

A woman with short grey hair is sitting in a blue armchair, using a nebulizer. She is holding the device with her right hand. The background is a warm, dimly lit living room with a floor lamp, potted plants, and a white cabinet. The overall tone is calm and supportive.

McKESSON

Your Guide to Respiratory Therapy Products

**Support treatment of flu,
pneumonia and COVID-19**

Deliver the right care for respiratory conditions

You work hard to give the best in care to your patients and residents each day. And to do that, you need resources to help you manage common diseases, right at your fingertips.

This guide was designed to help you understand the various respiratory diseases, common treatments and the products your patients need for the best possible outcomes. We also included a list of clinical resources to help educate you and your staff on a range of respiratory products and conditions.

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Section 1

Overview of Disease States



Section 1

Overview of Disease States

About respiratory diseases

- These diseases affect the lungs and other parts of the respiratory system
- Respiratory diseases may be caused by infection, by smoking tobacco, or by breathing in secondhand tobacco smoke, radon, asbestos or other forms of air pollution
- Respiratory diseases include but aren't limited to asthma, chronic obstructive pulmonary disease (COPD), pulmonary fibrosis, pneumonia and lung cancer. These kinds of diseases are also called lung disorder and pulmonary disease.

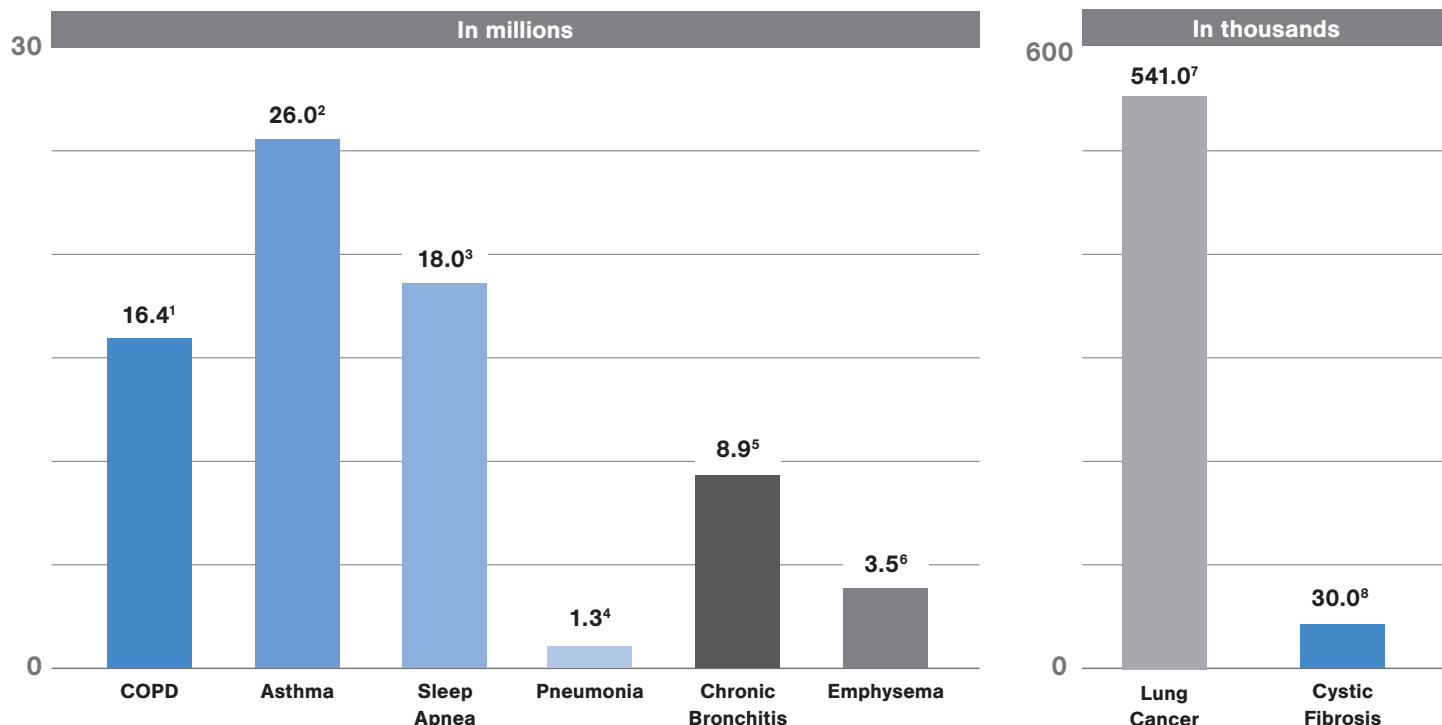
Common respiratory conditions

Disease	What It Is	Devices Commonly Used for Treatment	For More Information
Asthma	<p>A condition in which a person's airways become inflamed, narrow and swell, and produce extra mucus, making it difficult to breathe.</p> <p>Asthma can usually be managed with rescue inhalers (albuterol) to treat symptoms and controller inhalers that prevent symptoms (steroids). Severe cases may require longer-acting inhalers that keep the airways open (formoterol, salmeterol, tiotropium), as well as oral steroids.</p>	Nebulizer, Oxygen	lung.org
COPD	<p>A group of lung diseases that block airflow and make it difficult to breathe.</p> <p>Emphysema and chronic bronchitis are the most common conditions that make up COPD. Treatments include quitting cigarette smoking and avoiding air-borne bronchial irritants. Medical treatments include bronchodilators, steroids, antibiotics and oxygen therapy.</p>	Nebulizer, Oxygen, Mechanical Ventilation	COPDFoundation.org
Chronic Bronchitis	<p>Chronic bronchitis is one type of COPD. The inflamed bronchial tubes produce a lot of mucus. This leads to coughing and difficulty breathing.</p> <p>Treatment includes quitting cigarette smoking and avoiding airborne bronchial irritants. Medical treatments include bronchodilators, steroids, and oxygen therapy.</p>	Nebulizer, Oxygen	lung.org
Cystic Fibrosis	<p>A hereditary disease that affects the lungs and digestive system. The body produces thick and sticky mucus that can clog the lungs and obstruct the pancreas.</p> <p>Treatments include antibiotics to prevent and treat chest infections, medications to make the mucus in the lungs easier to cough up, medications to widen the airways and reduce inflammation and special techniques and devices to help clear mucus from the lungs.</p>	Nebulizer, Oxygen, Mechanical Ventilation	cff.org
Emphysema	<p>Emphysema is a long-term, progressive disease of the lungs that primarily causes shortness of breath due to over-inflation of the alveoli (air sacs in the lung).</p> <p>Common treatments include bronchodilator medications, steroids and antibiotics.</p>	Nebulizer, Oxygen, Mechanical Ventilation	lung.org

Common respiratory conditions (continued)

Disease	What It Is	Devices Commonly Used for Treatment	For More Information
Influenza (Flu)	<p>A contagious respiratory illness infecting the nose, throat, and sometimes lungs. It can cause mild to severe illness. There are two main types: Influenza A and Influenza B.</p> <p>Common treatments include antiviral drugs, fever-reducing medicine, and rest.</p>		cdc.gov
Lung Cancer	<p>Cancer that begins in the lungs and may spread to lymph nodes or other organs in the body, such as the brain.</p> <p>Patients suffering from small cell lung cancer are usually treated with radiation therapy and/or chemotherapy.</p>	Nebulizer, Oxygen, Tracheostomy, Mechanical Ventilation	lung.org
Pleural Effusion	<p>A buildup of fluid between the tissues that line the lungs and the chest.</p> <p>Common treatments for this condition include antibiotics, water pills (diuretics) and removal of the fluid (chest tube).</p>	Nebulizer, Oxygen	lung.org
Pneumonia	<p>Infection that inflames air sacs in one or both lungs, which may fill with fluid.</p> <p>The most common treatment for this condition is the use of antibiotics. Some types of pneumonia, however, can be prevented by vaccines.</p>		lung.org
Reactive Airway Disease (RAD)	<p>A condition in which the bronchial tubes of the lungs overreact to an irritant, triggering wheezing and shortness of breath.</p> <p>If a person has reactive airway disease but the underlying cause is unknown, the best way to reduce symptoms is to avoid the irritant. Allergy medication, like antihistamines, may help.</p>	Nebulizer	lung.org
Respiratory Syncytial Virus (RSV)	<p>A common respiratory virus that usually causes mild, cold-like symptoms. Children under 1 years of age and adults over 65 may experience more severe illness.</p> <p>Treatment includes managing fevers and pain with over-the-counter fever reducers and providing hydration. In severe cases, a person may require additional oxygen or intubation.</p>	Oxygen or intubation	cdc.gov
Sleep Apnea	<p>A potentially serious sleep disorder in which breathing repeatedly stops and starts.</p> <p>Treatment often includes lifestyle changes, like weight loss and the use of breathing assistance devices at night, such as a continuous positive airway pressure (CPAP) machine.</p>	CPAP Machine	sleepfoundation.org/sleep-apnea
SARs-CoV-2 (COVID-19)	<p>An illness that includes a variety of symptoms: fever or chills, cough, shortness of breath or difficulty breathing, fatigue, muscle or body aches, headache, loss of taste or smell, sore throat, congestion or runny nose, nausea or vomiting, and diarrhea.</p>		cdc.gov

Prevalence of common respiratory conditions



Sources:

¹ [lung.org/lung-health-and-diseases/lung-disease-lookup/copd/learn-about-copd/how-serious-is-copd.html](https://www.lung.org/lung-health-and-diseases/lung-disease-lookup/copd/learn-about-copd/how-serious-is-copd.html)

² [lung.org](https://www.lung.org)

³ sleepfoundation.org/sleep-apnea

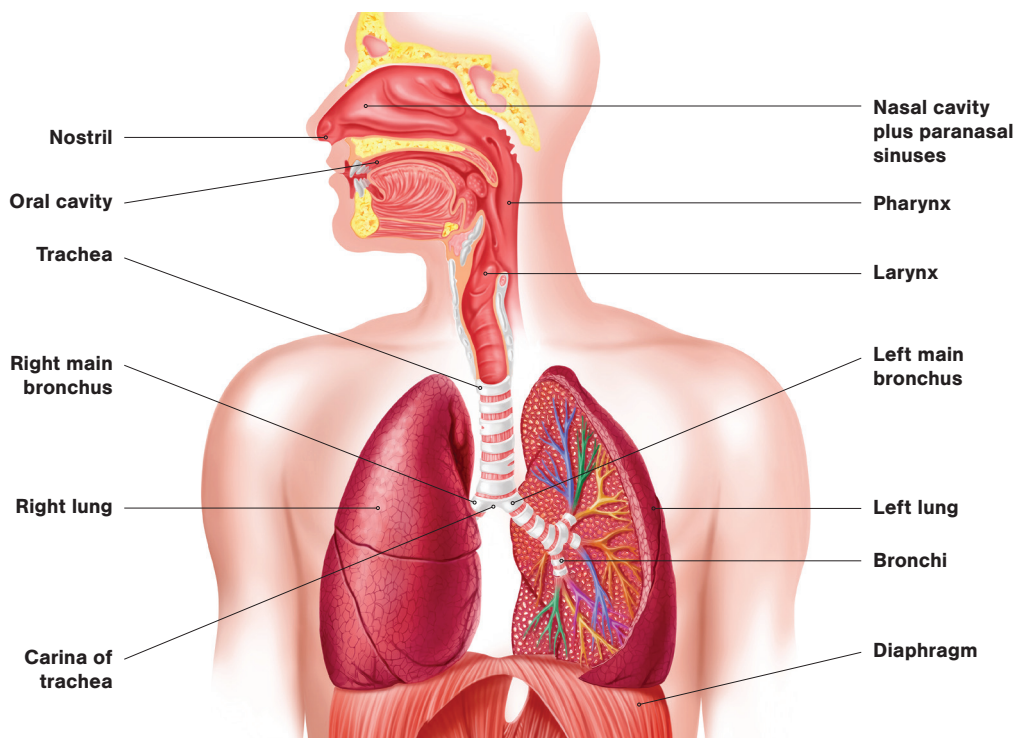
⁴ <https://www.cdc.gov/nchs/fastats/pneumonia.html>

^{5, 6} [healthline.com/health/copd/facts-statistics-infographic](https://www.healthline.com/health/copd/facts-statistics-infographic)

⁷ <https://www.lung.org/lung-health-and-diseases/lung-disease-lookup/lung-cancer/resource-library/lung-cancer-fact-sheet.htmls>

⁸ [cff.org](https://www.cff.org)

The respiratory system



Section 2

Nebulizers

What is a nebulizer?

A nebulizer creates a mist to inhale medication. It works in conjunction with a small air compressor.



Section 2

Nebulizers

How a nebulizer works

It turns liquid medicine into a very fine mist that a patient can inhale through a face mask or mouthpiece. This allows the medication to go straight into the lungs and the respiratory system where it is needed.

Who needs a nebulizer?

People with respiratory conditions. These include asthma and chronic obstructive pulmonary disease (COPD), where breathing treatments are needed to help improve the airflow in the lungs.

Conditions where a nebulizer is required:

- Asthma
- Chronic Obstructive Pulmonary Disease (COPD)

Care of a nebulizer

- Change the nebulizer filter as directed in the manufacturer guidelines
- Clean the outside of the tubing and replace as directed in the manufacturer guidelines
- Replace any part or accessory that is cracked or worn as directed in the manufacturer guidelines
- Keep extra tubing, mouthpieces, and masks on-hand in case they become damaged or worn

Prevalence of patients using nebulizers in the U.S.



- Asthma, the leading chronic illness among US children, affects approximately 6.2 million children younger than 18 years¹
- According to the Centers for Disease Control and Prevention (CDC), 1 in 13 people have asthma²
- More than 25 million Americans have asthma. This is 7.7% of adults and 8.4% of children. Each day, ten Americans die from asthma, and in 2017, 3,564 people died from asthma. Many of these deaths are avoidable with proper treatment and care³
- Adults are four times more likely to die from asthma than children⁴




Source:

^{1,3,4} www.aafa.org/asthma-facts

² www.cdc.gov/asthma


ADULT				
Treatment				
Product Image	Item Description	HCPC Codes	MFR	MFR #
	Compressors	E0570	McKesson	16-3655LT
			Drive Medical	18081
			Respironics	1110063
	Disposable Nebulizer Kits	A7003	McKesson	32645
			Drive Medical	3655D-621
			Respironics	HS800




Treatment (continued)				
Product Image	Item Description	HCPC Codes	MFR	MFR #
	Reusable Nebulizer Kits	A7005	Respironics	HS860
			Drive Medical	18254
	Masks	A7015	McKesson	32633
			Vyaire Medical	001201
			Teleflex Medical	1041

Accessories				
Product Image	Item Description	HCPC Codes	MFR	MFR #
	Compressor Filters	A7013	McKesson	16-3655LTF
			Respironics	483677
	Peak Flow Meters	A4614	Respironics	HS740-012
			Vyaire Medical	510
	Spacers	A4627	Smiths Medical	11-1120
			Respironics	1077478

Section 2: Nebulizers (continued)

PEDIATRIC				
Treatment				
Product Image	Item Description	HCPC Codes	MFR	MFR #
	Non-Character Compressors	E0570	McKesson	16-3655LT
	Character Compressors	E0570	Drive Medical	MQ6006
			Respironics	1082456
	Disposable Nebulizer Kits	A7003	McKesson	32645
			Allied Medical	64095
			Teleflex Medical	1707
	Reusable Nebulizer Kits	A7005	Respironics	HS860
			Drive Medical	18254
	Infant Nebulizer Kit	A7003	McKesson	32641

Treatment (continued)				
Product Image	Item Description	HCPC Codes	MFR	MFR #
	Masks	A7015	McKesson	32632
			Vyaire Medical	001266

Accessories				
Product Image	Item Description	HCPC Codes	MFR	MFR #
	Compressor Filters	A7013	McKesson Brand	16-3655LTF
			Respironics	929-4
	Peak Flow Meters	A4614	Respironics	HS740-012
			Vitalograph	43602
	Spacers	A4627	Respironics	1077478
			Smiths Medical	11-1010

Section 3

Oxygen

What is oxygen?

Oxygen is a colorless, odorless reactive gas. It's the life-supporting component of the air.



Section 3

Oxygen

How does oxygen work?

Oxygen gets into our cells and tissues through the lungs. The lungs breathe in oxygen, then pass the oxygen into the bloodstream through millions of tiny air sacs called alveoli.

Conditions where oxygen is required:

- Chronic Obstructive Pulmonary Disease (COPD)
- Pneumonia
- Asthma
- Bronchopulmonary Dysplasia (BPD), Underdeveloped Lungs in Newborns
- Heart Failure (HF)
- Cystic Fibrosis (CF)
- Sleep Apnea
- Lung Disease

Care of oxygen equipment

- Wash your cannula or mask with a liquid soap and warm water 1 or 2 times a week or per manufacturer guidelines
- Replace cannula and mask every 2 to 4 weeks or per manufacturer guidelines
- If you have a cold, change the nasal prongs when your cold symptoms are done or per your physician's recommendation
- If you have an oxygen concentrator, unplug the unit and wipe down the cabinet with a damp cloth daily

Who is the patient using oxygen?

Someone who suffers from a range of breathing related conditions, such as COPD, asthma, pneumonia, heart failure, cystic fibrosis, sleep apnea and lung disease

Prevalence of Americans using oxygen



There are an estimated 1.5 million supplemental oxygen users in the U.S .

Source:

<https://www.ucsfhealth.org/education/supplemental-oxygen-more-resources>

Oxygen Concentrators				
Product Image	Item Description	HCPC Codes	MFR	MFR #
	1-5 LPM (liters per minute)	E1390	Drive Medical	525DS
			Respironics	1020001
			Invacare	RC5PO2V
	Transfilled Devices (Home fill, I-fill, conversing mechanism)	K0738	Drive Medical	535D

Section 3: Oxygen (continued)

Oxygen Concentrators (continued)				
Product Image	Item Description	HCPC Codes	MFR	MFR #
	Portable Oxygen (cylinders)	E0431	Drive Medical	535D-M6-870
			Mada Medical	1202
	Portable Oxygen Concentrator (POC)	E1392	Drive Medical	306DS

Accessories				
Product Image	Item Description	HCPC Codes	MFR	MFR #
	25 ft Tubing	A4616	McKesson	32646
			Salter Labs	2025G-25-25
			Teleflex Medical	1119
			Vyaire Medical	001305GRN
	50 ft Tubing	A4616	Salter Labs	2050G-50-20
			Teleflex Medical	1120
			Vyaire Medical	001306GRN
	Nasal Cannulas (1 ft, 7 ft, 25 ft)	A4615	McKesson	32637
			Salter Labs	16SOFT-7-50
			Teleflex Medical	1870
			Vyaire Medical	001325

Accessories (continued)				
Product Image	Item Description	HCPC Codes	MFR	MFR #
	Humidifier Bottles (empty or prefill)	N/A	McKesson	32630
			Salter Labs	7100-0-50
			Teleflex Medical	003-40
			Vyaire Medical	002620
	Swivel/Connector Adapters	N/A	Vyaire Medical	001841
			Salter Labs	1220-0-25
			Teleflex Medical	1623
	Wing Adapter/Christmas Tree Adapters	N/A	Vyaire Medical	001840
			Teleflex Medical	2555
			Salter Labs	1205-0-50
	Ear Cushions	N/A	McKesson	32648
			Salter Labs	1016-0-50
			Vyaire Medical	002016
	Oxygen Masks (venti, non-rebreather, face tent)	A4620	McKesson	32633
			Salter Labs	1114-7-10
			Vyaire Medical	001201
			Teleflex Medical	1041
	Handheld Pulse Oximeter	E0445	McKesson	16-834V2

Section 3: Oxygen (continued)

Accessories (continued)				
Product Image	Item Description	HCPC Codes	MFR	MFR #
	Finger Oximeter	E0445	McKesson	16-93651
	Oxygen Regulators	E1353	Drive Medical	18302GMN
			McKesson	3510M
			Mada Medical	M1935-15GB
	Spirometers	A9284	Teleflex Medical	8884719025
			Vyaire Medical	001901A
	No Smoking Sign	N/A	Mada Medical	02SIGN

Section 4

Suction/Tracheostomy Therapy

What is a tracheostomy?

An incision, either temporary or permanent, in the windpipe made to relieve an obstruction to breathing.



Section 4

Suction/Tracheostomy Therapy

How a tracheostomy works

A tracheostomy tube is placed through the hole and directly into your windpipe to help the patient breathe.

Why a tracheostomy is needed

To relieve an obstruction of breathing, bypassing the mouth, nose and throat.

Conditions where a tracheostomy is required:

- Restricted airways
- It may also be done during an emergency when the airway is blocked. Or it could be applied when a disease or other problem makes normal breathing impossible

Care of a tracheostomy

- Always wash your hands with soap and water before cleaning
- Wear gloves
- You should clean the skin around the stoma twice a day with a 50:50 mixture of sterile water and hydrogen peroxide

Who is the tracheostomy patient?

Someone who had:




- Obstruction of the mouth or throat
- Breathing difficulty caused by edema (swelling), injury or pulmonary (lung) conditions
- Airway reconstruction following tracheostomy or laryngeal surgery
- Airway protection from secretions or food because of swallowing problems
- Airway protection after head and neck surgery

Prevalence of tracheostomy patients in the U.S.





The average number of tracheostomies performed annually in the United States is now > 100,000.

Source: <http://rc.rcjournal.com/content/59/6/895>



PRODUCTS NEEDED FOR SUCTION/TRACHEOSTOMY THERAPY





Product Image	Item Description	HCPC Codes	MFR	MFR #
	Cuffed Tracheostomy Tubes	A7521	Shiley (Medtronic)	6CN75H
			BiVona (Smiths Medical)	670160
			Portex (Smiths Medical)	503070
	Non-Cuffed Tracheostomy Tubes	A7520	Shiley (Medtronic)	6UN75H
			BiVona (Smiths Medical)	60PFSS35
			Portex (Smiths Medical)	502070
	Inner Cannulas	A4623	Shiley (Medtronic)	4DIC
			Smiths Medical	526060



Products Needed For Suction/Tracheostomy Therapy (continued)

Product Image	Item Description	HCPC Codes	MFR	MFR #
	Tracheostomy Care Kits (gloves, gauze dressings)	A4625	McKesson	16-715
		A4629	Vyaire Medical	3T4691
	IV Split Dressing (4x4)	A6402	McKesson	16-4226
	Tracheostomy Adapters	N/A	Smiths Medical	525350
			Teleflex Medical	1623
			Vyaire Medical	77AA05
	Speaking Valve	L8501	Shiley (Medtronic)	SSVO

SUCTION/TRACHEOSTOMY HUMIDIFICATION TOOLS

Product Image	Item Description	HCPC Codes	MFR	MFR #
	50 PSI Compressor	E0565	Drive Medical	18450
	Large Volume Nebulizers	A7007	Teleflex Medical	1770
			Vyaire Medical	002002

SUCTION/TRACHEOSTOMY HUMIDIFICATION TOOLS (continued)				
Product Image	Item Description	HCPC Codes	MFR	MFR #
	Corrugated Tubing	A7010	Teleflex Medical	1680
			Vyaire Medical	001450
	Tubing Adapters	N/A	Vyaire Medical	441H
			Teleflex Medical	1640
	Tracheostomy Masks	A7525	McKesson	32635
			Teleflex Medical	1075
			Vyaire Medical	001225
	Heat Moisture Exchangers (HMEs)	A4483	Vyaire Medical	003003
			Teleflex Medical	41312
			Medtronic	353U5413
			McKesson	16-6216

TRACHEOSTOMY SUCTION TOOLS				
Product Image	Item Description	HCPC Codes	MFR	MFR #
	Suction Pumps	E0600	Drive Medical	18600
			Allied Medical	G180
	Suction Cannisters	A7000	Bemis Healthcare	484410
			Drive Medical	610-12b
			Allied Medical	20-08-004

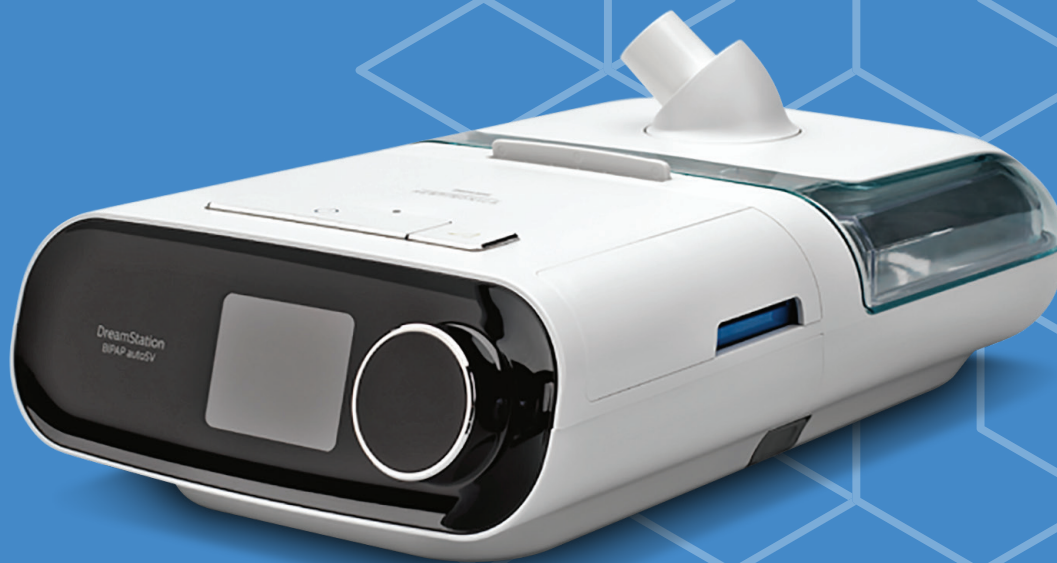
Tracheostomy Suction Tools (continued)				
Product Image	Item Description	HCPC Codes	MFR	MFR #
	Connective Tubing	A7002	Drive Medical	SUCP Tubing 10
			McKesson	16-66306
	Suction Catheter	A4624	Vyaire Medical	T60C
	Closed Suction Catheters	A4605	Vyaire Medical	T160C
			Avanos	220135
	Yankauer (oral suction tube)	A4628	McKesson	16-66201
	Resuscitator Bags	S8999	Vyaire Medical	2K8005
			Teleflex Medical	5372
	Drainage Device	A7048	BD PleurX	50-7510

Section 5

Mechanical Ventilation

What is a ventilator?

A ventilator is used to assist with breathing during anesthesia or sedation for an operation, or when a person is severely ill or injured and cannot breathe on their own. It also helps assist patients who have difficulty breathing.



Section 5

Mechanical Ventilation

How does a ventilator work?

The ventilator pushes air into the lungs to deliver a breath, then allows the air to come back out, just as the lungs would do if they were able to.

Why a ventilator is needed

A ventilator is necessary when the patient is unable to breathe well enough on their own to provide oxygen to the brain and body.

Conditions that require a ventilator:

When a patient is having difficulty breathing and needs assistance.

Care of a ventilator

- Wipe down ventilator as directed in the manufacturer guidelines
- Change out bacteria filters, circuits, tracheostomy adapters and water chambers as directed in the manufacturer guidelines

Who is the ventilator patient?

Anyone who suffers from a range of conditions, including:

- Chronic Obstructive Pulmonary Disease (COPD)
- ALS
- Multiple Sclerosis
- Cystic Fibrosis (CF)
- Muscular Dystrophy
- Any restrictive and neuromuscular diagnosis

Prevalence of ventilator patients in the U.S.

790,257 hospitalizations involving mechanical ventilation in 2005, representing 2.7 episodes of mechanical ventilation per 1,000 population; estimated national costs were \$27 billion representing 12% of all hospital costs.

Source: <https://www.ncbi.nlm.nih.gov/pubmed/20639743>

NON-INVASIVE AND INVASIVE VENTILATORS

Ventilator				
Product Image	Item Description	HCPC Codes	MFR	MFR #
	Non-Invasive Ventilator	EO466	Respironics Bi Pap	H5-DSX700H11
	Invasive Ventilators	EO465	Vyaire Medical (Care Fusion)	18984-001
			Medtronic	HT70PM-WW-NA

Section 5: Mechanical Ventilation (continued)

Ventilator Accessories				
Product Image	Item Description	HCPC Codes	MFR	MFR #
	Heat Moisture Exchangers (HMEs)	A4483	Vyaire Medical	003003
			Teleflex Medical	41312
			Medtronic	353U5413
			McKesson	16-6216
	Ventilator Circuits	N/A	Vyaire Medical	AH180
			Medtronic	BCD20801P
			Respironics	1073228
	Tracheostomy Swivel Adapter	N/A	Vyaire Medical	332113
	Bacteria Filters	N/A	Vyaire Medical	1851
			Teleflex Medical	1605
	Sterile Water	A4217	Vyaire Medical	2D0737
			Teleflex Medical	200-51

Product Image	Item Description	HCPC Codes	MFR	MFR #
	Pap Masks	A7034	Respironics	1050091
			Resmed	62111
	Resuscitator Bags	S8999	Vyaire Medical	2K8005
			Teleflex Medical	5372

Section 6

Resources



Section 6

Resources

Non-profit/advocacy

American Lung Association

www.lung.org

American Association for Respiratory Care

www.aarc.org

COPD Foundation

www.COPDFoundation.org

Cystic Fibrosis Foundation

www.cff.org

Sleep Foundation

<https://www.sleepfoundation.org/sleep-apnea>

McKesson

COVID-19/Coronavirus/SARS-CoV-2 Resources:

<https://mms.mckesson.com/content/coronavirus-update/>

Lab Testing Resources:

<https://mms.mckesson.com/content/clinical-resources/laboratory-resources/>

McKesson Academy™

mms.mckesson.com/mckesson-academy

McKesson Clinical Connections™ Webinars

<https://mms.mckesson.com/content/clinical-resources/online-education/educational-webinars-2/>

McKesson FluWise®

<https://mms.mckesson.com/content/clinical-resources/flu-management/>

McKesson Readmissions Resource™

<https://mms.mckesson.com/content/clinical-resources/care-management/reducing-hospital-readmissions/>

McKesson SupplyManager™

mms.mckesson.com

Vaccine Resources:

<https://mms.mckesson.com/content/shop-products/product-resources-2/vaccine-recommendations-adults/>

Manufacturers

Allied Medical Healthcare Products, Inc.

<http://www.alliedhpi.com/>

Avanos Medical

<https://avanos.com/>

BD

<https://www.bd.com/en-us>

Drive Medical

<https://www.drivemedical.com/us/en/Products/c/Products>

Mada

<https://www.madamedical.com/>

Medtronic

<https://www.medtronic.com/us-en/healthcare-professionals/products.html>

Philips Respironics

http://www.respironics.com/us_en

ResMed

<https://www.resmed.com/us/en/index.html>

Salter Labs

<https://www.salterlabs.com/>

Smiths Medical

<https://www.smiths-medical.com/products>

Teleflex Medical

<https://www.teleflex.com/emea/en/product-areas/>

Vitalograph

<https://vitalograph.com/>

Vyaire Medical Medical

<https://vyaire.com/products>

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