

**ASILO HOSPITAL
MAPUSA - GOA
GOVT. OF GOA**

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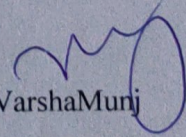
Date: 08/06/2022

TO WHOMSOEVER IT MAY CONCERN

This is to inform you that **Mast. Sarvesh Ratnakar Halankar**, MSc. Microbiology Part I student from Goa University has completed 15 days Internship from 23rd May 2022 to 8th June 2022 in the Department of Pathology and Microbiology.

During this period she has been trained in the following:

- Routine blood tests (Haematology)
- Serological tests (Widal, Australia Antigen, Rh factor, ASO, CRP, Leptospirosis)
- Chikungunya/Dengue ELISA Testing
- AFB Slides staining and reporting
- Performing Gram Staining and Albert's Staining
- Maintain cleanliness in lab and follow recommended safety procedures
- Dispose off specimen and laboratory waste as per guidelines
- Maintain necessary records and submit to I/C as required
- Orientation in bacteriology and molecular laboratory techniques
- Laboratory Information Management Software
- Orientation to Blood Bank and its Techniques


Dr. VarshaMunj

**Senior Pathologist
North District Hospital,
Mapusa - Goa**

Internship report

Sarvesh Ratnakar Halankar (Seat no. 21P042009)

School of Biological Sciences and Biotechnology.

Goa University, Taleigao Goa.

As a part of 1 credit course of Masters of Science in Microbiology Post Graduation programme, Goa University, I underwent a 15 days internship at the District Hospital, Mapusa-North Goa.

Working time: 9am to 4pm with lunch break between 1pm to 2pm

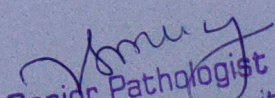
Day 1-Day 5.

Virology/Microbiology Laboratory

I Reported at the location at 9:00 a.m. I met doctor Varsha Munj (Senior Pathologist- Pathology Lab), who gave me general introduction and brief instructions of about how we'll proceed in the next 15 days. I was allotted in the virology/microbiology section for the first five days. After going to the lab, a SOP-microbiology manual guide was handed over to me to go through and have my doubts clear. A demonstration of gram staining was done in the morning by the lab assistant. All the subsection of the lab and the machineries involved there like DNA/RNA extractor, PCR machine, bacterial identification and sensitivity tester were briefly told by doctor. Also the handling and how the official records are maintained were briefly told by doctor. Demonstration of RNA extraction by fully automatic and semi-automatic extractor was given by the lab technician.

Brief introduction to the basic microbiology involved in the testing was given by. What are the different types of samples obtained and how they are used for testing the type of testing done was also mentioned. Demonstration of handling of tools and streaking was performed by doctor. Demonstration of autoclave operation was also given. I performed quadrant streaking of wound swab sample from one of the patient on the blood agar and MacConkey's agar and incubated the plates at 37°C in the bacteriological incubator. Operation of Densitometer was also shown which is used to prepare suspension of appropriate density to be used for bacterial identification. Demonstration of BD BACTEC instrument was also given which is used to detect infection in the blood using blood culture media. Demonstration of identification and sensitivity testing of organism was done by doctor using machine Vitek.

I was instructed on how to make the entries of Covid patients on ICMR portals. Making an entry included entering the name of the patient, Date & time of sample collection, type of sample collected, time of sample testing and the testing kit used. I made around 150-200 pending entries into the ICMR portal. I also helped in delivering the Covid test reports to the patients which required searching of the report of the respective patient, checking whether the entry was made in the portal and taking the signature of the head doctor. Giving out the reports were routinely done as and when it was requested by the patient.


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