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Director: Jon Nakamoto, M.D., Ph. D.

PATIENT NAME	PATIENT ID NO.		DATE	TIME
16011, CellSearch	NOT GIVEN	COLLECTED	NOT GIVEN	NOT GIVEN
		RECEIVED	09/28/2017	05:17
		REPORTED	09/28/2017	05:21
		STATUS	DUPLICATE	

ACCESSION NO.	AGE	SEX	SAMPLE ID NO.	OTHER ID NO.
47647980	NG	NG	NOT GIVEN	NG

REMARKS	REFERRING PHYSICIAN
	NG

TEST	RESULT (* = OUT OF RANGE)	UNITS	REFERENCE RANGE
CellSearch(R),Breast	0	CTC/7.5 mL Whole Blood	

Interpretation/Comment:

A circulating tumor cell (CTC) count of 5 or more per 7.5 ml of blood at any time during the course of the disease has been reported to be associated with a poor prognosis and is predictive of shorter progression free survival (PFS) and overall survival (OS) in patients with metastatic breast cancer. The table lists median PFS and OS based CTC counts.

Number of CTC	PFS (months)	OS (months)
At all time <5	7.2	22.6
Baseline <5; At final draw >=5	5.9	10.6
Baseline >=5; At final draw <5	6.1	19.8
At all time points >=5	1.8	4.1

CellSearch(TM) results should be used in conjunction with all clinical information derived from diagnostic tests (i.e., imaging, laboratory tests), physical examination and complete medical history in accordance with appropriate patient management procedures. This prognostic study does not demonstrate that any current line of therapy is any more or less effective than any other or no therapy.

Method:
The test was performed using Veridex Circulating Tumor Cell Kit.

Reference:
1. Veridex product insert, document LBL50058, Rev. 6, 2009-05.
2. Circulating Tumor Cells versus Imaging-Predicting Overall Survival in Metastatic Breast Cancer. Clin Cancer Res. 2006 Nov 1;12(21) 6403-9.
3. Circulating Tumor Cells: A Novel Prognostic Factor for Newly Diagnosed Metastatic Breast Cancer. J Clin Oncol. 2005 Mar 1;23(7):1420-30.