

Appendix A.

Andrews Campus  
**RDE Banner Programs and Projects**  
**2018-2022**

**Banner Program:**

The Cagayan State University Andrews campus aligns its research and extension activities with its banner program, **Public Health**.

**Goal:**

It aims to achieve a healthy and wealthy community through research development and extension activities attuned to the National and Regional Public Health priorities. It also aims to empower the beneficiaries and facilitates the dissemination of development information. It is a means that promotes and transfers health-related technologies at the local level.

**Objectives:**

1. Conduct studies and implement programs aligned with epidemiology; environmental health; occupational health; community health; diagnostics; nutrition, health economics; information and communication technology for health; drug discovery and development; and formulation of evidence-informed public health policy;
2. Spearhead the conduct of health researches on infectious and communicable diseases, emergency response, disaster risk reduction management, maternal and child health, non-communicable/lifestyle disease, health governance and management, health financing, sexual and reproductive health, functional foods and traditional, alternative and complementary medicine;
3. Conduct initial surveys on need and risk assessments to facilitate interventional studies and prepare extensions and productivity programs for health;
4. Establish linkages and coordination between and among relevant agencies, NGOs, higher education institutions, stakeholders and policy makers for the conduct of health researches in particular along their identified institutional health research agenda;
5. Publish papers to internationally recognized journal publications such as Scopus, Thomson Reuter, ISI and CHED Accredited journals;
6. Create a database or an online repository where researchers can upload their researchers findings related to public health studies.

**Challenges**

- Lack of state-of-the-art facilities
- Limited research training and skills enhancement by some of the faculty members working on Public Health

**Plan strategy**

- To harmonize all research activities to the national agenda
- Researches in Public Health translated to extension works

**Commodity/Banner Program: Public Health**  
**Campus: Andrews**

Priorities/ Research Area	Program/Project/Study	TIMEFRAME					EXPECTED OUTPUT				
		2018	2019	2020	2021	2022	2018	2019	2020	2021	2022
Environmental Health	<ul style="list-style-type: none"> <li>Heavy metal determination in soil, air, and water</li> <li>Heavy metal phytoremediation potential of water hyacinth (Eichhornia crassipes ) and other aquatic plants and terrestrial plants</li> <li>Heavy metal determination in vegetables and cultivated soil horizon in Organic Farming System</li> <li>Heavy metal determination in Urban Farming System</li> </ul>	X		X		X		Submitted papers for publication and presentation	<ul style="list-style-type: none"> <li>Improved soil quality viable for organic farming and urban agriculture</li> </ul>	<ul style="list-style-type: none"> <li>Increased number of informed local farmers through seminar and IEC materials</li> <li>Reduced heavy metal in soil, air and water</li> </ul>	<ul style="list-style-type: none"> <li>Improved water quality and potability</li> </ul>
Community Health	<p><b>Maternal and Child Health</b></p> <ul style="list-style-type: none"> <li>Heavy metal determination in breastmilk of lactating mothers in selected</li> </ul>		X	X	X			Submitted papers for publication	Increased number of informed beneficiaries	<ul style="list-style-type: none"> <li>Improved maternal and child health</li> </ul>	

	<p>communities (Assessment of exposure)</p> <ul style="list-style-type: none"> <li>• Perceived factors affecting the immunization status of infants aged 0 -12 months in Tuguegarao City</li> <li>• Interventions to improve the social and emotional well-being of school-aged children.</li> <li>• <b>Risk Assessment</b> Common Health Problems in Core Shelters of Tuguegarao City</li> </ul> <p><b>Infectious and Communicable Diseases among population at risk</b></p> <ul style="list-style-type: none"> <li>• Vector borne diseases</li> <li>• Emerging and re – emrging disease</li> <li>• Anti – microbial resistance</li> </ul>		<p>X</p> <p>X</p>								<p>Submitted papers for publication</p>	<ul style="list-style-type: none"> <li>• Increased number of informed elementary schools about the interventions to promote social health, emotional health and well-being of elementary pupils</li> <li>• Rendered medical mission, health care and preventive services</li> </ul>	<ul style="list-style-type: none"> <li>• Decreased morbidity rates</li> <li>• Conducted seminars on the elimination of health disparities as experienced by the vulnerable members of the core shelters.</li> </ul>
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Occupational Health	<b>Assessment of heavy metal exposure among occupationally exposed individuals</b> <ul style="list-style-type: none"> <li>• Street sweepers</li> <li>• Traffic enforcers</li> </ul> <b>KAP</b> <ul style="list-style-type: none"> <li>• Infectious diseases</li> <li>• Occupationally related diseases</li> </ul>		X	X	X	X			Submitted papers for publication	Increased number of informed beneficiaries	Decreased occupational health hazards
Diagnostics	<b>Proof of concept for screening</b> <ul style="list-style-type: none"> <li>• Confirmatory and prognosis for 13 priority diseases</li> <li>• Target identification and validation, prototype development, laboratory performance testing and field testing of diagnostic kits for 13 priority diseases.</li> </ul>	X	X	X	X	X				Developed rapid test kits Conducted trainings	Medical Mission conducted

Nutrition	<p><b>Food quality and safety</b></p> <ul style="list-style-type: none"> <li>Nutritional assessment and monitoring</li> <li>Food fortification</li> <li>In-depth and correlation studies (dietary risk factors to non-communicable diseases)</li> <li>Enhancement of food composition database for dietary exposure assessment exposure assessment of selected nutrients, food contaminants, and food additives in commonly consumed foods</li> </ul> <p><b>Functional Foods</b></p> <ul style="list-style-type: none"> <li>Determination and analyses of Functional Foods for health promotion and disease prevention.</li> <li>Safety assessment</li> <li>Characterization</li> <li>Establishment of health benefits and product development</li> </ul>	X	X	X	X	X		Submitted papers for publication	Developed fortified food products	<p>Revised nutrition tools/standards</p> <p>Packaged fortified products following the national standards of product Labelling and Packaging</p> <p>Implemented nutrition intervention program for high risk individuals</p> <p>Conducted info-dissemination on roles of functional foods for health promotion and for reduction of risk of a disease.</p> <p>Developed functional food products</p>	<p>Reduced morbidity from non - communicable diseases</p> <p>Increased number of developed food products and transferred technologies</p>
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Health Economics	Population Economics		x	X	X				Submitted papers for publication	Conducted training on financial management and cost-saving measures while doing home care.	Increased number of discovered alternative medicine.
Information and Communication Technology for Health	Public health surveillance (Disease prevalence/incidence) - Monitoring proximity to predict possible epidemics  ICT-enabled medical devices and services		x						Developed Health Information System; e-Health	Submitted paper for publication	Increased number of well-informed target beneficiaries
Drug Discovery and Development	Development of standardized herbal drugs	x	x	x	x	x	Number of papers submitted for publication	Presence of Developed Product	Number of papers submitted for publication	Number of papers submitted for publication	Presence of Developed Product
Public Health Policy	-Crafting of evidence – informed public health policies		x		x				Submitted research output to the Policy Formulating Body	Number of papers submitted for publication	

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