

Department of Virology
Dhaka Medical College

1. Department organogram with faculty:

Name of the post	No.	Detail of the faculty
Professor	1	-
Associate Professor	2	Dr. Rabeya Sharmin Mobile: 01711142575 Email:
		Dr. Nusrat Sultana Mobile: 01715006313 Email: sultananusrat78@yahoo.com
Assistant Professor	4	Dr. Afroza Akbar Sweety Mobile: 01742430042 Email
		-
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Lecturer	4	Dr. Amirul Huda Bhuiyan Mobile: 01717785087 Email: dr.ahbhuiyan@gmail.com
		Dr. Najifa Yeasmin Mobile: 01959361293 Email: ynajifak68@gmail.com
		Dr. Tanima Mohsin Mobile: 01726372900 Email: tanimamohsin5@gmail.com
		Dr. Humaira Sharmin Mobile: 01837816912 Email: humairasbmc42@gmail.com

2. Department academic activities:

- a. **Undergraduate students:** Lecture, tutorial and practical classes according to academic curriculum.
- b. **Postgraduate students:** Academic activities for MD (Virology) residents and as well as other faculties – MD (Microbiology), MD (Pathology), MD (Forensic Medicine) etc.

3. Department research activities:

a. Completed research-

- i. Virucidal Effect of Povidone Iodine on SARS-CoV-2 in Nasopharynx
- ii. Detection of SARS-CoV 2 antigen in saliva to evaluate saliva as a suitable alternative sample for the diagnosis of COVID-19
- iii. Emergency molecular epidemiological study for detection of serotypes of Dengue virus circulating in Dhaka, Bangladesh
- iv. Assessment of Dried Blood Spots as a valid and feasible alternative to whole blood/ plasma for the detection of Hepatitis C Virus

b. Ongoing research-

- i. Evaluation of dried blood sample for detection of hepatitis B virus
- ii. Association of -511 and +3954 region polymorphisms of IL1 β gene with hepatitis B virus induced hepatocellular carcinoma.
- iii. Detection of human papilloma virus (HPV) E6/E7 mRNA in patients with HPV induced cervical carcinoma
- iv. Distribution of respiratory pathogens among under five children with acute respiratory tract infection at a tertiary care center in Bangladesh.
- v. Detection of cytomegalovirus antibodies in maternal serum and cytomegalovirus DNA in urine samples of preterm neonates at a tertiary care hospital in Bangladesh.

4. Publications:

- i. Experiences of the physicians in the largest COVID-19 dedicated hospital of Bangladesh about COVID-19 and its aftermath. 2022- 4(2) OAJBS.ID.000436. DOI: 10.38125/OAJBS.000436
- ii. Virucidal Effect of Povidone Iodine on SARS-CoV-2 in Nasopharynx: An Open-label Randomized Clinical Trial. Indian J Otolaryngol Head Neck Surg 74 (Suppl 2), 3283–3292 (2022). <https://doi.org/10.1007/s12070-022-03106-0>
- iii. Real Time-PCR (RT-PCR) Positivity for SARS-CoV-2 in Suspected COVID-19 Patients Presented in a Tertiary Care Hospital. Journal of Bangladesh College of Physicians and Surgeons Vol. 38, COVID-19 (Supplement Issue), July 2020
- iv. Frequency of Dengue Infection in Febrile patients attended Dhaka Medical college Hospital during January to December, 2018. JDMC, April-2019, vol-28, No-1, P-105-110.

5. Departmental Achievements:

Our department of virology is able to start molecular detection for Hepatitis B virus, Hepatitis C virus, HIV, Cytomegalovirus, Serotype detection of Dengue virus, Genotype

detection of high risk HPV. Department of virology of Dhaka Medical College is the first medical college to start this molecular test.

6. Research Grant:

Department of virology of Dhaka medical College received research Grant from Director General of Medical Education (DGME) for **“Assessment of Dried Blood Spots as a valid and feasible alternative to whole blood/ plasma for the detection of Hepatitis C Virus among hepatitis C virus”** in 2023.