

**Research studies area to be taken up of Grant-in-Aid (GIA) scheme of DHR****1. Research studies with emphasis on public health:**

<b>S. No.</b>	<b>Priority area of research</b>
1.1	Cancer
1.2	Mental Health
1.3	Cardiovascular Diseases
1.4	Environmental Health/Occupational health
1.5	Stroke and Neurological Disorders
1.6	Diabetes
1.7	Metabolic Disorders
1.8	Congenital Malformations and Genetics
1.9	Kidney and Liver Disorders
1.10	Physical health problems specifically related to women regarding top 5 problems: <ul style="list-style-type: none"> <li>• Heart Diseases</li> <li>• Breast Cancer/Cervix Cancer</li> <li>• Osteoporosis</li> <li>• Depression</li> <li>• Autoimmune Diseases</li> </ul>
1.11	Maternal Health
1.12	Child Health
1.13	Low Child Sex Ratio and other Gender Health
1.14	Disease causing blindness and its control
1.15	Nutritional Disorders

## 2. Translational research projects:

Item	Topic of the Study
2.1 Leads indentified by ICMR Institutes and partly developed	(i) Diagnostic assays/reagents/devices for diabetes mellitus; cervical cancer; thallemia; infectious disease such as tuberculosis, leptospirosis, hepatitis E, rotavirus diarrhoea, food borne pathogens, Chlamydia infections, kala-azar, malaria, filarial and lung fluke; (ii) Vaccines for Japanese encephalitis, hepatitis E, (iii) Nutrition: assays for bioavailability of iron, vitamin A estimation; (iv) Others: cooling garment to prevent and manage heat effects; ergonomically designed rickshaw; test for determination of viability of sperms; molecules, metabolites/organisms for biological control of mosquitoes. Leads indentified as second priority likely to take 3-4 years to develop prototype/technologies
2.2 Leads identified from extramural projects 2.3 Leads indentified by other agencies/requiring inter-departmental collaboration with like DST, DBT, DSIR, DRDO etc.	

## 3. Inter-sectoral co-ordination including funding of joint projects:

S. No.	Purpose of Study
<b>Joint projects with DBT/DST/DRDO on diagnostics &amp; Vaccine</b>	
3.1	3.1.1 Diagnostics in area of cancer, stroke, diabetes, vector borne disease, tuberculosis, leishmaniasis etc. 3.1.2 Vaccines for vector borne diseases, leishmaniasis etc. 3.1.3 Basic biology, polymers, devices, bio-instrumentation and other life science related areas like nanotechnology etc.
<b>Joint projects with DBT/DST/CSIR/on New drug discovery</b>	
3.2	3.2.1 Drug discovery in the areas of cancer, stroke, diabetes, vector borne diseases, tuberculosis, leishmaniasis etc. 3.2.2 Diagnostics, devices and therapeutics with DST, DBT, CSIR, DRDO, Information Technology

<b>Joint projects with AYUSH New drug discovery/Treatment</b>		
3.3	3.3.1	Drug discovery/new treatment in the areas of cancer, stroke, diabetes, vector borne disease, tuberculosis, leishmaniasis, cardiovascular diseases, mental disorders, arthritis, skin disorders etc.
	3.3.2	Role of Yoga in cardio-vascular diseases, diabetes, stroke and neurological disorders etc. Other alternate therapies
<b>Joint projects with Department of Environment</b>		
3.4	3.4.1	Effect of climate change on vector borne disease, and other communicable disease and impact of transgenic/recombinant technology on health
	3.4.2	Indoor and outdoor air pollution
	3.4.3	Noise heat, radiation pollution etc
	3.4.4	Pollution due to chemicals, pesticides, other toxic waste etc.
	3.4.5	Development of disaster management tools
<b>Joint projects with DARE/ICAR</b>		
3.5	3.5.1	Diagnostics, treatment and control of diseases on Zoonosis
	3.5.2	Improvement of nutritional status nutritional safety – use of pesticides; other toxic contaminants etc
<b>Joint projects with Department of Space</b>		
3.6	3.6.1	GIS mapping of vector borne disease with geo-climate factors
	3.6.2	GIS mapping of cardio-vascular, cancer, diabetes diseases with population density, industry, agriculture produce etc.
<b>Joint projects with Ministry of Women &amp; Child Development, Department of Health &amp; Family Welfare and ICSSR/Department of Information Technology/Labour etc.</b>		
3.7	3.7.1	Nutrition patterns and developing Interventions with WCD, Nutritional Institutes
	3.7.2	Socio-behavioural factors related with maternal health with ICSSR
	3.7.3	Health education with WCD
	3.7.4	Public health interventions with Department of Health and Women and Child development, social justice
	3.7.5	Under-five morbidity pattern with ICDS
	3.7.6	Nutritional interventions with Schools, WCD
	3.7.7	Studies with ICSSR on Low Child Sex ration, female feticide, domestic violence and sexual violence at work place
	3.7.8	Model projects on implementation of Knowledge management policy;
	3.7.9	Other model projects related to national programmes including health systems research and socio-behavioural interventions