



No. MCC-PGIOSR/P/DIR/1427

06.01.2025

**PROCEEDINGS OF THE DIRECTOR, MALABAR CANCER CENTRE- POST  
GRADUATE INSTITUTE OF ONCOLOGY SCIENCES & RESEARCH, THALASSERY**  
**dated 06.01.2025**  
**(Present: Dr.B.Satheesan)**

Sub: Summer training programmes for School and College students-reg.  
Ref: Decision of Admin Committee meeting, held on 18.12.02024.

As part of income generation by department a proposal was put up by Biochemistry Division, to enhance the services in the Division and to attain financial sustainability. The points suggested are as follows:

- To facilitate outside walk-in patients for tests.
- Health checkup package for bystanders
- Summer training programs
- To provide health checkup facilities for newly joining staffs and students.

The Admin Committee had approved the same. Accordingly it was decided to start Summer training programmes for School and College students. Accordingly at training schedule/proposal is prepared and approved as follows:

**1. Summer Training Program for School & College students at MCC-PGIOSR**

Idea for short-term training programs in basic sciences like Haematology, Biochemistry, Microbiology, Molecular Biology and Cancer Prevention is a great way to engage students and provide them with hands-on experience in these fields. Knowledge in cancer prevention can help in developing healthy life. The training can help in developing an attitude of compassion towards patient and interest in pursuing a career in the medical field.

The focus will be on

- ❖ Introducing fundamental concepts and simple experiments that align with more advanced topics in their curriculum
- ❖ Introducing fundamentals on cancer control and prevention
- ❖ Developing an attitude of compassion towards patient and
- ❖ Developing an interest in pursuing a career in the medical field

- **Who can apply:** High School and higher secondary school children
- **Duration:** 6 days
- **Commencement of the program:** Summer vacation (April, May)
- **Curriculum:** Covering basics with a final day of review and refreshments
- **Basic Haematology:** Introduction to blood cells, simple blood smears, and basic understanding of blood types.
- **Biochemistry:** Fundamental biochemical tests like protein estimation, enzyme activity, and pH measurements.
- **Microbiology-** Microbial culture techniques, staining, and basic identification **Molecular Biology-** Demonstration of DNA isolation and advanced equipments. **Onco-pathology:** Visualization of cancer cells under the microscope
- **Blood Bank:** Basics of blood donation-Who can be a donor
- **Cancer prevention:** -Principles and methods for cancer prevention should be known from student period itself.
  - Basics about cancer, risk factors, methods of diagnosis, treatment modalities, early detection and its importance, tests for early detection
  - Simple ways of cancer preventions which can be incorporated in day to day life

- *Activities* - Poster making, reels making, troll creations, literary works, health exhibitions for awareness creation based on the topics learned. All participants will have to prepare at least one activity for certification.

- **Hospital Visit:** They will have a chance to visit the specimen museum of MCC PGIOSR and visit selected areas of the hospital.
- **Patient navigation program:** They will have a chance to be patient navigator for one day
- **Mode of delivery:** This will be imparted as lectures, discussions, practical activities, lab work
- **Departments involved:** Biochemistry (Lead), Microbiology, Onco-pathology, Preventive and Community Oncology, Radiation Oncology, Hospital Administration, Blood bank, Molecular Genetics.
- Fee for Summer Training Program for School students - Rs. 1000/- per head Maximum number per batch- 10

### Schedule

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
10-10.45 am	Orientation	Patient navigation	Patient navigation	Patient navigation	Patient navigation	Patient navigation
10.45-11am	<i>Tea break</i>	<i>Tea break</i>	<i>Tea break</i>	<i>Tea break</i>	<i>Tea break</i>	<i>Tea break</i>
11-12 am	Biochemistry / Haematology	Biochemistry / Haematology	Biochemistry / Haematology	Biochemistry / Haematology	Biochemistry / Haematology	Biochemistry / Haematology
12-1 pm	Microbiology / Pathology	Microbiology / Pathology	Microbiology / Pathology	Microbiology / Pathology	Microbiology / Pathology	Microbiology / Pathology
1pm-2pm	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>
2pm-3pm	MCC visit	Community Oncology / Blood Bank	Community Oncology / Museum	Community Oncology / Radiation oncology	Community Oncology / Mammogram	
<b>Fee for Summer Training Program for School students - Rs. 1000/- per head Maximum number per batch- 10</b>						

**Certification and Evaluation:** A training report and log book, duly signed by the respective Department authorities must be submitted at the end of the programme, in the prescribed format for certification. Apart from that, as mentioned above one activity per student on cancer prevention is mandatory.

## 2. Summer Training Program for College students at MCC-PGIOSR

Idea for short-term training programs in basic sciences like haematology, biochemistry, microbiology, molecular biology and cancer prevention is a great way to engage college students and provide them with hands-on experience in these fields. For students with a biological science background, the program would delve deeper into techniques, and practical applications. Knowledge in cancer prevention can help in developing healthy life. The training can help in developing an attitude of compassion towards fellow beings.

The focus will be on

- Introducing fundamental concepts and simple experiments that align with more advanced topics in their curriculum
  - Introducing fundamentals on cancer control and prevention
  - Developing an attitude of compassion towards patient and
  - Developing an interest in pursuing a career in the medical field **Who can apply:** College students with biological science background
- **Duration:** 10 days
  - **Commencement of the program:** Summer vacation ( April, May)
  - **Curriculum:** Covering basics with a final day of review and refreshments
  - **Haematology:** Detailed study of hematology techniques, blood disorders, and diagnostic tools.
  - **Biochemistry:** Fundamental biochemical tests like protein estimation, enzyme activity, and pH measurements including advanced topics, hands-on lab sessions, and classes.
  - **Microbiology-** Isolation of microorganisms, antimicrobial susceptibility testing, and molecular techniques.
  - **Molecular Biology-** Demonstration of DNA isolation and advanced equipments.
  - **Onco-pathology:** Visualization of cancer cells under the microscope
  - **Blood bank:** Basics of blood donation-Who can be a donor
  - **Cancer prevention:** -Principles and methods for cancer prevention should be known from student period itself.
  - Basics about cancer, risk factors, methods of diagnosis, treatment modalities, early detection and its importance, tests for early detection
  - Simple ways of cancer preventions which can be incorporated in day to day life
  - *Activities* - Poster making, reels making, troll creations, literary works, health exhibitions for awareness creation based on the topics learned. All participants will have to prepare at least one activity for certification.
  - **Hospital Visit:** They will have a chance to visit he specimen museum of MCC PGIOSR and visit selected areas of the hospital.
  - **Patient navigation program:** They will have a chance to be patient navigator for one day
  - **Mode of delivery:** This will be imparted as lectures, discussions, practical activities, lab work
  - **Hands-on Experience:** Laboratory Sessions: Focus on giving students direct experience with instruments and techniques and Demonstrations followed by interactive discussions.
  - **Departments involved:** Biochemistry (**Lead department**), Microbiology, Onco-pathology, Preventive and Community Oncology, Radiation Oncology, Hospital administration, Blood bank, and Molecular genetics

### Schedule

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
10-10.45 am	Orientation	Patient navigation	Patient navigation	Patient navigation	Patient navigation	Patient navigation

10.45-11am	Tea break	Tea break	Tea break	Tea break	Tea break	Tea break
11-12am	Biochemistry /Haematology	Biochemistry /Haematology	Biochemistry /Haematology	Biochemistry /Haematology	Biochemistry /Haematology	Biochemistry /Haematology
12-1pm	Microbiology /Pathology	Microbiology /Pathology	Microbiology /Pathology	Microbiology /Pathology	Microbiology /Pathology	Microbiology /Pathology
1pm-2pm	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
2pm-3pm	MCC Visit	Community Oncology / Blood Bank	Community Oncology/ Museum	Community Oncology /Radiation oncology	Community Oncology /Mammogram	
<p>❖ <b>Fee for Summer Training Program for School Children - Rs. 2000/- per head</b></p> <p>❖ <b>Maximum number per batch- 10</b></p> <p>❖ <b>Certification and Evaluation:</b> A training report and log book duly signed by the respective department authorities must be submitted at the end of the programme in the prescribed format for certification. Apart from that, as mentioned above one activity per student on cancer prevention is mandatory</p>						

### GENERAL GUIDELINES

- ✓ **Faculty and Resources:** Division of Biochemistry will conduct the programme and will utilize experts from Departments involved
- ✓ **Advertisements in MCC Website and social Medias:** Ensure the program details are clearly outlined with information on curriculum, dates (in summer vacation), fees, and instructions.
- ✓ **Registration:** Registration can be done using the link provided in the website. Course link will be active from the month of February onwards every year
- ✓ **Promotion:** Promote the programs through schools, colleges, social media, and local educational fairs.
- ✓ **Feedback and Improvement:** Collect feedback from participants to understand what worked well and where improvements can be made

**DIRECTOR**

**Dr. SATHEESAN.B**  
**DIRECTOR**

Copy to: **Malabar Cancer Centre (PGIOSR), THALASSERY**

1. All Dept Heads & Division in-charges
2. All employees through Dept Heads & Division in-charges
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