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# 'Do it for Drew' by checking and rechecking tube placement

The family of a teen who died after an esophageal intubation has started the 'Do It For Drew' foundation to prevent another tragic death

Jun 28, 2020

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## Editor's Note:

Paramedic Bradley Dean co-authored this article with David Hughes about Hughes' son Drew, who passed away on June 29, 2013. They write about Drew's death to introduce lessons EMS and other healthcare providers can learn from this incident.

By Bradley Dean and David Hughes

Drew Hughes, 13, died unexpectedly and tragically a few hours after sustaining a [head injury](#) while skateboarding. On June 29, 2013 a young life ended. Drew was full of vibrant life that brought laughter and light to all who knew him. Drew pushed himself to be the best that he could be, and his family encouraged him to push the limits.

Every patient is somebody's father, mother, daughter, or son. This is how Drew died and how his family, trying to bring balance back to their lives, is working to prevent another death.



The Do It For Drew Foundation works to educate healthcare providers and ensure they have the equipment and training to transport patients to the closest available facilities. (Photo/Courtesy David Hughes)

In the summertime Drew and his friends would ride around his neighborhood, skateboarding from house to house. On June 28, 2013 he lost control coming down a hill and fell backwards striking his head on the pavement. Within minutes, his brother and mother arrived by his side, knowing that he was injured. The 911 call had been placed, and the ambulance arrived. Drew was conscious and alert, but had suffered a head injury and concussion. The local paramedics transported him to the closest appropriate facility.

At the local hospital, a CT scan was performed where everything came back normal with the exception of "a small amount of gas seen within the right temporal and mandibular joints." and though none was seen, the doctors suspected a possible basilar skull fracture.

Drew was conscious and very aware of what was going on and told his dad that he was scared. His father explained that he would be OK, but the unfortunate chain of events that were unfolding became a nightmare that [could have been prevented](#).

## **TRANSFER TO A HIGHER LEVEL OF CARE**

The hospital had limited resources for a pediatric head injury and before Drew ever arrived to the ED Drew's father requested that Drew be transferred to a hospital that could thoroughly evaluate Drew. Helicopter resources were unable to pick him up due to bad weather and it was determined Drew would be transported via the hospital's ground ambulance. The only crew working that night was returning from a previous transport. The hospital found a respiratory therapist, nurse, driver and another paramedic to start the transport Drew in another ALS equipped ambulance until they could meet the ambulance returning to change personnel.

During the time that the crew was being assembled for the transport, an elective [endotracheal intubation](#) was recommended for Drew's safety during the 90-minute ride. The family did not understand why he needed to be intubated, because he was talking to them and breathing on his own, but they consented. Drew was intubated and sedated, but the sedation wore off quickly and he [extubated](#) himself in the ED. He was re-intubated and sedated for transport.

## **MISPLACED ENDOTRACHEAL TUBE**

During the transport, the crew that started the transport stopped to change the driver and attending paramedic with the other crew returning from the previous call. Drew was noted as being highly reactive to stimuli. A few minutes following the change of personnel Drew woke up, sat up and began pulling out his ET tube.

Drew was struggling with the crew to catch his breath. He was [awake and breathing on his own](#), until a paralytic was administered by the paramedic. Drew was now paralyzed, awake, and only minimally sedated.

Drew was now totally dependent on the healthcare providers in the back of the ambulance. He was re-intubated by the respiratory therapist and, shortly after, the crew began noticing a sharp decline in oxygen saturations and bradycardia that would rapidly become fatal.



The crew contacted the originating hospital and spoke with an emergency physician who asked them to check the ET tube and re-intubate if necessary because the impending cardiac arrest was most likely respiratory related and not from the head injury.

The ET tube was [never checked or re-inserted](#) following the consult with the physician.

The ambulance called to divert to a closer facility when Drew's oxygen saturation dropped to 40 percent and his heart rate dropped into the 30's with no palpable pulse. Upon arrival, the staff at the hospital quickly recognized the improper intubation and was able to correct the problem, but the damage was done.

Drew was again transferred from this hospital to the trauma center that was the original destination. All the trauma center could do for Drew was act on what they received, not fully knowing what had occurred in the ambulance.

Drew's family arrived at the trauma center to find that while he was awake and talking three plus hours after the accident, he now had no brain activity. His anoxic brain injury was not a result of the accident, but a result of an improperly placed ET tube when he was re-intubated in the ambulance.

His family knew that something somewhere went wrong, but where? How could this have happened? They remained by his side until his death on June 29, 2013.

### **'DO IT FOR DREW' FOUNDATION**

The ['Do It For Drew' Foundation](#), started by Drew's family, works with EMS agencies and smaller community hospitals to educate EMS and other healthcare providers. The foundation wants EMS providers and their agencies to have the best equipment and training possible to transport a patient to the closest appropriate facility. If needed, once at the hospital the foundation would like to see dedicated transport teams available for transfer to another facility.

EMS providers have much to learn from this tragic case and preventing a similar event. Some of the learning topics include:

- Appropriate [crew resource management](#)
- Post-intubation management and monitoring
- Use of and [interpretation of capnography waveforms](#)
- How to deal with the death of the patient

Drew's death is just one case, but we know that it is not the only case where patient harm was the result of multiple points of failure within a system of care. It is often not a single cause, but a multi-layered process where an [error or issue could have been stopped](#), but the process defenses failed, leading to a catastrophic outcome.

Next time you intubate a patient, 'Do It For Drew' and please recheck the tube!

## About the authors

Bradley Dean is the Battalion Chief over the Training Division for Rowan County Emergency Services in Salisbury, N.C. He also serves as the Paramedic Program Director for Rowan-Cabarrus Community College. Dean began his career as a volunteer with the Thomasville (N.C.) Rescue Squad and in 1996 went to work for Davidson County EMS in Lexington, N.C. where he still works part-time. He and several colleagues host the Tuesday EMS [Tidbits podcast](#) and [Facebook group](#) to share EMS ideas and tips.

David Hughes is the father of Drew Hughes. He and his family run the ['Do It For Drew' foundation](#) promoting patient safety in healthcare. Hughes was a former N.C. Highway Patrolman who served his community in a variety of public safety initiatives. Hughes also formerly worked as a Systems Analyst for the local hospital where the family lives.

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*This article was originally posted Feb. 16, 2016. It has been updated.*

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Posted by **jtodd64** Jul 6, 2020

Medical intervention at its best. That's why I'm not the biggest fan of RSI. Not that it can't be useful on extreme occasions, but if the positive outcomes can't out number the horror stories then it needs to be seriously evaluated. Certainly a tragedy for Drew and his family.

That sure is a reminder that we need to constantly be re evaluating our patient's airways and vitals.



Posted by **jbuccilli15** Feb 4, 2020

A very tragic and what seems to have been an avoidable loss of life at such a young age. I agree with the other posts that the initial decision to intubate a CAO x4 with no other definable sat levels prior to, which would lead any healthcare provider to believe he was becoming hypoxic, certainly deserves a lot of questioning, as for the medic(s) involved for not verifying with at minimum waveform capnography & equal breathsounds is basic intubation confirmation "101". There's just no excuse and the only heroes who emerged from this tragedy are his parents who have the intestinal fortitude and character to use their sons death, to improve awareness in the ems community.



Posted by **bobw9886** Jul 6, 2019

Based on the information provided in the story , I have to question the decision to intubate him in the hospital for transport. After that did the transporting crew have a good report on his condition or did they think he was that bad that keeping him sedated and intubated was the best thing based on what a MD had decided.



Posted by **pirateotobx** Apr 17, 2018

You can read the story with more details here: <https://www.doitfordrew.org/what-happened>

I don't know the logic to intubate other than what we were originally told "as a precautionary measure" for the hour and a half trip. Everything that happened in the back of the ambulance, there is no good explanation for. It is exactly as the records and deposition show.

If I had been able to ride in the ambulance and had been there to talk with him when he woke up, none of this would have ever happened. He would not have been reintubated and there would have never been the administration of vecuronium. If I had been able to ride in the ambulance, I don't think they would have felt the need to intubate to begin with. I don't know



Posted by **mattffeh6** Feb 11, 2018

This is tragic this child lost his life. I cannot believe the paramedic or RT did not recognize that the tube was dislodged. Very poor medicine. I hope they loose their jobs!

♥ 1



Posted by **paramedic70801** Feb 11, 2018

I guess I have a greater question. What happened to the crew, the consulting physician, the center(s) where the paramedic were trained? Did the crew simply ignore the order to reassess the tube and take appropriate actions, did the consulting physician get a confirmation of what the paramedics found, was there sufficient training on recognize a miss placed or dislodged ET tube and what immediate actions should be taken. I agree with efforts of the foundation, but wonder why it is needed, they may be better at improving the safety at skate parks.

Recognizing and managing complications and problems with both basic and advanced airway management are basics in the training of EMS responders. If it is not given enough time in training that must be addressed. If systems do not have a policy of documenting and managing problems, that must be addressed.

This appears to be a failure that should have never occurred, I applaud the desire to educate the EMS community , but I question why need to educate people on something that should be fundamental knowledge.

♥ 3



Posted by **pirateotobx** Mar 7, 2018

The foundation is needed because Drew's case is not an isolated case by any means. What was done to Drew is much more extreme than in many cases, but we've learned that deaths and serious injury due to improper intubation are far too common. It should be "fundamental knowledge", but clearly it is not to far too many. Not everyone is up to the appropriate level of skill, training, experience, etc. or this wouldn't happen as often as it does. That is what we are working to change.

♥ 0



Posted by **jcorrell26** Mar 26, 2018

I agree with paramedic70801. What happened to the crew? Why did they ignore the order? I'm also curious why the repeated attempts to have this child intubated in the first place? If he was A/Ox4 with no sign/symptoms of decline and currently maintaining his own airway, why???



♥ 0

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