



Flowcytometry Laboratory – South Egypt Cancer Institute

ABOUT THE LABORATORY

- South Egypt Cancer Institute Flowcytometry laboratory provides an immunophenotyping service for a broad range of clinical conditions, mainly in cancer, and accepts specimens from outpatient facilities.
- South Egypt Cancer Institute Flowcytometry Laboratory is considered the first laboratory in South Egypt that performs immunophenotyping testing for hematological neoplasms.
- South Egypt Cancer Institute Flowcytometry Laboratory is accredited from EGAC and has ISO 15189 certification.
- Our routine oncology service includes Immunophenotyping for Acute leukemia, Lymphoproliferative disorders, Plasma cell neoplasms as well as Measurable Residual Diseases (MRD) testing for these diseases.
- Many research activities and research projects are conducted in our laboratory.
- Because the first goal of the laboratory is to provide high-quality services, the laboratory team realized the need to establish and follow a total quality management approach. This quality management approach aims at providing a high-quality service by improving the quality of services it provides through continuous improvement, and setting standards that ensure the laboratory needs to rise to the best levels and gain GAHAR certification.

CLINICAL SERVICES

- South Egypt Cancer Institute Flowcytometry laboratory offers many tests for diagnosis, prognosis as well as follow up of hematological diseases and other disorders. These tests include:

1. Immunophenotyping for Acute Leukemia.
2. Immunophenotyping for Lymphoproliferative disorders.
3. Immunophenotyping for plasma cell neoplasms.
4. Measurable Residual disease (MRD) testing for Acute leukemia.
5. Diagnosis of Paroxysmal Nocturnal Hemoglobinuria (PNH).
6. Apoptosis analysis.
7. DNA ploidy analysis.
8. Flowcytometric cross match for transplantation.
9. Lymphocyte subset analysis.
10. CD34 counting.

Equipment:

- FACs Canto II (10 parameters Flowcytometry Instrument)
- Navios EX (12 parameters Flowcytometry Instrument)

Type of specimen:

- **Bone marrow specimen** collected on **EDTA (Purple-top)** or **heparin (green-top) vacutainer** is the preferred specimen type.
- Peripheral blood specimen can be used in the following conditions:
 - Acute leukemia (ALL or AML) (new diagnosis): if there are > 20% blasts in PB film.
 - Chronic lymphocytic leukemia (CLL) (new diagnosis).
- CSF, pleural effusion and other body fluids.
- Fine Needle Aspirate.

Transport of specimen:

- Transport immediately at room temperature.
- If specimen is not transported on the same day, store at 2~8 C overnight and transport on next day.
- All samples should reach the laboratory within 48 hours.

TAT (Time from receiving the sample to verifying the result):

- 48 working hours.
- 6 hours for urgent samples.

⇒ To send specimens to our laboratory, please use our [request form](#)

LABORATORY STAFF

Laboratory Director

Prof. Asmaa Zahran, M.D.

Laboratory Director

Professor of Clinical Pathology

Laboratory Team

Technical manager	
Dr. Noha Gaber, M.D.	
Dr. Shimaa Gaafar, M.D.	
Laboratory Supervisors	
Dr. Eman Hosny, M.D.	
Laboratory Responsible	
Dr. Merna Wagih, M.D.	
Chemists and Technicians	
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