



Labor Dr. med. Ulrich Pachmann Kurpromenade 2 95448 Bayreuth

Bayreuth, 22.12.2014

Dr. XXXX

Your patient: XXXX  
 Born: **09.05.1971**

Your request from: 15.12.2014  
 Our Lab number: T421600

**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: not documented.

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: % of HEA-pos. cells	
HEA	<b>850</b>	<b>4,25</b>		numerous

in-vitro-vitality reduction in relation to concentration and time (in%) with eutherapeutic concentrations of				
TAC	<b>95</b>	FEC	<b>&lt;10</b>	The ideal is a reduction by 100% in short-term cell culture

The material you sent for examination could be thoroughly evaluated.  
 We found a moderately increased number of vital tumor cells circulating in the blood.  
 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.

**In-vitro vitality reduction** occurred at **TAC** but not at **FEC**.

Only in connection with a detected tumor the cells are most probably cells from this tumor.

The current cell numbers present a basic value, only an increase in cell numbers is relevant for disease progress.

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