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Duchenne Muscular Dystrophy (DMD)

A study to check the effect of satralizumab in children and adolescents living with Duchenne muscular dystrophy, to check if it is safe and also how it affects the different parts of the body and how it is eliminated from the body (SHIELD DMD)

An Open-label Study to Assess the Efficacy and Safety of Satralizumab in Duchenne Muscular Dystrophy

Trial Status
Recruiting

Trial Runs In
2 Countries

Trial Identifier
NCT06450639 2024-512383-65-00
BN45398

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

Trial Summary:

The purpose of this study is to assess the efficacy, safety, pharmacokinetics (PK) and pharmacodynamics (PD) of satralizumab, a humanized anti-interleukin-6 receptor (aIL-6R) monoclonal antibody, in ambulatory and non-ambulatory patients with Duchenne muscular dystrophy (DMD) age # 8 to < 16 years old receiving corticosteroid therapy.

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Phase 2
Phase

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Eligibility Criteria:

Gender
Male

Age
>=8 Years & <= 15 Years

Healthy Volunteers
No

1. Why is this study needed? Duchenne muscular dystrophy (DMD) is a rare genetic disorder that causes muscle weakness and wasting and leads to difficulty in movement. It is usually seen in boys. DMD affects muscles that control movement and muscles in the heart and lungs. DMD also makes bones weaker so people with DMD have a high risk of broken bones. Certain medicines called glucocorticoids are currently the standard of care for the treatment of DMD. However, these medicines have many unwanted effects,

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including making the bones even weaker. Additionally, there are currently no approved treatments for DMD that specifically target weakened and broken bones.

This study is testing a medicine called satralizumab (RO5333787) to check if it can have an effect on the muscles and the bones of people living with DMD. Satralizumab is an experimental medicine for DMD. This means health authorities (like the U.S. Food and Drug Administration and European Medicines Agency) have not approved satralizumab for the treatment of people with DMD. However, satralizumab is currently approved for the treatment of another disease called Neuromyelitis Optica Spectrum Disorder (NMOSD). This study aims to find out the effects of satralizumab when given along with glucocorticoids in children with DMD.

2. Who can take part in the study? Male children between 8 and 15 years of age with DMD weighing no more than 100 kilograms (kg) and taking daily corticosteroids can take part in the study. Children with and without a history of broken bones who may or may not be able to walk on their own can take part in this study.

Children cannot take part in this study if they have had a major surgery within 3 months before the study or have planned a surgery or procedure during this study. Children who have either received gene therapy or are receiving other experimental drugs and those who present other health conditions that could create a safety risk for them cannot take part in this study.

3. How does this study work? Children will be screened to check if they are able to participate in the study. The screening will take place for up to 12 weeks before the start of the treatment.

Everyone who joins this study will be given satralizumab as an injection under the skin in the belly or thigh at Weeks 0, 2, 4, and every 4 weeks thereafter for 104 weeks. The doses of satralizumab will depend on the participant's body weight. Participants will have regular blood tests and will be checked for unwanted effects throughout the study.

This is an open-label study. This means everyone involved, including the participant and the study doctor, will know the study treatment the participant has been given.

During this study, the study doctor will see the participants 12 times during their clinic visits. These visits will first occur every two weeks (Day 1, Week 2, and Week 4), then every four weeks for the following two visits (weeks 8 and 12), and then approximately every 3 to 4 months for the rest of the first year. For the second year, the visits will happen every 6 months. Study doctors will see how well the treatment is working and any unwanted effects participants may have. At the end the participants will have a follow-up visit after 12 weeks of completing the study treatment, during which the study doctor will check on the participant's well-being.

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Total time of participation in the study will be about 2 years. Participants have the right to stop study treatment and leave the study at any time, if they wish to do so. Participants will also occasionally receive follow-up calls to check on how they are doing. If they experience any unwanted effects or injury during the study, the clinical trial doctor will explain the options and discuss a plan for further treatment.

4. What are the main results measured in this study? The main result measured in the study is to assess if the medicine changes the bone mineral density of the bones of the lower back. This will be measured using dual-energy X-ray absorptiometry (DEXA) scan, from the start of the study to Week 52. DEXA is a scan that measures bone density by passing high and low energy X-rays through the body.

Other key results measured in the study include:

- Number of participants with unwanted effects
- Changes in the rate at which bone structure is created and broken down
- Average number of new broken bones during the study
- Number of participants with new broken bones during the study
- Change in the time to rise from the floor in participants who can walk on their own
- How well the body processes satralizumab
- Number of participants who had their body's defense system respond to satralizumab.

5. Are there any risks or benefits in taking part in this study? Taking part in the study may or may not make participants feel better. But the information collected in the study can help other people with similar health conditions in the future.

The study involves some risks to the participant. These risks are generally not greater than those related to routine medical care or the natural progression of DMD. People interested in taking part will be informed about the risks and benefits, as well as any additional procedures or tests they may need to undergo. All details of the study will be described in an informed consent document. This includes information about possible effects and other options of treatment.

Risks associated with the study drug

Participants may have unwanted effects of the drug used in this study. These unwanted effects can be mild to severe, even life-threatening, and vary from person to person. During this study, participants will have regular check-ups to see if there are any unwanted effects.

Satralizumab Participants will be told about the known unwanted effects of satralizumab, and possible unwanted effects based on human and laboratory studies or knowledge of similar medicines. Known unwanted effects include decreased white blood cell count, headache, joint pain, difficulty sleeping or falling asleep, hay fever, itching, and migraine.

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Satralizumab will be given as an injection under the skin in the belly or thigh. Known unwanted effects of injection under the skin include irritation where the injection is given, such as swelling, rash, redness, itching or pain.