

RESEARCH PROJECTS-HIMSR 2020

DEPARTMENT OF ANATOMY

Research Projects (on going)

- Morphometric Study of Human Placenta & Insight into Its Vascular Pattern by Corrosion Cast Technique (2018-2021)
- Morphometric Analysis of Macula in Different Age Groups & Gender in Indian Adult Population (2019-2022)

Supervised Projects/ Thesis work

- Morphometric Study of Human Placenta & Insight into Its Vascular Pattern by Corrosion Cast Technique (2018-2021)
- Morphometric Analysis of Macula in Different Age Groups & Gender in Indian Adult Population (2019-2022)

DEPARTMENT OF PHYSIOLOGY

Ongoing Sponsored Research Project:

1. Characterization of sterile inflammatory biomarkers for the development of preeclampsia and its pathogenesis. (Huma Quasmi, JRF, Sponsored by ICMR)
2. Early Detection of Bio-markers for pre-eclampsia, Grand Challenges Canada Grant Number: R-ST-POC-1807-13914, (amount of \$94.889 CAD).
3. To study the genetic polymorphism of matrix-metalloproteinase-2 and its association with the oxidative stress biomarkers in COPD in North-Indian population. (DST-INSPIRE)

DEPARTMENT OF BIOCHEMISTRY

Dr. Sana Alam

1. Intramural project titled “Utility of hematological & biochemical parameters as a screening tool for assessing COVID-19 infection and its severity.

Dr. Kailask Chander

1. Project: Assessment of the role of Unani formulations in the prevention of COVID-19 infection in high-risk population (Project approved by Ministry of AYUSH and sponsored by M/S Hamdard Laboratories India (Medicine Division).

DEPARTMENT OF PHARMACOLOGY

Dr Shoma Mukherjee, Prof. A. Ray

1. ICMR Funded Research Project Technically Approved– July 2020 titled “A Study to Evaluate the Treatment Outcome, Safety, Plasma Concentration and Quality of Life of Bedaquiline Treatment in North Indian Patients of MDR TB”.
2. Ongoing ICMR STS Project– Approved on June 2020 titled “A Drug Utilization Study and Safety Analysis of Psychotropic Drugs and its Impact on Quality of Life of Patients attending Psychiatry Outpatient Department of a Tertiary Care Teaching Hospital” Reference ID: 2020-08743 Guide: Dr. Shoma Mukherjee, Student: Arsh Arora

Dr. Sana Rehman

3. Co-Investigator in ICMR funded research project on “Pharmacological studies to evaluate the effects of *Withania somnifera* in experimental models of post-traumatic stress disorder (PTSD) and its mechanisms in rats” – from 2019 – 2021 (ongoing)

4. Co-Supervisor in Degree of Master of Science (Medical Physiology) Hamdard Institute of Medical Sciences and Research Jamia Hamdard, New Delhi (2020-2021). To study the analgesic & anti-inflammatory activity of L-arginine on albino mice. Guide-Dr. Alam.
5. Co-Supervisor in Degree of Master of Science (Medical Physiology) Hamdard Institute of Medical Sciences and Research Jamia Hamdard, New Delhi (2020-2021). To study the antidepressant effect of plant product on albino rat. Guide- Dr. Alam

DEPARTMENT OF PATHOLOGY

NIL

DEPARTMENT OF MICROBIOLOGY

1. 'Assessment of the role of Unani formulations in the prevention of COVID-19 infection in high-risk population' Prof Mridu Dudeja: PI Dr. Ayan Kumar Das: Co-I

2. Assessment of Potential Risk Factors for COVID-19 among Health Care Workers in a Health Care Setting in Delhi, India. PI Prof Mridu Dudeja, Co-I Dr. Neetu Shree, Dr. Mehvas: Dr. Shyamasree: WHO Funded Project

3. An epidemiological Study to Assess Household Transmission & Associated Risk Factors for COVID-19 Disease amongst Residents of Delhi, India. Co-I Dr. Ayan Kumar Das. WHO Funded Project

DEPARTMENT OF FORENSIC MEDICINE AND TOXICOLOGY

NIL

DEPARTMENT OF COMMUNITY MEDICINE

- (a) Quality of life, treatment seeking pathways and out of pocket expenditure of parents with Autism Spectrum Disorder (ASD) in South Delhi.
Mentor: Dr Farzana Islam 2020 ICMR STS
- (b) Community based Sero-surveillance and incidence of Dengue among residents of South Delhi, India PI – Dr. Farzana Islam. Co-PI: Dr. Meely Panda, Dr. Aqsa Shaikh, Dr. Faheem Ahmed Dr. Rashmi Agarwalla Dr. Ekta Gupta 2020 THSTI
- (c) Funded Ongoing Cross-sectional study to assess perception and proportion of sexual harassment among working women in health sector of India – An exploration of Facts PI – Dr. Meely Panda 2020 ICMR 5 Lakhs Yet to start
- (d) An interventional study to assess impact of behaviour modification therapy versus brief advise for tobacco cessation among adult tobacco users residing in a resettlement colony of Delhi PI – Dr. Rashmi Agarwalla 2020 ICMR 8 Lakhs Yet to start
- (e) Assessment of Potential Risk Factors for COVID – 19 among Health Care Workers in a Health Care Setting in Delhi, India Co-Investigators:

Prof Farzana Islam, Dr Aqsa Shaikh, Dr Meely Panda, Dr. Yasir Alvi

2020 WHO Funded Approved

- (f) An epidemiological study to assess household transmission and associated risk factors for COVID – 19 Disease among residents of Delhi, India PI – Dr. Farzana Islam, Co-PI: Dr. S. Roy, Dr. Faheem Ahmed, Dr. Rashmi Agarwalla, Dr. Ekta Gupta, Dr. Meely Panda 2020 WHO Funded Yet to start

Dr Farzana Islam, Dr Aqsa Shaikh, Dr Yasir, Dr. Rashmi, Ekta Gupta

1. An interventional study to assess impact of behaviour modification therapy versus brief advise for tobacco cessation among adult tobacco users residing in a resettlement colony of Delhi, Ongoing, ICMR (2020)

Farzana Islam, Yasir Alvi, Ekta Gupta, Dr Ayan

2. A cross-sectional study to assess perception and proportion of sexual harassment among working women in health sector of India – An exploration of facts. Ongoing, ICMR (2020)

DEPARTMENT OF GENERAL MEDICINE

1. A Phase 2/3, Randomized, Observer-blind, Controlled, Multi-Center Study to Evaluate the Lot to Lot Consistency of SIPL Meningococcal ACYWX Conjugate Vaccine (NmCV-5) and to Compare its Safety and Immunogenicity with that of Licensed Meningococcal ACWY Vaccine Menactra® in Healthy Individuals 18-85 Years of Age Phase 3 trial for Meningococcal vaccine (ACYWX conjugate vaccine, NmCV-5) in adult population.
2. A longitudinal study to assess immunogenic response and level of anti SARS COV 2 antibodies in person with COVID 19.
3. Post COVID sequela in lungs – structural and functional changes
4. Effect of extended use of steroids on lungs function in COVID patients.
5. Psychiatric manifestations in COVID patients and their relatives.
6. Clinical profile of COVID patients admitted at HAHC hospital.
7. Impact of COVID on Cardiovascular system.

DEPARTMENT OF PEDIATRICS

1. Phase 3, Randomized, Double-Blind Study to Evaluate the Immunogenicity, Safety and Tolerability of Serum Institute of India's 10-Valent Pneumococcal Conjugate Vaccine (Pneumosil®) In Healthy Indian Infants.
2. An Open Label, Randomized, Active Controlled, Multi-Centric Phase Ii/Iii Study In Indian Toddlers And Infants To Assess The Immunogenicity And Safety Of Siipl Hexasiil™ (Dtwp-Hepb-Ipv-Hib) Vaccine In Comparison With Siipl Pentavac (Dtwp-Hepb-Hib) + Poliovac (Ipv) Vaccines, Administered As Separate Injections (Sii-Whexa-In/02).
3. Uncovering the Genetics of Novel Salmonella Typhi Strains from Delayed Responders to Treatment (Icmr Proposal Id- 2020-2800)
4. A Seamless Phase Ii/Iii, Double-Blind, Multi-Centre, Randomized Clinical Trial to Evaluate Immunogenicity And Safety of Bbv87, An Inactivated Chikungunya Virus Vaccine in Healthy Subjects 12-65 Years of Age
5. Protective and Pathogenic Immunity in Dengue Virus Infection with Jamia Hamdard-Institute of Molecular Medicine

DEPARTMENT OF DERMATOLOGY

NIL

DEPARTMENT OF PSYCHIATRY

1.'An interventional study to assess impact of behavior modification therapy versus brief advise for tobacco cessation among adult tobacco users residing in a resettlement colony of Delhi. ICMR funded project

2. COVID-19 Pandemic: Assessment of anxiety status and perception of E – learning amongst first year undergraduate medical students.

DEPARTMENT OF RESPIRATORY MEDICINE

1.The Department of Respiratory Medicine is collaborating with the Department of Microbiology on project entitled “Molecular Diagnosis of MTB Using Signature Sequences of *Mycobacterium Tuberculosis*.” The Principal Investigator of this project is Prof. Dr. Syed Ehtesham Hasnain, Vice Chancellor, Jamia Hamdard University.

2.The Department of Respiratory Medicine is Co-Investigator collaborating with the Department of Microbiology and Unani Medicine on project entitled “Assessment of the role of Unani formulations in the prevention of COVID-19 infection in high-risk population.” The Principal Investigator of this project is Prof. Dr. Mridu Dudeja, Professor, Department of Microbiology, HIMSR & HAHC, Jamia Hamdard University.

DEPARTMENT OF GENERAL SURGERY

1. Study of various aspects in the pediatric laparoscopic cholecystectomies: a single center experience- PI- Dr Sachin Katyal
2. Incidence and management of bile duct injuries during laparoscopic cholecystectomy.- PI-Dr Tajamul Rashid
3. Study on predictive factors and outcome of Male gall bladder: (PI- Dr Divya Prasad)
4. Prospective study of Incidence and Implications of Fitz Hugh Curtis syndrome: PI-Dr Tajamul
5. Intra-operative grading system for difficult laparoscopic cholecystectomy: PI-Dr Manzoor Ahmad

DEPARTMENT OF ORTHOPAEDICS

NIL

DEPARTMENT OF OTO-RHINO-LARYNGOLOGY

- a) Diagnostic tools of Fungal Sinusitis: By Dr. Seema Monga
- b) Clinical Profile of Vertigo Patients: By Dr. Junaid Malik
- c) Palisade cartilage tympanoplasty a novel approach to chronic suppurative otitis media with sclerotic mastoid: By Dr Shahid Rasool

DEPARTMENT OF OPHTHALMOLOGY

Dr Taskin Khan

1. Intraocular pressure changes following laryngoscopy & tracheal intubation with Macintosh laryngoscope (King Vision) in non-ophthalmic surgeries: A Randomized Study. (Ongoing)
2. Morphometric Analysis of Macula in Different Age Groups & Gender in Indian Adult Population (on going)

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

Dr Aruna Nigam

1. Clinical Collaborator for the thesis “Proteomics in Polycystic ovarian disease
2. Clinical Collaborator for thesis Proteomics and genomics in fibroid
3. Clinical collaborator for thesis Proteomics and genomics in endometriosis
4. Co-guide for thesis in pathology on Immunohistochemistry studies in abnormal uterine bleeding

Dr Neha Gupta

1. Retrospective analysis of feto-maternal outcome of VBAC at HAHC
2. Correlation of colposcopy, VIA and HPV DNA
3. Analysis of indication of primary CS with successful VBAC
4. Co-guide for PGDMCH candidate Dr. Saltanat Jamal who Conducted a research Project titled ‘Study of Nutritional status of Pregnant and Post -partum mothers in backward urban areas of South Delhi’
5. Co-supervisor of Research Project of Dr. Tazyeen Fatima, MSc. Medical Physiology, Jamia
6. Hamdard on ‘Assessment of Sympathetic Vascular Reactivity in Pregnant women using Cold Presser test & Heart Rate variability’

Dr Nidhi Gupta

1. Comparative study on effectiveness of combination of mifepristone & misoprostol with only misoprostol in missed abortion”
2. A survey on presenting complaints and contraceptive knowledge of adolescent girls attending the HAHC Hospital”
3. Covid-19 and pregnancy: feto-maternal outcome”

DEPARTMENT OF ANAESTHESIOLOGY

Dr. Jyotsna Agarwal

Ongoing Projects (started in 2020)

1. A study of patient's knowledge and awareness of patient factors influencing perioperative risks and their perception of their participation in enhancing their own perioperative safety. (Institutional ethics committee Jan 2020)
2. Correlation of preoperative IVC collapsibility with preoperative fasting status, patient demography and general anaesthesia induced hypotension: a prospective observational study (HIMSR / IEC/005/2020)

Dr. Samiksha Khanuja

Ongoing Projects

1. Intraocular pressure changes following laryngoscopy & tracheal intubation with Macintosh laryngoscope (King Vision) in non-ophthalmic surgeries: A Randomized Study.
2. Post-operative Pain relief after laparoscopic cholecystectomy: Intraperitoneal ropivacaine V/s Nalbuphine.

Dr. Sana Yasmin Hussain

Ongoing Projects

1. Current practice of Rapid Sequence Induction (RSI) in paediatric Anaesthesia: A survey from India.
2. Evaluation of effect of N95 filtering face piece respirator on hypercapnic response & hemodynamic changes in health care worker – a prospective study
3. Comparative evaluation of landmark technique and ultrasound guided caudal epidural injection in paediatric population: systematic review & metanalysis

DEPARTMENT OF RADIODIAGNOSIS

NIL

DEPARTMENT OF DENTISTRY

1. Cross sectional study to assess prevalence of risk factors and knowledge of hepatitis B among patients attending health care centres of a tertiary level institute in New Delhi, India. PI: Dr. Akbar Naqvi, Co -I