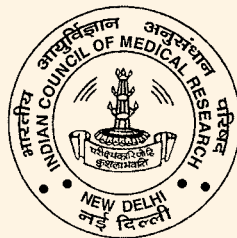


ANNUAL REPORT (2013-2014)



DESERT MEDICINE RESEARCH CENTRE

(Indian Council of Medical Research)

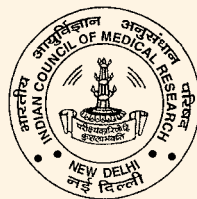
NEW PALI ROAD, JODHPUR-342 005

Compiled & Edited By: Dr. A. K. Dixit Scientist 'E', DMRC

Published By: Dr. G. S. Toteja, Director
Desert Medicine Research Centre (DMRC)
New Pali Road, Jodhpur-342005 (Rajasthan)

Designed & Printed at M/s Aravali Printers & Publishers (P) Ltd., W-30, Okhla Industrial Area, Phase-II, New Delhi-110020
Phone: 47173300, 26388830-32

डॉ विश्व मोहन कटोच
एम डी, एक एन ए एमसी, एक ए एम एम, एक ए एमसी, एक एन ए
सचिव, भारत सरकार
(स्वास्थ्य अनुसंधान विभाग)
स्वास्थ्य एवं परिवार कल्याण मंत्रालय एवं
महानिदेशक, आई सी एम आर
Dr. Vishwa Mohan Katoch
MD, FNAsc, FAMS, FASc, FNA
Secretary to the Government of India
(Department of Health Research)
Ministry of Health & Family Welfare &
Director-General, ICMR




FOREWORD

It gives me immense pleasure to write this foreword to the Annual Report of Desert Medicine Research Centre (ICMR Jodhpur), for the year 2013-14 both in English and Hindi communicating its year long activities of promoting collaborative research, which effectively began with the organisation of Rajasthan Conclave in July, 2013. I am pleased to note that following this conclave, eight MoUs were signed between medical colleges, universities in the state and the state health authorities and various collaborative studies were initiated during the year. These studies, such as studies on Mapping of mosquito breeding using space technology (RS & GIS), Opium addiction and recurrence of pulmonary tuberculosis, Drug sensitivity testing of microbacterium tuberculosis, Hypertension among the tribes in Udaipur district and Nutritional status of elderly population; aim at important public health issues from widen horizon of approach.

The centre's contribution in facilitating the establishment of Model Rural Health Research Unit (MRHRU) at Bhanpur Kalan, Jaipur is appreciable. This is one of the fifteen such units being established across the country by the Department of Health Research, Govt of India. The initiation of one of the Biomedical Informatics Centre of ICMR at DMRC is another contribution of the centre towards developing a National Repository of clinical information. The appreciation, which the centre earned at district level in implementation of Rajbhasa, speaks for its commitment for implementation of Rajbhasa.

Assimilating Collaborative research, which is the need of the hour, and the distinguished work rendered for facilitation of the transfer of technology at rural level for improving health of rural people are laudable steps, which strengthen centre's efforts to bring health to the people of the region.


(V.M. Katoch)

PREFACE

Desert Medicine Research Centre (ICMR) has been committed to the health of the people of desert, right from its inception in 1984 through its multi dimensional health research endeavour to address various health problems posed by communicable, non-communicable and nutritional diseases. It has focused now to join hands with the stakeholders, in particular from last year as to widen collectively the horizons of approaches to address health related issues of the region. This approach resulted in collaborative research with medical colleges, state health departments and universities in the state. Various collaborative research projects were initiated during the year. During the year, DMRC also became a part of ICMR Task Force study on Hypertension.

Model Rural Health Research Unit has been set up by the Department of Health Research (DHR), Govt. of India for Rajasthan at Bhanpur Kalan, Jaipur with the objective of transfer of technology at rural level for improving health of rural people in particular. DMRC took a lead in facilitating the establishment of this unit, which was inaugurated by Secretary, DHR and DG, ICMR, Dr. V. M. Katoch on February 1st 2014. The land required for the construction of the unit has also been provided by state authorities free of cost and has now been transferred to DHR and the construction work of the building is going to start soon.

Apart from its untiring efforts for the health of the people of the region, DMRC has been very particular in implementation of the policies of Rajbhasha in the centre. "Chetna", a quarterly bilingual (Hindi and English) magazine is published regularly by the centre is receiving much appreciation by its readers in its new look. Unicode training was imparted not only to all staff in DMRC but we received request from other organizations also such as FCI Aravali Gypsum and Prasar Bharti. DMRC trained the staff of these organizations as well in Unicode. This year, centre received the Runner-Up Shield by the Town Rajbhasha Implementation Committee as a token of appreciation of its efforts in implementation of Rajbhasha.

To address health problems of the region, the Centre is now putting its efforts in research of public health importance, with a new approach of collaboration with all the stakeholders as search for the solutions of complex health phenomena from a wider angle.

(Dr.G.S.Toteja)
Director

CONTENTS

1.	COMMUNICABLE DISEASES
1.1	Mapping of risk of Dengue Hemorrhagic Fever (DHF) through dengue virus typing in <i>Aedes</i> mosquitoes of different settings of Rajasthan
1.2	Comparative study of Gene characterization of Influenza A pandemic (H1Ni) 2009 viruses from virus isolates of 2009 pandemic and 2012 re-emerging viruses in western Rajasthan: Phylogenetic analysis and molecular characterization
1.3	Surveillance of pyrethroid resistance in <i>Anopheles stephensi</i> strains of Rajasthan and studies on genetic and biochemical mechanisms of pyrethroid resistance in <i>An. stephensi</i>
1.4	Impact of irrigation change on the prevalence of malaria in arid and non-arid parts of Rajasthan
1.5	Synergistic efficacies of some plant extracts with and without some insecticidal formulations against vectors of malaria and dengue in North- Western Rajasthan
1.6	Use of insecticide treated nets (ITNs) in alternative forms for the protection against malaria transmission in the desert
1.7	Mapping of mosquito breeding habitats and location of vertebrate hosts in North and Southern parts of Rajasthan state prone for emergence of JE virus using space technology (RS & GIS)
1.8	Standardization of a rapid method for direct drug sensitivity testing of <i>Mycobacterium tuberculosis</i> from sputum samples
1.9	Rapid culture and direct drug sensitivity testing of <i>Mycobacterium tuberculosis</i> to isoniazid and rifampicin using liquid culture media
1.10	A Case Control study of opium addiction and recurrence of pulmonary tuberculosis
1.11	Translational research for development and testing of ICMR-DMRC module of dengue control for Rajasthan
1.12	KAP study of Dengue and Malaria to design appropriate intervention among Tribal of Rajasthan
2.	NON-COMMUNICABLE DISEASES
2.1	Effectiveness of diet and lifestyle intervention through Information Education Communication (IEC) tools with Angan Wadi Centres (AWCs) of Tribal population of Udaipur District of Rajasthan as the centre of knowledge dissemination for hypertension (including hypercholesterolemia and diabetes) risk reduction – a cluster randomised controlled trial

2.2	Prevalence of diabetes mellitus and impaired glucose tolerance in the Raika and other communities with similar life style in Rajasthan
3.	NUTRITION
3.1	Nutritional status of elderly rural population and development of appropriate intervention model using existing health system
3.2	Nutritional status along with morbidity and mortality of under five children - a follow up study of earlier registered Neonates and Infants up to 5 years
3.3	National Nutrition Monitoring Bureau Unit
3.4	Nutrition monitoring survey on NNMB pattern in Jodhpur district of Rajasthan
3.5	Estimation of Zinc deficiency, under nutrition and morbidities especially ARI, Diarrhoea and Fever in school children of Rajasthan
4.	OTHER ACTIVITIES
4.1	Biomedical Informatics Centre of ICMR
4.2	Facilitation of establishment of Model Rural Health Research Unit in Rajasthan at Bhanpur Kalan, District Jaipur by DMRC
4.3	Annual Health Survey- Clinical Anthropometric and Biochemical Component (CAB) Survey
4.4	Determination of Micronutrient Deficiency Disorders among Pregnant women and their association with the outcome of the pregnancy with respect to LBW babies: A hospital based study
4.5	Collaborative Efforts for Tribal Health Research
	List of Papers Published/Accepted in Journal/Proceedings/Patent/Chapter in Book by the Scientists During 2013-14
	Workshops/Conferences/Symposia/Scientific Meetings/Training Imparted/attended by Scientists during 2013-14
	Scientific Advisory Committee
	Ethics Committee
	Scientists And Staff
	केन्द्र में राजभाषा को प्रोत्साहन
	Address by Honourable President on National Knowledge Network
	Implementation of Reservation Policy for Schedule Castes
	DMRC Activities 2013-14: A Pictorial view