

# TFields In Germany in routine clinical care

<b>Submission date</b> 27/07/2017	<b>Recruitment status</b> No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 08/08/2017	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 21/02/2023	<b>Condition category</b> Cancer	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

Glioblastoma (GBM) is the most common malignant primary tumor (cancer) of the brain. The current standard of care for patients with newly diagnosed GBM consists of maximal surgical resection (surgically removing the cancer), radiotherapy together with chemotherapy using temozolomide (TMZ), followed by maintenance TMZ for six months. This treatment scheme was shown to extend median survival from 12.1 to 14.6 months compared to surgery and radiotherapy alone. This survival was essentially unchanged since 2005 despite numerous other studies. Although immense efforts have been made over the years with different treatment strategies, the survival of patients with newly diagnosed GBM remained very poor until recently. Tumor-treating fields (TFields) are low-intensity, intermediate frequency, alternating electric fields delivered continuously through adhesive patches, called transducer arrays, to the area of the brain where the GBM tumor is located and help slow down or stop glioblastoma cancer cells from dividing. These transducer arrays are applied to the scalp and are connected to the wearable and portable device. The aim of this study is to collect real life data on the use of tumor-treating fields (TFields) in patients with newly diagnosed GBM in routine clinical care in Germany.

### Who can participate?

Patients aged 18 and older who have GBM

### What does the study involve?

This study is a chart review study. Participants who receive TFields treatment have data collected about their care for 24 months. Data is collected about their health and any serious adverse events that occurred during their care. Participants complete a quality of life questionnaire and questionnaire about TFields at baseline and during their follow up treatment.

### What are the possible benefits and risks of participating?

There are no direct benefits or risks with participating

### Where is the study run from?

This study is being run from 5 hospitals in Germany

### When is the study starting and how long is it expected to run for?

July 2017 to August 2022



Who is funding the study?  
Novocure GmbH (Germany)

Who is the main contact?

1. Dunja Kosanovic  
tiger@cri-muc.eu
2. Prof. Dr Oliver Bähr

## Contact information

### Type(s)

Public

### Contact name

Mrs Dunja Kosanovic

### Contact details

CRI – The Clinical Research Institute GmbH  
Arnulfstraße 19  
Munich  
Germany  
80335  
+49 (0)89 990 1649 968  
tiger@cri-muc.eu

### Type(s)

Scientific

### Contact name

Prof Oliver Bähr

### ORCID ID

<https://orcid.org/0000-0003-2073-037X>

### Contact details

Clinical Centre Aschaffenburg-Alzenau gGmbH  
Neurologic Clinic  
Am Hasenkopf 1  
Aschaffenburg  
Germany  
63739

## Additional identifiers

### ClinicalTrials.gov (NCT)

NCT03258021

### Protocol serial number

05.07.2017



# Study information

## Scientific Title

TTFIELDS In Germany in Routine clinical care (TIGER): the use of TTFIELDS for newly diagnosed GBM patients in Germany in routine clinical care

## Acronym

TIGER

## Study objectives

The purpose of this post-authorisation medical device study is to obtain real life data on the use of tumor-treating fields (TTFIELDS) in patients with newly diagnosed GBM in routine clinical care in Germany.

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

Ethikkommission des FB Medizin der J.W. Goethe-Universität, 23/08/2017, ref: 280/17

## Study design

Multicentre prospective non-interventional observational post-authorisation medical device study

## Primary study design

Observational

## Study type(s)

Treatment

## Health condition(s) or problem(s) studied

Glioblastoma

## Interventions

This is non-interventional study evaluating use of tumor-treating fields (TTFIELDS) in newly diagnosed glioblastoma (GBM) patients in routine clinical care. TTFIELDS help slow down or stop glioblastoma cancer cells from dividing by disrupting dividing mechanism of cancer cells leading to apoptosis. TTFIELDS are low-intensity, intermediate frequency, alternating electric fields delivered continuously through adhesive patches, called transducer arrays, to the area of the brain where the GBM tumor is located. These transducer arrays are applied to the scalp and are connected to the wearable and portable device. TTFIELDS are approved for the treatment of newly diagnosed and recurrent GBM.

Eligible participants are enrolled in the study after signing informed consent to use their data and process it centrally for research purposes. Participants do not experience any tests or procedures that are not part of routine clinical care. For patients refusing TTFIELDS treatment at baseline only baseline data is collected. Patient who initiate TTFIELDS Therapy are followed-up during the first 24 months after study enrolment, LPI has a max. of 18 months follow-up.



Data obtained from patient files: Only data which can be obtained from routine clinical care files of the patients is recorded. Data of each routine clinical care visit during the first 24 months after study enrolment is reported in the eCRF. Data is derived from clinical records and findings, radiological assessments (e.g. contrast enhanced MRI), observations or other sources (e.g. hospital records, clinical and office charts, electronic patient records, laboratory notes, recorded data from automated device). Serious Adverse Events (SAEs) are documented during follow-up visits by the treating investigator and subsequently centrally assessed by an independent Clinical Event Committee.

Participants also complete quality of life questionnaires and a study-specific questionnaire on TTFields at baseline and during follow-up.

## **Intervention Type**

Other

## **Primary outcome(s)**

1. Time to death of any cause (overall survival [OS]) from diagnosis is measured using the patient data from date of enrollment until the date of death from any cause
2. Number of TTFields treatment-related (serious adverse events) SAEs standardised to one year of FU is measured using the collection of SAEs during the follow-up period
3. Number of SAEs after start of TTFields treatment is measured using the collection of SAEs at the follow-up period
4. Time of usage (compliance) of TTFields treatment over time is measured using the treatment compliance report at the follow-up period
5. Time to first progression of GBM (progression-free survival [PFS]), defined within radiological and/or clinical/neurological assessment during routine clinical care in patients who started TTFields treatment at baseline from date of enrollment until the date of first progression of GBM
6. Changes in quality of life after start of TTFields treatment compared to baseline in patients who started TTFields treatment at baseline is measured using the QoL questionnaires at months two and four after start of TTFields treatment
7. Patients' reason(s) for refusing TTFields is measured using a questionnaire at baseline

## **Key secondary outcome(s)**

There are no secondary outcome measures

## **Completion date**

31/08/2022

# **Eligibility**

## **Key inclusion criteria**

1. Newly diagnosed histologically confirmed GBM (WHO-Grade IV)
2. Patient within first 3 cycles of first-line tumor-specific maintenance chemotherapy
3.  $\geq 18$  years of age
4. Clinical indication for TTFields treatment
5. Given informed consent for use and processing of data

## **Participant type(s)**

Patient



**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

18 years

**Sex**

All

**Total final enrolment**

709

**Key exclusion criteria**

1. Present or planned pregnancy
2. Significant additional neurological disease (e.g. significantly increased intracerebral pressure (ICP) with a significant midline shift of the brain)
3. Active implanted medical device (e.g. deep brain stimulator)
4. Documented allergy to conductive hydrogel
5. Skull defect (e.g. missing bone with no replacement, bullet fragments in the skull)

**Date of first enrolment**

31/08/2017

**Date of final enrolment**

30/11/2019

**Locations****Countries of recruitment**

Germany

**Study participating centre**

**Clinical Centre Aschaffenburg**

Aschaffenburg

Germany

63739

**Sponsor information****Organisation**

Novocure GmbH



ROR

<https://ror.org/04pspdc11>

## Funder(s)

### Funder type

Industry

### Funder Name

Novocure GmbH

## Results and Publications

### Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study are not expected to be made available due to data protection.

### IPD sharing plan summary

Not expected to be made available

### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Participant information sheet</a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes