

Company

LifeVac, LLC

Drug or Device Name

LifeVac

Category

Medical Technology

Compound/Technical Name

Airway Clearance Device

Trade Name

LifeVac

Date of Approval

08/13/2014

Therapeutic Categories

N/A

Indications

LifeVac is a single-patient, non-invasive, non-powered portable suction appliance designed to save the life of a choking victim. The device works by creating a vacuum in the choking patient's oral cavity. The suction generated by the device allows users to remove obstructions in the patient's airway without the residual trauma sometimes incurred through the use of abdominal thrusts. The device is patented, FDA registered, and manufactured in the United States.

Background

About 10 years ago, Arthur visited a friend in the hospital, which has turned into a decade-long mission to change the world. His friend's mother was having a procedure, so Arthur stopped by to keep him company. While they waited, his friend pointed across the room to a chilly, steel gurney and remarked, "The last time I was here, a 7-year-old child died on that gurney." He remembered the commotion of personnel feverishly attempting to save this youngster, but nothing could remove the grape." He recalled the parents' agony and unrestrained crying, the staff's tears, and the anguish that filled the room." Arthur's daughter was seven years old at the time this tale was given to him, and he couldn't fathom the anguish of losing someone you care about, especially a child. Arthur could picture his daughter on the stretcher in his mind, and he knew he couldn't allow anything to happen to her. That night, he began his investigation to determine whether there was anything that could be utilized to save a choking victim if the standard protocol failed.

Development

Persevering to continue on a path when I was told time after time this could not be done. It took

Arthur and his team around 4 years to get LifeVac from a prototype to a product that could be manufactured. During that period, dozens of independent third-party tests were completed, medical journals were published, and preparations were made to bring the LifeVac to market. LifeVac is currently available all over the world. Arthur made something out of nothing. Creating and manufacturing a life-saving medical device was a massive undertaking. He and his team grew LifeVac into a global medical technology firm devoted to saving lives all around the world. A small group of determined people can change the world.

Innovation

The device resembles a plunger in appearance, and the idea is identical. The plunger is connected to a simple non-rebreather mask which is placed over the patient's mouth to create an airtight seal. Once the user has a firm seal around the patient's mouth, the user presses down on the handle. This motion pushes all of the air out of the device. The device utilizes a patented one-way valve which not only prevents the obstruction from being pushed further into the lungs but simultaneously creates a vacuum in the patient's pharynx and oral cavity. When the user pulls back on the handle, pressure is generated by the vacuum. The effect creates an instantaneous moment of suction that dislodges the obstruction in the throat. The device has shown tremendous results so far. Everything from plastic bottle caps to pieces of bread have been removed from choking individuals. LifeVac is a life-saving device that everyone should have on hand in case of an emergency. The device is simple to use and may be used on anyone, making it easier to open the airway in any scenario. Because the user may use LifeVac without assistance, no one needs to worry about being alone in an emergency. The device is simple to operate, and the one-way pressure swiftly removes a variety of objects in the airway's route. The LifeVac device is capable of reducing choking statistics. With one child dying every five days and over 5,000 choking deaths each year, LifeVac has the potential to eliminate choking-related tragedies. In the last 50 years, there have been no advancements in choking procedures. For the first time in history, a major cause of unintentional fatalities may be virtually eradicated.

Pubmed

Peer-reviewed journal links: The International Journal of Clinical Skills – Peer-reviewed study & 10 real-life saves - Successful Use of a Novel device called the LifeVac to Resuscitate Choking Victims- Worldwide Results <https://www.ijocs.org/abstract/successful-use-of-a-novel-device-called-the-lifovac-ton-resuscitate-choking-victims-worldwide-results-12594.html> International Journal of Pediatric Otorhinolaryngology- Peer-reviewed international - Portable, non-powered, suction-generating device for management of life-threatening aerodigestive tract foreign bodies: Novel prototype and literature review <https://www.sciencedirect.com/science/article/abs/pii/S0165587618306177?> Pediatrics & Therapeutics – Peer reviewed – 21 real-life saves - Resuscitation of Choking Victims in a Pediatric Population Using a Novel Portable Non-Powered Suction Device: Real-World Data <https://www.longdom.org/open-access/resuscitation-of-choking-victims-in-a-pediatric-population-using-a--novel-portable-nonpowered-suction-device-realworld-d.pdf> Resuscitation Plus- Peer-reviewed - The efficacy and usability of suction-based airway clearance devices for foreign body airway obstruction: a manikin randomized crossover trial <https://www.sciencedirect.com/science/article/pii/S2666520420300680?via%3Dihub> Frontiers in Medicine- Peer-reviewed – 39 Real life saves - Use of a Novel Portable Non-Powered Suction Device in Patients with Oropharyngeal Dysphagia During a Choking Emergency <https://www.frontiersin.org/articles/10.3389/fmed.2021.742734/full> International Journal of Environmental Research and Public Health - Peer-reviewed - Phase One of a Global Evaluation of Suction-Based Airway Clearance Devices in Foreign Body Airway Obstructions: A Retrospective Descriptive Analysis <https://www.mdpi.com/1556536>

Attachments

- 1656632033Peer_reviwed_Journal_links_-_LifeVac_Medical_Evidence.pages