

Glioblastoma

A clinical trial to look at how safe RO7428731 is at different doses, how the body processes it, and what effects RO7428731 has on the body in people with glioblastoma that has the marker EGFRvIII

A Study Evaluating the Safety, Pharmacokinetic and Anti-tumor Activity of RO7428731 in Participants With Glioblastoma

Trial Status
Recruiting

Trial Runs In
5 Countries

Trial Identifier
NCT05187624 2022-502863-39-00
BP42573

The source of the below information is the publicly available website ClinicalTrials.gov. It has been summarised and edited into simpler language.

Trial Summary:

This is an open-label, multicenter study to assess safety, tolerability, pharmacokinetics (PK), immunogenicity, pharmacodynamics (PD), and preliminary efficacy of RO7428731 administered as a monotherapy in participants with newly diagnosed or recurrent epidermal growth factor receptor variant III (EGFRvIII)-positive glioblastoma (GBM).

Hoffmann-La Roche
Sponsor

Phase 1
Phase

NCT05187624 2022-502863-39-00 BP42573
Trial Identifiers

Eligibility Criteria:

Gender
All

Age
≥18 Years

Healthy Volunteers
No



Do you have or know anybody with glioblastoma?

This clinical trial aims to test the safety of RO7428731 at different doses, find out how the body processes it, and what effect it has on the body, in people with glioblastoma having mutant epidermal growth factor receptor variant III (EGFRvIII). [Learn more about it here](#)

1. Why is the BP42573 clinical trial needed?

Glioblastoma is a fast-growing (aggressive) type of brain tumour. Current standard-of-care treatment for glioblastoma includes surgery and radiotherapy with or without chemotherapy. However, the outlook for people is poor and new treatments are needed to improve health outcomes and quality of life for people with glioblastoma. RO7428731 is a drug that helps the body's immune system fight cancer (known as 'immunotherapy'). Up to 1 in 3 people with glioblastoma have tumour cells with a marker called epidermal growth factor receptor variant III (EGFRvIII), which RO7428731 can target. RO7428731 attaches to EGFRvIII on the tumour cells and cells from the immune system. This brings them closer together and activates the immune cell to kill the tumour cell. RO7428731 is an experimental drug, which means health authorities have not approved it for treating glioblastoma. This clinical trial aims to find out whether RO7428731 at different doses has any effects (good or bad), what happens to RO7428731 once it is in the body and what RO7428731 does to the body.

2. How does the BP42573 clinical trial work?

This clinical trial is recruiting people with glioblastoma that has the marker EGFRvIII. People who take part in this clinical trial (participants) will be given the clinical trial treatment RO7428731 for as long as it can help them. Groups of participants will be given increasing doses of RO7428731, depending on when they start the trial and the stage of their cancer. Participants will stay in the hospital for at least 24 hours after being given the first one or two doses of RO7428731 and when being given a higher dose than before. The clinical trial doctor will see them regularly (with more visits over the first 4 months of the trial) and twice over the 2 months after the last dose. These hospital visits will include checks to see how the participant responds to the treatment and any side effects (unwanted effects of a drug or medical treatment) they may have. Total time of participation in the clinical trial could be more than 2 years, depending on how well a participant responds to treatment. Participants can stop trial treatment and leave the clinical trial at any time.

How long?

Participants will stay in the hospital for at least 24 hours

- after being given the first one or two doses of RO7428731 and
- when being given a higher dose than before



Total time of participation in the trial: could be more than 2 years depending on how well a participant responds to treatment

Hospital visits

For treatment: Every 3 weeks for up to 1 year or longer if the participant benefits from the treatment.

For follow-up: The clinical trial doctor will see the participants regularly, with more visits over the first 4 months and twice over the 2 months after the last dose of the trial.

These hospital visits will include checks to see how the participants respond to the treatment and any side effects they may have.



Hospital visits

Trial ends

What's next?

If a participant has a side effect to RO7428731 due to an overreaction of the immune system, called 'cytokine release syndrome', they may be given another drug called **tocilizumab**.

Participants can stop treatment and leave the trial at any time.



3. What are the main endpoints of the BP42573 clinical trial?

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The main clinical trial endpoints (the main results measured in the trial) are the number, type and seriousness of side effects, and the maximum dose of RO7428731 that can be given without unmanageable side effects.

The other clinical trial endpoints include:

- How the body breaks down and processes RO7428731
- The number of participants who make antibodies to RO7428731 and how many they make
- The effect of antibodies to RO7428731 on how the body processes them and the number, type and seriousness of side effects
- The number of participants with a tumour that is smaller or the same size after treatment
- How much time there is between cancer getting better and then getting worse
- The length of time between the start of the trial and participants' cancer getting worse
- How long participants live

4. Who can take part in this clinical trial?

People can take part in this trial if they are at least 18 years old and have completed standard-of-care treatment for glioblastoma. People may not be able to take part in this trial if they are not able to have a magnetic resonance imaging (MRI) scan, have tumours that are in or are close to critical structures in the brain, or have glioblastoma that has come back more than twice or has spread to other parts of the body. People cannot take part if they have certain other medical conditions, such as bleeding/clotting disorders, uncontrolled brain and/or spinal cord diseases, and certain infections, or if they have previously received certain treatments, such as another immunotherapy for glioblastoma. Women who are pregnant or breastfeeding and people who do not agree to prevent pregnancy during and for a certain period after the trial cannot take part. In addition, women cannot donate eggs, and men cannot donate sperm during and for a certain time period after the trial.

The infographic is divided into two main sections. The left section, titled 'Who can participate?', features a large blue arrow pointing right. Inside the arrow, it states 'At least 18 years of age' in large, bold text. Below this, there are two bullet points: 'Diagnosed with epidermal growth factor receptor variant II (EGFRvII) positive glioblastoma' and 'Completed standard-of-care treatment for glioblastoma'. The right section, titled 'Additional criteria', lists criteria for who may NOT be able to take part. It includes a sub-header 'People may NOT be able to take part in this trial if they' followed by six bullet points: 'are not able to have an MRI scan', 'have tumours that are close to critical structures in the brain', 'have glioblastoma that has come back more than twice or has spread to other parts of the body', 'have certain other medical conditions or infections', 'have previously received certain treatments for glioblastoma', and 'are pregnant or breastfeeding'. In the center, between the two sections, is an illustration of a diverse family: a man in a suit, a woman in a pink dress, a young boy, a young girl, and a man in a wheelchair.

Who can participate?

At least 18 years of age

- Diagnosed with epidermal growth factor receptor variant II (EGFRvII) positive glioblastoma
- Completed standard-of-care treatment for glioblastoma

Additional criteria

People may NOT be able to take part in this trial if they

- are not able to have an MRI scan
- have tumours that are close to critical structures in the brain
- have glioblastoma that has come back more than twice or has spread to other parts of the body
- have certain other medical conditions or infections
- have previously received certain treatments for glioblastoma
- are pregnant or breastfeeding

5. What treatment will participants be given in this clinical trial?

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Everyone who joins this clinical trial will be given RO7428731 as an infusion (into the vein) every 3 weeks for up to 1 year (or longer if the participant benefits from the treatment), or until their cancer gets worse, they have unmanageable side effects or decide to leave the trial. Participants may be given a pre-treatment drug called obinutuzumab in the week before the first dose of RO7428731 to stop the body from making antibodies (which could stop RO7428731 from working properly). If a participant has a side effect to RO7428731 treatment due to an overreaction of the immune system (called 'cytokine release syndrome'), they may be given another drug called tocilizumab. This is an open-label trial, which means everyone involved, including the participant and the clinical trial doctor, will know the clinical trial treatment the participant has been given.



6. Are there any risks or benefits in taking part in this clinical trial?

The safety or effectiveness of the experimental treatment or use may not be fully known at the time of the trial. Most trials involve some risks to the participant. However, it may not be greater than the risks related to routine medical care or the natural progression of the health condition. People who would like to participate will be told about any risks and benefits of taking part in the clinical trial, as well as any additional procedures, tests, or assessments they will be asked to undergo. All of these will be described in an informed consent document (a document that provides people with the information they need to decide if they want to volunteer for the clinical trial).

Risks associated with the clinical trial drugs

Participants may have side effects from the drugs used in this clinical trial. Side effects can be mild to severe, even life-threatening, and vary from person to person. Participants will be closely monitored during the clinical trial and safety assessments will be performed regularly.

RO7428731 has not yet been tested in humans. For this reason, this drug's side effects are not yet known. Participants will be told about the possible side effects of RO7428731 based on laboratory studies or knowledge of similar drugs and known side effects of obinutuzumab and tocilizumab based on prior clinical experience. RO7428731,

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obinutuzumab and tocilizumab will be given as infusions into the vein (intravenous infusions). Participants will be told about any known side effects of intravenous infusions.

Potential benefits associated with the clinical trial

Participants' health may or may not improve from participation in the clinical trial. Still, the information collected may help other people with similar medical conditions in the future.

