



Labor Dr. med. Ulrich Pachmann · Kurpromenade 2 · 95448 Bayreuth

Bayreuth, 09.01.2015

Dr. XXXX

Your patient: XXXX  
 Born: **24.11.1947**

Your request from: 05.01.2015  
 Our Lab number: T521668  
 initial findings: T420813, T421333

**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: Gastric neuroendocrine tumor, initial diagnosis: 23.09.2014. Follow up.

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>300</b>	<b>1,5</b>		numerous

The material you sent for examination could be thoroughly evaluated.

We now found only a slightly increased number of vital tumor cells circulating in the blood.

In comparison to the previous findings from November 2014 the number of potential tumor cells has decreased more than twice.

In addition, there were numerous specific **cell fragments** detected.

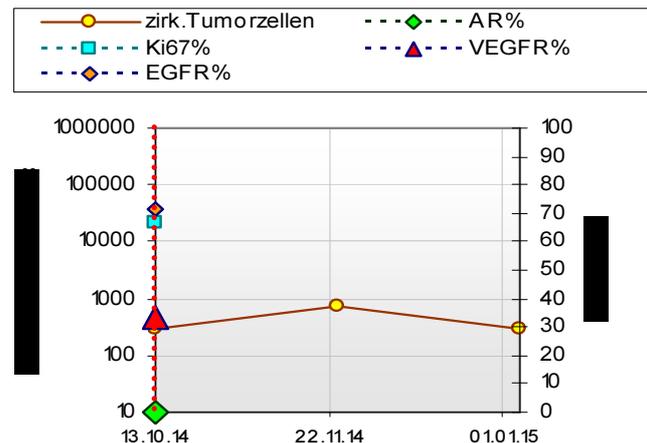
Specific cell fragments occur, for example, as part of an immune response and indicate damaged cells.

After the increase in cell numbers, we now can see over a period of 2 months a decrease to a low cell level.

It is, however, also possible that only part of the neuroendocrine cells carry the EpCAM-Antigen.

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