



Labor Dr. med. Ulrich Pachmann Kurpromenade 2 95448 Bayreuth

Bayreuth, 09.01.2015

Dr. XXXX

Your patient: XXXX  
 Born: **08.12.1953**

Your request from: 05.01.2015  
 Our Lab number: T521661  
 initial findings: T317586, T418359,  
 T418969 T419491, T419895, T420344,  
 T420718, T421245

**Report on diagnostic findings on Circulating Tumor Cells (MAINTRAC)**

Dear Dr. XXXX,

Many thanks for sending your examination request regarding the detection of circulating tumor cells in your patient XXXX

Diagnosis: Colon Cancer (poorly differentiated Adeno Ca, initial stage: IIIc) Post surgery 04.11.2013. Therapy until 02/14: Avemar, Vitamin C, Alpha Lipoic Acid, Resveratrol, Herbs. Current stage: IV. Current therapy since 24.03.2014: chemotherapy with oxaliplatin and capecitabine and nutrition supports / antioxidants. Follow up after chemotherapy now with herbs

The laserscanning-microfluorimetry of the **epithelial cell antigen (HEA)**-positive cells with visual control (MAINTRAC) from **1 ml EDTA blood** resulted in following findings (detection limit is at 10 cells/ml):

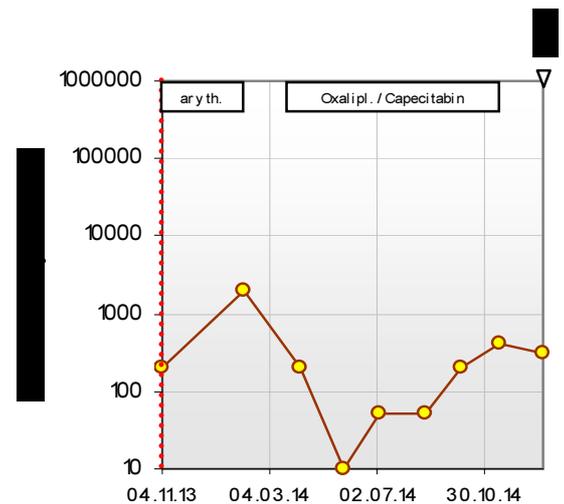
Examination parameter	Number of potential tumor cells			Cell fragments
	In the sample	In circulation (5l) (in millions)	In addit. examination: %der HEA-pos. cells	
HEA	<b>300</b>	<b>1,5</b>		numerous

The material you sent for examination could be thoroughly evaluated.

We found again only a slightly increased number of vital cells circulating in blood. In comparison to the previous findings from November 2014 the number of potential tumor cells has decreased. In addition, there were numerous specific **cell fragments** detected.

Specific cell fragments occur, for example, after chemotherapy or radiation, or as part of an immune response and indicate damaged cells.

After the increase in cell numbers following surgery under complementary therapy, we could, under the current chemotherapy, see a good decrease in cell numbers, to below the detection limit. This was followed by a repeated increase in cell numbers. Now, over a period of 2 months we can see a slight decrease.



You now have a **benchmark**, from which can be determined if and how the number of these cells changes in response to therapy.

With best regards,  
 Dr. med. Ulrich Pachmann

PD Dr. med. Katharina Pachmann