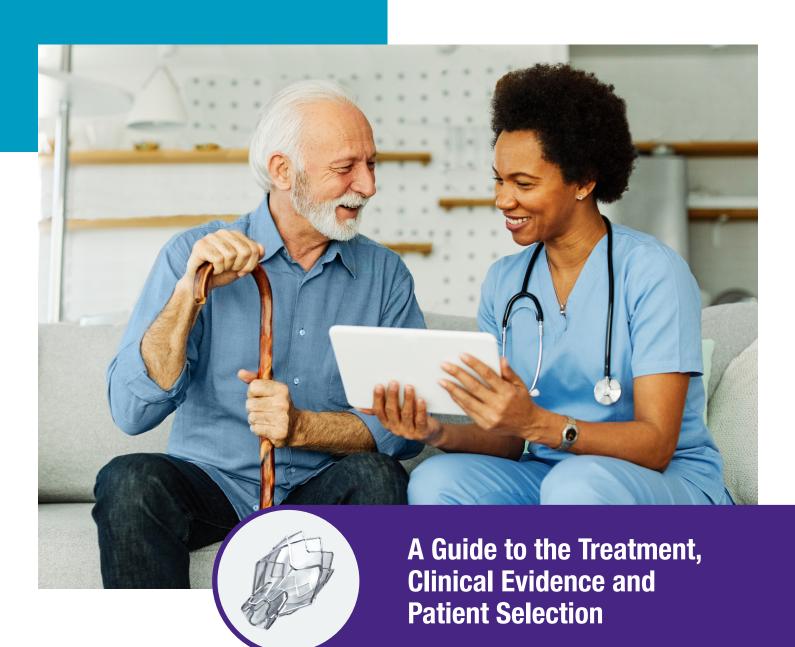
# Zephyr<sup>®</sup> Endobronchial Valve

A Proven Treatment for Breathlessness Due to Severe COPD/Emphysema











# **Do You Have Severe COPD/Emphysema Patients Like These?**

# Meet a Few Severe COPD/Emphysema Patients Treated with Zephyr® Valves

### Cindy, 56-year-old

#### **Before Zephyr Valve Treatment:**

- Basic tasks are difficult
- No appetite
- Anxious all the time
- Missing kids' activities and special moments



"The Zephyr Valves allowed me to feel like a normal person again."

#### **After Zephyr Valve Treatment:**

- Back to doing housework and going to the gym
- Able to travel to daughter's bowling tournaments
- Can stand and walk to the bathroom with no problem

# Mike, 65-year-old

#### **Before Zephyr Valve Treatment:**

- Several ER trips
- Pneumonia twice
- 4 liters of oxygen 24/7 for two years
- Had to retire early



"About six weeks after having my Zephyr Valves, I had my 'ah-ha' moment and knew that this worked for me when I was able to play badminton in the yard with my granddaughter on the 4th of July without oxygen."

#### **After Zephyr Valve Treatment:**

- On less oxygen right away; now only needed for sleeping
- Hikes and walks hilly roads
- Works in garden 5-6 hours a day

### Karen, 62-year-old

#### **Before Zephyr® Valve Treatment:**

- Gave up active lifestyle (cheerleading coach, gymnastics teacher, swim instructor)
- "Closet user" of oxygen
- Worried about future with grandkids



"I've been cleared to scuba dive again, but I am most excited to be able to swim with my grandkids this summer. I am so blessed with a big loving family, and I am just grateful to be feeling well again so we can enjoy our time together."

#### After Zephyr Valve Treatment:

- Feels like not just surviving, but now living
- Back on the go 2 months after procedure
- Infrequent oxygen use

### Darryl, 67-year-old

#### **Before Zephyr Valve Treatment:**

- Felt trapped at home
- No longer able to enjoy passions like road trips and concerts
- Couldn't catch his breath and began restricting normal activities



"After I got out of the hospital, it took about two weeks for me to feel the benefit of the valves. Now that I can breathe easier, I really have a new lease on life. I've added a trip to New Orleans to my bucket list — I've never been, and I think I would really enjoy it now."

#### **After Zephyr Valve Treatment:**

- Enjoys being outside
- Re-engaged with friends and family
- Works out at gym 3x week

# Zephyr<sup>®</sup> Endobronchial Valves: Most Studied. Most Proven. Most Used Valves for Severe COPD/Emphysema.<sup>1</sup>

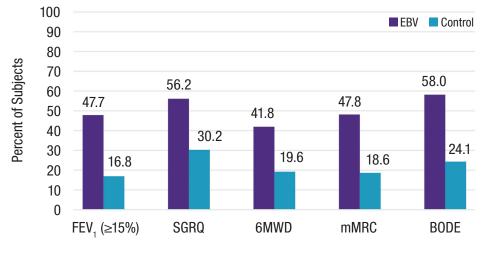
The Zephyr Endobronchial Valve is a clinically-proven bronchoscopic treatment for patients with severe COPD/emphysema who suffer from dypsnea despite optimized medical therapy.

The **2024 GOLD Report** summarized the following patient benefits reported in clinical studies on Endobronchial Valve (EBV) Treatment for severe COPD/emphysema:<sup>2</sup>

- Improved FEV, 6MWD, and health status at 6 and 12 months\*
- Improved survival after successful treatment (4 retrospective studies)
- Decreased exacerbations
- Decreased respiratory failure episodes

Complications of the Zephyr Endobronchial Valve treatment can include, but are not limited to, pneumothorax, worsening of COPD symptoms, hemoptysis, pneumonia, dyspnea and, in rare cases, death.

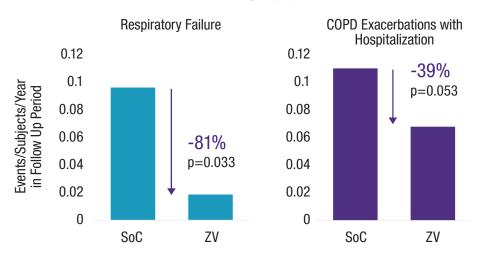
#### **Zephyr Valve Responder Rate 12 Months After Treatment**<sup>3</sup> Randomized Controlled Trials Primary & Secondary Endpoints



Responders were those that met the MCID improvement for each endpoint.

 $FEV_1$ :  $\geq 15\%$ , SGRQ Score:  $\geq -4$  points, 6MWD:  $\geq 25$  meter, mMRC:  $\geq -1$  points, BODE Index:  $\geq -1$  point

#### Indications of Lower Long-Term Respiratory Serious Adverse Events Following Zephyr Valve Treatment<sup>3</sup>



SoC = Standard of Care TreatmentZV = Zephyr Valve Treatment

Long-term follow up was the period 45 days posttreatment through the end of the 1-year study period

\*Quality and quantity of data rated "Evidence Level A"



# **Medications Alone Cannot Achieve the Same Benefits**

Patients treated with the Zephyr<sup>®</sup> Valve in addition to medications, as compared to patients on medication alone, were able to:<sup>3</sup>

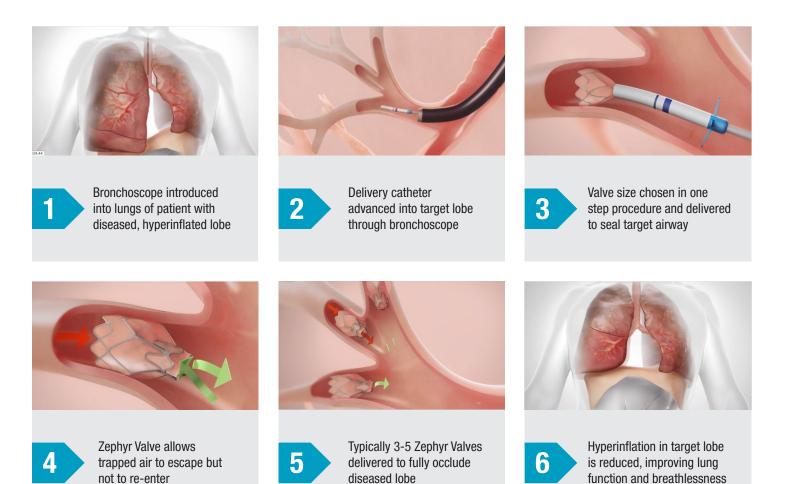
- Return to a more active lifestyle
- · Feel less shortness of breath
- Walk longer distances
- Have more energy
- Feel more confident leaving their home

The **2024 GOLD Report** states that **hyperinflation** is clinically relevant in patients with COPD and contributes to dyspnea, impaired exercise capacity, increased hospitalizations, respiratory failure, increased mortality.<sup>2</sup>

Unlike medical treatments that only mildly improve shortness of breath symptoms, Zephyr Valves target the **root cause of breathlessness** – releasing trapped gasses that cause hyperinflation. They can provide a greater benefit than medications alone.<sup>3-6</sup>

### Zephyr Valves Improve Lung Function by Treating Hyperinflation

Zephyr Valves are one-way valves that are intended to treat hyperinflation. They are placed into the major airways of a diseased lobe via bronchoscopy, allowing trapped air to escape and preventing new air from entering. The lobe will deflate, allowing the rest of the lung to expand and the diaphragm to rise.<sup>3-6</sup>



# **Consider Zephyr® Endobronchial Valves for All Patients** with Severe COPD/Emphysema

Patients with varying levels of symptom burdens can benefit from Zephyr Valve treatment. There is no need to restrict this treatment for only patients with the most severe symptoms.

Many physicians report that they see more benefit in patients who are just beginning to limit their activities due to breathlessness. They recommend evaluating patients earlier to avoid a situation where patients are too sick to qualify.

	Spectrum of quality	fying symptom burden	
Profiles of Patients who Qualified for Zephyr Valve Treatment			
Shortness of Breath	On activity	On activity & at rest	Continuous
Activity Level	Limiting activities	Difficulty with activities of daily living	Inability to perform many activities of daily living
Oxygen Therapy	None	As needed	Continuous
Exacerbation History (Moderate & Severe)	None	Past ED visit(s)	Past hospitalization(s)
Quality of Life Challenges	Difficulty keeping up with family and friends	Breathless even walking short distances; doesn't go to grocery store or run errands anymore	Reliance on help for everyday activities; severe anxiety when showering
After Treatment Goals	Walk the dog, play with grandchildren	Have more confidence leaving the house	Be more independent

### Ask Your Patients About How COPD/Emphysema is Affecting Their Quality of Life

Asking these questions at clinic visits may help patients better communicate about how breathlessness is impacting their quality of life:

- What activities could you do last year that are no longer possible?
- How often do you have to stop to catch your breath?
- Do you need help in order to do your regular chores and activities?
- Are you able to leave the house and go places without assistance?

# **Globally Recognized. Broad Insurance Coverage.**

Endobronchial Valve Treatment is a part of the standard of care for severe COPD/emphysema.



The **2024 GOLD Report** summarized the following patient benefits reported in clinical studies on Endobronchial Valve (EBV) Treatment:<sup>2</sup>

- Improved FEV, 6MWD, and health status at 6 and 12 months\*
- Improved survival after successful treatment (4 retrospective studies)
- Decreased exacerbations
- 2024 Report
- Decreased respiratory failure episodes

#### Endobronchical valves are included in national and global guidance documents such as:

- UpToDate
- Global Initiative for Chronic Obstructive Lung Disease (GOLD)
- National Institute for Health and Care Excellence (NICE)
- German Respiratory Society (DGP)
- Austrian Respiratory Society (OGP)
- National Health Care Institute of the Netherlands (Zorginstituut Nederland)
- Milliman Care Guidelines (MCG)

# Zephyr<sup>®</sup> Valve has Broad Coverage

More than 90% of patients nationwide are under policies with positive coverage or under plans that are not restricting access.\*\*

- · Medicare is covering patients who qualify
- >95% of patients with commercial insurance are securing coverage\*\*\*

\*Quality and quantity of data was rated "Evidence Level A."

\*\*Pulmonx data on file; assuming patients meet medical criteria for BLVR.

Zephyr Valves are approved by the Food and Drug Administration (FDA). Providers should contact their individual payers prior to performing the Zephyr Valve procedure for information on coverage.

The information is subject to change without notice because of complex and frequently changing laws, regulations, rules, and policies.

For reimbursement information, please visit: bit.ly/4aipqRl.

\*\*\*Pulmonx Patient Reimbursement Support Program experience through the prior authorization process, for cases where patients opted in.

# **Patient Benefits Proven in Four Randomized Controlled Trials**

### **Consistent Outcomes Across 4 Randomized Controlled Trials** in Patients Without Collateral Ventilation<sup>3-6</sup>

			Difference Zephyr <sup>®</sup> Valve vs. Control Groups (ITT)			
RCT	Design	Sample size & follow-up period	LUNG FUNCTION (FEV <sub>1</sub> %)	EXERCISE CAPACITY (6MWD)	QUALITY OF LIFE (SGRQ)	
LIBERATE <sup>3</sup>	2:1 Randomization Heterogenous only Multicenter	n=190 12 months	<b>18.0%</b> p<0.001	<b>39 m</b> p=0.002	<b>-7.1 pts</b> p=0.004	
TRANSFORM <sup>4</sup>	2:1 Randomization Heterogenous only Multicenter	n=97 6 months	<b>29.3%</b> p<0.001	<b>79 m</b> p<0.001	-6.5 pts p=0.031	
<b>IMPACT</b> ⁵	1:1 Randomization Homogenous only Multicenter	n=93 6 months	16.3% p<0.001	28 m p=0.016	-7.5 pts p<0.001	
STELVIO <sup>6</sup>	1:1 Randomization Heterogenous & Homogenous Single center	n=68 6 months	17.8% p=0.001	<b>74 m</b> p<0.001	-14.7 pts* p<0.001	

\*Completed Cases, all other values listed are ITT population

### **Reversible Procedure**

While the majority of Zephyr Valve patients do achieve a positive benefit, if a patient does not favorably respond to treatment, the procedure can be reversed by removing the valves via bronchoscopy.

# **Potential Risks**

The major significant side effect associated with the Zephyr Valve procedure in the short-term is pneumothorax, which occurs in approximately one-third of patients. Targeted lobar deflation can cause inflation of the ipsilateral lobe, which can result in a tear of the already compromised parenchymal tissue of the emphysematous ipsilateral lobe, resulting in pneumothorax. In the LIBERATE clinical study, subjects experiencing a pneumothorax attained the same level of benefit over the long-term as those without pneumothorax. Patients remain in the hospital at least 3 nights after the procedure in order to monitor this or any other potential side effect. Zephyr Valve Treating physicians and their staff are trained to recognize the signs and symptoms and to treat a pneumothorax.

Other complications of Zephyr Endobronchial Valve treatment can include, but are not limited to worsening of COPD symptoms, hemoptysis, pneumonia, dyspnea, and in rare cases, death.

# **Real Benefits that Make a Difference in Patients Lives**

### Zephyr® Valve Treatment Leads to Improved Health Status<sup>3</sup>

Patients treated with Zephyr Valves **experienced clinical benefits and improved quality of life** when compared to patients who were on medications alone.<sup>3</sup>



Improved Health Status (BODE)

Improved Quality of Life & Exercise (SGRQ, TDI/BDI, CAT, 6MWD)

Reduced Breathlessness (mMRC, BORG)

**Improved Lung Function** (FEV<sub>1</sub>, DLCO, FRC)

**Reduced Gas Trapping** (RV, IC/TLC)

Successful Lobar Occlusion (TLVR)



#### Breathe Easier Be less short of breath with increased lung function.<sup>3</sup>



#### **Have More Freedom**

Do more things on their own like bathing, cooking, and cleaning.<sup>3</sup>



### Enjoy Life More

Have more energy and get back to their favorite hobbies and socializing.<sup>3</sup>



Feel More Confident When leaving home and living life.<sup>3</sup>

Help Your Patients with Severe COPD/Emphysema Achieve a Better Quality of Life with Zephyr Valves

# **Potential Impact on Exacerbations**

Exacerbations drive the progression of COPD, resulting in lower quality of life and higher mortality. Clinical research suggests that treatment with Endobronchial Valves reduces the number of moderate and severe exacerbations in patients with severe emphysema.

A single-center retrospective analysis of 129 patients treated with Endobronchial Valves examined the number of exacerbations before and after Endobronchial Valve Treatment.

The primary endpoint of the study was the number of exacerbations one year after Endobronchial Valve Treatment compared to one year before. Below is a summary of these results.<sup>7</sup>

#### Moderate to Severe Moderate to Severe Decrease in Exacerbations Exacerbations Sample Exacerbation Rate PATIENT GROUP Size Year Before First Year After (Percent) Treatment Treatment All patients who received 1.8 +/- 2.2 n=129 2.5 +/- 2.2 -32% **Endobronchial Valve Treatment** p=0.009Patients who received **Endobronchial Valve** 1.4 + / - 1.82.8 + / - 2.0n=41 -50% p<0.001 Treatment and had complete lobar atelectasis

# **Clinical Outcome 1 Year After Treatment Compared to Baseline**

The study authors concluded treatment with Endobronchial Valves "appears promising to reduce the exacerbation rate in COPD patients, especially when the full treatment benefit of complete lobar atelectasis is achieved."

Title: Endobronchial lung volume reduction with valves reduces exacerbations in severe emphysema patients

Author: Brock, J et al.

Publication Date: September 2023

Journal: Respiratory Medicine

Endobronchial Valve Treatment is delivered in a procedure that is commonly called either "Endobronchial Lung Volume Reduction (ELVR)" or "Bronchoscopic Lung Volume Reduction (BLVR)." These procedure names are frequently referenced in clinical studies.

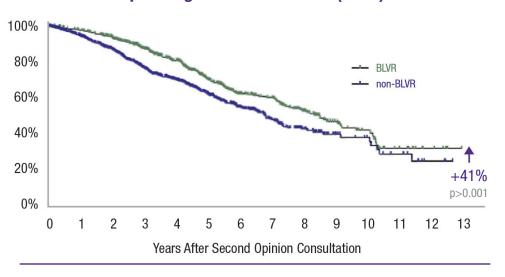
# **Potential Impact on Survival**

In a first-of-its-kind study, researchers examined the survival rate of severe COPD/emphysema patients undergoing Bronchoscopic Lung Volume Reduction (BLVR) vs. patients who were *evaluated* for BLVR but *not treated*.

This single-center, non-randomized, retrospective analysis included 1,471 patients.

The study found that patients treated with BLVR:8

- Had a statically significant survival rate of 1.7 years longer than the non-treated group
- Were 41% less likely to die over the course of the study



### **Retrospective Analysis of Long-Term Survival Following Bronchoscopic Lung Volume Reduction (BLVR) Treatment**

The study authors concluded: "BLVR treatment was found to be an independent predictor of survival when adjusting for other survival-influencing factors such as age, gender, or severity of disease."

Title: Survival in COPD patients treated with bronchoscopic lung volume reduction Author: Hartman, J et al. Publication Date: March 2022 Journal: Respiratory Medicine

In the study described above, the BLVR group comprised 483 patients and the non-BLVR group comprised 988 patients. Of the BLVR group, 73% of patients received BLVR with Zephyr<sup>®</sup> Valves and 27% received endobronchial coils [a technology that is not approved in the United States].

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# **Zephyr® Valve Treatment Screening Protocols**

A common way to identify patients who may qualify for Zephyr Valves is to prospectively review the PFT tests for all severe COPD/emphysema patients.

### Step 1: Prospective PFT Screening

Patients with the following characteristics could be flagged as meeting the baseline criteria for the Zephyr Valve Treatment:

- Evidence of Severe Obstruction
  - $FEV_1 \le 50\%$  predicted (spirometry)
- Evidence of Hyperinflation
  - Body Plethysmography: RV ≥ 150% predicted
     Nitrogen Washout Lung Volumes are not recommended\*
  - Imaging: Chest X-ray: Flattened diaphram
  - HRCT: Evidence of emphysematous tissue

### **Step 2: Qualifying and Counseling Patients**

Patients who meet Step 1 criteria should be further examined to determine if they meet the other Zephyr Valve eligibility criteria:

- Confirmed diagnosis of severe COPD/emphysema
- 6MWD = 100-500m or 328-1640ft
- Non-smoking or willing to quit smoking

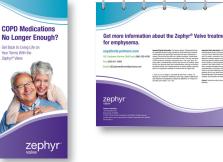
# **Zephyr Valve Patient Education & Clinical Resources**

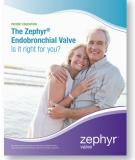
The following patient education resources for physician offices are available for order at <u>pulmonx.com/office-resources-support</u>.



Patient Education Flipbook







Clinical education resources, including videos, real-world stories, programs, and webinars are available at pulmonx.com/clinical-education-resources/.



\*Gas dilution PFT tests, like Nitrogen Washout or Helium Dilution, have been shown to underestimate TLC & RV because only communicating gas volume is measured in these tests. In the presence of severe airflow obstruction, TLC can be underestimated by a gas dilution method by as much as 3 liters.<sup>9-11</sup>

# New Recommendation from GOLD: Simultaneously Screen for Both COPD & Lung Cancer

The United States Preventative Service Task Force (USPSTF) recommends annual screening to diagnose lung cancer for people aged 50-80 years with a 20 pack-year smoking history.<sup>12</sup>

GOLD now recommends that patients being screened for lung cancer should also simultaneously be screened for COPD.

# Studies show that when patients undergoing lung cancer screening are also evaluated for COPD symptoms and given spirometry:<sup>2</sup>

### • 57% were found to have COPD

- 68-73% have emphysema
- 67% have undiagnosed COPD, and 50% of these patients were symptomatic

Patients with emphysema and a  $\text{FEV}_1 \le 50\%$  predicted may qualify for Zephyr<sup>®</sup> Valves, and could benefit from a full evaluation to see if they meet the other eligibility criteria.

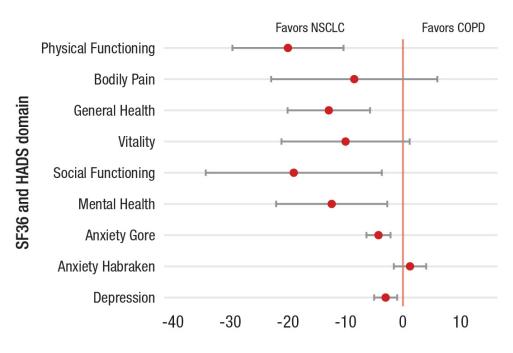


## COPD Patient's Quality of Life Worse than End-Stage Lung Cancer<sup>13</sup>

Lung cancer and COPD share common risk factors and a similar patient profile. Both are terrible diseases that worsen quality of life and shorten survival.

A clinical study found that end-stage (GOLD IV) COPD patients have comparable or worse health-related quality of life (HRQOL) scores than end-stage, non-small cell lung cancer patients.

#### Differences in Health-Related Quality of Life Scores. End-Stage COPD vs End-Stage NSCLC Patient Groups. (95% Cl)



Difference between COPD and NSCLC patients with 95% CI

# Patient Eligibility Criteria for Zephyr® Valve Treatment

If shortness of breath is not controlled with medical management, patients may qualify for Zephyr Valves based on the following:

#### **Clinical Presentation**

- Severe COPD/emphysema
- Shortness of breath upon activity or rest
- Limited in daily functions
- Dissatisfied with activity level and quality of life

#### **Medical History**

- Full medical treatment for COPD
- Periods of stable and/or unstable COPD
- Persistent COPD symptoms
- History of smoking
- Usage of supplemental oxygen not required

Diagnosis and Symptoms	<ul> <li>Severe COPD/emphysema</li> <li>Shortness of breath upon activity or rest</li> </ul>
Evidence of Obstruction	□ Spirometry: $FEV_1 \le 50\%$ predicted, post-bronchodilator
Evidence of Hyperinflation	<ul> <li>□ Hyperinflation confirmed by one of the following:</li> <li>■ Body Plethysmography: RV ≥ 150% predicted <i>Nitrogen Washout Lung Volumes are not recommended*</i></li> <li>■ Imaging: Chest X-ray: Flattened diaphram</li> <li>■ HRCT: Evidence of emphysematous tissue</li> </ul>
6-Minute Walk Test	□ 100-500m / 328-1640ft Walk for distance on baseline $O_2$ without $O_2$ titration
Smoking Status	Non-smoking or willing to quit smoking

Zephyr Valves have been clinically proven in:

- Heterogeneous and homogeneous emphysema
- Upper lobe and lower lobe predominant emphysema

#### **Contraindications**<sup>14</sup>

- Patients for whom bronchoscopic procedures are contraindicated
- Patients with evidence of active pulmonary infection
- Patients with known allergies to Nitinol, Nickel, Titanium, or Silicone
- Patients who have not quit smoking
- Patients with large bullae encompassing greater than 30% of either lung

#### Warnings<sup>14</sup>

The Zephyr Valve should be used with caution and only after careful consideration in patients with:

- Prior lung transplant, LVRS, median sternotomy or lobectomy
- Congestive heart failure (left ventricular ejection fraction <45%); myocardial infarction
- FEV<sub>1</sub> < 15% of predicted value

\*Gas dilution PFT tests, like Nitrogen Washout or Helium Dilution, have been shown to underestimate TLC & RV because only communicating gas volume is measured in these tests. In the presence of severe airflow obstruction, TLC can be underestimated by a gas dilution method by as much as 3 liters.<sup>9-11</sup>

# **Zephyr® Valve Treating Centers**

## **Diagnostic Testing**

Once the patient is referred to the Zephyr Valve Treating Center, the clinical team may confirm patient eligibility with additional testing that may include:

- Full pulmonary function testing
- 6-minute walk test
- High resolution CT scan with specialized protocols
- Echocardiogram
- Arterial blood gas
- Perfusion testing

While these tests are typically performed at the hospital-based treating center, it may be possible to perform some of these diagnostics locally. Physicians should confirm protocols by contacting the treating center prior to ordering any tests.

Patients are seen in the post-procedure timeframe by the Zephyr Valve treating physician, but they also may return to their PCP or the physician who sent them for consultation.

# **Assess Patient Eligibility and Likelihood of Success**

The Zephyr Valve Treating Center will use the following technologies to assess whether a patient may benefit from Zephyr Endobronchial Valves.

Patient ID 123458 Scan ID ID-789 CT Scan Date 8/14/20		Upload Di Report Da Scan Commer				
SUMMARY				Contraction Contra	2% Voxel Densi s Than -910 HL 20% Voxel Dens s Than -910 HL 60% Voxel Dens s Than -910 HL 2% Voxel Dens 3 Than -910 HL	uity uity uity ty
RESULTS				- 80-	5% Fissure Con 95% Fissure Co 2% Fissure Con	mpleteness
RESULTS	RIGHT LUN	G RUL+RML	RML	- 80-	95% Fissure Co	mpletenes
% Fissure Completeness			RML 79	60 <8	95% Fissure Co 9% Fissure Con LEFT LUNG	impletenes opleteness
% Fissure	RUL				95% Fissure Con LEFT LUNG	impletenes opleteness
% Fissure Completeness % Vaxel Density	RUL 79	SO	79		95% Fissure Co 2% Fissure Con LEFT LUNG LUL 95	unpleteness upleteness

### StratX<sup>®</sup> Lung Analysis Platform:

CT analysis provides information on emphysema destruction, fissure completeness, and lobar volume to help identify target lobes for Zephyr Valve treatment. Patients with fissure completeness scores are reviewed for collateral ventilation,\* to confirm that they may be good candidates for Zephyr Valve treatment.



### **Chartis® Pulmonary Assessment System:**

Immediately prior to the Zephyr Valve procedure, a Chartis System assessment is performed via bronchoscopy to confirm the absence of collateral ventilation.\*

\*Collateral ventilation happens when the fissure structure between lobes is not solid and air can pass through from one lobe to another. Patients who are positive for collateral ventilation (CV+) will not benefit from Zephyr Valves.



To find a Zephyr Valve Treating Center, please visit: <u>https://bit.ly/zephyr-connect</u>



Important Safety Information: The Pulmonx Zephyr® Endobronchial Valves are implantable bronchial valves indicated for the bronchoscopic treatment of adult patients with hyperinflation associated with severe emphysema in regions of the lung that have little to no collateral ventilation. The Zephyr Valve is contraindicated for: Patients for whom bronchoscopic procedures are contraindicated; those with evidence of active pulmonary infection; known allergies to Nitinol (nickeltitanium) or its constituent metals (nickel or titanium); known allergies to silicone; or with large bullae encompassing greater than 30% of either lung; Patients who have not guit smoking. The Zephyr Valve should be used with caution and only after careful consideration in treating patients with: Prior lung transplant, LVRS, median sternotomy, or lobectomy; Congestive heart failure or recent myocardial infarction; FEV, <15% of predicted value. Use is restricted to a trained physician. Prior to use, please reference the Zephyr Endobronchial Valve System Instructions for more information on indications, contraindications, warnings, all precautions, and adverse events.

**Caution:** Federal law restricts this device to sale by or on the order of a physician.

**Important Safety Information:** The Chartis<sup>®</sup> System is indicated for use by bronchoscopists during a bronchoscopy in adult patients with emphysema, a form of Chronic Obstructive Pulmonary Disease (COPD), in a bronchoscopy suite. The system, composed of the Chartis Catheter and Chartis Console, is designed to measure pressure and flow in order to calculate resistance to airflow and quantify collateral ventilation in isolated lung compartments. The Chartis Catheter is used through the working channel of a bronchoscope and connects to the Chartis Console. The Chartis Console is capital equipment that is reusable and displays the patient information. The Chartis System is contraindicated in the presence of active infection or major bleeding diathesis. There are no known interfering substances. Use is restricted to a trained physician. Prior to use, please reference the Chartis System Instructions for Use/ User Manual for more information on indications, contraindications, warnings, all precautions, and adverse events.

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