

Doctor Name: Dr. Kalpana Shekawath
 Patient Name: Mrs. Archana Agarwal

Description: Mrs. Archana Agarwal, 47 Years old is showing **EpCAM & Cytokeratin POSITIVE** expression. The patient has family history of gall stone cancer. The sample was received for analysis on 04.01.2019 was a sample of 10 ml of whole blood sent in **MERISIS™ CTC Kit** that contained sodium citrate as anti-coagulant.

We isolated the cells using **MERISIS™ CTC Kit** with a density gradient gel that isolates cancer cells from normal cells after centrifugation and positive and negative selection using multiple cell markers.

Results:
Table of markers:

CD45 positive cells (Hematologic origin cells)		CD45 negative cells (non Hematologic origin)	
OCT-4	POSITIVE	EpCam	POSITIVE
SOX2	POSITIVE	CD31	NEGATIVE
CD45	POSITIVE	Pan CK	POSITIVE
CD133	POSITIVE	CK17	POSITIVE
		Nanog	NEGATIVE

Index of marker: CD133 & CD45: Hematologic origin cell marker, OCT – 4, Sox -2; CD31: Endothelial cell membrane antigen, EpCAM: Epithelial origin marker, PanCK: Epithelial origin marker, CK17: Cytokeratin

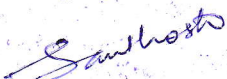
The final results after the isolation procedure are presented below:

The concentration of these cells was isolated **6 cells/10ml, SD +/- 1 cell.**

We notice that after isolation procedure there are slight signs of CTCs observed. Proper diet and exercise must be followed. We recommend monitoring and repeating the tests after 2 to 3 Months.

CLINICAL RISK	MARKERS	Function	RESULTS	OUTCOME
Clinical risk observed.	EpCAM Positive	Indicates low Risk of Lung, Colon, Prostate cancers	~ 6 cells/10 ml	CTC Positive
	CK17 Positive			>5 cells / 10 ml

Sincerely



Dr. Santhosh Gopal


Index of circulating cells number:

Lung cancer: <10cells/ml, Prostate cancer < 20cells/ml, Colon cancer: <7cells/ml

(If over Limit: Advanced or Progression of Disease, If Less than limit: Early disease or disease is responding to a treatment plan). **Disclaimer:** 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.

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