

<p style="text-align: center;">Hypothermic Intervention LMHS - HNN Estimated run time: 8 mn.</p>	
<p>FADE IN:</p>	
<p>Dramatic Close up of Ice There's a faint, cold metal hum VO</p>	<p>ICE, THE CRYSTALLINE SOLID FORM OF WATER. DOCTORS AT LEE MEMORIAL HEALTH SYSTEMS BELIEVE THAT ITS CHILL HAS THE POWER TO HEAL AND PROTECT.</p>
<p>A wisp of vapor skims the ice. VO</p>	<p>NEAR FREEZING TEMPERATURES ARE BEING EMPLOYED TO HELP HEART ATTACK PATIENTS WHO FALL INTO A COMA MAINTIAN THEIR BRAIN FUNCTION .</p>
<p>SOT</p>	<p>CG: Nora Edgley//Heart Attack & Coma victim)) 4314 "I couldn't understand it, because cold, brrr. I mean if it's 60 here, i'm cold, but it was definitely the thing they did must have kept me sane. 4333</p>
<p>VO</p>	<p>ALTHOUGH THE USE OF COLD TEMPERATURES TO TREAT TRAUMA HAS BEEN AROUND FOR CENTURIES, DOCTORS ARE NOW ABLE TO HARNESS THE POWER OF NEAR FREEZING TEMPERATURES UNLIKE EVER BEFORE.</p>
<p>SOT</p>	<p>((CG: Dr. Sunil Pammi//Pulmonary Critical Care Physician))4120-4132 "There's a lot of data to prove that this is something that's going to help people get better. more importantly, salvage their neurological status// 4505-4510 We get better neurological outcomes when we use the hypothermia."</p>

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<p>VO</p> <p>Stylized "Innovation" animated introduction.</p>	<p>THIS IS HYPOTHERMIC INTERVENTION...THIS IS INNOVATION AT LEE MEMORIAL HEALTH SYSTEM.</p>
<p>FADE IN:</p>	
<p>Nora strolls by the lake on a Sunny Day. VO</p>	<p>NORA EDGELY MOVED TO SUNNY FLORIDA FROM ENGLAND TO ESCAPE COLD WEATHER. IRONICALLY, COLD IS WHAT WOULD HELP SAVE HER WHEN SHE ENDED UP IN A COMA AFTER HAVING A HEART ATTACK.</p>
<p>Dissolve to generic monitor with blips. "Beep, beep" . Dissolve to:</p>	
<p>SOT</p>	<p>((CG=Jacqueline Brahm//Daughter)) 5612-5636 "The doctors would talk to me about odds for normal life and that if she'd come around, there would not be much hope of mental capacity. Of course, she was on tubes, the machine was making her heart beat, and was feeding her. and she just wasn't waking up."</p>
<p>SOT</p>	<p>((CG= Dr. Kenneth Tolep/Pulmonary Specialist)) 2705-2713 "She was completely unresponsive and in fact, the initial Doctors who saw her thought that the initial chances of her waking up were very slim."</p>
<p>Dissolve to generic monitor with blips. "Beep, beep" . Dissolve to:</p>	

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<p>TALENT ON CAM</p>	<p>“THE LONGER EDGELY STAYED IN A COMA, THE MORE LIKELY IT BECAME THAT SHE WOULD SUFFER SOME KIND OF BRAIN DAMAGE IF AND WHEN SHE WOKE UP. EDGELY'S FAMILY AND DOCTORS DECIDED TO TRY A HYPOTHERMIC INTERVENTION. THEY WOULD KEEP EDGELY'S BODY COOLED DOWN JUST A FEW DEGREES ABOVE FREEZING. THE GOAL WOULD BE TO SAVE HER BRAIN UNTIL SHE WOKE UP AND THEY COULD OPERATE ON HER HEART.</p>
<p>SOT</p>	<p>1250-1257"it was like a double header. the heart attack they can't fix until she comes out of the coma, but she wasn't coming out of the coma."</p>
<p>NATS OF ICE BEING SCOOPED.</p>	
<p>VO Tight shots of ice bagts being placed. Saline bags.</p>	<p>DOCTORS PACKED ICE INTO EDGELY'S ARM PITS, AND HER GROIN; THEY INJECTED HER WITH COLD SALINE SOLUTION.</p>
<p>Long shot of staff outside of ICU room</p>	<p>PATIENTS WHO UNDERGO THE HYPOTHERMIC INTERVENTION TREATMENT ARE ALSO ADMINISTERED A COCKTAIL OF DRUGS...DR. TOLEP DEMONSTRATES ON A MODEL...</p>
<p>SOT</p>	<p>"0308we're using sedative medications// 0325-0334 "in addition, we give the patient medications that are called neuromuscular blockading agents, that paralyses the muscle.</p>

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<p>VO</p>	<p>PATIENTS GET EXCLUSIVE, ONE-TO-ONE CARE WHILE THEY'RE BEING COOLED DOWN. NURSING STAFF NEVER LEAVE THEIR SIDE. THEY KEEP TRACK OF BODY TEMPERATURE AND OTHER VITAL SIGNS, WATCHING FOR ANY SIGN OF TROUBLE.</p>
<p>SOT</p>	<p>((Dr. Tolep)) 0346 - 0423 "We want to monitor the patient very carefully to make sure we give them just the right amount of medications. one of the monitors is called the tranfore monitor, electrodes are placed in the face and scalp and the nurses routinely apply a small amount of electricity to the muscles in the scalp to make sure that the patient's muscles are paralysed and the reason we're using those medications is to prevent shivering. if the patient develops shivering not only could it be uncomfortable, it could raise the body temperature and mitigate some of the beneficial effects that we're trying to achieve."</p>
<p>TALENT ON CAM</p>	<p>DOCTORS ARE JUST STARTING TO UNDERSTAND WHY HYPOTHERMIC INTERVENTION WORKS. WITH GREATER UNDERSTANDING OF THE SCIENCE BEHIND IT, THEY'RE FINDING MORE EFFECTIVE WAYS OF SAVING PATIENTS.</p>

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SOT	<p>((Dr. Pammi)) 4144 - 4200 "suppose that, somebody has a limb that gets cut off in a construction site what do you do? you pick up the limb and you put it on ice. well, it's the sme concept, what we're doing here is we're losing blood flow to the brain and so we're putting it on ice. we're trying to slow things down."</p>
	<p>((Dr. Tolep))</p>
SOT	<p>2044 "When blood flow is restored, through the body, including to the brain, there are a number of harmful chemical reactions specifically there is the generation of several excitatory amino acids, and abnormal oxygen molecules, so it is during this process when you're restoring blood flow and these harmful reactions are going that may lead to the more serioius brain injury. and it does seem that hypothermia does decrease these chemical reactions." 2113</p>
VO	<p>NEW TECHNOLOGY NOW MAKES IT POSSIBLE FOR DOCTORS TO MOVE AWAY FROM ICE BAGS TO COOLING MACHINES. THEY MAKE IT EASIER TO INDUCE AND CONTROL BENEFICIAL HYPOTHERMIA.</p>

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<p>SOT Demonstration</p>	<p>((CG=Dr. Jeffrey Scott/Critical Care Services)) 3506"Sometimes, when these things start to melt, the bed gets wet, the patients electronic leads for monitoring can get saturated. 3514/// 3530this is a cooling machine that is placed on the thigh and chest of the patient, you set in a temperature, like we would want 33 degrees which is mild hyothermia and then the machine would automatically adjust to that. fluid from the machine flows through the pad and as you can see, this is like a gel, it doesn't stick to the hair, not like a surgical bandaid. it's unpainful to the patient. 3602/// 3621 you'll see the water circulating, and that is basically ice cold, that runs through this pad with is very comfortable and easy to place for the patient and imediately cools the patient down much more rapid than the icepacks . 3532 /// 3703 much more efficient, much more accurate."</p>
<p>FADE OUT:</p>	
<p>FADE IN: VO</p>	<p>AFTER SIX DAYS IN A COMA, NORA EDGELY WOKE UP. SURGEONS WERE THEN ABLE TO FIX HER HEART AND, AFTER THERAPY, SHE RETURNED TO HAVING WALKS IN THE SUN.</p>
<p>SOT:</p>	<p>4430 I feel good// 4808 and I can't thank the Doctors enough for what they've done for me. it was a miracle. 4815"</p>

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<p>VO</p>	<p>HER DAUGHTER REMEMBERS THE MOMENT WHEN SHE KNEW HER MOTHER WAS BACK TO HER OLD SELF.</p>
<p>SOT</p>	<p>0008 - 0040 "She had the tubes in. and I kept saying to her, it's ok, it's ok, don't try to talk. i'm here. I said to her, 'hey mom, how you doing, she said, 'I'm ok' and i went, I ran to the nurses station and I said, my mom spoke, she spoke to me. so they go, she's been talking all day, we told her stop talking you have tubes in your mouth. (laughs)"</p>
<p>VO family sitting around the table</p>	<p>EDGELEY'S MIND AND MEMORIES ARE INTACT. HER RECOVERY HAS ALLOWED HER QUALITY TIME WITH HER FAMILY. THEY ALL BELIEVE, IT WAS THE COLD THAT MADE IT POSSIBLE.</p>
<p>SOT</p>	<p>0140 "It certainly helped her, there's no doubt about it."</p>
<p>SOT</p>	<p>((Dr. Tolep)) 2903 "It's a great result. Not only did she regain the use of her arms and legs, but she regained her sense of humor." 2913</p>

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<p>TALENT ON CAM</p>	<p>THE AMERICAN HEART ASSOCIATION RECOMMENDS THE USE OF HYPOTHERMIC INTERVENTION FOR CARDIAC PATIENTS.</p> <p>HOWEVER, DOCTORS CAUTION THAT HYPOTHERMIC INTERVENTION IS NOT A MAGIC BULLET. RESULTS VARY FROM PATIENT TO PATIENT, AND SOMETIMES, THE COOLING TEMPERATURES JUST AREN'T ENOUGH TO HELP.</p> <p>NEVERTHELESS, PHYSICIANS CONTINUE TO LEARN ABOUT THE PROCEDURES' HEALING POWER. IT IS POSSIBLE THAT IN THE FUTURE, THE USE OF HYPOTHERMIC INTERVENTION AT LEE MEMORIAL HEALTH SYSTEM COULD BE EXPANDED TO CURE AND PROTECT VICTIMS OF OTHER TYPES OF INJURIES AS WELL.</p> <p>FOR LEE MEMORIAL HEALTH SYSTEM, I'M LAURA RAGAIN.</p>