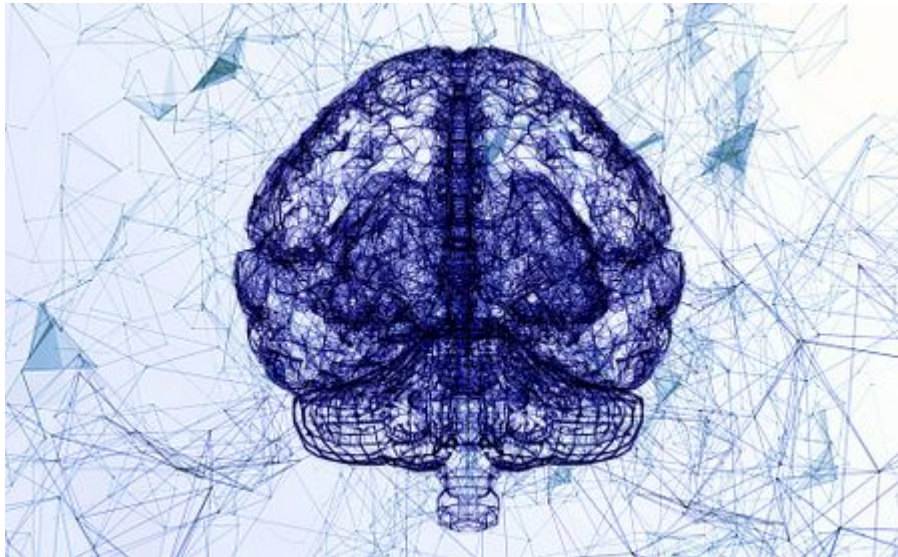


Phase 1/2 Trial of AMT-130 Gene Therapy Enrolling High-dose Group

[huntingtonsdiseasenews.com/2021/06/22/amt-130-unique-huntington-gene-therapy-phase-1-2-trial-enrolling-high-dose/](https://www.huntingtonsdiseasenews.com/2021/06/22/amt-130-unique-huntington-gene-therapy-phase-1-2-trial-enrolling-high-dose/)

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The first two patients have been enrolled in the high-dose group of a U.S. clinical trial testing the safety and efficacy of [AMT-130](#) as a potential gene therapy for [Huntington's disease](#).

“We are very pleased with the progress that we continue to make in this Phase 1/2 clinical trial and that we are now administering AMT-130 at the higher dose,” Ricardo Dolmetsch, PhD, president of research and development at [uniQure](#), the therapy’s developer, said in a [press release](#).

“We look forward to ongoing patient enrollment in the second cohort and to initiating clinical development of AMT-130 in Europe in the second half of this year,” Dolmetsch added. “We also remain on track to share initial imaging and biomarker [trial] data ... before the end of the year.”

Patient enrollment into this group followed an independent Data Safety Monitoring Board’s review of safety data concerning the [first low-dose](#) group of 10 patients. The Phase 1/2 trial [continues to enroll](#) participants at sites across the United States.

Seven patients in both dose groups to date have received the experimental treatment, given by injection into the brain, and five were given a sham surgery as a control group.

AMT-130 is a gene therapy that uses a short segment of RNA, called microRNA (miRNA), to prevent the disease-causing mutated huntingtin protein from being made. AMT-130 fixes to RNA that carries the instructions for the mutated huntingtin protein, marking that RNA for destruction.

In this way, AMT-130 targets Huntington's underlying cause, rather than treating its symptoms.

This five-year, proof-of-concept study ([NCT04120493](#)) primarily aims to compare the safety and efficacy of AMT-130 to a sham procedure in 26 adults, ages 25 to 65, with early stage Huntington's disease.

Other study aims include measuring how long AMT-130 remains in the body, changes in motor and cognitive function, and changes in various disease biomarkers, such as mutant huntingtin and neurofilament light chain.

The trial consists of a 12-month core period, followed by four years of follow-up visits.

Participants are divided into two groups: in the first group, six patients were assigned to a low dose of AMT-130 and four to an imitation (sham) surgery. Given as a single dose, AMT-130 is administered directly into the striatum — the area of the brain responsible for movement control — using a surgical procedure known as MRI-guided convection-enhanced delivery.

The second group will include 16 patients, with 10 randomly assigned to a high dose of AMT-130 and four to sham surgery.

After the core period, trial data will be unblinded and participants informed of whether they received AMT-130 or the sham procedure. Those given the sham procedure may then be eligible to receive AMT-130, pending a data review by the monitoring board.

uniQure's open-label Phase 1b/2 European study will enroll 15 early Huntington's patients, assigned to a low- or high-dose treatment group.

Depending on results of these two studies, which will help in determining the therapy's optimal dose, uniQure plans to move forward with either a Phase 3 trial, or a confirmatory study should an accelerated path to approval be possible.