

Research studies areas to be taken-up under Grant-in-aid scheme of DHR

1. Research Studies in areas relevant to Public Health.

S.NO.	Priority Area of Research	Topic of the study
	Non-Communicable Diseases	
1.	Cancer	<ul style="list-style-type: none"> • Estimation of State/region wise disease burden • Profiles of cancers • Risk factors identification • Development and evaluation of algorithms for diagnosis and Management • Other areas relevant to the programme.
2.	Mental Health	<ul style="list-style-type: none"> • Epidemiological studies for assessing for disease burden and determinants etc. • Development of skills for end of life care • Model projects under Brain Grid with NKN • Development and evaluation of algorithms for diagnosis and management • Other areas relevant to programmes.
3.	Cardiovascular Diseases	<ul style="list-style-type: none"> • Epidemiological studies for Burden estimation (regional/states) • Socio-behavioral, lifestyle and other risk factors • Profile of CVS diseases • Development and evaluation of algorithms for diagnosis and management • Other areas relevant to programmes.
4.	Environmental Health/occupational health	<ul style="list-style-type: none"> • Burden estimation • Impact of legislation • Air and water pollution • Health problems related to pesticides etc • Profile of occupational health problems of national importance • Other areas relevant to programmes.
5.	Stroke and neurological disorders	<ul style="list-style-type: none"> • State and regional data • Type of strokes • Risk factors estimations • Development and evaluation of algorithms for diagnosis and management • Other areas relevant to programmes.
6.	Diabetes	<ul style="list-style-type: none"> • State and regional data • Risk factors estimations • Strategies for management at various levels • Other areas relevant to programmes.
7.	Metabolic disorders	<ul style="list-style-type: none"> • State and regional data along with risk factors

		<ul style="list-style-type: none"> • Development and evaluation of algorithms for diagnosis and management • Other areas relevant to programmes.
8.	Congenital Malformations and Genetics	<ul style="list-style-type: none"> • State and regional data including classification • Risk factors estimations • Development and evaluation of algorithms for diagnosis and management • Other areas relevant to programmes
9.	Kidney and liver disorders	<ul style="list-style-type: none"> • State and regional data and types • Risk factors estimations • Development and evaluation of algorithms for diagnosis and management • Other areas relevant to programmes.
Studies on Gender and Health	<p>1. Physical Health problems specifically related to women regarding top 5 problems:</p> <ul style="list-style-type: none"> ▪ Heart diseases, ▪ Breast cancer/cervix ▪ Osteoporosis ▪ Depression ▪ Autoimmune diseases 	<p>Studies on various aspects such as:</p> <ul style="list-style-type: none"> • Vulnerability to diseases. • Socio-cultural factors • Education and access to information • Gender specific public health interventions
1.	Maternal health	<ul style="list-style-type: none"> • Estimating morbidity and mortality patterns • Nutritional disorders • Tools for reducing MMR • Reproductive health • Health care seeking behavior • Other areas relevant to programmes.
2.	Child health	<ul style="list-style-type: none"> • Estimating morbidity and mortality patterns • Nutritional disorders (malnutrition and obesity) • Diarrhoeal and respiratory disorders • Factors affecting pre-term, LBW • Immunization • Other areas relevant to programmes.
3.	Low child sex ratio and other Gender and Health	<ul style="list-style-type: none"> • Factors influencing female feticide • Social beliefs • Qualitative research studies • Domestic violence • Other areas relevant to programmes.

2. Programme for Translational Research

Item	Topic of the Study
<p>Leads identified by ICMR Institutes and partly developed</p>	<p>The technologies targeted for 2013-14 include :</p> <ul style="list-style-type: none"> (i) diagnostic assays/ reagents/ devices for diabetes mellitus; cervical cancer; thallemia ; infectious diseases 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. <p>31-75 : Leads identified as second priority likely to take 3-4 years to develop prototype/ technologies</p>
<p>1.Leads identified from extramural projects 2.Leads identified by other agencies/ requiring inter-departmental collaboration with like DST, DBT, DSIR, DRDO etc.</p>	

3. Programme for Inter-sectoral Co-ordination including funding of joint projects

S.NO.	Purpose of study
Joint projects with DBT /DST/DRDO on diagnostics & vaccine	
1.	<ul style="list-style-type: none"> • Diagnostics in area of Cancer, Stroke, Diabetes, Vector borne diseases, Tuberculosis, Leishmaniasis etc. • Vaccines for Vector borne diseases, Leishmaniasis etc. <p>Basic biology, polymers, devices, bio-instrumentation and other life science related areas like nanotechnology etc.</p>
Joint projects with DBT /DST/CSIR/ on New drug discovery	
2.	<ul style="list-style-type: none"> • Drug discovery in the areas of Cancer, Stroke, Diabetes, Vector borne diseases, Tuberculosis, Leishmaniasis etc. • Diagnostics, devices and therapeutics with DST, DBT, CSIR, DRDO, Information Technology
Joint projects with AYUSH New drug discovery / Treatment	
3.	<ul style="list-style-type: none"> • Drug discovery / new treatment in the areas of Cancer, Stroke, Diabetes, Vector borne diseases, Tuberculosis, Leishmaniasis, cardiovascular diseases, Mental disorders, arthritis, skin disorders etc. • Role of Yoga in cardio-vascular diseases, diabetes, stroke and neurological disorders etc. • Other alternate therapies
Joint projects with Department of Environment	
4.	<ul style="list-style-type: none"> • Effect of climate change on vector borne diseases, and other communicable diseases and impact of transgenic/ recombinant technology on health • Indoor and outdoor air pollution • Noise heat, radiation pollution etc • Pollution due to chemicals, pesticides, other toxic waste etc. • Development of disaster management tools
Joint projects with DARE/ ICAR	
5.	<ul style="list-style-type: none"> • Diagnostics, treatment and control of diseases on Zoonosis • Improvement of nutritional status • Nutritional safety –use of pesticides; other toxic contaminants etc
Joint projects with Department of Space	
6.	<ul style="list-style-type: none"> • GIS mapping of Vector borne diseases with geo-climatic factors • GIS mapping of cardio-vascular, cancer, diabetes diseases with population density, industry, agricultural produce etc.
Joint projects with M/o of Women & Child Development, Department of Health & FW and ICSSR/ Department of information technology/ labour etc.	

7.	<ul style="list-style-type: none"> • Nutritional patterns and developing interventions with WCD, Nutritional institutes • Socio-behavioural factors related with maternal health with ICSSR • Health education with WCD • Public health interventions with Department of Health and women and child development, social justice • Under-five morbidity pattern with ICDS • Nutritional interventions with schools, WCD • Studies with ICSSR on Low Child sex ratio, female feticide, domestic violence and sexual violence at work place • Model projects on implementation of Knowledge management policy; • other model projects related to national programmes including health systems research and socio-behavioural interventions
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4. Programme for Comparative /cost effectiveness analysis for public health choice.

S.NO.	Area of Research	Sub-areas	Topics of the study
A. Non-communicable diseases			
1	Cancer		<ul style="list-style-type: none"> • Methods for effective and early diagnosis • Impact of health services for cancer management • Efficacy of different regimens • Development of guidelines for diagnosis and management
2	Mental Health		<ul style="list-style-type: none"> • Scales and tools for assessment of Mental Health • Evaluation of newer modalities of treatment like ECT etc • Development of guidelines for diagnosis and management
3	Cardiovascular Diseases		<ul style="list-style-type: none"> • Assessment of promotive models for prevention of risk factors • Efficacy of newer diagnostic tests • Models of early treatment to reduce mortalities • Health informatics and health technology assessments • Development of guidelines for diagnosis and management
4	Stroke and neurological disorders		<ul style="list-style-type: none"> • Newer diagnostics • Newer treatment modalities • Preventive models • Development of guidelines for diagnosis and management
5	Diabetes		<ul style="list-style-type: none"> • Newer diagnostics

		<ul style="list-style-type: none"> • Newer management strategies • Health promotive and preventive models • Development of guidelines for diagnosis and management
6	Malaria Dengue Chikungunya Japanese Encephalitis (Vector Borne Diseases)	<ul style="list-style-type: none"> • Efficacy of alternate drugs • Newer vaccines • Newer drugs including larvicidals • Preventive technologies • Use of technologies for prevention and cure • Development of guidelines for diagnosis and management
7	Tuberculosis / Leprosy Other Mycobacterial diseases	<ul style="list-style-type: none"> • Multidrug resistance • Newer diagnostics • Newer drugs and combinations • Development of guidelines for diagnosis and management
8	Leishmaniasis / Kalazar	<ul style="list-style-type: none"> • Newer diagnostics • Newer drugs
9	Zoonoses	<ul style="list-style-type: none"> • Newer diagnostics • Newer drugs
10	Guidelines for management of important maternal and child health problems; region specific guidelines for nutrition; enteric infections, acute fevers; PUO; genetic disorders, blood disorders etc;	