

Florina , \_\_ / \_\_ /2013

Dear Colleague,

We send you the results from the analysis on a patient Ms \_\_\_\_\_ suffering from breast stage \_\_. The sample of \_\_ml of whole blood that contained EDTA-Ca as anti-coagulant, and packed with an ice pack .

In our laboratory we made the following:

- We isolated the malignant cells using Oncoquick with a membrane that isolates malignant cells from normal cells after centrifugation and positive and negative selection using multiple cell markers .

The results during the isolation procedure are presented below:

**Table of markers:**

CD45 positive cells (Hematologic origin cells)		CD45 negative cells (non Hematologic origin)	
NANOG	NEGATIVE	NANOG	POSITIVE
OKT-4	NEGATIVE	OKT-4	POSITIVE
SOX-2	NEGATIVE	SOX-2	NEGATIVE
		MUC-1	POSITIVE
		EPCAM	POSITIVE
		CD133	POSITIVE
		C-MET	NEGATIVE
		CD31	NEGATIVE
		CD44	POSITIVE
		PANCK	POSITIVE

**Index of marker:** **CD45:** Hematologic origin cell marker, **Nanog:** tumor stem cell marker, **OKT-4:** tumor stem cell marker, **Sox-2:** tumor stem cell marker, **MUC-1:** Breast cancer cell membrane antigen, **EpCam:** Epithelial origin marker, **CD133, CD44:** tumor stem cell marker, **c-MET:** membrane antigen that regulates the mesenchymal to epithelial transistion, **CD31:** endothelial cell membrane antigen, **PanCK:** epithelial origin marker..

**Conclusion:** We notice that after isolation procedure there are remaining malignant cells. The concentration of these cells was \_\_\_cells/7.5ml, SD +/- 0.3cells.

Sincerely,

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**Index of circulating cells number:** (upper limit : progress of disease, lower than limit: beginning of disease or stable of disease when the patient is on treatment plan)

Breast cancer: 5cell/7.5ml , Prostate cancer 20cells/ml , Sarcoma: 15cells/6.5ml, Colon cancer: 5cells/ml, Lung cancer (Lc=0, r=0.99): 10cell/ml.

\*This test will NOT DETECT cancers of the brain or other cancers that have been “encapsulated” by the body. not releasing circulating tumor or stem cells (CTC, CSC) into the blood stream or if any of these cells are dormant. We still recommend the use of biopsy, blood markers and/or various scans with this test when cancer is suspected or known to exist. No test is 100% accurate.