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DAkkS Deutsche Akkreditierungsstelle D-ML-13345-01-00

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

Dr.XXXXX

Bayreuth, 05.03.2018

Your patient: Born: 17.11.1959

Blood collection date: 26.02.2018
Our Lab number:
Initial findings:

Report on diagnostic findings on Circulating Tumor Cells (MAINTRAC)

Dear Dr.XXXXX ,

Many thanks for sending your examination request regarding the detection of circulating tumor cells. Follow up.

Diagnosis:
Breast Cancer, Stage: 2, Initial diagnosis: 26.04.2017
- 2017: Surgery
- Complementary therapy
- since 08/17: IV Therapies, Supplements

The automated microfluorimetric image analysis of the **epithelial cell adhesion molecule (EpCAM)**-positive cells with visual control (MAINTRAC) from **1 ml EDTA blood** resulted in following findings (detection limit is at 10 cells/ml):

	Number of potential tumor cells			
Examination parameter	In the sample (1ml)	In circulation (5l) (in millions)	In addit. examination: % of EpCAM-pos. cells	Cell fragments
EpCAM	**2 850**	**14,25**		numerous

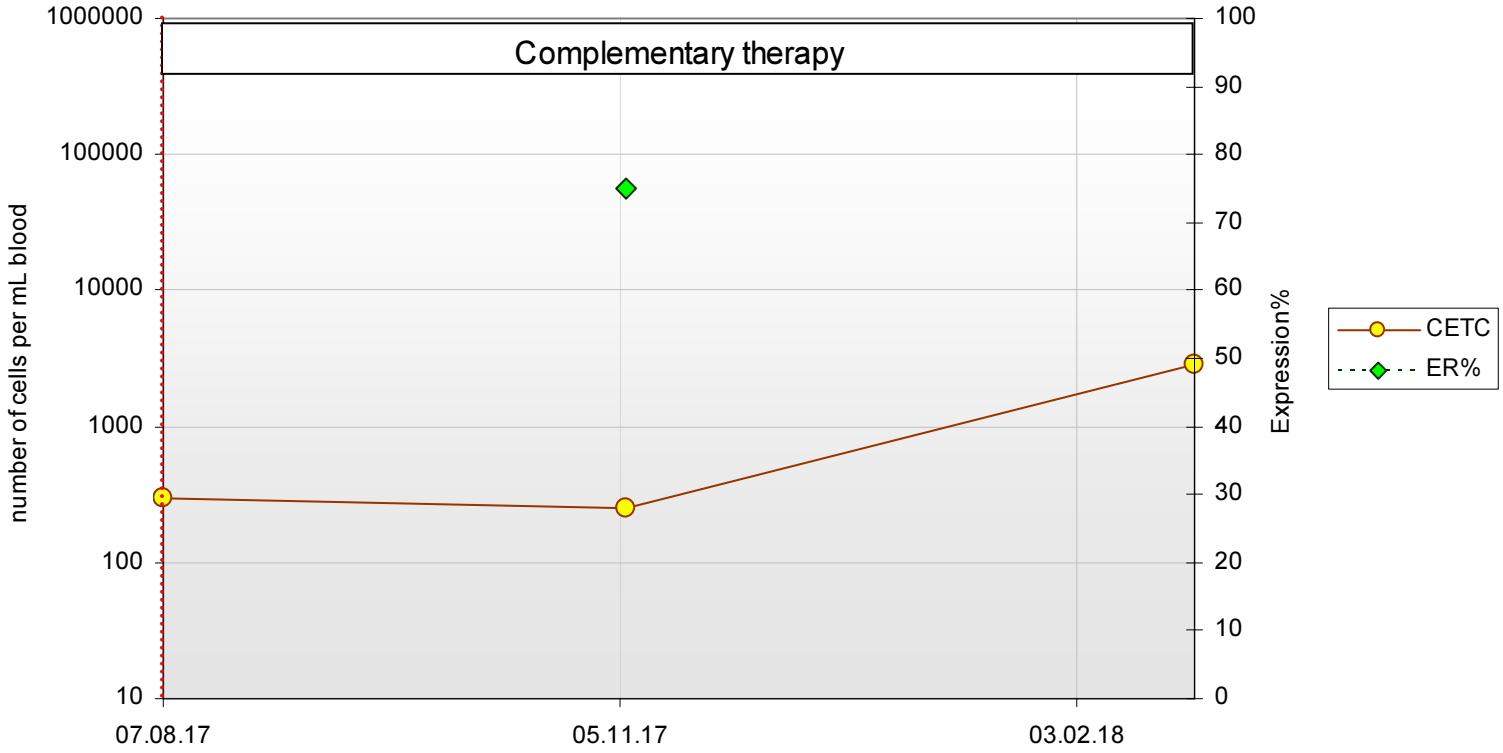
The material for examination could be thoroughly evaluated.
Under ongoing complementary therapy we now found **a significantly increased number of live, potentially malignant tumor cells circulating in the blood. In comparison to the previous findings from November 2017 the number of potential tumor cells has increased by more than 11-fold.**
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.

Initially, under complementary therapy, we could see cell numbers at a low cell level, followed by a slight decrease in November 2017.
Now, over a period of 4 months under ongoing therapy, there is a significant increase to a high cell level.

We recommend a short term control in 4 weeks.

If there is a further increase, diagnostic steps respectively a change of therapy should be taken into consideration.

Patient Name Born:



With best regards,
Dr. med. Ulrich Pachmann Prof. Dr. med. Katharina Pachmann Daniel Lux