



LIFEVAC[®]

AFA

ADVANCED FIRST AID, INC.

AED Sales, Service & Training

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The LifeVac is a non-invasive, non-powered, portable ACD (Airway Clearance Device) developed to remove an object/food from a victim with an airway obstruction when standard choking protocol has been followed without success. It is designed with a patented one-way valve that prevents air from pushing the object/food downward. This creates a one-way suction to remove the obstruction and clear the airway of the victim. The negative pressure generated by the force of the suction is 3 times greater than the highest recorded choke pressure.



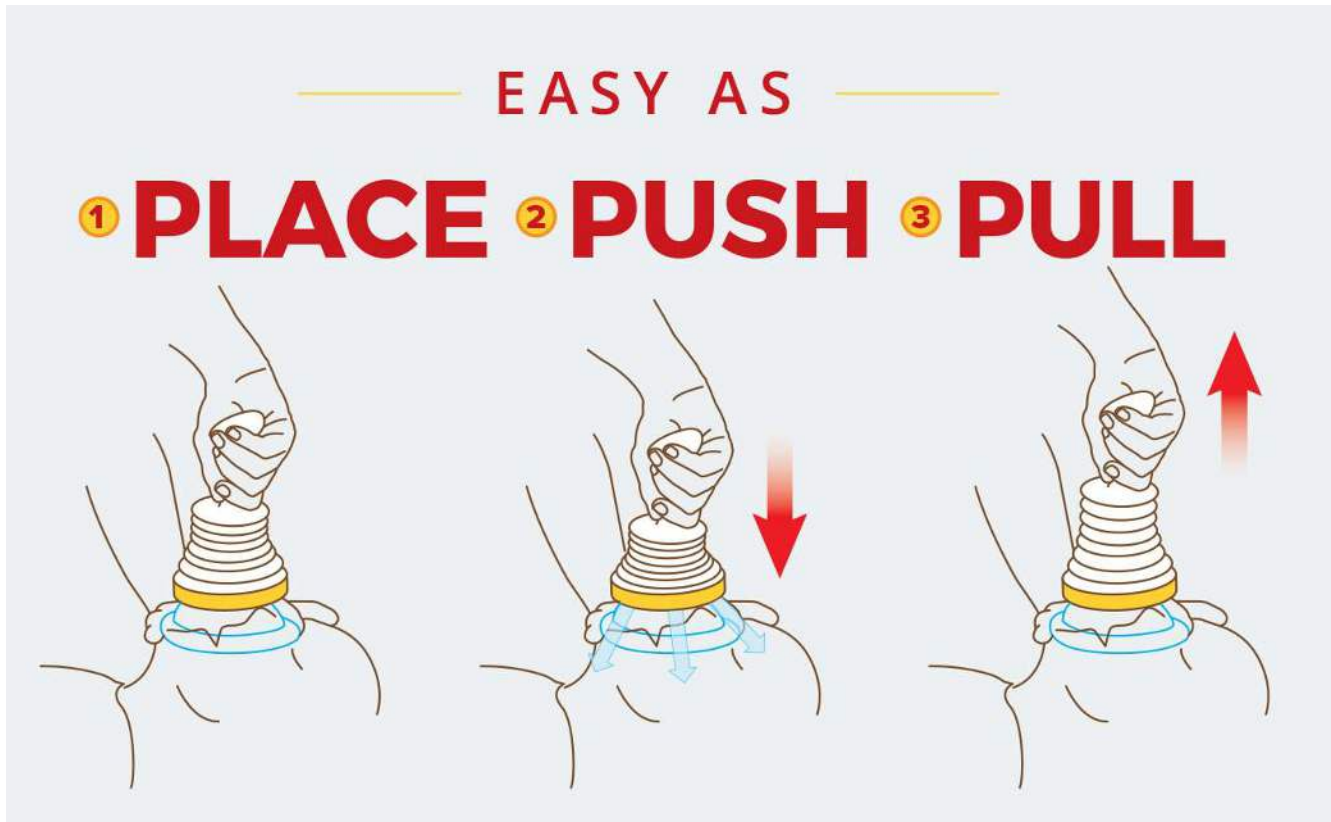
LifeVac is FDA registered

This patented designed valve will prevent air from pushing food or an object downward. Air is vented outside the unit. This creates a one-way suction to remove the lodged food or object



LifeVac is simple to use. Anyone can use it.

It's as easy as placing over the nose & mouth, pushing down, & pulling up



Protect yourself

Protect your family

- Choking is the 4th leading cause of accidental death
- A leading cause of death under the age of 14 and over 65
- One child dies every 5 days
- Over 5,000 choking deaths per year in the US alone
- Thousands choke to death in their own HOMES every year
- Extremely dangerous for individuals in wheelchairs
- Particularly dangerous within the Neurological community



LIFEVAC

CREDENTIALS

- ❖ LifeVac is FDA registered- Registration Class II medical devices are exempt from pre-market clearance. FDA does not require a premarketing review.
- ❖ Retlif Pressure Test (Force Inbound & Outbound)
- ❖ Retlif Durability/Environmental Test Report
- ❖ The Journal College of Gastroenterology – Adult Simulation Study
LifeVac - A Novel Apparatus to Resuscitate a Choking Victim
- ❖ The American College of Emergency Physicians – Adolescent Simulation Study
A Novel Device for the Resuscitation of the Adolescent Choking Victim
- ❖ The American Journal of Emergency Medicine – Human Cadaver Study
Assessment of LifeVac, an anti-choking device, on a human cadaver with complete airway obstruction - An independent study of the LifeVac on a human cadaver has been peer-reviewed and published in the American Journal of Emergency Medicine. Results of this study suggest that the LifeVac be included as part of the guidelines used for basic life support management.
- ❖ World College of Gastroenterology – Real Life Saves (2)
Successful Resuscitation of Choking Victims Using a LifeVac, a Non-powered Portable Suction Device: Real World Experience
- ❖ American Broncho-Esophagological Association – Summary & Real life saves
Successful Use of a Novel device called the LifeVac to Resuscitate Choking Victims- Worldwide Results
- ❖ The International Journal of Clinical Skills (2018) – **Peer-reviewed study & 10 real life saves** - *Successful Use of a Novel device called the LifeVac to Resuscitate Choking Victims- Worldwide Results*
- ❖ Spain National Congress Society Of Emergency Medical Services (SEMES) June 6, 7, 8, 2018, Post #655 of Chapter 7 – *LifeVac - New Device For Clearing An Airway Obstructed By A Foreign Object*
- ❖ International Journal of Pediatric Otorhinolaryngology – **Peer-reviewed study** *Portable, non-powered, suction-generating device for management of life-threatening aerodigestive tract foreign bodies: Novel prototype and literature review*
- ❖ Pediatrics & Therapeutics – **Peer-reviewed study** – *21 real-life saves - Resuscitation of Choking Victims in a Pediatric Population Using a Novel Portable Non-Powered Suction Device: Real-World Data*

- ❖ European Resuscitation Council – *Poster Tour - Device for the resuscitation of the choking victim*
- ❖ Resuscitation Plus- **Peer-reviewed study** - *The efficacy and usability of suction-based airway clearance devices for foreign body airway obstruction: a manikin randomized crossover trial*
- ❖ *Frontiers* -**Peer-reviewed study**- *Use of a Novel Portable Non-Powered Suction Device in Patients with Oropharyngeal Dysphagia During a Choking Emergency*
- ❖ *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*
- ❖ *Resuscitation Plus* – *Peer reviewed* - *A 2-year prospective evaluation of airway clearance devices in foreign body airway Obstructions*
- ❖ *BMC Med Educ./Pub Med* – **Peer reviewed**- *Would anti-choking devices be correctly and quickly managed by health science students? A manikin crossover trial*
- ❖ LifeVac is adopted into Suffolk County, NY EMT – Adult Obstructed Airway – BLS Protocol
- ❖ LifeVac is adopted into the Fennimore Wisconsin Airway Obstruction protocol
- ❖ Nassau County, NY internal letter from David Kugler, MD, Chairman Nassau REMAC stating LifeVac can be used with the approval of the Medical Director
- ❖ The LifeVac rescue suction device has been reviewed, purchased, and implemented in over, **6700 schools, 330 Fire Departments, 230 police departments, 45 hospitals**, as well as numerous Emergency Response Training Centers, disability facilities, eldercare homes, medical offices, dental practices, restaurants, corporations, churches, etc. and in over 1 million homes across the country. It has also been implemented by the Nassau County Police Department, Cerebral Palsy Association of Nassau County, CURE SMA, Cerebral Palsy of NYS Day Habilitation Programs, and residences throughout the Five Boroughs of New York, United Cerebral Palsy of California, The Viscardi Center, the University Hospitals Elyria Medical Center in Ohio, Orlando VA Medical Center, Eldercare homes, Hatzolah Volunteer Ambulance, etc.
- ❖ The **Sarasota Police Department** was the first government agency to implement LifeVac. See link: <http://www.prnewswire.com/news-releases/sarasota-first-in-us-to-equip-emergency-vehicles-with-lifovac-300065166.html>

- ❖ In March of 2021, LifeVac was utilized by the **Prairie Du Chien Police Department** in Wisconsin when law enforcement officers responded to a choking-related emergency. When arriving on the scene the elderly gentleman was immediately attended to using the Heimlich maneuver. When choking rescue procedures were unable to dislodge the hamburger that caused a total blockage LifeVac was utilized and cleared the victim's airway.

"Thank you to LifeVac for helping us better serve our community. We police a rural area of Wisconsin that requires us to be first responders to most medical calls. On March 20, 2021, our Officers responded to an adult male who had a fully obstructed airway. Officers arrived on the scene prior to our full-time EMS service and they were able to successfully use the LifeVac to break up and dislodge the obstruction. Proper training and equipment make all the difference between being able to save lives and feeling helpless or hopeless in our efforts. Our entire patrol fleet was equipped with LifeVac devices in 2019 and two years later they have proven themselves to be an essential, lifesaving, tool for our department. Thank you again!" Chief of Police, Prairie Du Chien Police Department

LIFEVAC CREDENTIALS

- ❖ **All Nassau County PD** vehicles (350 patrol cars located in New York) are equipped with LifeVac. It has been reported that in October of 2019 an officer was called to the scene at Point Lookout Ale House to a choking incident. “I was the officer that used the LifeVac at the scene. I was so amazed by how it worked. The victim was clearly unconscious at the time of arrival. The civilian at the scene was performing CPR by himself while the victim was on his side. The first time used LifeVac the obstruction was stuck while the victim on their side Used a second time after adjusting the victim on their back and a piece of meat came out. The victim quickly gained consciousness and color to his face. Was talking within a minute of clearing the obstruction. Was then transported by Point Lookout fire department ambulance and treated at a local hospital.” For the full testimonial: <https://lifevac.net/police-office-saves-man-from-choking-with-lifevac-150th-life-saved/>
- ❖ Most recently the **City of Jacksonville**, Florida vetted and implemented 200 LifeVac devices into the Jacksonville Fire and Rescue Department. It is also being added to their protocol.
- ❖ The Miami Beach Police Department has implemented 100 LifeVac units in January of 2022.
- ❖ LifeVac has been used to save the lives of choking victims by civilians first responders and medical professionals. You can read testimonials on our website at <https://lifevac.net/news/>
- ❖ **Doctors:**
LifeVac is endorsed and has articles written by the following doctors, medical experts... Douglas W. Harrington, D.O., FCCP is a pulmonary critical care physician, Dr. Keith Johnson- MD is Board Certified in both Pediatrics and Internal Medicine, Dr. William Holt - Board Certified Neurologist, Senior Medical Director, Dr Nina Shapiro - Director of Pediatric Ear, Nose, and Throat at the Mattel Children's +Hospital UCLA and Professor at the David Geffen School of Medicine at UCLA, Coauthor of the LifeVac study in The American Broncho-Esophagological Association & author of a new book "Hype", Dr. Timothy Coakley is a Board-Certified Emergency Medicine Physician who proudly served in the US States Navy for 30 years. He had medical oversight for thousands of active duty personnel. Dr. Cynthia Paulis – MD Emergency Room physician, Dr. James Kalyvas - Neurosurgeon of the Barrow Neurological Institute, Dr. Robert Domingo – PH.D, Dept of Communication Sciences & Disorders LIU Post, Nassau Univ. Medical Center, Dr Louis Philip Rotowitz – MD FAAFP City Medical Specialist – Bureau of Medical Affairs/Online Medical Control Fire Dept. – City of NY, Dr. Sheeba Mesghali, MD, Internal Medicine, FL, Saperstein DM*, Pugliesi PR, Ulteig C, Schreiber N, Dr. Suzanne Fuchs – MD, Podiatry, Palm Beach, FL, Mimi Juliano, MA, CCC-SLP (Author) , Mary S. Mooney, PT, DPT, Alex Trupiano, EMT, Amy Benenson, BS- (Presenting Author), Rashawn Chin, PA-C (Author), Pratik B Patel, (Author), Saperstein, DM (Corresponding Author), RPA Lee Burns – Director, NY State Dept. of Health Bureau of Emergency Medical Services & Trauma Systems, Robert Delagi – MA, NREMT-P Director, EMS & Public Health Emergency Preparedness, Rodney Millsbaugh, NREMT/Paramedic, Lisa-Lih Brody, MD, FACG, Michelle Rockwell, MD (Sports & family medicine)-mommy blogger, ARC Albanian Resuscitation Council

IMPORTANT NOTE:

The American Red Cross and the American Heart Association do NOT approve or endorse ANY product.

LifeVac Comprehensive Research & General Recap

Retliff Force Test	Downward Compression
Retliff Force Test	Suction
Retliff Durability Test	Durability
The American Journal of Gastroenterology	Adult Simulation Study - Poster Presentation
The American College of Emergency Physicians	Adolescent Simulation Study
The American Journal of Emergency Medicine	Human Cadaver Study
The World Congress of Gastroenterology	Real Life Saves (2)
American Broncho-Esophagological Association	Summary Real Life Saves
International Journal of Clinical Skills	Peer Reviewed Real Life Saves (10)
SEMES	Summary Real Life Saves
International Journal of Pediatric Otorhinolaryngology	Peer reviewed- World leading Physician Pediatric Airway Management - Poster Presentation
American Academy of Pediatrics Poster Presentation	Worldwide Real Life Saves
Pediatrics & Therapeutics	Peer Reviewed - Real-World Data (21)
European Resuscitation Council	Poster Tour - Device for the resuscitation of the choking victim
Resuscitation Plus	Peer Reviewed - The efficacy and usability of suction-based airway clearance devices for FBAO
Frontiers	Peer reviewed - Use of a Novel Portable Non-Powered Suction Device in Patients with Oropharyngeal Dysphagia During a Choking Emergency
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
Resuscitation Plus	Peer reviewed- A 2-year prospective evaluation of airway clearance devices in foreign body airway obstructions
BMC Med Educ.	Peer reviewed-Would anti-choking devices be correctly and quickly managed by health science students? A manikin crossover trial
	

KEY ELEMENTS

- ❖ There are over 5,000 choking deaths a year in the US alone
- ❖ One child dies every 5 days from a choking tragedy
- ❖ Choking is the fourth leading cause of death among preschool children
- ❖ LifeVac is the only non-invasive airway clearance device
- ❖ LifeVac is the only airway clearance device with third-party independent testing. (Vacuum verification, durability, pressure verification, environmental testing)
- ❖ LifeVac in the USA is **registered with the FDA** as a Class 2 Suction Apparatus. It is EXEMPT from pre-market clearance. "Class II are EXEMPT from the premarket notification (510K) process. Therefore, are only required to register their establishment and list their product." LifeVac is properly registered with the FDA and will not receive "approval" as a Class II suction device.
- ❖ LifeVac is designed with a one-way valve system to prevent the airway obstruction from being pushed further into the victim. On the downward compression, all air is vented outside the unit, not through the mask This creates a one-way suction to remove the lodged food or object.
- ❖ LifeVac has been published in 13 medical journals (**8 peer-reviewed**).
- ❖ LifeVac has received over **2,007** post-market clinical reports on lives saved worldwide
- ❖ LifeVac has been used by Emergency Services, Nurses, Support Workers, and laypeople. The airway clearance device is implemented in fire departments, police departments & and rescue squads all over the US and worldwide. There are currently **32 recorded post-market clinical reports** of lives saved by first responders.
- ❖ There have been no adverse effects when LifeVac was administered.
- ❖ LifeVac can be used on adults and children. LifeVac can be utilized starting at 22 pounds based on the mask manufacturer's general guidelines for a proper fit.
- ❖ One unit provides safety for the entire family. LifeVac home kit comes equipped with 3 masks (1 adult, 1 pediatric & and 1 practice mask) We provide customers with a practice mask so they can become familiar with how the rescue device works before an emergency situation occurs.
- ❖ The LifeVac device is a one-time use-only airway clearance device. If the LifeVac device is used in a choking emergency we request to be contacted through our website to fill out a "Life Saved" report. We will make contact and send a new unit free of charge.
- ❖ The LifeVac device will NOT have to be replaced unless used to save the life of a choking victim. Only the masks will need to be replaced every 2-3 years. Replacement masks can be purchased on our website.

KEY ELEMENTS

- ❖ LifeVac is simple to use and can be used by anyone. LifeVac requires only seconds to use and is layperson-friendly.
- ❖ LifeVac can also be administered on oneself
- ❖ Training is available online at www.lifevac.net.



***Timothy A. Coakley MD FAAEM
Emergency Medicine Commander
(retired)
Medical Corps United States Navy***

"LifeVac is the only device that can free an airway obstruction in a life-threatening choking emergency that everyone can use. It provides the right amount of suction to free an airway obstruction without causing an adverse effect.

As an emergency physician, I recommend this product be available in schools, hospitals, nursing homes, daycare facilities, ambulances, with law enforcement officers, and anywhere there is emergency medical equipment."



Keith Johnson, MD is Board Certified in both Pediatrics and Internal Medicine and is trained on the current ACLS Protocol.

Dr. Keith Johnson is a pediatrician in Venice is shown on LifeVac's site demonstrating how the device is used. "It should be CPR, back slaps, Heimlich maneuver, and this is your next tool," Dr. Johnson said. "Create a seal on their face by firmly holding and pushing down," Dr. Johnson said while demonstrating LifeVac on a patient. "Then pull up hard. Turn the body immediately, opening the airways and sweeping out"

"LifeVac should be available in homes, schools, airports, wherever the situation will arise you never know when you are going to need one".



NOW
TWO THOUSAND AND SEVEN
(2,007)
LIVES
have been saved with
LIFEVAC

It's time to eliminate **choking** deaths!

LIFEVAC WILL SAVE LIVES

**Keep your family & communities
safe!**

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