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|--------------------------------|------------------------------|-------------------|-------------|------------------------------------|
| Patient NAME Ms Jane Doe | DATE OF BIRTH 1992-Jun-12 | DISEASE Breast | STAGE II | Physician NAME Administrator |
| SPECIMEN 20ml Blood | VIAL IDs 1 | | | |

REPORT SUMMARY

The ELISA assay results of the patient, show that there is down-regulation of immunity. According to the ELISA analysis the deactivation of the immunity is based on overproduction of relevant factors like CD25, CTLA4

Information

Laboratory Process

1. Serum isolation from 8ml of whole blood with centrifugation.
2. Specific immunity activation/suppression cytokines were measured by ELISA assay.
3. Flow cytometry run for the requested cell markers directly to whole blood.

The data arising from the two assays were then analyzed and compared to the normal ones. During the test the environmental temperature was: 23o C ± 1o C.

Disclaimers

*This Test Report is issued based on testing the sample / specimen examined by the Laboratory. Modification of data, selective breeding and using portions of this test report is forbidden. The laboratory assumes no liability for improper use or improper interpretation of the result

Immunity Activation / Suppression

| CELL TYPE | | MARKERS/CYTOKINES | RESULT | OUTCOME |
|--------------------------|--------------------------------------|----------------------------------|--------|---------|
| B Cells | Plasma Cells | CD19 | 0.06 | - |
| B Cells | Naïve B Cells | CD20 | 4.6 | - |
| B Cells | Memory Cells | CD28 | 0.96 | - |
| T Cells | CD8 - Cytotoxic T Lymphocytes (CTLs) | CD62L | 0.03 | - |
| T Cells | CD4 - Cell Mediated Immunity | IFN- γ (Interferon Gamma) | -3.68 | ↓ |
| T Cells | CD4 - Humoral Immunity | IL-4 (Interleukin 4) | 4.27 | ↑ |
| | | IL-6 (Interleukin 6) | 2.36 | ↑ |
| | | IL-2 (Interleukin 2) | -1.48 | ↓ |
| T Cells | CD4 - Suppressed Immunity | TNF- α | -2.05 | ↓ |
| | | CD25 (T Regulatory Cells) | 0.04 | - |
| | | CTLA4 (T Regulatory Cells) | 0.01 | - |
| T Cells | Memory Cells | CD28 | 0.27 | - |
| Antigen Presenting Cells | Dendritic Cells (DCs) | CD80 | 0.01 | - |
| | | CD86 | 0.03 | - |

Sincerely,

Dr. Ioannis Papatotiriou MD, PhD, SCym

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