

MEDICAL MIRACLES:
Pathways to Hope

VERSION A

3/31/06

TIMED.....TO 28:26

Medical Miracles: Pathways to Hope
 VERSION A
 3-31-06

VIDEO

AUDIO

	VIDEO	AUDIO	
	SEGMENT 1	SEGMENT 1	
1	Graphic: CCF Disclaimer	(ANNOUNCER'S VOICE) The following program is sponsored by the Cleveland Clinic.	:10
2	<i>OPENING MONTAGE</i> <i>GRAPHICS</i>	<i>MUSIC UP</i>	:06
3	MRIs/artistic "electric" look	(MONICA'S VOICE) When our body's circuitry fails...	
4	Kathy on camera	Kathy: "This was my worst nightmare..."	
5	Corey on camera	Corey: "I thought my arm was actually cut off because I couldn't feel anything in my arm."	
6	MRIs/hands/feet	(MONICA'S VOICE) And our brain struggles to make connections...	
7	Kelly on camera	Kelly: "I don't want anyone to have to go through what I experienced. It's hard."	
8	Shots of doctors in and out of surgery.	(MONICA'S VOICE) It's good to know that there are physicians and surgeons who can reconnect our lives.	
9	Anna on camera	Anna: "It's good to see that he is actually coming along. And I know its more than the doctors expected."	

10	The three patients doing everyday things.	(MONICA’S VOICE) And put us back on the pathway to hope.		
11	Tom on camera	TOM: “The recovery has been a miracle I have no doubt about it.”		
12		MUSIC SWELLS (TITLE)	:05	:46
13	Monica on camera, outdoors. Super: Monica Robins WKYC Health Anchor	(MONICA ON CAMERA) Hello, I’m Monica Robins, welcome to another addition of Medical Miracles. Today we will explore the connection between our brain and our body. We will explore the complicated highway inside each of us and meet patients whose lives were detoured because their neurological system crashed. We will witness determination as they, with the help of dedicated doctors, put their lives back on track..	:22	
14		MUSIC BREAK....	:02	
15	Kathy on camera Super: Kathy Supan Jamie’s Mom	Kathy Supan: “People knew her as being the “jock”. You know, she has always been basketball girl.”		
16	Stills of Jamie (similar to ESPN style sports story)	(MONICA’S VOICE) Jamie Supan was driven by her passion for basketball. In front of her was a promising future playing for Kenston High School. But that all change on the first day of school of her sophomore year.		
17	Shot of art demonstration Chair moves...suddenly...	Kathy Supan: “She was standing up. They’re standing around a table watching the art teacher demonstrate something and she just blacked out...”		

- 18 Tom on camera
Super:
Tom Supan
Jamie's Dad
Tom Supan: "She banged her head pretty hard on the floor and she, she passed out briefly."
- 19 Erin on camera
Super:
Erin Slattery
Jamie's friend
Erin: "Someone asked me on the way to the class asked me if Jamie had passed out. I thought it was a joke."
- 20 Ambulance driving away

Heart monitor
(MONICA'S VOICE)
Jamie went to the local hospital and was given a battery of tests but appeared to be fine.
- 21 Kathy on camera
Kathy: "She was more embarrassed than anything."
- 22 Tom on camera
TOM: "What we didn't know at the time was that one when she fell she tore her vertebral artery..."
- 23 MRIs/other graphics

Pictures

Basketball court

Basketball bounces, rolls away.
(MONICA'S VOICE)
The tear in her vertebral artery began to heal but a clot formed. Five weeks after Jamie's fall...Just before basketball practice...the clot broke loose and headed for the main artery of her brain causing a stroke.
- 24 Dr. Friedman on camera:

Super:
Neil Friedman, MB.ChB.
Pediatric Neurologist
DR. FRIEDMAN: "In Jamie's case I don't believe there were any warning signs, prior to the onset of stroke. Other than the fact that she had some mild headache for a few days prior to the onset of the stroke. When the headache became more severe."
- 35 Pictures

Monitoring equipment
(MONICA'S VOICE)
The stroke was devastating. Jamie lost consciousness and the ability to move.

- 36 Dr. Friedman points out various places on an MRI scan. **DR. FRIEDMAN: “The first scan was done a month before the stroke, in this area, called the ponds, looks absolutely fine. As a consequence of her stroke she has lost all this tissue, instead of it being black and healthy, it is now scarred and dead.”**
- 37 Dr. Friedman on camera **DR. FRIEDMAN: “I was very, very worried. Given the extent and the location of the stroke that Jamie had had...based on past experience, I was very worried that recovery would be incomplete and the fact that she had a significant chance of dying.”**
- 38 Monitors and equipment (MONICA’S VOICE)
Dr. Friedman immediately began a treatment for Jamie that included lowering her body temperature and inducing a coma.
- 39 Dr. Friedman on camera **DR. FRIEDMAN: “The idea of hypothermia or reducing the body temperature is to also reduce the brain temperature, and what it is able to reduce the brain’s temperature you reduced metabolism and the need for the brain for oxygen and for energy. IN the hopes that we can supply less blood to the critical areas that were needed. And then maybe salvage or saved from the stroke.”** CA
- 40 Kathy on camera **KATHY: “They started lifting her out of the coma, you know and they let her temperature come back up and they started warming her. She just didn’t come back. That’s, you know, when it really started getting...it got very scary for us.”**

- 41 Pictures (MONICA'S VOICE)
Equipment Jamie regained consciousness and was fully aware, but her body did not respond. She could not move. It is a condition called "locked-in" syndrome.
Eyeball looking up
- 42 Kathy on camera **KATHY: "That was awful moment. We just, I felt like I could not breathe. It was awful."**
- 43 Dr. Friedman on camera **DR. FRIEDMAN: "I think Jamie's stroke is probably one of the most devastating sorts of strokes that we see. Unfortunately, we are still continuing to see strokes that take the lives of children. And is always heartbreaking even though we know there is a significant underlying cause for it. We take a young healthy woman like Jamie, with a life ahead of her to have such a devastating stroke, that's pretty tough to see."**
- 44 Pictures (MONICA'S VOICE)
As the word spread of Jamie's condition, her friends rallied. They wanted to go to their teammates bedside.
- 45 Kathy on camera **KATHY: "After a couple of days, we started to let her friends come into the ICU. And that was amazing...."**
- 46 Erin on camera **ERIN: "As soon as we walked in her heart rate went up. The monitor kept beating because that what happens. So we know that she knew that we were there. And that she was excited."**
- 47 Kathy on camera **KATHY: "I was out in the waiting room, when they came out and said you have to come into the room and see this."**

- 48 Erin on camera
ERIN: “Somebody asked her, like, are you excited that Erin and Jess are here? And if you are look up. And she actually responded and looked up, so it was exciting.”
- 49 Kathy on camera
Kathy: “So when you see that there is a connection there, how can you give up? You know?”
- 50 Pictures
(MONICA’S VOICE)
Jamie’s response to her friends gave everyone hope. Including Jamie.
- 51 Jamie Supan on camera
Includes sub-titles
Super:
Jamie Supan
Jamie: “It gave me a feeling, that like, I wasn’t just like, a useless cause.”
- 52 Tom on camera
Tom: “And from that point on it felt like that day she was getting a return of some function in her leg, then her other leg, and in her arm and so we were seeing a little bit and it really gave us hope of something.”
- 53 Pictures of students
Pictures of rehab
(MONICA’S VOICE)
Jamie’s friends and family began a campaign encouraging Jamie to get back on her feet. The Cleveland Clinic’s Children’s Rehabilitation Center worked non-stop on Jamie. And Jamie enjoyed the challenge.
- 54 Jamie on camera
Includes subtitles
Jamie: “I like being pushed because I think that I, I like to make people very proud of me...”
- 55 Pictures of rehab with friends
(MONICA’S VOICE)
Jamie’s friends turned the rehab sessions into an intense workout for the former basketball player.

- 56 Kathy on camera
KATHY: “They would come to the therapy sessions and they were all standing at the end of the parallel bars like cheering and yelling. And Jamie would just, you could see her at the other end of the parallel bars, like, just, oh she could tell she was working so hard, and she would look up and just smile.”
- 57 Dr. Friedman on camera
DR. FRIEDMAN: “Children have an innocence about them. They are motivated, they are, they want to get better so what you see a stroke of a young child the tremendous recovery that they make partly has to do with the fact that they are not inhibited, they want to recover, they want to play, they want to get better and it is just a wonderful thing to see.”
- 58 Pictures of fundraisers
Jamie’s progress
(MONICA’S VOICE)
Jamie continued to improve and was not forgotten by her teammates. Her friends organized fundraisers in her name and continued to encourage Jamie in every way they could.
- 59 Dr. Friedman on camera
DR. FRIEDMAN: “I think Jamie illustrates the case that strokes do happen to children. Something that is not altogether familiar to most people. And that also includes some of the medical faculty as well. They are not aware that strokes occur in children. In fact, may occur in newborn babies as well.”
- 60 Katie Stover on camera
Super:
Katie Stover
Jamie’s friend
KATIE: “It is just a scary thought that it could happen to someone who’s not your grandma. It is your friend.”

- 61 Jamie at basketball game (MONICA'S VOICE)
Jamie has returned to the basketball team, as the team photographer. And although watching the games is bittersweet, her courage is always an example for her teammates.
- 62 Erin on camera
Pictures **ERIN: "I would just describe her as the most courageous person I've ever met. Definitely. She has overcome so many things that some of us will never face in a lifetime."**
- 63 Video of awards banquet (MONICA'S VOICE)
Her courage was recognized by the Cleveland Clinic, at the annual Greater Cleveland Sports awards.
- 64 Jamie goes up on stage - Nat sound -
- 65 Jamie starts to read...
She breaks down and cries...
Her mother takes speech
And begins to read it **KATHY: "I just stayed at the bottom of the stage and she went up there. She was just so overwhelmed by the standing ovation that she just broke down and cried, she could not do it so she just looked at me, like help. And so I grabbed the speech and read it for her. And it was very touching."**
- 66 Kathy reads speech from podium.
Jamie is behind her crying. **KATHY (reading the speech at awards banquet): ...It is such an honor to be considered for this award, let alone win it. Although I cannot take full credit for it all, I have amazing friends and family behind me. Not to mention the wonderful staff at the Cleveland Clinic Children's Rehabilitation Hospital. A big part of my success should go to my grandmother, who was, and is still the biggest motivational factor of my recovery. Lastly I would like to thank God, he truly does work miracles. Thank you."**
- Applause -

67		MUSIC OUT	:05
68		BUMP UP:	:02
69	Various shots of Kelly	(MONICA'S VOICE) Coming up... How much memory would you be willing to lose to stop epileptic seizures?	
	Corey in uniform...	And later: An insurgent's bomb ripped through his shoulder. Surgery rearms this soldier for life.	
	Surgery		
70		FADE OUT	:03
71		CCF COMMERCIAL	:30
		SEGMENT TIME:	9:35
72	COMMERICAL BREAK #1	COMMERCIAL BREAK #1	1:02
		RUNNING TIME	10:37
73	OPEN BUMP	FADE UP: OPEN BUMP	:06
74	Monica on camera, outdoors.	MONICA ON CAMERA: Epilepsy imprisons people. Patients with epilepsy cannot drive, swim, or perform what we would think are routine activities because an unexpected seizure could jeopardize their life or the lives of others. Brain surgery is an option but how much memory would you give up, to be free of epilepsy? Ten years ago, epilepsy surgery may cost a patient 30% of their memory. Today, surgeons are finding a way to keep memories in tact.	:27
	Super: Monica Robins WKYC Health Anchor		

- 75 Kelly Labby on camera
Super:
Kelly Labby
Pictures/ashes: to demonstrate aura.
Kelly Labby: “I would be sitting somewhere and my eyes would close and then, psh, psh, psh, psh, in my mind something would pass very quickly and it was something would pass very quickly...”
- 76 Pictures of Kelly
(MONICA’S VOICE)
Kelly Labby was experiencing deja-vu caused by an “aura”. Auras are the signal that a epileptic seizure is about to occur.
- 77 Dr. Najm on camera
Super:
Imad Najm, M.D.
Neurologist
DR. NAJM: “What is it due to? It is one area of the brain that typically starts to fire on its own, but without any loss of consciousness.”
- 78 Pictures of Kelly
(MONICA’S VOICE)
Kelly was in law school in 1997, when she was diagnosed with a brain tumor that had been growing for years. The tumor was removed but she became affected by epilepsy ever since.
- 79 Dr. Bingaman on camera
Super:
William Bingaman, M.D.
Neurosurgeon
DR. BINGAMAN: “Epilepsy is a chronic condition of recurrent seizures, people that may be going about their normal life and all of a sudden they do things they can’t control.”
- 80 Pictures of Kelly
(MONICA’S VOICE)
Kelly worked hard to become an attorney and was now an Assistant United States Attorney. Despite her professional success, her epilepsy overshadowed her life.

- 81 Kelly on camera...
Shot of lake...
Shot of bathtub filling...
Kelly on camera...
- Kelly: “Because you can constantly be thinking...Am I going to be having a seizure? Could I have a seizure there? Should I go into the water? In the lake today? Is that a good idea? I really want to take a bath tonight. But maybe I shouldn’t? In every way, it can affect your life.”**
- 82 Kelly’s Mom on camera
Super:
Debbie Meder
Kelly’s Mom
- Kelly’s Mom: “I think it not only imprisons people, but it sets you up for living a life of fear. Because you never know when it is going to happen.”**
- 83 Kelly pictures
Dr. Najm in clinic
- (MONICA’S VOICE)
Kelly’s epilepsy medications were becoming less and less effective, so she decided to investigate surgical options. She went to the Cleveland Clinic and met with neurologist Imad Najm. He gave her hope.
- 84 Dr. Najm on camera
- DR. NAJM: “We can never be 100 percent sure, that a particular patient who became seizure free, after surgery, would remain seizure free, but the chances that she would remain seizure free is anywhere between 70 and 80 percent.”** CA
- 85 Dr. Najm in clinic
Monitoring equipment
- (MONICA’S VOICE)
Dr. Najm referred Kelly to neuropsychologist, Richard Naugle, who tested Kelly to determine the potential outcome of her memory after surgery.
- 86 Dr. Naugle on camera
Super
Richard Naugle, Ph.D.
Neuropsychologist
- DR. NAUGLE: “We try to see all of the patients that go onto surgery. With the goal of figuring out how well their brains are functioning.”**

- 87 Various tests... (MONICA'S VOICE) :17
 MRI scans Dr. Naugle put Kelly through various tests. Her verbal and visual memory is tested in a series of puzzles, quizzes and tasks. Dr. Naugle found that Kelly's brain is functioning at an excellent level. However, it is determined that the seizure's origin is in her left temporal lobe. The area where memory is stored. Traditional surgery would greatly affect her memory.
- 88 Kelly on camera **KELLY: "I have a masters degree, a doctorate, and a bachelors. Why put in all that time, to lose 30% of your memory."** :03
- 89 Dr. Bingaman on camera **DR. BINGAMAN: "We were worried that if we removed her left temporal lobe, specifically that structure called the hypo campus that she would have an unacceptable memory deficit that would make her ability to work, in her career, untenable."**
- 90 Kelly's Step-Dad on camera **KELLY'S STEP DAD: "The doctors were very good at voicing what the potential risks were, as well as, the potential benefits."**
 Super:
 Rick Meder
 Kelly's Step-father
- 91 Group session (MONICA'S VOICE)
 Doctors Najm, Naugle and Bingaman confer with the other members of the neurology department and decide further testing will allow a pinpoint location of the seizure origin. They decide to place electrodes directly on the brain and find the source.

- 92 Kelly's brother on camera:
Super:
Kevin Labby
Kelly's brother
- KELLY'S BROTHER: "I thought two things really. Number one, I was surprised how well she was doing. She looked very comfortable, she was even laughing a little bit. Number two, I thought man I am very, very thankful, that if this was Kelly's "lot in life", so to speak, how blessed we were to be in the proximity of a place like that."**
- 93 Pictures of Kelly with electrodes
- (MONICA'S VOICE)
The electrodes did their job.
- 94 Dr. Najm on camera
- DR. NAJM: "What we found out to our delight, that Kelly's seizures are not coming from the hypo campus, they were coming just maybe a quarter of an inch in front of the hypo campus."**
- 95 Kelly on camera
- KELLY: "Amazingly accurate in what they did, so thorough that they actually found three points, three focal point for me, unbelievable."**
- 96 Dr. Bingaman in surgery
- (MONICA'S VOICE)
Dr. Bingaman was able to surgically remove the three areas of Kelly's left temporal lobe without affecting the hypo campus, the memory formation center of her brain.
- 97 Dr. Naugle on camera
- DR. NAUGLE: "Clearly the surgeon is definitely changing people's lives."**
- 98 Dr. Bingaman on camera
- DR. BINGAMAN: "You are restoring people back to a normal way, a more normal way of life. And so that is very rewarding."**
- 99 Dr. Najm on camera
- DR. NAJM: "I enjoy seeing patients like Kelly coming back or calling and telling us I have my life back. I'm independent, I am enjoying my life."**

100	Kelly on camera Kelly walking around courthouse	KELLY: "I'm back at work, and I love it." CUT TO: "And I'm just very grateful for what they did. I just had an incredible experience there, and great medical care, something that was unparalleled."	:03
101		DIP TO BLACK	:03
102		CLOSING BUMP UP:	:02
103		(MONICA'S VOICE) Next: Saving a soldier's arm.	
104	FADE OUT:	FADE OUT:	:03 (5:42)
105	CCF COMMERCIAL	CCF COMMERCIAL	:30
		SEGMENT TIME:	6:11
106	COMMERCIAL BREAK #2	COMMERCIAL BREAK #2	1:02
		RUNNING TIME:	17:50
107	SEGMENT THREE TITLE GRAPHIC	SEGMENT THREE MUSIC	:06
108	MONICA walking near military equipment. Super: Monica Robins WKYC-TV Heath Anchor	(MONICA ON CAMERA) Combat injuries test the skills of surgeons and neurologists. The traumatic and powerful result of a bomb changes lives in an instant. Getting life back to normal is a battle of its own.	:12
109		MUSIC UP	
110	Pictures of Corey in Iraq	(MONICA'S VOICE) Iraq... September 2004. His name is Corey Carter. Tech Sergeant with the Air National Guard of Ohio. Guarding civilian convoys is his mission.	

- 111 Corey on camera
Super:
Tech Sgt. Corey Carter
- COREY: “I volunteered because the rest of us volunteered. But we were kind of were in the state where it was either you volunteered or you get put on the list to be volunteered.”**
- 112 Pictures of Corey in Iraq
- (MONICA’S VOICE)
Corey was bench-pressing 305 pounds and in the best shape of his life. A picture home earned him a new nickname from his wife, Anna.
- 113 Anna on camera
Super:
Anna Carter
Corey’s wife
- ANNA: “...he’s just sitting there and his chest is like, boof, he-man, and so we just call him Johnny Bravo. Because it was just like, wow. Where did this come from.”**
- 114 Pictures of Corey in Iraq
- (MONICA’S VOICE)
Corey was one month from going home with the rest of his unit, when they received, what appeared to be a simple assignment. They were to transport their Captain to a change of command ceremony.
- 115 Corey on camera
- COREY: “The Intel was good. Everything seemed all right. I sort of had a bad feeling, in my stomach that something was going to go on.”** :04
- 116 Pictures of Corey in Iraq
- (MONICA’S VOICE)
Corey’s convoy drove nearly two hours to its destination. They were almost there...
- 117 Pictures of Corey in Iraq
Mixed with Corey on camera.
- COREY: “Basically, we pulled ahead and stopped the traffic. I did my sweep across the road and up the street people were starting to slow down.”**
(cut to)
COREY: “And then I looked over in the little town that was right there by the side, the road we are on, there was

Mix of pictures/music
And Corey

Shrapnel piece

Corey on camera

Corey on camera

Pictures/sun/effects

a high amount of people watching in our direction. Right when I noticed that, it clicked inside me that something was going to happen. And right as I turned, a car exploded right in front of us.”

(cut to)

“The explosion knocked me off my feet...A piece of metal hit me in the shoulder.”

(cut to)

“I couldn’t use my left arm. I was trying to use my elbows, to push myself off my back, so I could sit up and get back up on my feet and I realized that I couldn’t do that.”

(cut to)

I looked over at my left arm and it basically laying beside me.”

(cut to)

“I started screaming for help and then there was some gunfire going on out there to...”

(cut to)

“When I looked over at my arm, you know you are sitting there telling yourself, going, looking at your arm, saying “move, move”. Telling your fingers, “move, move your hand, move something.” And it is not moving. And that’s when it really set deep into me, I’m like oh wow, something going wrong. I thought my arm was actually cut because I couldn’t feel anything in my arm.”

(cut to)

“I actually felt like I was dying at one point. I looked up at the sky and I got like, tunnel vision....”

(cut to)

“Tell my wife and kids that I love them...”

(cut to)

“I was going to die.”

(cut to)

“I just felt my body losing, just the

- Flash...back to
Shots of corey
- 118 Shots of helicopter
- 119 Dr. Tsao on camera
Super:
Bryan Tsao, M.D.
Neurologist
- Corey arriving home at base.
- 120 Corey and Anna at base
- 121 Anna on camera
- 122 Pictures of Corey

Dr. Tsao and Dr. Boulis
Looking at MRIs
- strength, losing grip.”**
(cut to)
“This kind of tunnel vision, like to a real peak and then kind of went whoosh and its kind of like a flashback.”
- (cut to)**
“They loaded me into the helicopter and flew me into the base. And they started surgery on me, basically, I was the next one to go into the OR.”
- DR. TSAO: “And as commonly happens with those types of injuries, you have a lot of blood vessels, soft tissue injuries as well as nerve injuries. But the blood vessel repair takes priority in the case. So he had the blood vessel repaired, was stabilized and was sent to Germany and then was shipped back to Wright-Patterson Air Force base.”**
- (MONICA’S VOICE)**
Corey returned home to be greeted by Anna.
- ANNA: “When I heard I was kind of, I was kind of like, numb. You think oh my god, I’m going to break down and cry. But it is amazing how you just react differently than what you think.”**
- (MONICA’S VOICE)**
Corey was determined to get the use of his arm back. He traveled to the Cleveland Clinic and met with neurologist Dr. Tsao and neurosurgeon Dr. Boulis. They head the peripheral nerve program and they took on Corey’s complicated case. Their goal was to restore movement in Corey’s left arm.

- 123 Dr. Tsao on camera **DR. TSAO: “He was moving so little of the muscles in his arm, and I thought that he would have near complete paralysis of most of the muscles of his arm.”**
- 124 Dr. Boulis on camera **DR. BOULIS: “Both the shrapnel** CA
 Super:
 Nicholas Boulis, M.D.
 Neurosurgeon **itself, the shockwave, that it brought with it, just the, the force and power that was imparted to all of that tissue, creates a sort of shockwave that goes through the tissue and damages structures like axons and creates increased scar tissue.”**
- 125 Monica on camera: **(MONICA ON CAMERA)** :21
 Near a road...with a roadmap. **Corey’s problem is like a complicated wire, transporting information and electricity that stretches from Chicago to Los Angeles. The wire has been cut, somewhere in Denver. Finding the exact point of the break is difficult. Now that the nerve is broken the flow of nutrients, information and electricity stops. Without repair the damage is permanent.**
- 126 Dr. Tsao on camera **DR. TSAO: “Our initial discussion involved determining that at least one of his nerves wasn’t working whatsoever and that is the nerve that flexes your arm up. So, if you are going to raise your hand up toward your face.”**
(cut to)
“And so the question boiled down to, is how long should he have to wait before considering surgical exploration. In the area of the brachial plexus.”

- 127 Dr. Boulis and Dr. Tsao discussing the case. (MONICA'S VOICE)
Dr Boulis wanted to give the nerve a chance to regenerate as much as it could on its own. He considers three months after the injury to be the optimal time for surgery.
- 128 Dr. Boulis in surgery (MONICA'S VOICE)
Now, the difficult work begins. The first step: Freeing the nerves from the surrounding scar tissue.
- 129 Dr. Boulis on camera, Mixed with surgery video. **DR. BOULIS: "As you are trying to cut through the scar tissue you have to be very careful that you don't cut into the artery. (cut to) And that is a very painstaking long process to be very careful as you separate the nerves in the scar tissue from the artery."**
- 130 More surgery video (MONICA'S VOICE)
Next: Identify the parts that were totally disconnected and reconnect them.
- 131 More surgery video, showing the attachment of the nerve graft. (MONICA'S VOICE)
Dr. Boulis reconnected the nerves by taking a large undamaged nerve from the outside of Corey's leg. He used that nerve to plug the gap caused by the shrapnel wound.
- 132 Dr. Boulis on camera **DR. BOULIS: "The fact that it was a complex injury very high up, in the conducting system. Work against him. But the fact that he is young, he's healthy, he's motivated. Those things that help him out."** ^{ca}
- 133 Corey on camera **COREY: "I am going to get it back. I'm going to get my arm back."**
- 134 Jamie with kids playing football. (NAT SOUND)

135	Jamie playing with kids.	COREY: “I’m looking forward to get, not a full, full recovery but to recover enough to where I can get on with my life. And just basically, do some of things I used to do.”	
136	Dr. Tsao and Dr. Boulis looking at MRIs.	(MONICA’S VOICE) Corey’s case gave Dr. Boulis and Dr. Tsao a unique sense of purpose.	
137	Dr. Tsao on camera	DR. TSAO: “When you’re dealing with individuals who have voluntarily put themselves in a position to serve the country that we have tremendous respect for that.”	
138	Dr. Boulis on camera	DR. BOULIS: “These individuals are bearing an enormous disproportionate part of the burden of, what is a collective decision. So, it is an honor to be able to help out.”	ca
139		- MUSIC UP -	
140		COREY: “You think life is tough, as far as living, you think you can live through anything. You don’t realize you are really fragile. You are not a superhero or anything like that. It’s really opened my eyes up.”	:04
141		MUSIC UP FULL:	:02
142		DIP TO BLACK:	:03
		DIP TO BLACK:	:03 (7:18)
143		CCF COMMERCIAL	:30
		SEGMENT TIME:	7:47
144	COMMERCIAL BREAK #3	COMMERCIAL BREAK #3	1:02
		RUNNING TIME:	26:39

	SEGMENT FOUR	SEGMENT FOUR	
145	TITLE GRAPHIC	MUSIC	:06
146	Monica in park, walking down path. Super: Monica Robins WKYC Health Anchor	(MONICA ON CAMERA) The patients we have witnessed today have found that there is hope along the road to recovery. Through research, the future may take us down a path where the struggles of patients like Jaime, Corey and Kelly are nothing more than memories.	:13
147	Dr. Friedman on camera Super: Neil Friedman, MB.ChB. Pediatric Neurologist Shots of Jamie	DR. FRIEDMAN: “I think that the primary preventive trials for children with stroke, as well as secondary prevention of recurrence of stroke, is really where the mainstay of stroke therapy in research is likely to be in children.”	
148	Dr. Boulis on camera Super: Nicholas Boulis, M.D. Neurosurgeon Shots of laboratory	DR. BOULIS: “We actually design and construct viruses in the laboratory, to deliver the genes for the molecules that enhance growth and regeneration. And we are trying to apply that both to peripheral nerve injuries, as well as Lou Gehrig’s disease which is another problem that affects, sort of the connection of the nervous system to muscle.”	
149	Dr. Bingaman on camera Shots of brain MRIs Laboratory shots	DR. BINGAMAN: “Surgical research, is looking at how do we stop seizures without moving a part of the brain? Can we stimulate the brain to stop it? Can we inject medications into the brain to stop it? Can we cool the brain and stop seizures? We’ve got the time and the effort and many, many scientists working on it to figure it out.”	

150	Shots of the three patients, friends and families	(MONICA'S VOICE) And while science finds answers to heal lives, some of the best medicine comes from the advice of those who have gone down the pathway of hope.	
151	Various Jamie shots showing the progression of her recovery.	Tom Supan: "She could have easily lost her life and it has affected her functioning. And I think it is a reminder that we can't take anything lightly. I can't imagine this is less than anything than a miracle, what has happened here."	
141		FADE TO BLACK	:03
142		FADE UP TO GRAPHIC	
143	<u>GRAPHIC</u> www.wkyc.com Call 866-819-8326	(MONICA'S VOICE): If you'd like more information log onto wkyc.com or call 866-819-8326.	
144	CREDITS CRAWL: For more information: LOG ONTO WKYC.COM...or call toll free 866-819-8326	MUSIC/CREDITS	:20
145	FADE TO BLACK	FADE TO BLACK	:05
		SEGMENT TIME:	1:47
		RUNNING TIME:	28:26