

Format for Submission of Annual Report (01.01.2020 – 31.12.2020)
Department of Forensic Medicine & Toxicology

Faculty : 07
Professor & Head : Dr. Mukta Rani
Director Professor : 01
Professor : 04
Assistant Professor : 02
Members who have left during this period: Dr. Vedant Kulshrestha (Assistant Professor)

Research Schemes /Projects:

Research Projects with Funding

Non-Funded Projects

Name of Investigators	Project in charge	Title of the Project Scheme	Name of the Funding Agency	Budget in Rs.
Dr Monika Goyal	Dr Arvind Kumar	An autopsy based study to estimate stature from adult clavicle	NA	NA
Dr Shreyash Singh	Dr Sukhdeep Singh	An autopsy based study to study the sexual dimorphism in patella	NA	NA
Dr Vishal Maurya	Dr Mukta Rani	Study of variation in medulla of human hair of both male and female in various body parts in cases brought for autopsy	NA	NA
Dr. Rajesh	Dr. S.K. Naik	Profile of Medico-legal Cases in Accident & Emergency Department, SSKH, New Delhi – A 3- Year Retrospective and Prospective Study	NA	NA

Projects other than Research Projects

	Dr. Sukhdeep Singh (Professor)	A study of profile of Juvenile Delinquents brought for age estimation to department of Forensic Medicine, Lady Hardinge Medical College, New Delhi from (2010-2020)		
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STS Projects:

S. No.	UG Students	Topic	Supervisor	Co-Supervisor
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Teaching: Postgraduate thesis submitted and accepted by University of Delhi.

S. NO.	PG Students	Topic	Supervisor	Co-Supervisor (Department)
1	Dr. Nisha Nupur	Variation in Length and Position of Vermiform Appendix-An Autopsy Based Study	Dr. Yashoda Rani	Dr. S.K. Naik (Forensic Medicine)
2	Dr. Meenu	Determination of gender from hand and foot measurements	Dr Mukta Rani	Dr Yashoda Rani (Forensic Medicine) Dr. Sukhdeep Singh (Forensic Medicine)

Organizing Training Courses/Conferences/Symposia/Seminars/Workshops/CMEs:

S. NO.	Faculty Member	Organizer (s)	Name, Venue & Date

Publications:

S.No.	Name & Designation of Participants	Research Paper Published	Publication Name
1	Dr. Yashoda Rani Director Professor	Vivek Kumar Chouksey, Mukta Rani, Yashoda Rani Rishabh Kumar Singh Correlation Between Suicide and Organ Weight.	IP International Journal of Forensic Medicine and Toxicological Sciences, Sep 2020; 5(2):1-4
		Vivek Kumar Chouksey, Mukta Rani, Yashoda Rani Rishabh Kumar Singh. Diurnal Variation in Suicide Timing by Age and Gender- A Post-mortem Based Study in New Delhi.	Indian Internet Journal of Forensic Medicine & Toxicology, Vol. 18, Oct-Dec 2020; 70-74
2	Dr Mukta Rani Professor	Recent Trends of Medical Negligence – An Autopsy Based Study at Lady Hardinge Medical College, New Delhi.	IP International Journal of Forensic Medicine and Toxicological Sciences 2020;5(2):35–38.
		Vivek Kumar Chouksey, Mukta Rani, Yashoda Rani Rishabh Kumar Singh Correlation Between Suicide and Organ Weight.	IP International Journal of Forensic Medicine and Toxicological Sciences, Sep 2020; 5(2):1-4
		Vivek Kumar Chouksey, Mukta Rani, Yashoda Rani Rishabh Kumar Singh. Diurnal Variation in Suicide Timing by Age and Gender- A Post-mortem Based Study in New Delhi.	Indian Internet Journal of Forensic Medicine & Toxicology, Vol. 18, Oct-Dec 2020; 70-74
		Dr Vedant Kulshrestha and Dr Mukta Rani.DEATH DUE TO HEMANGIOPERICYTOMA LIKE MENINGIOMA	International Journal of Current Advanced Research Available Online at www.journalijcar.org Volume 9; Issue 02 Feb 2020 page 21190-21192

		Dr Vedant Kulshrestha and Dr Mukta Rani. Death due to Choking A case report.	International Journal of Current Advanced Research Available Online at www.journalijcar.org Volume 9; Issue 02 Feb 2020 page 21133-21136
3	Dr. S.K. Naik, Professor	Morphometrical Analysis of Sternum Bone for Sexual Dimorphism Estimation- An Autopsy Based Study.	Journal of Forensic Medicine & Toxicology. 2020; 37(1): 38-45.
4	Dr. Sukhdeep Singh, Professor	BL Choudhary, Rishabh Kumar Singh, Sukhdeep Singh, Pawan Kumar Shukla Recent Trends of Medical Negligence – An Autopsy Based Study at Lady Hardinge Medical College, New Delhi..	IP International Journal of Forensic Medicine and Toxicological Sciences 2020;5(2):35–38
5	Dr. Arvind Kumar, Professor	Rahul Band, Arvind Kumar, Sanjay Gaiwale, Ajay Ghangale. Homicidal injury with desert spoon-A case report.	April 2020, Forensic Science International.
		Arvind Kumar, Mahesh Kumar, Rishi Solanki, Rishabh Kumar Singh, Mukesh Kumar Bansal. Alleged Medical Negligence in Tubectomy Associated death- A case report.	Indian Internet Journal of Forensic Medicine & Toxicology, Vol. 18, July-September 2020, 60-63.

Books/Chapters contributed: Nil

National & International Conferences/Symposia/Seminars/Workshops/CMEs attended by the faculty members:

Workshops and Webinars:

S. NO.	Name & Designation of the Participant	Role/Topic	Organizer Indian Red Cross Society Oncology department	Name of the Conference, Venue & Date
1	Dr. Yashoda Rani, Dir. Professor	Participated		Ahmadabad, Feb. 2020
				Patna March 202p
2	Dr Mukta Ranj	Participated	Department of Forensic Medicine & Toxicology V.M.M.C & Safdarjung Hospital, New Delhi	Webinar on Forensic Practice during COVID-19 Pandemic (DELHI) on 31st July, 2020
3	Dr Arvind Kumar	Participated	Department of Forensic Medicine & Toxicology V.M.M.C & Safdarjung Hospital, New Delhi	Webinar on Forensic Practice during COVID-19 Pandemic (DELHI) on 31st

				July, 2020
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International Conferences

1	Dr. Yashoda Rani, Director. Professor	1. Participated on Humanitarian Forensic	Indian Red Cross Society	Ahmadabad, Feb. 2020
		2. Chairperson	Oncology department	Patna, March 2020,

National Conferences

1	Dr. S.K. Naik, Professor	Delegate/Ethical Dilemma to deal with Medico-legal Negligence- Two Case Reports	Apollo Medical College, Hyderabad	41 st Annual National Conference of IAFM/Apollo Medical College, Hyderabad/30 th January- 1 st February, 2020
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Representation on Expert bodies/ Committees:

Dr. Arvind Kumar Professor	Honorary Forensic expert to NHRC, India
	Forensic expert to Central Bureau of Investigations, India

Contribution of the department in management of COVID-19 epidemic (200 words maximum):

During COVID-19 pandemic Department of Forensic Medicine has improvised procedures and guidelines for management of the dead within the existing regulations in order to achieve a balance between medicolegal requirements and the safety of personnel managing the bodies of the deceased with suspected or confirmed COVID-19 infection; at the site of death, during transport, during postmortem procedures, storage and preparation before and during burial or cremation as well as environmental cleaning and disinfection, involving various agencies in the country. Whenever possible, every opportunity and assistance must be given to families to mourn their loved ones, even in times of crisis or an outbreak, in order to sustain an appropriate level of dignity and respect. Standard infection prevention control practices were followed by health worker

attending the dead body at all times including hand hygiene, ensured proper use of appropriate PPE.

Following steps were taken by our Department in current pandemic of COVID-19:

1. Training of healthcare workers in the mortuary were conducted in relation to COVID-19 guidelines from time to time in accordance with the MoH&FW guidelines. The healthcare staffs who handle the body performed proper donning, doffing and hand hygiene.
2. Storage of dead bodies:
 - Dead bodies were stored in cold chambers maintained at approximately 4°C separately in dedicated cold storage for COVID-19 bodies till the next of kin arrive for the purpose of identification and cremation.
 - All suspected covid-19 dead bodies are subjected to RT-PCR/ CB NAT testing for COVID-19. Till the results are obtained, these are treated as COVID-19 positive bodies
3. Disposal of covid-19 dead bodies for cremation.
 - Handling of dead body in mortuary
 - While identifying the body before autopsy in MLC cases and suspected Covid19 bodies the family members/ relatives followed standard precautions
 - Dead body was wrapped in leak-proof 100 mm plastic body bag. The exterior of the body bag was decontaminated with 1% hypochlorite.
 - Separate autopsy room is assigned for conducting autopsies on a COVID-19 positive or suspected body.
 - Autopsy table was disinfected as per standard protocol before and after the procedure.
4. Transportation of Covid 19 bodies for cremation:
 - Covid 19 dead bodies were directly sent for cremation in a hearse van accompanied by two Hospital staff in PPE kit. After the transfer of the body to cremation/ burial ground, hearse van was decontaminated with 1% Sodium Hypochlorite
 - Bio-medical waste Disposal:
 - All medical waste was handled and disposed-off in accordance with Bio-medical waste management rules for Covid19.
 - Dealing with the relatives of the deceased:
 - Provided proper counseling to the deceased's relatives and for following the standard guideline for Covid19 dead bodies.



Picture 1: Identification of body by the relatives wearing gloves and masks



Picture 2: Handing over the Covid 19 dead body to the relatives and transportation in hearse Van for transportation to the cremation/ burial site.

At the crematorium/ Burial Ground.

- Electric / LPG gas crematorium was used for the purpose.
- The Crematorium/ burial Ground staff was sensitized that COVID-19 dead bodies does not pose additional risk.
- The staff was instructed to follow standard precautions of hand hygiene, use of masks and gloves while handling the body
- For the relatives to see body unzipping the face end of the body bag was allowed (by the staff using standard precautions).
- The relatives were instructed additionally that Religious rituals that do not require touching of the body can be followed with social distancing measures.
- Moreover, the relatives were not allowed the Bathing, kissing, hugging, etc. of the dead body
- Relatives were instructed not to gather in large numbers at the crematorium/ burial ground.