 5-year average (1.01) and higher than the national figure of 0.86.

Crude Birth Rate per 1000 Population By Province/City Region 5, 1999-2003 vs 2004

	Albay	Cam.	Cam.	Cat.	Mas.	Sor.	Iriga	Naga	Leg.	Reg.
		Norte	Sur				City	City	City	5
1999-2003	23.31	22	20.41	23.3	23.62	26.86	27.79	30.5	21.92	23.06
2004	23.34	22.37	19.43	23.24	25.06	25.08	27.39	29.49	20.6	22.8

Crude Death Rate per 1000 Population by Province/City Region 5, 1999-20003 vs 2004

	Albay	Cam.	Cam.	Cat.	Mas.	Sor.	Iriga	Naga	Leg.	Reg.
		Norte	Sur				City	City	City	5
1999-2003	4.98	4.73	3.64	5.55	3.25	5.31	6.9	5.46	6.28	4.48
2004	4.29	4.81	3.56	5.56	3.1	5.07	8.02	5.61	6.13	4.3

Infant Mortality Rate per 1000 Population by Province/City Region 5, 1999-20003 vs 2004

	Albay	Cam.	Cam.	Cat.	Mas.	Sor.	Iriga	Naga	Leg.	Reg.
		Norte	Sur				City	City	City	5
1999-2003	13.89	16.75	9.78	14.37	12.03	9.4	9.82	11.11	17.61	12.08
2004	4.83	15.48	7.98	14.78	11.07	8.25	16.49	8.96	13.26	9.33

Maternal Mortality Rate per 1000 Livebirths by Province/City Region 5, 1999-20003 vs 2004

	Albay	Cam.	Cam.	Cat.	Mas.	Sor.	Iriga	Naga	Leg.	Reg.
		Norte	Sur				City	City	City	5
1999-2003	0.94	1.14	0.75	0.39	1.24	1.53	0.79	0.23	0.88	1.01
2004	0.56	1.34	0.87	0.76	1.11	2.83	1.53	0	0.29	1.16

The top three leading causes of morbidity still are respiratory infections. Diarrheas still rank 4th. Others are hypertension, influenza, animal bites, anemias. Tuberculosis which ranked tenth in 2003 rose to number 9.

Leading Causes of Morbidity Number and Rate per 100,000 Population 5-Year Average (1999-2003) vs 2004 Region V

CAUSES	5-Year <i>I</i> 1999-	_	20	004	% Difference
	No.	Rate	No.	Rate	
Acute Respiratory Infection	160730	3359.38	246673	4913.34	53.47% inc
Bronchitis	50958	1065.06	60275	1200.58	18.28% inc
Pneumonias	48712	1018.12	44398	884.34	8.86% dec
Diarrheas	44680	933.85	37973	756.36	15.01% dec
Hypertension	28235	590.13	29365	584.91	4.00% dec
Influenza	30934	646.54	25999	517.86	15.95% dec
Bites (Animal/Human)	9254	193.42	9095	181.16	1.72% dec
Anaemias	3793	79.28	5654	112.62	49.06% inc
Tuberculosis, all forms	9518	198.93	3566	71.03	62.53% dec
Asthma	2919	61.01	3287	65.47	12.61% inc

Cardiovascular diseases replaced respiratory diseases as number one in the leading causes of death. Tuberculosis still ranks high as a cause of death, being the third, followed by neoplasm and traumatic injuries.

Leading Causes of Mortality Number and Rate per 100,000 Population 5-Year Average (1999-2003) vs 2004 Region V

CAUSES	5-Year A 1999-2	_	20	004	% Difference
	No.	Rate	No.	Rate	
Cardiovascular Diseases	6197	129.52	6562	130.7	5.89% inc
Respiratory diseases	4245	88.72	3919	78.06	7.68% dec
Tuberculosis, all forms	1735	36.26	1536	30.59	11.47% dec
Neplasms	1316	27.51	1281	25.52	2.66% dec
Trauma/injuries	1264	26.42	1039	20.7	17.80% dec
Diabetes Mellitus	311	6.5	526	10.48	69.13% dec
Kidney Diseases	491	10.26	510	10.16	3.87% dec
Septicemia	406	8.48	420	8.37	3.45% dec
Diseases of the Liver	317	6.63	322	6.41	1.58% dec
Diarrheas	335	7	199	3.96	40.60% dec

Leading causes of infant deaths remain to be respiratory diseases, septicemia and prematurity. Diarrheas remain to be the number five killer.

Leading Causes of Infant Mortality Number and Rate per 1000 Livebirths 5-Year Average (1999-2003) vs 2004 Region V

CAUSES		Average 9-2003	20	004	%
	No.	Rate	No.	Rate	Difference
Respiratory Diseases	451	4.09	311	2.72	31.04% dec
Septicemia	129	1.17	97	0.85	24.81% dec
Congenital Anomalies	126	1.14	91	0.79	27.78% dec
Pre Maturity	132	1.2	56	0.49	57.58% dec
Diarrheas	76	0.69	57	0.5	25.00% dec
Asphyxia Neonatorum	40	0.36	42	0.37	5.00% inc
Seizure Disorder	33	0.3	32	0.28	3.03% dec
Malnutrition	26	0.24	18	0.16	30.77% dec
Neonatal Tetanus	16	0.14	15	0.13	6.25% dec
Trauma/injuries	40	0.36	12	0.1	70.00% dec

Hemorrhages related to pregnancy still rank first as causes of maternal deaths. Together with eclampsia, these causes may be preventable with improved prenatal coverage and attendance at births. Only 79% of the mothers received prenatal care, less than the national figure of 84%.

Leading Causes of Maternal Mortality Number and Rate per 1000 Livebirths 5-Year Average (1999-2003) vs 2004 Region V

		Year	20	004	%
CAUSES	Av	erage			Difference
	1999-2003				
	No.	Rate	No.	Rate	
Hemorrhages related to pregnancy	73	0.66	80	0.7	9.59% inc.
Eclampsia	23	0.21	21	0.18	8.70% dec.
Ectopic Pregnancy	2	0.02	1	0.01	50.00% dec
Other causes of Maternal Deaths	14	0.13	31	0.27	

The number of mothers (50%) who received tetanus toxoid immunization during pregnancy was lower than the national percentage. Doctors, nurses attended only about 20% and midwives 21 to 30% of births. Fifty percent were attended by *hilots*. Eighty two percent of deliveries took place in the homes and only 17% in the hospitals. Eighty percent of mothers who gave birth had no checkup following delivery.

DISEASES OF PUBLIC HEALTH IMPORTANCE

Some parts of the region, especially Sorsogon, have been known to be endemic for diseases like filariasis and schistosomasis. The presence of a surveillance unit in Sorsogon contributed to the control of cases as well as vectors and hosts. In the latest report on case finding activities of the unit, particularly in the two most endemic municipalities of Sorsogon (Irosin and Juban), infection rate for Schistosomiasis was only 23%. Screening of walk-in patients in the RHUs showed only 5.9% infection rate. But the surveillance unit cannot be too complacent because a number of those that were negative by Kato Katz turned to be positive with COPT. The number of new cases of filariasis has gone down. The region received 2 rounds of mass treatment.

Rabies cases have declined from 69 in 2003 to 49 in 2004, but animal bites still ranked 7th among the reasons for consultation. Roughly about 85% of those who consult are given post-exposure immunizations, giving a lot of financial burden to the population, considering that vaccines are expensive.

Malaria cases have gone down. Only 2 cases were reported from Sorsogon in 2004 (119 in 2000). Sorsogon has started to include Paragonimiasis among the diseases under close surveillance. About 12% of symptomatic cases that were screened, most of them being treated for tuberculosis, turned out to be sputum positive for the disease.

The Reproductive Tract and Health Clinics reported 1655 cases of Sexually Transmitted Infection. Found positive were mostly males (80%) and majority of positive cases were unmarried (78.3%). Seventy five percent of sex workers were positive, most of them females. Most common infection was non-gonococcal (69.08%). So far 24 cases of HIV have been reported.

MALNUTRITION

Survey among preschool and school children showed a decrease in the prevalence of malnutrition from the previous year. The prevalence of moderate malnutrition among the preschool children was 22.6% in 2004 compared to that of 2003 which was 37%. Among the school children the prevalence decreased from 27% to 24%.

Prevalence of iron deficiency is higher than the national average. Among 6 months to 1 year, prevalence was reported to be 34.3% while the national average was only 31.8%. Among pregnant women prevalence was 64.4% significantly higher than the national average of 50.7%. Iodine deficiency was only noted in Albay with a prevalence of 50.1%.

Breastfeeding awareness appears to be better than the rest of the country. A survey showed that 93% of infants have been breastfed (Phil 87%) though the median duration of exclusive breastfeeding was only 2.2 months (Phil 0.6 months).

OTHER ISSUES

Fertility rate in the region has been consistently higher than the national average. Even if the rate has also been consistently dropping from 5.9 in 1993 to 4.77 in 2002 and 4.3 in 2003, it is still considered as one of the highest among the regions in the country. Among the married women, 64.8 % said they do not want any more children and the average number of children they actually want is 3.5. Perhaps the reason for the high fertility rate is the low contraceptive

prevalence which has dropped from 36.3 in 2003 to 26.3 in 2004. Among the contraceptive methods used, the most common are pills and withdrawal.

Non-Government Organizations in the area showed concerns about children and women abuse, about persons with disability and about needs and welfare of senior citizens. Membership to the organization has increased to 18,226 as of 1994. There have also been growing concerns about possible toxic emissions and leaks from the mining areas in the region. The Bureau of Mines has expressed more concern about toxic wastes from small-scale mining industries. Like the rest of the country, the region is also burdened by problems on pollution, from agro-chemical contamination, household sewage, wastes from public market and garbage dumpsites.

HEALTH CARE FINANCING

Insurance coverage as of 2003 was 14%. Report on membership in 2004 showed that the indigent household members (532,033) were more than twice the paying members (215,592). This can put a lot of financial burden on the government and PhilHealth.

METHODOLOGY

Plan

The plan of approach in coming up with the health research priorities for Bicol started with a review of the Region V Research and Development agenda for 1999 to 2004. The following activities then were placed in the agenda: 1) identification of important data that would help in identifying the research priorities; 2) identification of institutions/ agencies that can provide the necessary data; 3) data collection proper through interview of key persons and desk review of reports; 4) Research priority setting through consultative workshop.

The relevant data needed for defining research priorities that were identified are as follows:

- 1. Geographic data
- 2. Demographic data
- 3. Health Indicators
- 4. Leading causes of mortality and morbidity
- 5. Other issues related to health
- 6. Researches done in the different institutions involved with health research

Review of Literature/Interview

The desired data were obtained through review of reports and interview of key persons in different institutions, government and non-government as well as the academe. The interviews helped validate the reports and obtain more information regarding certain issues and health related problems that may not have been included in statistical reports. A summary of the data obtained from desk review and interview has been presented in the overview.

Below is the list of the institutions that were visited.

- 1. Center for Health Development/Department of health Region V
- 2. Department of Science and Technology Region V
- 3. Commission of higher Education Region V
- 4. NEDA
- 5. DENR
- 6. Bureau of Mines and Geoophysics
- 7. Environment Management Bureau
- 8. DA
- 9. DOLE
- 10. DSWD
- 11. POPCOM
- 12. PhilHealth Region V
- 13. National Statistics Office
- 14. BU
- 15. BU Research
- 16. Council of Deans, College of Nursing for Region V
- 17. Naga College Foundation
- 18. Provincial Health Office, Albay
- 19. Provincial Health Office, Sorsogon
- 20. Provincial Veterinary Office
- 21. City Health Office, Legazpi

- 22. National Nutrition Council
- 23. Simon of Cyrene International
- 24. Children International
- 25. Social Action Center, Legazpi
- 26. Good Shepherd Home

Regional Research Priority Setting Workshop

A one-day workshop was scheduled on October 28, 2005. A few days before the workshop, the regional facilitator invited a core group (please see appendix for the list) to discuss the mechanics of the workshop and identify health-related issues that may arise from the data gathered. Presenting the predetermined issues could facilitate and hasten the process of identifying research areas. But it was also decided that the option to add or remove issues be given to the participants.

The one-day workshop was held at the Bicol Regional Training and Teaching Hospital Conference Hall. There were 33 participants. The overview of Bicol and its health situation was presented and discussed by the regional facilitator. A copy of the list of research priorities for 1999-2004 and the list of researches that have been done from CHD-Bicol, Bicol University and AMEC-BCCM was provided to each participant for reference. (Appendices)

The issues that were initially identified were also presented. The participants were divided into five groups according to their line of interests. They were given the option to transfer to another group if they so desired. The issues and problems identified were also divided among them. The issues were assigned also according to the interests of the group. Each group was tasked to identify more specific issues under each broad issue. From the issues they were asked to identify broad research areas from which they formulated specific research topics. They were asked to fill up the proposed matrix (Appendices). Each group presented their outputs in 2 plenary sessions.

The main issues that were identified from the data presented are as follows:

Environment/Sanitation
Basic services
Health Financing
Health Status of Women
Nutrition
Health Manpower
Diseases
Data

The participants were divided into

A summary of the broad issues and the more specific issues that each group was able to identify, the broad research areas and the specific research topics formulated are shown below. The tables showing the complete output of the groups are shown in the appendices. (Tables on Proposed matrix for arriving at regional priorities for research and development and the standard matrix for research priority areas)

Environment/Sanitation and Basic Services

Specific Issues

- Lack of disaggregated health data across metals (mercury) ecological zones scale health in small
- Waste disposal and management of Aroroy, attributed to values and culture
- Basic services: Food insecurity/scarcity
- Environment: lack of technical data/ effects of mine baseline study-info about pollutant areas
- Lack of direct evidence connecting management program pollution to LGUs

health problem

Broad Research Areas

- Comprehensive environmental monitoring
- An assessment of solid waste management of LGUs
- Health R and D along different ecological zones
- Characterization of carrying capacity
- of basic resources
- Assessment of health practices

Specific Topics

- Impact of heavy on human
- mining communities Masbate, Paracale
- J. Pang., Cam. Norte
- Study on potential tailing in coastal
- Study on waste of to health prob.

on different areas re: industrial. commercial and institutional -Indigenous knowledge system on health along different ecological zones - Dietary composition and health practices - Characterization of carrying capacity of basic resource system

Health and Financing

Specific Issues

- Inadequate funding for hospitals acceptance of from the national gov. - Sustainability of LGUs in the
- LGUs for health care financing indigency prog. of Philhealth Resource mobilization strategies
- Sustainability of HMOs for financing service delivery health services community based
- Overcharging of professional fees
- Inability of low income groups to organization pay hosp. bill/buy medicines care

- **Broad Research Areas**
- Workable strategies in augmenting hospital income for effective health
- service delivery mobilization strategies enrolment of indigents for the - Factors affecting acceptability of
 - indigency program
 - Resource mobilization strategies of LGUs for health delivery/health care financing
 - Operations of HMOs as options for health care financing

Specific Topics

- Lifestyle and dietary requirements

- Factors affecting indigency programs
- Resource
- of
- of LGUs for health - Documentation of initiative for health
- Health management as options for health

financing

- Stakeholdership of communities/ mechanisms of org. in health care health	 Study on standardization of prof. fees in private and government hosp. 	 Study on coping poverty groups for
standardization professional fees in	- Study on coping mechanisms of poverty groups for health care	care - Study on of
govt.		fees in private and
501.	 Documentation of community-based initiative for health care 	hospitals

Health Status of Women

Specific Issues	Broad Research Areas	Specific Topics
- Women's health: reproduction and services of LGU: nutrition impact on the lives of	- Research on health improvement on women	- Programs and its
- Children's health: education - Elderly health economics	- Elderly health economics - Health status of children	PWDs in Albay and Camarines Sur - Status of health rehabilitation
- Neglected PWD	- Research on the impact of programs And services of PWD	programs for senior citizen of Bicol
Region		
	- Prevalence of life-style related iseases among Bicolanos	- Assessment of health status of women & children

Nutrition and Health Manpower

Specific Issues	Broad Research Areas	Specific Topics
- Health Manpower program feeding	- Implementation of government	- Effectiveness of
- Nutrition	programs and projects on malnutrition	in Camarines Sur - Implementation of
food		•
school	- Malnutrition of school children	security program - Eating habits of
sencer	in Region V	children
	- Health care education and delivery system	in Bicol - Community based
development	- Training and development of BHWs	curriculum
	and barefoot doctors and nurses	- Implementation of RA
	- Caregiver research development in Bicol	8550 in Region V Region V - Skills assessment of
	- Status of health workers in the Bicol Region	caregivers in Region V - Management
strategies		utilized by health

institutions to retain health workers

- Food preparation of Bicolano families

Diseases and Data

Specific Issues

- Data (accuracy, completeness, timeliness, utilization
- Networking
- Human and financial resources
- Emerging and re-emerging diseases clinics Region

communi-

control

of

development

Bicolanos

Broad Research Areas

- Emergence of Anti-TB drugs resistant patients
- Economic burden on the mgt. of outbreaks due to vaccine

preventable diseases/Food and water borne diseases

Specific Topics

- Factors influencing migration of health professionals
- Prevalence of TB MDR

in Bicol Region

- Status of specialty in the Bicol
- Effectiveness of

cation materials and

of CV diseases

- Cost of outbreak mgt.

and waterborne diseases and measles

- Assessment of status of

govt. health facilities to manage cases

- Socio-cultural factors related to the

of CVD among

- KAP of known MDR in Bicol Region
- Prevalence of Paragonimiasis among TB symptomatics

Before the zonal consultation and workshop the top ten priorities had to be identified. Some participants of the regional workshop were invited for a consultation meeting. The small group who attended the consultation meeting selected the top ten specific topics. (Please see the appendix for the list of those who attended). The group reviewed the output of the regional workshop, particularly the 35 specific topics. It was agreed upon that as many topics be included so as to accommodate the proposals made during the regional workshop. So some of the specific topics were fused and then rephrased to accommodate as many topics from the original output. After rephrasing, only 11 specific topics were left. (Please see the list in the appendix). The group voted for the ranking. Simple ranking method was done. Each member of the small group ranked the topics. The ranks of each topic were added. The

topics then were arranged with the topic having the lowest total rank score as the first and the topic with the largest score last. Then, the top ten topics were included in the final list. The list of the final ten according to their rank is found below. The table for the standard matrix for the top ten research priority areas/topics is also shown below.

Final 10 specific topics according to rank for Region V

- 1. The prevalence of TB-MGR and Paragonimiasis among symptomatics in Bicol: Focused on KAPS of patients and factors causing the diseases
- 2. The impact of specialty clinics, and the present government health facilities and the outmigration of health professionals to the health and welfare of Bicolanos
- 3. Health impacts of mine tailings from small and medium-scale mining industries in Bicol
- 4. Socio-cultural factors related to the prevalence of cardiovascular diseases and the effectiveness of IEC programs for its control and management
- 5. coping mechanism of poverty groups for health care
- 6. Strategies in augmenting hospital income for effective and efficient health care delivery with the indigency program and the standardization of professional and medical fees as critical factors
- 7. Comprehensive health care R and D program across ecological zones in Bicol
- 8. Skills assessment, capacity enhancement and management of healthcare delivery agents of Bicol with emphasis on Bicol health workers, traditional healers and overseas caregivers
- 9. Assessment of free feeding programs and the nutritional status of Bicolanos focused on diet, food preparation and eating habits of Bicolano families
- 10. Status of health rehabilitation programs for senior citizens of Bicol region

$\label{eq: Health Research Priorities for Region V} Health \ Research \ Priorities \ for \ Region \ V$

Broad R&D Area	Specific Topic	Rationale	Objectives	Responsible Agency	Funding Source
Emergence of Anti TB drug Resistant Patients	Prevalence of TB-MDR and paragonimiasis among TB symptomatics in Bicol: Focused on KAPs of patients and factors causing the diseases	Prevalence of TB-MDR and paragonimiasis among TB symptomatics and socio-cultural factors contributing to the disease will help implement program cost effectively	To determine factors contributing to the emergence of TB MDR	DOH	DOH Global Fund
Prevalence of Life-Style Related Diseases (CV diseases, diabetes) Among Bicolanos	The impact of specialty clinics, the present government health facilities and the outmigration of health professionals to the health and welfare of Bicolanos	To know the effectiveness of specialty clinics for life-style related diseases	To be able to identify significant factors (specialty clinics and health facilities) related to the prevalence of lifestyle related diseases among Bicolanos	DOH POEA,PRC,DBM,CSC	DOH DOST
Comprehensive Environmental Monitoring	Health impacts of mine tailings from small and medium scale mining industries in Bicol	Lack of information on the impacts of mercury from small scale mining, hence the need for monitoring	Determine extent of mercury contamination Scanning of impact caused by mercury contamination to residents/communities Quantitative measurement/ determination of mercury contamination of key population	Academe, NGOs LGU	DOH DENR
Prevalence of Life-Style Related Diseases (CV diseases, diabetes) Among Bicolanos	Socio-cultural factors related to the prevalence of cardiovascular diseases and the effectiveness of IEC programs for their control and management	To know the effectiveness of communication materials and develop strategies for behavioral modification	To be able to identify significant socio-cultural factors related to life-style related diseases among Bicolanos	DOH Academe	PCHRD/Extermal

Broad R&D Area	Specific Topic	Rationale	Objectives	Responsible Agency	Funding Source
Behavioral Study	Coping mechanism of poverty groups for health care	For better program identification	To determine behavioral patterns in coping with health care problems	SUCs LGUs	DOH PCHRD
Operations	Strategies in augmenting hospital income for effective and efficient health care delivery with the indigence program and standardization of professional and medical fees as critical factors	For more effective service delivery even for the poor and the indigents	To document good practices on health care management and implementation	DOH PhilHealth LGU	DOH PhilHealth
Health research and development along different ecological zones	Comprehensive health research and development program across ecological zones in Bicol	Local communities hold important traditional health knowledge that could help in drawing policies and intervention	Document and analyze indigenous knowledge in health	Academe, NGOs LGUs	DOH
Caregiver research development in Bicol	Skills assessment, capacity enhancement and mangement of healthcare delivery agents of Bicol with emphasis on Bicol health workers, traditional healers, overseas caregivers	To enhance performance of caregivers in Bicol region Improve the quality of life of the health workers	To improve health care services in all aspects	DOH OWWA	DOH

Broad R&D Area	Specific Topic	Rationale	Objectives	Responsible Agency	Funding Source
Implementation of Government Programs and Projects on Malnutrition	Assessment of free feeding programs and the nutritional status of Bicolanos focused on diet, food preparation and eating habits of Bicolano families	To evaluate and monitor the program and promote healthy eating habits	To determine the effect of feeding programs in reducing malnourished children	DA DOH LGU	DA
Elderly Health Economics	Status of health rehabilitation programs for senior citizens of Bicol Region	This study will focus on the health rehabilitation programs for senior citizens catering towards the improvement of health and status in society of senior citizens	To determine the operationalization of health rehabilitation programs implemented for senior citizens in the Bicol Region	DSWD, NGOs	DOH

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ANNEX 1

Core Group Members

Members of the first core group

- 1. Elma Q. Cabrera, M.D. BRTTH
- 2. Ronnel Dioneda Bicol University
- 3. Fe Balilo DOH
- Lorna Zambrano BRTTH
 Dr. Floria P. Tagarino Bicol University

Members of the second group

- 1. Elma Q. Cabrera BRTTH
- 2. Ronnel Dioneda Bicol University
- 3. Gloria Arcos Simon of Cyrene
- 4. Lorna Zambrano BRTTH
- 5. Ma. Gina D. Valenzuela BRTTH

ANNEX 2

Participants

REGIONAL CONSULTATIVE WORKSHOP

28 October 2005 Bicol Regional Training and Teaching Hospital Legaspi City, Albay

NAME OFFICE

Dr. Napoleon Arevalo DOH - Provincial Health Team Sorsogon Bicol University Research Department Ms. Emerlinda Alcala Bicol University Research Department Mr. Ronnel Dioneda Ms. Nelsa Malong Divine Word College Ms. Marichu V. Badiola **Bicol College** Tanchuling College Ms. Merly Olarte Ms. Ma. Pamela Viñas **Aguinas University** University of Nueva Caceres Ms. Carmelita Baylon Ms. Josephine Alba University of Nueva Caceres Ms. Cyril Romero La Consolacion, Daet Mr. Martin Dennis AMEC-BCCM BRTTH/AMEC-BCCM Dr. Elma Cabrera Ms. Ma. Pamela Bo Tabaco College **Aquinas University** Mr. Leo G. Llana University of Sta. Isabel Ms. Rowena Encinas

Engr. Archimedes Reynoso

Mr. Edgardo A. Prieto

Mr. Roberto Aranas

Ms. Julieta G. Manlapaz

University of Sta. Isabel

Department of Agriculture – Albay

Department of Labor and Employment

Department of Labor and Employment

Environmental Management Bureau

Ms. Juvywrenn M. Murillo
Ms. Elsa Rejoso
Mining and Sciences Bureau
Mr. Reynulfo Juan
Ms. Rosemarie Boan
Ms. Rosemarie Boan
Ms. Rosemarie Boan
Ms. Mational Economic and Development

Authority
S. Ma. Zoila A. Bagadiong
Philhealth

Ms. Ma. Zoila A. Bagadiong
Mr. Zoila Ariola, Jr.
Population Commission
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Provincial Veterinary Office

Ms. Cherrie O. Aringo
Dr. Gloria Arcos
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Ms. Ma. Elizabeth R. Cajigas PCHRD-DOST
Ms. Mariel Jeanne B. Berroya PCHRD-DOST
Mr. Julius N. Tubig III PCHRD-DOST

ANNEX 3 Health Researches in Bicol

Health Research undertaken by Bicol University (1999-2004)

Title of research	Researchers	Budget	Funding Donor	Year
Local Performance Program Multi- Indicator Cluster Survey (LPP- MICS) for the Province of Catanduanes	VilmaBahoy, Jane Recierdo, Corazon Naz, Fe Binalingbing, Heidi Dyangko, Celerino Palacio and Artemio Buitre	247,000.00	USAID Assistance for LGU Performance Program	1998-1999
Assessment of the Quality Reproductive Tract Infection and Sexually-Transmitted Disease (RTI- STD) Through Health Facility Survey	Heidi Dyangko, Visitacion Bumalay, Janet Recierdo, Artemio Buitre, Magdalena Suarez, Gina Lim, Elena Barela and Ma.Victoria Rumbaoa	330,000.00	DOH	Nov.1999- Jan. 2, 2000
Local Performance Program Multi- Indicator Cluster Survey (LPP- MICS) for the Provinces of Masbate, Camarines Norte and Sorsogon	Vilma Bahoy, Fe, Binalingbing, Corazon Naz, Cynthia Robles, Adelia Guasa, Gina Lim, Heide Dyangko, Jane Pecson, Rosita Tolarba, Corazon Naz and Magdalena Suarez	810,000.00	USAID	Dec. 1, 1999 to Mar. 31, 2000
Local Government Unit Performance Program (LPP-MICS) for the Province of Camarines Sur	Fe Binalingbing, Janet Recierdo, Esther Valladolid, Adelia Guasa, Magdalena Suarez, Cynthia Robles and Angelo Candelaria	400,000.00	USAID	Dec. 1, 1999 to Mar. 31, 2000
An Assessment of the Skills of Level III Student Nurses on the Administration of Medication to Clients	Janet Recierdo, Elena Barela, Artemio Buitre, Ma. JoseVillafuerte and Marissa Vibar	5,000.00	BU	Jan 1998 to Dec. 1999
Effects of the Dietary Pilinut Oil on Cholesterol Level	Ninfa R. Pelea	110,000.00	BU	1999
Lifestyles and Health Habits Among Academic Staff in Bicol University	Visitacion Bumalay, Emerlinda Alcala and Heide Dyangko	5,000.00	BU	Apr 1999 to June 2000
Occupational and Family Roles of Women Managers in Albay	Emerlinda Alcala, Mabias Alparce, Nancy Griando, Gina Lim, Regina Montecillo, Trinidad Parcia and Josie Gumban	5,000.00	BU	Mar 1999 to June 2000
Fifth Country Programme for Multi-Indicator Cluster Survey (CPVC-MICS) for the Province of Masbate	Fe Binalingbing, Cynthia Robles, Adelia Guasa, Janet Recierdo, Josefa Mendoza and Angelo CAndelaria	270,000.00	UNICEF	Year 2000
Participatory Managing Occupational Stress Among Middle Level Managers of BU	Janet Recierdo, Heidi Dyangko, Josie Gumban, Elena Barela and Gina Lim	5,000.00	BU	2003

$\frac{Research\ Activities\ Conducted/Assisted\ by\ DOH\text{-}CHD5}{2000\text{-}2005}$

Title of Research	Type	Conducted by	Year	Area
Identification of enteric Protozoa from diarrheic Patients	Clinical Specimen Analysis	St. Lukes/DOH5 Japan Health Science Foundation	2005	Bicol Region
Clinical Trial of Triclobendazole on Paragonimiasis	Clinical Trial	UP/DOH	2005	Casiguran Sorsogon
LGU Micronutrient Program Monitoring System	KAP Survey	DOH	2005	Albay Cam. Sur
PMEC Coverage Survey	Cluster Survey	WHO/DOH	2004	Bicol Region
REDCOP	Prevalence Survey	NKI	2004	Catandu- anes
Basic Epidemiology and Public Health Surveillance Course Evaluation	Training Course Evaluation	NEC	2003	Cam. Sur
Fertility Awareness Survey	Prevalence Survey	DOH/CHD5	2003	Bicol Region
Rabies KAP Survey	KAP Survey	DOH/CHD5	2003	Cam. Sur
Injury Survey	Prevalence Survey	CDC/PETPAFI	2003	Masbate
REDCOP-Glomerulonephritis and Kidney Stones	Prevalence Survey	NKI/DOH	2002	Leg. City
Family Planning Survey		DOH	2000- 2001	Bicol Region
HIV-AIDS Behavioral Survey Among Commercial Sex Workers	Behavioral Survey	DOH-CHD5	2000	Leg. City

AMEC-BCCM

Factors Associated with Anemia in Pregnant Women

Attitudes and Practices of the Indigenous Tribes of the Bicol Region on the Use of the Medicinal Plants

An Exploratory study on the Stressors and Level of Stress of Widows and Widowers with minor children in Legazpi City

The Rehabilitation programs as Alternative Treatment of Low back pain of the Bicol Medical Center

The Effects of Diet Education Practicum on the Fasting Blood Glucose Level

The Effectiveness of Dental Health Services for Grade 1 Pupils in Legazpi City Schools Division, School Year 2000-2001

An Assessment of the Services and Programs of Simon of Cyrene Children's Rehabilitation and Development Foundation, Inc. 1997-1998

The Relationship of Anemia in Pregnancy to Low-birthweight

ANNEX 5 WORKSHOP GROUP OUTPUTS

Issue of	Magnitude of	Problem with	Can the	Types of research	Feasibility of	Impact of R&D	Research	Priority	Broad
Concern	the problem	the health	specific		research	on the issue	are not well	status?	Research
	(extent,	concern? Or	problem be	* biomedical	based on	addressed? On	funded?	* high	Areas
	prevalence,	reasons for the	solved by	* product devt.	existing	greater number	(Yes or No)	* medium	
	urgency,	persistence of	R&D?	* operations	resources of	of population?		* low	
	burden to the	the problem?	(Yes of No)	* communications	The	cost of health			
	community)	(lack of tools?		* others?	zone/region	care?			
		poor			(Yes or No)				
		utilization?							
		poor							
		knowledge?							
		etc.)							
I. Women's	poor accesibility	-poor IEC	Yes	-IEC	Yes	1.Identify the causes	Yes	High	Research on
health	and availability	-persisting		-Operations		2.Data will cater			health improve-
* reproduction	of programs	traditional				greater number of			ment on women
* nutrition	for women	belief				population			
		- financial				3.Reasons why			
		problem				mothers don't			
						seek medical help			
II. Children's	-not healthy	-lack of educ.,	Yes	-IEC	Yes	1.Civic organization	Yes	High	Assessment
health	children	guidance of		-Communication		2.teachers			of health
education	-affects the	parents on		through health					status of
	family and	proper health		teaching					children
	community	care		-others					
III. Elderly	-drain to	-accessibility,	Yes	-IEC	No	1.Impact on	Yes	High	Health,
health	financial	affordability and		-Communication		family			economic
economics	resources	availability of		-Others: Data		members			status of
		health services		Analysis		taking care of			elderly
		for elderly				elderly			

1	NA it	Doobless with	0 #	T f	F	lara a st of DOD	Danasak	Daile with a	D d
Issue of	Magnitude of	Problem with	Can the	Types of research	Feasibility of	Impact of R&D	Research	Priority	Broad
Concern	the problem	the health	specific		research	on the issue	are not well	status?	Research
	(extent,	concern? Or	problem be	* biomedical	based on	addressed? On	funded?	* high	Areas
	prevalence,	reasons for the	solved by	* product devt.	existing	greater number	(Yes or No)	* medium	
	urgency,	persistence of	R&D?	* operations	resources of	of population?		* low	
	burden to the	the problem?	(Yes of No)	* communications	the	cost of health			
	community)	(lack of tools?		* others?	zone/region	care?			
		poor			(Yes or No)				
		utilization?							
		poor							
		knowledge?							
		etc.)							
IV. Neglected	-creates social	No intensive	Yes	-IEC	Yes	1.Cost of health care	Yes	High	Status of
PWDs in the	stigma in the	program being		-Communications		2.Advocacy on rights			programs and
community	family	implemented by		-Operations		of persons with			services for
		the LGU, GA				disabilities			PWDs
		and other NGOs				3.Poverty alleviation			
						for PWDs			
	-emergence of	appropriate							
	PWDs in the	services for							
	community	PWDs not							
	j	available in the							
		larger							
		community							

Issue of	Magnitude of	Problem with	Can the	Types of research	Feasibility of	Impact of R&D	Research	Priority	Broad
Concern	the problem	the health	specific		research	on the issue	are not well	status?	Research
	(extent,	concern? Or	problem be	* biomedical	based on	addressed? On	funded?	* high	Areas
	prevalence,	reasons for the	solved by	* product devt.	existing	greater number	(Yes or No)	* medium	
	urgency,	persistence of	R&D?	* operations	resources of	of population?		* low	
	burden to the	the problem?	(Yes of No)	* communications	the	cost of health			
	community)	(lack of tools?		* others?	zone/region	care?			
		poor			(Yes or No)				
		utilization?							
		poor							
		knowledge?							
<u> </u>		etc.)							
ı									
I. Data	a. collection &		Yes	cluster survey	Yes	Reduction of	Yes	Low	a. prevalence
	consolidation			product devt.		morbidity and			b. epidemiology
	(magnitude of			modules		mortality			c. KAPS
	the problem)			prod. of IEC					d. management
	b. accuracy			materials					and system
	c. completeness			program dev.					e. intervention
	d. timeliness								
	e. utilization								
II. Networking									
II. Networking		a. advocacy b. absence of							
		policies and							
		regulations							
		regulations							
III. Human and		a. prioritization							
financial		of funding							
resources		agencies							
		b. expertise							
		1 '			1	1			

Issue of Concern	Magnitude of the problem	Problem with the health	Can the specific	Types of research	Feasibility of research	Impact of R&D on the issue	Research are not well	Priority status?	Broad Research
	(extent,	concern? Or	problem be	* biomedical	based on	addressed? On	funded?	* high	Areas
	prevalence,	reasons for the	solved by	* product devt.	existing	greater number	(Yes or No)	* medium	
	urgency,	persistence of	R&D?	* operations	resources of	of population?		* low	
	burden to the	the problem?	(Yes of No)	* communications	the	cost of health			
	community)	(lack of tools?		* others?	zone/region	care?			
		poor			(Yes or No)				
		utilization?							
		poor							
		knowledge?							
		etc.)							
IV. Emerging		a. awareness							
and re-		b. preparedness							
emerging		c. sustainability							
diseases		o. o.o.oabiiity							
2.30000									

Issue of	Magnitude of	Problem with	Can the	Types of research	Feasibility of	Impact of R&D	Research	Priority	Broad
Concern	the problem	the health	specific		research	on the issue	are not well	status?	Research
	(extent,	concern? Or	problem be	* biomedical	based on	addressed? On	funded?	* high	Areas
	prevalence,	reasons for the	solved by	* product devt.	existing	greater number	(Yes or No)	* medium	
	urgency,	persistence of	R&D?	* operations	resources of	of population?		* low	
	burden to the	the problem?	(Yes of No)	* communications	the	cost of health			
	community)	(lack of tools?		* others?	zone/region	care?			
		poor			(Yes or No)				
		utilization?							
		poor							
		knowledge?							
		etc.)							
I. Inadequate		Inadequate	Yes	Operation	Yes	R & D Recommend	No	High	Workable
funding for		services and				policy optional			strategies in
hospitals from		facilities							augmenting
the national									hospital income
government									for effective
									health service
									delivery
II. Sustainability	provinces have	low priority	Yes	Operation/	Yes	R & D can come up		Hihg	Factors affecting
of LGUs in the	arrears in	for health		Governance		w/ recommendations			acceptability of
enrolment of	premium	financing				on sustainability			indigency prog.
indigents for	counterparts; to					strategies			
the indigency	provinces have								resource
program of	not enrolled yet								mobilization
philhealth	under the								strategies of
	indigency prog.								LGUs for health
									delivery/health
									care financing

						KIUKITIES FUK K	-		
Issue of	Magnitude of	Problem with	Can the	Types of research	Feasibility of	Impact of R&D	Research	Priority	Broad
Concern	the problem	the health	specific		research	on the issue	are not well	status?	Research
	(extent,	concern? Or	problem be	* biomedical	based on	addressed? On	funded?	* high	Areas
	prevalence,	reasons for the	solved by	* product devt.	existing	greater number	(Yes or No)	* medium	
	urgency,	persistence of	R&D?	* operations	resources of	of population?		* low	
	burden to the	the problem?	(Yes of No)	* communications	the	cost of health			
	community)	(lack of tools?		* others?	zone/region	care?			
		poor			(Yes or No)				
		utilization?							
		poor							
		knowledge?							
		etc.)							
III.Sustainability	health services	accredited drs.	Yes	Operations	Yes	R & D findings would	No	Medium	Operations of
of HMOs for	not undertaken	reluctant to				be basis for policy			HMOs as
financing	promptly	render services				recommendation			options for
health services		due to delayed							health care
		payment							financing
IV.Overcharging	patient		Yes	Operation	Yes	Basis for policy		High to	Study on
of prof. Fee	shortcharged;					recommendation		Medium	standardization
- cases of	depletion of								of professional
overcharging	philhealth								fees in private
professional	benefit fund								and government
fees have									hospitals
been noted									
V. Inability of	majority of	no access to	Yes	Behavioral	Yes	Policy recommenda-		High	Study on coping
low income	those seeking	services;				tion for poverty		_	mechanism of
groups to pay	hosp. Services	deterioration of				alleviation			poverty groups
hosp. bill/	in govt. hosp.	health status							for health cares/
buy medicines	are poor								poverty studies
	,								<u> </u>
1						•			•

	Magnitude of the problem (extent, prevalence, urgency, burden to the community)	Problem with the health concern? Or reasons for the persistence of the problem? (lack of tools? Poor utilization?	Can the specific problem be solved by R&D? (Yes of No)	* product devt. * operations	Feasibility of research based on Existing resources of the Zone/region (Yes or No)		Research are not well funded? (Yes or No)	status?	Broad Research Areas
		poor knowledge? Etc.)							
VI. Stakehol- dership of communities/ organization in health care	communities involvement in health care not optimized	lack of commu- nity support system for health concern	Yes	Behavioral	Yes	consideration for replication purposes		Medium	documentation of community- based initiative for health care

Issue of	Magnitude of	Problem with	Can the	Types of research	Feasibility of	Impact of R&D	Research	Priority	Broad
Concern	the problem	the health	specific	rescursii	research	on the issue	are not well	,	Research
Concern	(extent,	concern? Or	problem be	* biomedical	based on	addressed? On	funded?	* high	Areas
	prevalence,	reasons for the	solved by	* product devt.	existing	greater number	(Yes or No)	ŭ	Aleas
	ľ	persistence of	R&D?	* operations	resources of	of population?	(103 01 140)	* low	
	urgency, burden to the	the problem?	(Yes of No)	* communications		cost of health		IOW	
	community)	(lack of tools?	(165 01 140)	* others?	zone/region	care?			
	community)	poor		Others?	(Yes or No)	cares			
		utilization?			(TES OF NO)				
		poor							
		knowledge?							
0!t!		etc.)							
Sanitation		116-1-4-		b a sale sa a alcia a	V			le t en le	h 14h :
1. Lack of	very urgent	lack of data	yes	- bench marking	Yes	very high	yes	high	-health in
disagreegated				- profiling/					indigenous
health data				baselining					knowledge and
across ecolo- gical zones									system -study on dietary
9									imposition and
									health practice
2. Waste	Yes	increasing num.	Yes	case analysis	yes	high	yes	high	-waste mgt.
disposal and		of illness due to							-assessment of
mgt. Attributed		indiscriminate							LGUs on diff.
to values and		waste disposal							areas e.g.
culture									domestic, ind.
									and institution
Basic services									
1. Food	very urgent	-increase no. of	Yes	product delivery	yes	high	yes	high	assessment o
insecurity/		consumers VS							health practic
scarcity		resources							
		-land conversion							

Issue of M	/lagnitude of	Problem with	Can the	Types of research	Feasibility of	Impact of R&D	Research	Priority	Broad
Concern th	he problem	the health	specific		research	on the issue	are not well	status?	Research
(€	extent,	concern? Or	problem be	* biomedical	based on	addressed? On	funded?	* high	Areas
рі	revalence,	reasons for the	solved by	* product devt.	existing	greater number	(Yes or No)	* medium	
uı	ırgency,	persistence of	R&D?	* operations	resources of	of population?		* low	
bi	urden to the	the problem?	(Yes of No)	* communications	the	cost of health			
CC	community)	(lack of tools?		* others?	zone/region	care?			
		poor			(Yes or No)				
		utilization?							
		poor							
		knowledge?							
		etc.)							
		-unsustainable							
		practices and							
		destructive							
		resource							
		exploitation							
Environment									
-lack of tech. v	very urgent	-lack of data	Yes	-bench marking	yes	very high	yes	very high	-comprehensive
data/baseline		-poor in		-case analysis					environmenta
study-info about		documentation		-documentation					monitoring
pollutants		documentation		-profiling					-impact of
polititarits				-					· ·
				-baselining					mercury pollu- tion on the
-lack of direct									human food
									chain in small
•									scale mining
Ī I									comp. In Albay
neaith problem									Masbate, Cam. Norte, Paracale
evidence of connecting pollution to health problem									scale comp Masb

		1							
Issue of	Magnitude of	Problem with	Can the	Types of research	Feasibility of	Impact of R&D	Research	Priority	Broad
Concern	the problem	the health	specific		research	on the issue	are not well	status?	Research
	(extent,	concern? Or	problem be	* biomedical	based on	addressed? On	funded?	* high	Areas
	prevalence,	reasons for the	solved by	* product devt.	existing	greater number	(Yes or No)	* medium	
	urgency,	persistence of	R&D?	* operations	resources of	of population?		* low	
	burden to the	the problem?	(Yes of No)	* communications	the	cost of health			
	community)	(lack of tools?		* others?	zone/region	care?			
		poor			(Yes or No)				
		utilization?							
		poor							
		knowledge?							
		etc.)							
Cont,, enviroment									study on the
									potential toxic
									effects of mine
									tailings within
									the surrounding
									environment

	T	T	1	1		I		1	1
Issue of	Magnitude of	Problem with	Can the	Types of research	Feasibility of	Impact of R&D	Research	Priority	Broad
Concern	the problem	the health	specific		research	on the issue	are not well	status?	Research
	(extent,	concern? Or	problem be	* biomedical	based on	addressed? On	funded?	* high	Areas
	prevalence,	reasons for the	solved by	* product devt.	existing	greater number	(Yes or No)	* medium	
	urgency,	persistence of	R&D?	* operations	resources of	of population?		* low	
	burden to the	the problem?	(Yes of No)	* communications	the	cost of health			
	community)	(lack of tools?		* others?	zone/region	care?			
		poor			(Yes or No)				
		utilization?							
		poor							
		knowledge?							
		etc.)							
Health	-lack of health	-MDs goes RN	Yes	Tracer study	Yes	-retention of our		High	-caregiver
manpower	practitioners	-exodus of RN				health workers			research and
	-brain-drain	in US				-increase ratio of			development in
		-lack of support				CHW vs clients			Bicol
		for volunteer							-job satisfaction
		health workers							-improvement of
		-low salary							work environ-
		in the Phils.							ment
									-health ethics
Malnutrition	-region wide	-lack of imple-	Yes	- biomedical	Yes	-productivity		High	-impact of
	-very urgent	mentation of		- operations		-reduce percentage			implementation
		govt. programs				of malnutrition			of govt. programs
		-continous				- improve quality of			proj. on nutrition
		deletion of				life			-health care
		source of cheap							education and
		protein							delivery system
		-political will							-tracer study of
		-economic							health workers
		condition							-community based
									curriculum devt.

Specific topics	Categorization as to type of research	Rank according to importance
HEALTH STATUS OF WOMEN		
1. An assessment of the health status of women	Evaluation/assessment	3rd
An assessment of the health status of children	research survey	
2. Status of health rehabilitation programs for senior citizens of Bicol region	Ex Post Facto - Survey Research	2nd
3. Programs and services of the LGU: it's impact on the lives of of PWDs in Albay and Cam Sur	Evaluation/Assessment survey research	1st

Specific topics	Categorization as to type of research	Rank according to importance
DISEASES AND DATA		
1. Status of specialty clinics in the Bicol Region		3
2. Factors influencing migration of health professionals		1
3. Effectiveness of communication materials and control		4
of cardiovascular diseases		
4. Socio-cultural factors related to the development of		7
cardiovascular diseases among Bicolano		
5. Prevalence of TB MDR in the Bicol Region		2
6. KAPS of known MDR in the Bicol Region		8
7. Prevalence of Paragonimiasis among TB symptomatics		9
8. Cost analysis in OB management of FWB diseases and measles		5
9. Assessment of status of government health facilities to manage cases		6

Specific topics	Categorization as to type of research	Rank according to importance
HEALTH AND FINANCING		·
Workable strategies in augmenting hospital income for effective health service delivery	Operations	4
Factors affecting acceptance of indigency program	Operations	1
Resource mobilization strategies of LGU's for health service delivery	Operations	3
Resource mobilization strategies of LGUs for health care financing	Operations	2
Health management organization (HMOs) as options for health care financing	Operations	6
Study on standardization of professional fees in private and government hospital	Operations	8
7. Study on coping mechanism of povery groups for health care, poverty studies	Behavioral Study	7
8. Documentation of community - based initiative for health care	Operations	5

Specific topics	Categorization as to type of research	Rank according to importance
SANITATION AND BASIC SERVICES		
Impact on heavy metals (mercury) on human health in small scale mining communities of Aroroy Masbate, Paracale and J. Panganiban, Cam.Norte	· · · · · · · · · · · · · · · · · · ·	2
Study on potential toxic effects of mine tailing in coastal areas	descriptive, correlation	1
Study on waste management program of LGUs on different areas re: domestic, industrial, commercial and institutional	descriptive	3
4. Indigenous knowledge system on health along different ecological zones	descriptive	4
5. Dietary composition and health practices	descriptive	7
Characterization of carrying capacity of basic resource system	descriptive	6
7. Lifestyle and dietary requirements in depressed areas in the region	descriptive	5

Specific topics	Categorization as to type of research	Rank according to importance
NUTRITION		
Effectiveness of feeding program in Camarines Sur		1
Implementation of food security program		2
3. Eating habits of school children in Bicol Region		3
Community based curriculum development		4
5. Implementation of RA 8550 in Region V		5
6. Tracer study of health workers in Region V		6
7. Skills assessment of care givers in Region V		7
Management strategies utilized by health institutions to retain health workers		8
Food preparation of Bicolano families		9