DiponEd
BIOINTELLIGENCE

Date: 27/06/2019

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

Description: Archana Agarwal, 47 years old is showing **EpCAM & PanCK** NEGATIVE expression. The sample was sent to us for analysis on 3rd June 2019, 10ml of whole blood was 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 based on specific gravity and size, 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	NEGATIVE
CD133	POSITIVE	CD31	NEGATIVE
		PanCK	NEGATIVE
		CK17	NEGATIVE
		MUC1	NEGATIVE

Index of marker: CD133 & CD45: Hematologic origin cell marker, **MUC 1:** Polymorphic epithelial mucin; **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 ~**4 cells/10ml, SD +/- 2 cell**.

We notice that after isolation procedure there are no significant CTCs observed. We recommend medical opinion, checkup monitoring and repeating the tests after 2 to 3 Months.

CLINICAL RISK	MARKERS	Function	RESULTS	OUTCOME
NO RISK	EpCAM **NEGATIVE**	Indicates no Risk of Lung, Colon, Prostate cancers etc.	~ 4cells/10 ml	NO RISK
	PanCK **NEGATIVE**			<5cells/10 ml

Sincerely,

Dr. Kaushik D. Deb

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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