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| <p>Shots of Stagg family</p>   | <p>FUNCTION AND ANOTHER THAT REGULATES MOOD AND EMOTION.<br/>WITHOUT IT, CHILDREN BORN WITH THIS DISORDER SUFFER SEVERE PHYSICAL AND DEVELOPMENTAL DISABILITIES AND REQUIRE ROUND-THE-CLOCK CARE. :23</p>   |
| <p><b>CG: Dr. Brad Elder</b><br/><b>Ohio State Wexner Medical Center</b></p>         | <p><i>“They sleep poorly, they have what are called oculogyric crises, which are akin to seizures. They have very poor motor control, very poor motor movements.” :11</i></p>                               |
| <p>Shots of researchers in lab</p>   | <p>BUT A NEW STUDY OFFERS HOPE FOR THESE PATIENTS AND POTENTIALLY FOR MANY OTHERS WITH GENETIC AND NEURODEGENERATIVE DISEASES.</p>  |
| <p>Shots of gene therapy surgery</p>   | <p>RESEARCHERS AT THE OHIO STATE UNIVERSITY WEXNER MEDICAL CENTER SUCCESSFULLY PERFORMED A GROUNDBREAKING GENE THERAPY SURGERY, INFUSING A BENIGN VIRUS PROGRAMMED WITH SPECIFIC D-N-A INTO</p>             |
| <p>Timelapse of MRI imaging during surgery</p>                                       | <p>TARGETED AREAS OF THE BRAIN, DELIVERED SLOWLY AS DOCTORS MONITOR ITS PROGRESS THROUGH REAL TIME M-R-I IMAGING. :22</p>   |
| <p><b>Dr. Elder (CG’d earlier)</b></p>   | <p><i>“Really what you’re doing is you’re introducing to the cell, a plan, a different code.” :07</i></p>   |
| <p>Shots of gene therapy surgery</p>   | <p>IN THE STUDY, THOSE PAINFUL, SLEEPLESS NIGHTS THAT PLAGUE KIDS WITH A-A-D-C DEFICIENCY, DISAPPEAR. :07</p>   |
| <p><b>CG: Dr. Krystof Bankiewicz</b><br/><b>Ohio State Wexner Medical Center</b></p> | <p><i>“This is the first thing we see that goes away completely, remarkably within a few weeks of the gene therapy. It never comes back.” :07</i></p>   |
| <p>Video of study participants’ milestones</p>                                       | <p>AND IN THE MONTHS THAT FOLLOWED, SEVERAL PATIENTS WERE ABLE TO SIT UP, FEED THEMSELVES, OR EVEN WALK – UNPRECEDENTED IMPROVEMENTS AMONG CHILDREN WITH THIS DISORDER. :07</p> <p>(nats of family) :01</p> |
| <p>Shots of Stagg family</p>   | <p>FOR JAMELL, IT COULD MEAN A FUTURE HIS PARENTS HAVE DREAMED FOR HIM. :05</p>   |
| <p><b>CG: Jamell Stagg</b><br/><b>Child has rare genetic disorder</b></p>            | <p><i>“Just to be able to see him actually pick up a toy or something, is going to be nothing but joy.” :05</i></p>   |
| <p>Shots of Stagg family</p>   | <p>AT THE OHIO STATE WEXNER MEDICAL CENTER, THIS IS BARB CONSIGLIO REPORTING. :03</p>   |
| <p><b>(PACKAGE END) -----</b><br/><b>ANCHOR TAG</b></p>                              | <p>RESEARCHERS BELIEVE THIS SAME METHOD OF TREATING KIDS WITH A-A-D-C DEFICIENCY CAN BE</p>   |

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| <p><b>CG: Dr. Brad Elder</b><br/>Ohio State Wexner Medical Center</p> | <p>time:<br/> <i>“Over a long period of time, one year, two year, three years, some of these children have not only regained the ability to just sit or sleep through the night or stop having oculogyric crisis, which all the kids have made those accomplishments, but to be able to walk and feed themselves.” :21</i></p> <p>Elder explains why precise MRI mapping is so important:<br/> <i>“Whichever area of the brain you're targeting, you have to have a clean pathway to get there. And there's structures, of course, that are pretty common sense that you can't violate. And blood vessels are a big one, because that would cause bleeding and the ventricles.” :14</i></p>   |
| <p><b>CG: Shante Stagg</b><br/>Child has rare genetic disorder</p>    | <p>Shante says seeing her son do normal things will be amazing:<br/> <i>“We get to see kids his age doing, typically children doing typical things and it's like, if only he could do those things. And I know that when he gets to, and if he gets to, it's just going to... I don't know, I don't feel like I have a word to explain how I would feel.” :20</i></p> <p>Shante explains how they finally got an accurate diagnosis:<br/> <i>“His neurologist actually one day was like, ‘You know, I've been researching. I think I know what this is. It's super rare. There's only 130 kids in the entire world that have it. So we're going to test him for it.’ And it was an easy test. It was a blood draw and that's what it came out to be.” :16</i></p> |
| <p><b>CG: Jamell Stagg</b><br/>Child has rare genetic disorder</p>    | <p>Jamell says the surgery went well and hopes are high:<br/> <i>“Surgery went really smooth and they got good coverage in the two spots that they were targeting and they believe that they have high hopes for him.” :11</i></p> <p>Jamell says he leaned on his faith as his child had surgery:<br/> <i>“I just put all my faith in God and just kind of prayed and had my church group pray, had my close family members pray and me and her shed tears and we're just like, we're handing our child over not only to a doctor, but it's in God's hands and we kind of just leaned on that.” :18</i></p>  |

### References

<sup>1</sup>Gene therapy for aromatic L-amino acid decarboxylase deficiency by MR-guided direct delivery of AAV2-AADC to midbrain dopaminergic neurons, **Nature Communications**, 12th July 2021.  
 Online: <http://dx.doi.org/>

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