**(0:00 – 0:05 Opening Scene**

(0:06 – 0:10) My name is Jack Hogan, I’m 13 years old, and I live in Fair Haven, New Jersey.

(0:11 – 0:16) I have trouble seeing at night, so probably around six o’clock I’ll go inside and I can’t see.

(0:17 – 0:24) Most patients with RP65 are legally blind by their twenties or thirties, and it gets very severe.

(0:25 – 0:35) This treatment is specific to this one gene, RP65, but the success of this has driven so much research and investment into gene therapies for other forms of disease.

(0:35 - 0:38) I feel like this is a real coming of age moment for gene therapy.

(0:39 – 0:44) Despite many years of optimizations and new clinical trials, this really works.

(0:45 – 0:50) It’s very clear that this is a safe, effective and amazing product.

(0:51 – 0:56) It’s FDA-approved, which means that we can give it to our patients, and now it’s part of medicine.

(0:56 – 0:58) Nobody can disagree that gene therapy is here.

(0:59 – 1:06) The surgery had a very simple goal, which was to take three drops of liquid with this virus in it and put it underneath Jack’s retina.

(1:06 – 1:07) There is some complexity to it.

(1:07 – 1:10) The way that it works, is that it’s basically like laparoscopic surgery.

(1:11 – 1:13) We put teeny little ports into the white part of the eye.

(1:14 – 1:16) We removed the vitreous gel that’s in the back of the eye.

(1:17 – 1:21) We removed some membranes that are on the surface of the retina that, specifically on the center of the retina, which is the macula.

(1:21 – 1:29) And then, through a tiny little cannula, the tip of which is the size of a human hair, we inject these three drops of liquid underneath the retina.

(1:30 – 1:38) Inside that drop of liquid are many billions of copies of this virus, and the job of the virus is- it’s very good at injecting DNA into cells.

(1:40 – 1:49) So, Jack lied on his back for six hours after the surgery while the liquid soaked in to the retina, and now that gene has been inserted into his retinal cells.

(1:50 – 1:56) I just hope that he’s included in things now, and that he’s able to have fun and enjoy life like the rest of the regular 13-year-olds.

(1:57 – 2:06) It’s a big milestone for gene therapy in general, to say that we have an approved drug that’s being given to patients and is safe and effective.

(2:07 – 2:11) It’s an amazing time for gene therapy.

**(2:12 – 2:18) Surgical Scenes**

**(2:19 – 2:23) Closing Scene**