# MEDICAL RESEARCH

## 1911

### IRFA (NOW ICMR) SET UP

Indian Research Fund Association (IRFA) is established by Sir Harcourt Butler on November 15.

## 1913

### IJMR STARTS

The Indian Journal of Medical Research (IJMR) starts *(now a leading peer-reviewed indexed journal of biomedical research).*

## 1919

### RESEARCH ON INDIGENOUS DRUGS

Research on indigenous drugs (under Col. R.N. Chopra at the Calcutta School of Tropical Medicine, Kolkata) initiated.

## 1927

### MALARIA SURVEY OF INDIA

Central Malaria Organization known as "Malaria Survey of India" forms under the guidance of Lt. Col. S.R. Christophers with its first station set up in Karnal.

## 1927

### FIRST PUBLICATION

First publication of "Records of Malaria Survey of India" (later renamed as Journal of Malaria Institute of India, then Indian Journal of Malariology, and now Journal of Vector Borne Diseases).

Beri Beri Enquiry in Pasteur Institute, Coonoor, birth place of National Institute of Nutrition.

NATIONAL INSTITUTE OF VIROLOGY

Renaming of Rockefeller Centre to National Institute of Virology

## 1932

### HYGIENE AND PUBLIC HEALTH CENTRE

The Governing Body of IRFA sets up the Institute of Hygiene and Public Health at Kolkata.

## 1937

### NUTRITIVE VALUE OF INDIAN FOOD

"The Nutritive Value of Indian Foods and Planning of Satisfactory Diets" is published for the first time in India.

## 1941

### BIOMEDICAL RESEARCH FELLOWSHIP

The first-ever biomedical research fellowship scheme is initiated by IRFA aimed at nurturing health research in India.

# ICMR INSTITUTES

## 1918

### ICMR NIN

The 'Beri-Beri Enquiry' under Sir Robert McCarrison is set up (now known as National Institute of Nutrition or NIN, Hyderabad).

## 1951

### ICMR NIV

The Virus Research Centre is set up in Pune (now known as National Institute of Virology or NIV, Pune).

THE FIRST EVER

## TRANSMISSION CYCLE OF KALA-AZAR

## 1942

Transmission cycle of the parasite of Kala-azar is elucidated, which helped in prevention and control of the disease.

Diet Survey in Progress

## RECOMMENDED DIETARY ALLOWANCES

## 1944

Recommended Dietary Allowances (RDA) are made for the first time in India and are updated every 10 years.

Delivery of DEC medicated salt by vendors to the community for filariasis control

## RENAMING OF IRFA AS ICMR

## 1949

IRFA is renamed as the Indian Council of Medical Research.

## FILARIASIS CONTROL

National Programme for the control of Filariasis in association with the Malaria Institute of India is initiated.

## BOMBAY BLOOD GROUP

## 1952

A new blood group, the Bombay blood group is discovered by Dr. H.M. Bhatia and his team in Bombay which saves numerous lives.

## ICMR AWARDS

## 1953

The ICMR receives a grant from Col. Amir Chand for instituting a system that rewards research being conducted in Indian Medicine.

## TB SURVEY

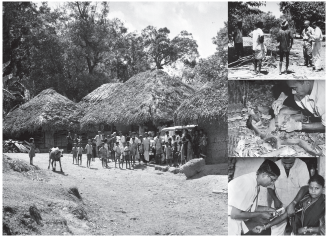
## 1955

The ICMR organizes the first nation-wide tuberculosis survey.

## KYASANUR FOREST DISEASE

## 1957

Kyasanur forest disease (commonly called Monkey Fever) is discovered in the Sagar-Soraba district of Karnataka.



The Kyasanur Forest Fever virus: from discovery to creating vaccine

## HOME-BASED TREATMENT OF TB

## 1959

Demonstrated for the first time in the world that home-based treatment of TB is as successful as hospital-based treatment.

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## ICMR NIRRH

## 1954

The Contraceptive Testing Unit and the Reproductive Physiology Unit is set up in Bombay (now known as National Institute for Research in Reproductive Health or NIRRH, Mumbai).

## ICMR NIRT

## 1956

The Tuberculosis Chemotherapy Centre is set up in Madras (now known as National Institute for Research in Tuberculosis or NIRT, Chennai).

## ICMR NIIH

## 1957

The Blood Group Reference Centre is established at Bombay (now known as National Institute of Immunohaematology or NIIH, Mumbai).

## ICMR NICED

## 1962

The Cholera Research Centre is established at Calcutta (now known as National Institute of Cholera and Enteric Diseases (NICED), Kolkata).

### DIRECTLY OBSERVED TREATMENT, SHORT COURSE (DOTS)

**1964**

First ever pioneering study demonstrated that a fully supervised twice weekly regimen of streptomycin and isoniazid was as effective as unsupervised daily administration of PAS and isoniazid, laying the foundation of Directly Observed Treatment, Short Course (DOTS) for Tuberculosis (TB).

DOTS

### IRON-FOLATE SUPPLEMENT

**1968**

Iron-folate supplement is recommended to pregnant women. (Later implemented in the national programme in 1970).

### PROTEIN ENERGY MALNUTRITION

**1969**

ICMR dispels the myth that protein deficiency is the main reason for malnutrition and highlights the calorie gap as the actual bottle neck in Protein Energy Malnutrition (PEM).

### HEADQUARTERS OFFICE

**1960**

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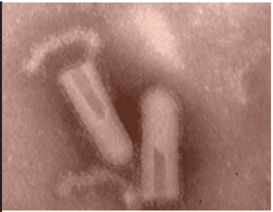
### SINGH'S CELL LINE

**1967**

Cell culture from mosquito tissues is established (known as Singh's cell line and used all over the world in the study of arboviruses).

### CHANDIPURA VIRUS

Chandipura Virus is discovered as a causal agent for human encephalitis.



Chandipura Virus

### NIGHT BLINDNESS

**1970**

National Prophylaxis Programme against Nutritional Blindness due to Vitamin A Deficiency is initiated after a series of trials by ICMR.

### HUMAN LEUKOCYTE ANTIGEN DEPARTMENT

Establishment of first Human Leukocyte Antigen (HLA) department in India to provide tissue typing facilities for renal transplantation facilities at Blood Group Research Centre (BGRC), Mumbai.

**1965**

The Indian Registry of Pathology is set up at New Delhi (now known as National Institute of Pathology or NIP).

**ICMR NIP**

**1966**

Occupational Health Research Institute is set up at Ahmedabad (now known as National Institute of Occupational Health or NIOH).

**ICMR NIOH**

**1975**

The Vector Control Research Centre (VCRC) is established at Pondicherry.

**ICMR VCRC**

## 1971

### HOME AVAILABLE FLUIDS

The demonstration of Oral Rehydration Therapy (ORT) to prevent mortality due to diarrhea is carried out. Home available fluids (HAF) such as Sherbat (salt, sugar, lemon, either singly or in combination) or tender coconut water and pressed rice water is found to be effective as well.

## 1973

### IN$^a$ ANTIGEN

The In$^a$ blood group antigen was discovered by Dr. Badakere and his team at NIIH, and consequently, the Indian blood group system. Antibodies against this antigen carry clinical significance.

## NATIONAL CANCER REGISTRY PROGRAMME

## 1981

The National Cancer Registry Project starts with the establishment of Population and Hospital based Cancer Registries.

## 1986

### FIRST TEST TUBE BABY

ICMR partners in India's first scientifically established test tube baby at IRR (now NIRRH), Mumbai.

### HIV SERO-SURVEILLANCE

ICMR demonstrates the presence of HIV infection in India in 1980s and supports initiation of country-wide sero-surveillance.

### MALARIA CONTROL

Demonstrated bio-environmental control of Malaria in different eco-epidemiological settings in the country.

### BRUGIAN FILARIASIS

*Shertalai Project*: Demonstrated control of Brugian filariasis through Integrated Disease Vector Control (IDVC) methods.

## NATIONAL NUTRITION MONITORING BUREAU

## 1972

ICMR sets up a chain of Regional Centres of National Nutrition Monitoring Bureaus, in different parts of India.

## GOITER

## 1973

ICMR demonstrates iodized salt controls endemic Goiter prevalence.

## 1980

### CHINGLEPUT TRIAL

'Chingleput Trial' (the largest ever-trial) demonstrates inefficiency of BCG vaccine in adults.

### HEPATITIS E

Human Hepatitis E Virus is discovered.

### ETHICS POLICY

Policy on ethical considerations involved in research on human subjects released.

First test tube baby, Harsha with her child.

## 1984

### FIRST GENETIC ATLAS

The first genetic atlas of Indian tribes is compiled.

## 1990

### ENTOMOLOGY

Initiated M.Sc. in Public Health Entomology – the only course of its kind offered in India.

## 1976

### ICMR NJILOMD

ICMR takes over the Central JALMA Institute for Leprosy at Agra, established by the Japanese Leprosy Mission for Asia- JALMA (now known as National JALMA Institute for Leprosy and Other Mycobacterial Diseases or NJILOMD, Agra).

## 1976

### ICMR NIMS

Institute for Research in Medical Statistics (IRMS) is set up (now known as National Institute of Medical Statistics or NIMS, Delhi).

## 1977

### ICMR NIMR

The Malaria Research Centre is established at Delhi (now known as National Institute of Malaria Research or NIMR).

## 1979

The Cytology Research Centre is set up in New Delhi (now known as National Institute of Cancer Prevention and Research or NICPR, Noida).

## NEW PHAGE TYPING SCHEME

## NEW CHOLERA STRAIN

## LEPTOSPIROSIS

## 1993

A new phage typing scheme for *V. cholerae* biotype El Tor strain is developed.

A new toxigenic strain of *V. cholerae o139* is detected and characterized.

Identified Andaman Fever as Leptospirosis, first reported in Andaman Islands among convicts during 1929.

## SALT FORTIFICATION

## 1994

Double fortification of cooking salt with iron and iodine is achieved.

## PG COURSE IN MEDICAL

## NEW LEPTOSPIRA SEROGROUP

## 1996

Isolated and identified new serovar of new serogroup of Leptospira for first time causing pulmonary hemorrhages.

## KALA AZAR TREATMENT

## 2002

Miltefosine is validated as treatment for Kala Azar.

## POLIO RESEARCH

## 2003

ICMR contributes significantly to Polio Research and Global Polio Eradication Program and helps in achieving Polio free status in India.

## IMMUNE-CHROMATOGRAPHIC DIPSTICK KIT

## PPE FOR TOBACCO HARVESTERS

## INDIGENOUS MAC-ELISA TESTING KITS

## 2004

Supports development of Immune-chromatographic dipstick kit for the rapid diagnosis of cholera.

Personal protective equipment (PPE) for tobacco harvesters is developed. Seamless knitted nylon gloves are found to be most suitable, durable, and feasible for the workers.

Indigenous development of MAC-ELISA kits against dengue, chikungunya and Japanese encephalitis viruses for diagnostic use in National Vector Borne Disease Control Program (NVBDCP) is carried out.

## ICMR NICPR

## ICMR RMRIMS

## 1981

ICMR takes over the Rajendra Memorial Research Institute of Medical Sciences (RMRIMS) at Patna to conduct research on vector-borne diseases especially Kala Azar.

## ICMR RMRC-BB

## 1981

Regional Medical Research Centre at Bhubaneswar (RMRC-BB) is set up.

## ICMR RMRC-NE

## 1982

Regional Medical Research Centre at Dibrugarh (RMRC-NE) is set up.

**2005**

**DIRECT AGGLUTINATION TEST**

Direct Agglutination Test (DAT) is established for early diagnosis of Kalazar.

**JUNIOR RESEARCH FELLOWSHIP**

ICMR Junior Research Fellowship (JRF) is initiated to support young scientists to pursue research.

**2006**

**LYMPHATIC FILARIASIS**

ICMR research led to policy change in the national programme for Lymphatic Filariasis elimination to replace the single drug therapy with combination therapy.

**ACUTE FLACCID PARALYSIS**

Identified acute flaccid paralysis for the first time that resembles Guillean-Barre syndrome - a complication of chikungunya, carrying implications for treatment.

**2007**

**DHR**

Department of Health Research (DHR) is created with support from ICMR in September.

**CTRI**

Clinical Trial Registry of India (CTRI), a free and online public record system for registration of clinical trials being conducted in India is launched.

**2008**

**SCHOOL OF PUBLIC HEALTH CHENNAI**

School of Public Health is established at National Institute of Epidemiology, Chennai.

**2011**

**WEST NILE VIRUS**

Lineage 1 West Nile Virus (highly pathogenic lineage with outbreak potential in Western countries) is detected for the first time in India, in Kerala.

Bhopal Memorial Hospita
Centre, Bhopal is transferr
providing clinical services
Tr

A new test for detectio
in food is developed and

BSL4 Lab

**1983**

**ICMR RMRC-PB**

Regional Medical Research Centre at Port Blair (RMRC-PB) is set up.

**1984**

**ICMR NIRTH**

Regional Medical Research Centre for Tribal Health at Jabalpur is set up (now known as National Institute of Research in Tribal Health or NIRTH).

**1984**

**ICMR NIIRNCD (FORMERLY DMRC)**

Desert Medicine Research Centre at Jodhpur is set up (now known as National Institute of Implementation Research in Non-Communicable Diseases or NIIRNCD).

## 2012

**BHOPAL MEMORIAL HOSPITAL**

l and Research
ed to ICMR for
to Bhopal Gas
agedy victims.

**PATHOGEN DETECTION KIT**

n of pathogens
transferred to
industry.

## 2013

**BSL 4 LAB**

The first high end biosafety level-IV laboratory (BSL) facility is established in Pune for epidemic preparedness and management.

**MRU**

ICMR initiates establishment of networks of Multi-Disciplinary Research Units (MRUs), Model Rural Health Research Units (MRHRUs), Viral Research & Diagnostic Laboratories (VRDLs).

**JENVAC VACCINE**

Indigenous vaccine 'JENVAC' for Japanese Encephalitis is launched.

**AMR SURVEILLANCE**

Antimicrobial Resistance (AMR) Surveillance Network established.

## 2015

**VITAMIN A AND IRON ESTIMATION KITS**

Dried Blood Spot (DBS) – collection kit for sub-clinical deficiency of Vitamin A and an ELISA-based kit to estimate iron in the blood are launched.

## 2016

**MICRONUTRIENT MIX FOR ANAEMIA**

ICMR develops a micronutrient mix (containing seven micronutrients) to fight against anaemia.

**WHO-FCTC KNOWLEDGE HUB ON SMOKELESS TOBACCO**

National Institute of Cancer Prevention and Research becomes seventh knowledge hub of WHO-FCTC (Framework Convention on Tobacco Control), globally.

**TB CONSORTIUM**

India TB Research Consortium established.

## 2017

**DISEASE BURDEN ESTIMATES**

The India State Level Disease Burden Report is released which was the first comprehensive state-wise disease burden estimation.

**NEW DIAGNOSTIC KITS**

ICMR has launched three new diagnostic kits for the detection of Crimean-Congo haemorrhagic fever (CCHF) Sheep and Goat, Crimean Congo haemorrhagic fever (CCHF) in Cattle, Japanese Encephalitis virus (JEV) from Mosquitos.

**OCCUPATIONAL SAFETY**

Personal cooling garments for workers operating in high temperatures are developed.

## 2018

**SAMRAT ASHOK TROPICAL DISEASE RESEARCH CENTRE**

Samrat Ashok Tropical Disease Research Centre is established at Rajendra Memorial Research Institute of Medical Sciences, Patna.

**VIRAL OUTBREAK CONTAINMENT**

Successfully contained Zika, Nipah and Canine Distemper Virus.

## 1992

National AIDS Research Institute (NARI) is established at Pune.

**ICMR NARI**

## 1994

National Institute of Epidemiology (NIE), Chennai is established.

**ICMR NIE**

## 2006

Regional Medical Research Centre (RMRC), Belgaum is set up (now known as National Institute of Traditional Medicine or NITM, Belagavi).

**ICMR NITM**

## 2010

National Institute for Research in Environmental Health (NIREH) is established at Bhopal.

# HISTORY OF ICMR

INDIAN COUNCIL OF MEDICAL RESEARCH
Serving the nation since 1911

## 2019

**RESEARCH PLATFORM**

RESEARCH '*Regional Enabler for South East Asia Research Collaboration for Health*' platform launched in partnership with WHO and 10 countries to combat emerging and re-emerging infectious diseases in SE Asia Region.

**DETECTION KIT FOR NIPAH VIRUS**

Point of Care diagnostic test for Nipah Virus is developed.

**MERA INDIA**

Launched Malaria Elimination Research Alliance (MERA) India to fast track malaria elimination.

**E-CIGARETTES BAN**

E-cigarettes ban Bill passed based on evidence report by ICMR.

**ETHICS GUIDELINES**

ICMR "National Ethical Guidelines in Biomedical and Health Research Involving Human Participants, 2017" became legally binding under New Drugs and Clinical Trial Rules, 2019.

**ETHICS REGISTRY**

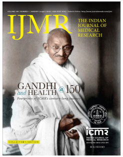
National Ethics Committee Registry for Biomedical and Health Research (NECRBHR) is set up also known as the NAITIK Portal.

**INDIA - AFRICA PLATFORM**

Established India-Africa Health Sciences Collaborative Platform (IAHSP) to initiate and strengthen India-Africa strategic partnership in the areas of Health Research.

**AMR HUB**

Antimicrobial Resistance Hub and National Repository of Antimicrobial Resistant Bacteria (NRAMRB) at ICMR-NICED is inaugurated in September in Kolkata.



IJMR
THE INDIAN JOURNAL OF MEDICAL RESEARCH
GANDHI and HEALTH @150
*Footprints of ICMR's century-long journey*
COLLECTOR'S EDITION
icmr
INDIAN COUNCIL OF MEDICAL RESEARCH
Serving the nation since 1911
ROLI BOOKS

Brought out the special issue of IJMR titled "Gandhi and Health @150" to commemorate the 150th birth anniversary of Mahatma Gandhi

## 2020

**COVID-19 PANDEMIC**

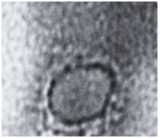
SARS-CoV-2 is first reported in India by NIV Pune

Isolated the virus

Developed RT-PCR & ELISA for diagnosis

Nipah Point of Care - Truelab™ Workstation: All in one package
MAKE IN INDIA

Laboratory Investigations in National Institute of Virology, Pune.



Transmission electron microscopy image of SARS-CoV-2

**ICMR NIREH**

## 2011

National Centre for Disease Informatics and Research (NCDIR) is set up at Bangalore.

**ICMR NCDIR**

## 2016

National Animal Resource Facility for Biomedical Research (NARFBR) is set up by upgrading the National Centre for Laboratory Animal Sciences (NCLAS) functioning since 1976 at Hyderabad - a precursor of Laboratory of Animal Information Services Centre (LAISC) established in the campus of the Cancer Research Institute, Bombay in 1959 and shifted to Hyderabad in 1976 and renamed as NCLAS in 1992.

**ICMR NARFBR**

## 2018

Regional Medical Research Centre, Gorakhpur (RMRC-GKP) is setup by upgrading the NIV field unit established in 2008

**ICMR RMRC-GKP**