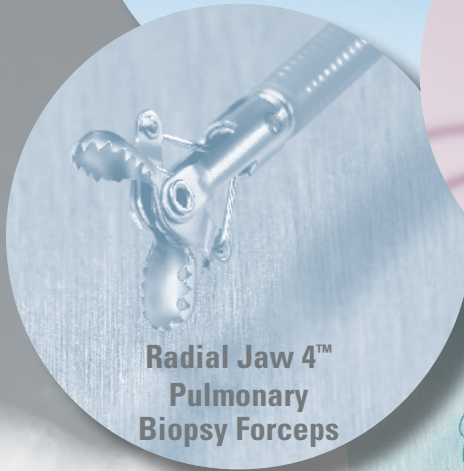


Pulmonary Endoscopy

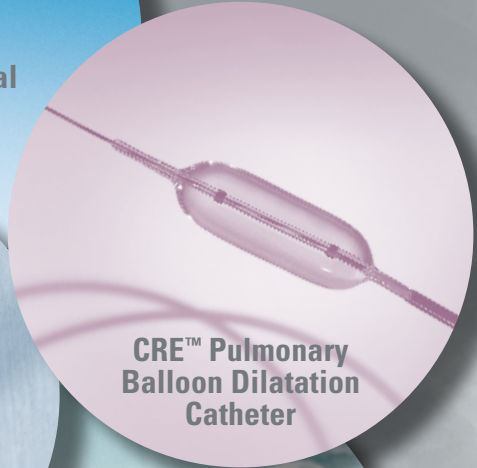
**Boston
Scientific**
Advancing science for life™



**Alair™ Bronchial
Thermoplasty
Catheter**



**Radial Jaw 4™
Pulmonary
Biopsy Forceps**



**CRE™ Pulmonary
Balloon Dilatation
Catheter**



**Ultraflex™
Tracheobronchial
Stent System**

Diagnostic Devices

- 1 **Radial Jaw 4™**
Pulmonary Biopsy Forceps
Single-Use Device
- 2 **Celebrity™**
Cytology Brushes
Single-Use Device
- 3 **eXcelon™**
TransBronchial Aspiration Needle
Single-Use Device

Therapeutic Devices

- 4 **CRE™**
Pulmonary Balloon Dilatation
Catheter
Single-Use Device
- 5 **Zero Tip™**
Airway Retrieval Basket

Tracheobronchial Stents

- 6 **Ultraflex™ TracheoBronchial**
Pulmonary Stent System
Single-Use Device
- 9 **Polyflex™**
Airway Stent
- 11 **Dynamic™ (Y) Stent**
Bifurcated TracheoBronchial Stent

Bronchial Thermoplasty

- 12 **The Alair™ System**
Bronchial Thermoplasty System

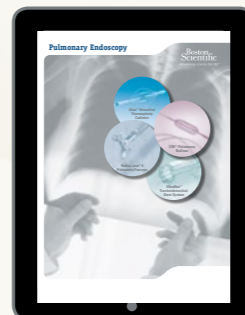
Pulmonary Endoscopy

Boston Scientific is committed to **helping advance the diagnosis and treatment of pulmonary diseases** by focusing on the development of less invasive devices and procedures.

In addition to our innovation in airway stent technologies, Boston Scientific offers a range of diagnostic and therapeutic devices including biopsy forceps, transbronchial aspiration needles, cytology brushes, dilation balloons, and retrieval baskets.

We would also like to introduce Bronchial Thermoplasty, a new device-based treatment of severe persistent asthma in patients 18 years and older.

Our mission is to remain one of the globally recognized leaders in the management of pulmonary disease. We are fully dedicated to developing devices and procedures to improve the quality of life for patients.



This brochure is also available for download to your iPad® Device.

Radial Jaw 4™

Pulmonary Biopsy Forceps
Single-Use Device

The Radial Jaw 4 Pulmonary Biopsy Forceps are intended to collect tissue endoscopically for histologic examination.

New Surgical Stainless Steel Jaw with Improved Micromesh teeth

Designed to Provide:

- ▶ Tissue specimens for excellent sample handling and preparation
- ▶ Clean, precise bite for accurate histological diagnosis

New Streamlined Catheter

Designed to Provide:

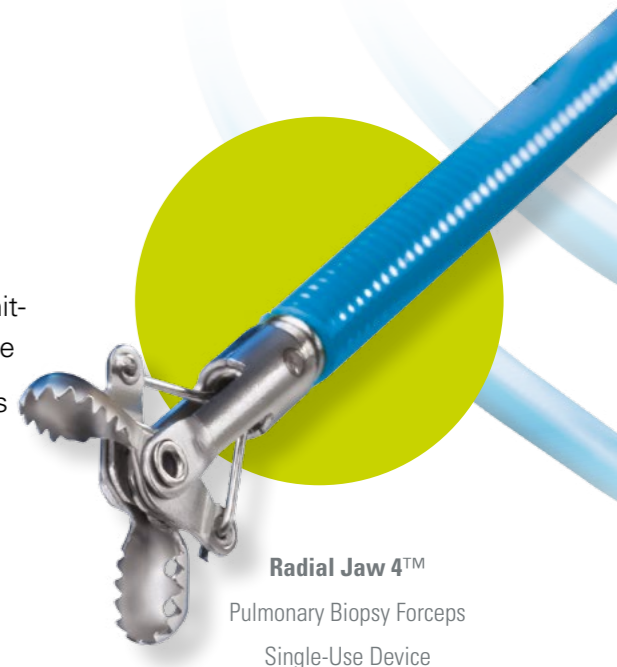
- ▶ Enhanced passability through tortuous anatomy
- ▶ The right balance of columnar strength and flexibility for excellent pushability and control during scope passage

Single-Use

- ▶ Eliminates the risk of transmitting patient-to-patient disease
- ▶ Provides first time sharpness

New Distal End Tube

- ▶ Improved visibility
- ▶ Prevents inadvertent lodging of the cap in the scope working channel



Radial Jaw 4™
Pulmonary Biopsy Forceps
Single-Use Device

Radial Jaw 4™ Pulmonary

Pulmonary Biopsy Forceps – Single-Use Device

Order Number	Description	Jaw O.D. (")	Working Length (cm)	Minimum Working Channel (mm)	Units
M00515181	Radial Jaw 4 Standard Capacity	1.8	100	2.0	box 5
M00515182	Radial Jaw 4 Standard Capacity	1.8	100	2.0	box 20
M00515191	Radial Jaw 4 Standard Capacity w/Needle	1.8	100	2.0	box 5
M00515192	Radial Jaw 4 Standard Capacity w/Needle	1.8	100	2.0	box 20
M00515201	Radial Jaw 4 Large Capacity	2.2	100	2.8	box 5
M00515202	Radial Jaw 4 Large Capacity	2.2	100	2.8	box 20

The Celebrity Cytology Brush is indicated for acquiring tissue samples used for the diagnosis of suspected pathology in the airway tree.

PTFE Sheath

- Designed to help reduce friction, facilitating passage through the scope

Stainless Steel Wire Shaft

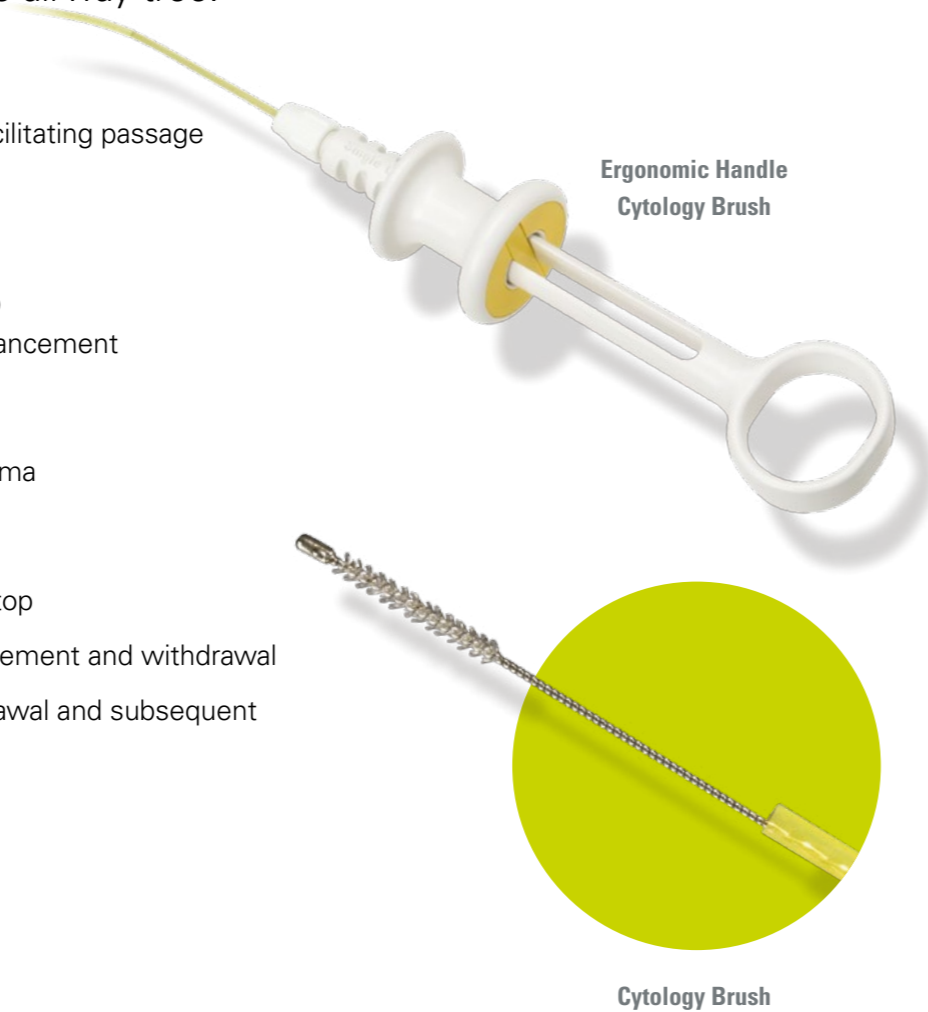
- Intended to provide strength to help resist kinking or bending during advancement

Bullet-Shaped Tip

- Designed to help reduce tissue trauma

Ergonomic Handle

- Ergonomic handle with automatic stop
- Facilitates single-hand brush advancement and withdrawal
- Helps reduce the risk of overwithdrawal and subsequent kinking of proximal shaft



Order Number	Description	Required Working Channel (mm)	Bristle O.D. (mm)	Sheath Length (cm)	Units
M00516001	Celebrity Cytology Brush	2.0	1.0	140	box 10
M00516011	Celebrity Cytology Brush	2.0	1.5	140	box 10
M00516071	Celebrity Cytology Brush	2.0	1.9	100	box 10
M00516151	Celebrity Cytology Brush	2.0	1.9	150	box 10

The eXcelon Transbronchial Aspiration Needle is indicated for use in aspiration in carinal, paratracheal, and hilar lesions of the bronchial tree where biopsy forceps cannot obtain a submucosal sample.

Procedural Safety Features

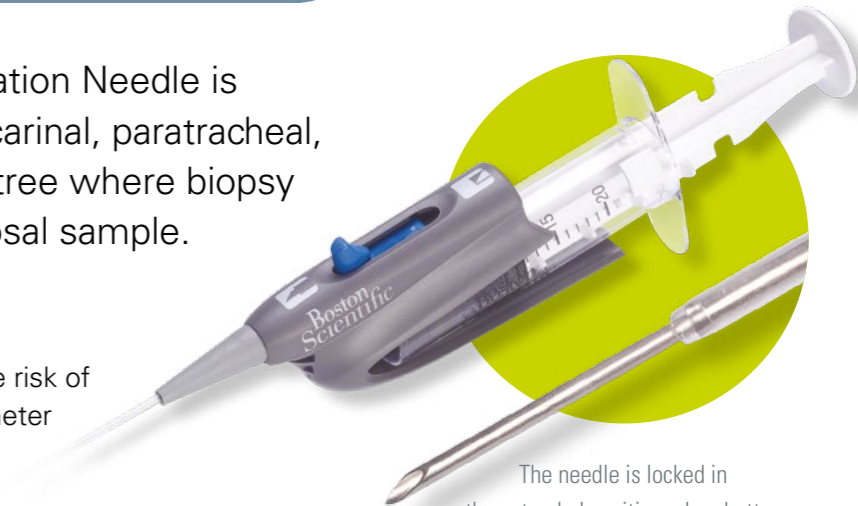
- Button Lock system is designed to reduce risk of accidental needle deployment during catheter advancement, potentially avoiding costly scope damage
- Fused hub and needle configuration is designed to help prevent needle detachment
- Clear catheter designed for visualization if blood is drawn during aspiration

High Performance Design

- “X-Catheter” is engineered to promote responsiveness and kink resistance for smooth needle penetration
- Distal coil is designed to promote tip flexibility while maintaining rigidity at the proximal end
- Needle internal volume is designed to provide increased space for specimen collection

Procedural Convenience Features

- Syringe locking feature is designed to reduce aspirating effort during the procedure and facilitate “single-handed” actuation
- Ergonomic handle design
- No need to disconnect syringe to break vacuum



X-Catheter Design

*Needle packaged with 20cc Syringe.

Order Number	Description*	Needle			Needle Length (mm)	Catheter Length (cm)	Sheath O.D. (mm)	Units
		Gauge	O.D. (mm)	I.D. (mm)				
M00564101	eXcelon Transbronchial Aspiration Needle w/Syringe	19	1.07	0.69	15	130	1.8	box 5
M00564111	eXcelon Transbronchial Aspiration Needle w/Syringe	20	0.90	0.58	15	130	1.8	box 5
M00564121	eXcelon Transbronchial Aspiration Needle w/Syringe	21	0.81	0.50	15	130	1.8	box 5

The CRE Pulmonary Balloon Dilator is intended to be used to endoscopically dilate strictures of the airway tree.

Three-in-One Technology

- Designed for successive, gradual dilation of strictures
- Helps eliminate the need for multiple balloons to employ multi-size dilation therapy

First Balloon Indicated for the Airway

- Indicated for airway stricture management

High Degree of Radial Vector Force

- Promotes low stricture compliance with little or no balloon waisting

0.035" Guidewire Compatible

- Designed for use with 0.035" Jagwire™ Pulmonary Guidewires

Rectilinear Shoulder Design

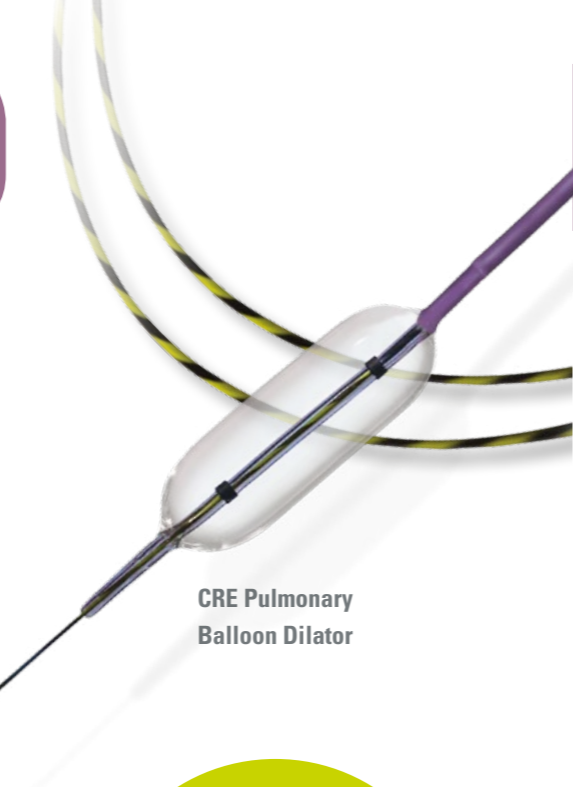
- Engineered to help promote endoscopic visualization
- Designed to provide greater usable balloon surface area during dilation

Radiopaque Markers

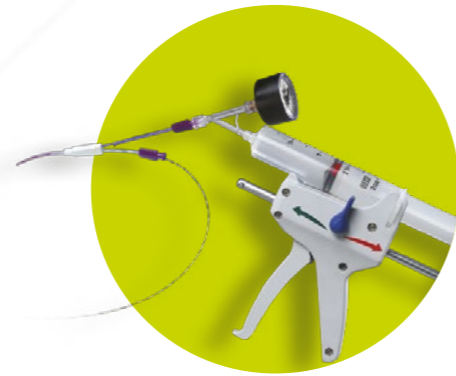
- Designed to facilitate fluoroscopic guidance of balloon positioning within a stricture

Inflation and Deflation

- Compatible with the Alliance™ II Inflation System
- Designed for rapid inflation and deflation when used with the Alliance II Inflation System



CRE Pulmonary Balloon Dilator



Alliance™ II Inflation System

Order Number	Description	Balloon Length (cm)	Initial Balloon O.D. (mm)	Intermediate Balloon O.D. (mm)	Maximum Balloon O.D. (mm)	Working Catheter Length (cm)
M00550300	CRE Balloon	5.5	12	13.5	15	75
M00550310	CRE Balloon	5.5	15	16.5	18	75
M00550320	CRE Balloon	5.5	18	19.0	20	75
M00550330	CRE Balloon	3.0	8	9.0	10	75
M00550340	CRE Balloon	3.0	10	11.0	12	75
M00550350	CRE Balloon	3.0	12	13.5	15	75

Packaged one per box

Alliance™ II Inflation System		
Order Number	Description	Units
M00550620	Alliance™ II Inflation Handle	box 1
M00550601	60ml Syringe/Gauge Assembly	box 5

Jagwire™ Pulmonary Guidewire				
Order Number	Description	O.D. (in) / (mm)	Length (cm)	Units
M00515171	Jagwire	.035 / 0.89	180	box 2

ZeroTip Airway Retrieval Basket is indicated to be used to endoscopically remove foreign bodies in the airway.

Access

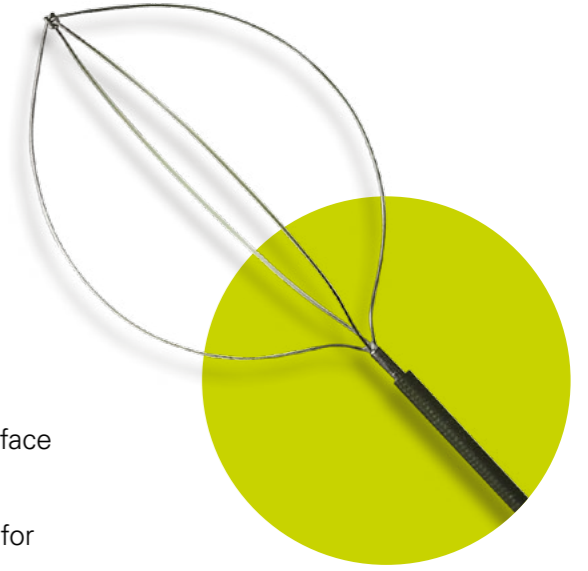
- Designed for access to the upper lobes where rigid bronchoscopy may be insufficient

Low-Profile Tip Design

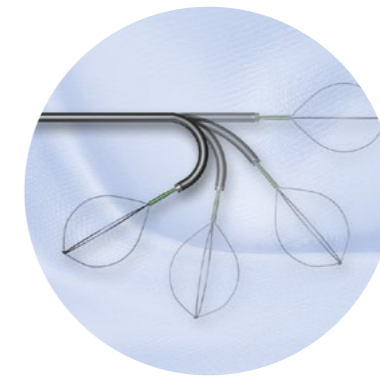
- Flattened distal surface designed to reduce tissue-to-tip interface for smooth manipulation
- Knotted basket tip designed to help prevent wire movement for more reliable foreign body capture
- Low-profile basket configuration facilitates proximity to foreign body, enhancing retrieval

Advanced Construction

- Nitinol wire construction designed to offer a kink-resistant, flexible wire for scope deflection
- Low-friction sheath designed for smooth scope passage
- Multi-layer sheath is designed to enhance pushability, while maintaining flexibility for enhanced scope deflection



ZeroTip Airway Retrieval Basket



Nitinol wire construction for enhanced scope deflection.



Engineered for foreign body retrieval, even in the upper lobes.

Order Number	Description	Sheath O.D. (mm)	Working Length (cm)	Basket Opening (mm)	Sheath Material	Units
M00513200	ZeroTip Airway Retrieval Basket	0.8	120	12	Polyimide / PTFE	Each
M00513210	ZeroTip Airway Retrieval Basket	1.0	120	16	Polyimide / PTFE	Each

Ultraflex™ TracheoBronchial

Pulmonary Stent System
Single-Use Device



The Ultraflex TracheoBronchial Stent System is indicated for use in the treatment of tracheobronchial strictures produced by malignant neoplasms.

The Ultraflex Tracheobronchial Stent System is Designed to Address the Following Clinical Needs:

Accommodate Varying Airway Anatomy without Kinking

Knitted Nitinol Design

- Stent geometry is designed to adapt to anatomical contours and exert constant, gentle radial pressure to maintain patency while diffusing acute compression forces

Wide Range of Sizes

- Variety of lengths and diameters in both covered and uncovered designs is intended to allow for complete bridging of stricture

Clear Secretions

Flexible Open Loop Design

- Epithelization of uncovered stent may promote mucociliary clearance

Resist Migration

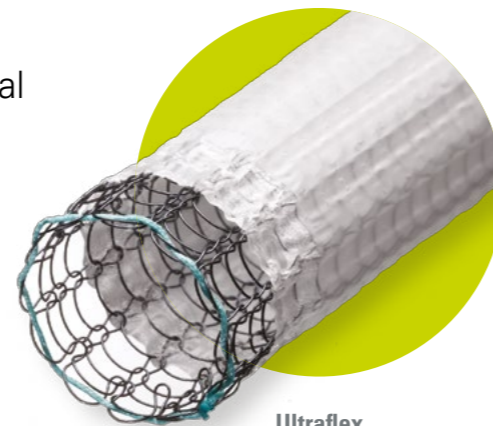
Uncovered Ends

- Epithelization of ends may limit migration

Resist Tumor Ingrowth

Polyurethane Covering

- On the covered version, covering helps resist tumor growth



Ultraflex TracheoBronchial Covered Stent System



Ultraflex TracheoBronchial Uncovered Stent System

Delivery System

Low Profile

- The compressed stent and delivery system have between a 5-7mm outer diameter. The system is designed to facilitate advancement across tumors and may be placed via flexible or rigid bronchoscopy

Flexibility

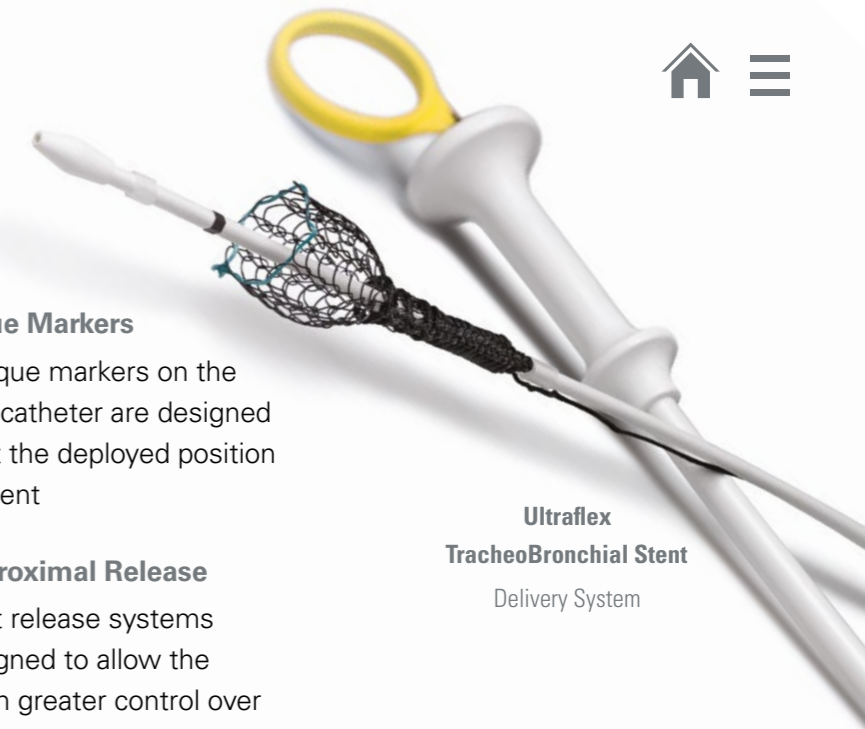
- The flexible delivery catheter is designed to enhance the ease of navigation through the airway

Radiopaque Markers

- Radiopaque markers on the delivery catheter are designed to target the deployed position of the stent

Distal or Proximal Release

- Different release systems are designed to allow the physician greater control over stent deployment



Ultraflex TracheoBronchial Stent Delivery System

Ultraflex™ Covered TracheoBronchial NG Stents – Distal Release

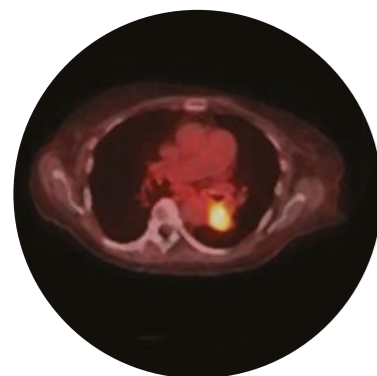
Tracheal Stents

Order Number	Description	Maximum Stent O.D. (mm)	Expanded Stent Length (mm)	Covered Length (mm)
M00564820	Ultraflex Tracheal NG Stent	14	80	65
M00564830	Ultraflex Tracheal NG Stent	16	40	25
M00564840	Ultraflex Tracheal NG Stent	16	60	45
M00564850	Ultraflex Tracheal NG Stent	16	80	65
M00564860	Ultraflex Tracheal NG Stent	18	40	25
M00564870	Ultraflex Tracheal NG Stent	18	60	45
M00564880	Ultraflex Tracheal NG Stent	18	80	65
M00564890	Ultraflex Tracheal NG Stent	20	40	25
M00564900	Ultraflex Tracheal NG Stent	20	60	45
M00564910	Ultraflex Tracheal NG Stent	20	80	65

Bronchial Stents

Order Number	Description	Maximum Stent O.D. (mm)	Expanded Stent Length (mm)	Covered Length (mm)
M00564740	Ultraflex Bronchial NG Stent	8	40	25
M00564750	Ultraflex Bronchial NG Stent	10	30	15
M00564760	Ultraflex Bronchial NG Stent	10	40	25
M00564770	Ultraflex Bronchial NG Stent	12	30	15
M00564780	Ultraflex Bronchial NG Stent	12	40	25
M00564790	Ultraflex Bronchial NG Stent	14	30	15
M00564800	Ultraflex Bronchial NG Stent	14	40	25
M00564810	Ultraflex Bronchial NG Stent	14	60	45

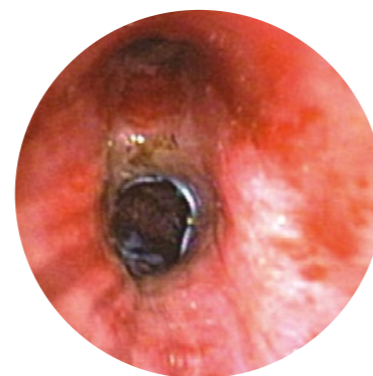
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PET Scan



LLL Tumor



Post Stent

Ultraflex™ TracheoBronchial

Pulmonary Stent System
Single-Use Device

Ultraflex™ Non-covered TracheoBronchial NG Stents – Proximal Release

Tracheal Stents

Order Number	Description	Maximum Stent O.D. (mm)	Expanded Stent Length (mm)
M00564710	Ultraflex Tracheal NG Stent	14	40
M00564720	Ultraflex Tracheal NG Stent	14	60

Bronchial Stents

Order Number	Description	Maximum Stent O.D. (mm)	Expanded Stent Length (mm)
M00564640	Ultraflex Bronchial NG Stent	8	20
M00564650	Ultraflex Bronchial NG Stent	8	40
M00564660	Ultraflex Bronchial NG Stent	10	20
M00564670	Ultraflex Bronchial NG Stent	10	40
M00564680	Ultraflex Bronchial NG Stent	12	20
M00564690	Ultraflex Bronchial NG Stent	12	40
M00564700	Ultraflex Bronchial NG Stent	14	20

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Ultraflex™ Non-covered TracheoBronchial NG Stents – Distal Release

Tracheal Stents

Order Number	Description	Maximum Stent O.D. (mm)	Expanded Stent Length (mm)
M00564530	Ultraflex Tracheal NG Stent	16	40
M00564540	Ultraflex Tracheal NG Stent	16	60
M00564560	Ultraflex Tracheal NG Stent	18	40
M00564570	Ultraflex Tracheal NG Stent	18	60
M00564590	Ultraflex Tracheal NG Stent	20	40
M00564600	Ultraflex Tracheal NG Stent	20	60

Bronchial Stents

Order Number	Description	Maximum Stent O.D. (mm)	Expanded Stent Length (mm)
M00564500	Ultraflex Bronchial NG Stent	10	30
M00564510	Ultraflex Bronchial NG Stent	12	30
M00564520	Ultraflex Bronchial NG Stent	14	30

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Polyflex™

Airway Stent
Self-Expanding Silicone Device



The Polyflex Self-Expanding Silicone Airway Stent is fully covered and has been designed to reduce in-growth and /or endothelialization of the stent.

Indications

- Compression or strictures due to tumors (trachea and main bronchus)
- Stenosis of the central airway (such as trachea and main bronchus)
- Tracheoesophageal fistula
- Airway complications such as anastomosis and stenosis

Placement Technique

- The Polyflex Airway Stent requires rigid bronchoscopy

Gentle, Radial Force

- Designed to adapt to airway anatomy
- Helps maintain patency

Full-length Silicone Coating

- Helps prevent tumor in-growth
- Designed to seal tracheoesophageal and bronchoesophageal fistulae

Engineered to Elongate when Stretched Lengthwise

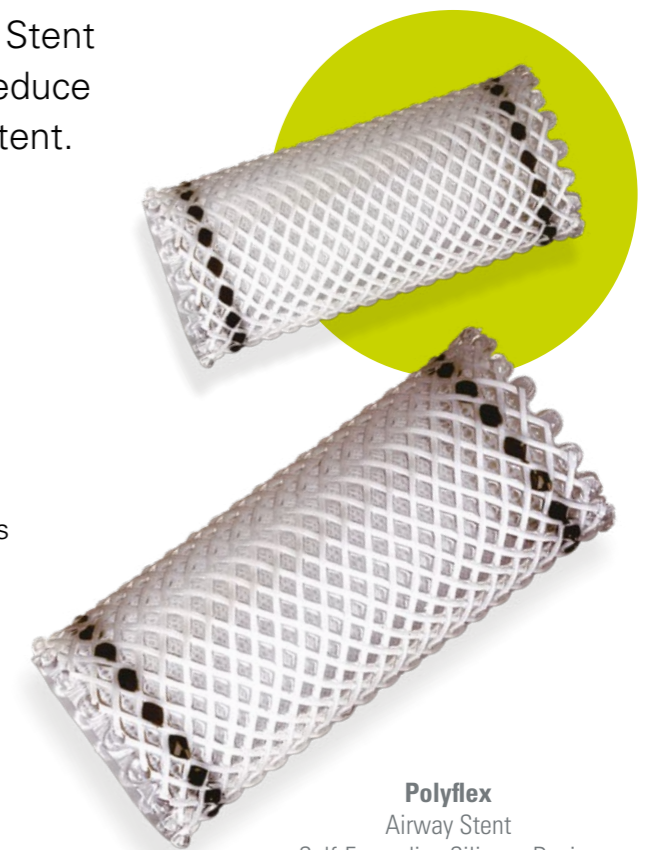
- Facilitates stent change or removal

Broad Range of Widths and Lengths

- Facilitates placement in a range of strictures

Radiopaque Delivery System

- Helps facilitate precise positioning and controlled use



Polyflex
Airway Stent
Self-Expanding Silicone Device



Polyflex Airway Stent in benign tracheal stenosis – shows adaptation to irregularities of the tracheal lumen

Note: Polyflex Airway is contraindicated for operable benign tracheal stenosis

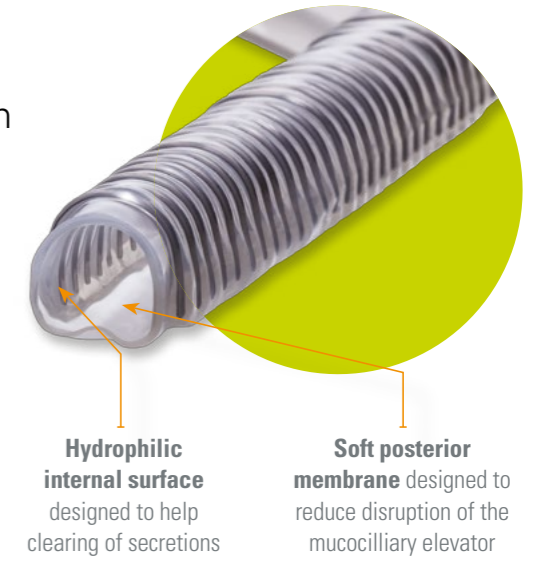
Dynamic™ (Y) Stent

Bifurcated TracheoBronchial Stent

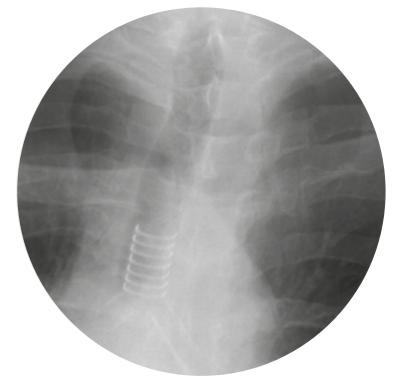
The Dynamic (Y) Stent is a tracheobronchial stent designed specifically for the airway anatomy. The stent, which consists of a single piece construction bifurcated tube, is designed to simultaneously secure the trachea, left mainstem and right mainstem bronchus.

The Dynamic (Y) Stent is intended to maintain patent airways in tracheal stenosis and seal tracheoesophageal fistulas. In addition the stent is applicable to the following conditions, including:

- Tracheomalacia
- Stenosis secondary to lung transplantation



- Instructions on how to remove the stent can be found in the Directions for Use



Post-operative chest radiograph confirming proper stent position

Self-expanding stent made of silicone with polyester mesh



Polyester mesh structure on outer stent surface

Designed to help reduce migration

Thin wall diameter

Engineered for airway patency

Radiopaque markers

Help promote visibility during placement and post-operative follow-up

Silicone edge reinforcement

Designed to help reduce tissue granulation formation

Smooth inner surface

Designed to resist secretory incrustation

Polyflex™

Self-Expanding Silicone Airway Stents

Order Number	Description	Stent I.D. (mm)	Stent Length (mm)	Delivery System Diameter (mm)	Order Number	Description	Stent I.D. (mm)	Stent Length (mm)	Delivery System Diameter (mm)
M00570000	Polyflex Airway Stent	8	20	7	M00570170	Polyflex Airway Stent	16	50	10
M00570010	Polyflex Airway Stent	8	30	7	M00570180	Polyflex Airway Stent	16	60	10
M00570020	Polyflex Airway Stent	10	20	8	M00570190	Polyflex Airway Stent	16	70	10
M00570030	Polyflex Airway Stent	10	30	8	M00570200	Polyflex Airway Stent	18	30	11
M00570040	Polyflex Airway Stent	10	40	8	M00570210	Polyflex Airway Stent	18	40	11
M00570050	Polyflex Airway Stent	10	50	8	M00570220	Polyflex Airway Stent	18	50	11
M00570060	Polyflex Airway Stent	12	20	9	M00570230	Polyflex Airway Stent	18	60	11
M00570070	Polyflex Airway Stent	12	30	9	M00570240	Polyflex Airway Stent	18	70	11
M00570080	Polyflex Airway Stent	12	40	9	M00570250	Polyflex Airway Stent	18	80	11
M00570090	Polyflex Airway Stent	12	50	9	M00570260	Polyflex Airway Stent	20	40	12
M00570100	Polyflex Airway Stent	14	20	9	M00570270	Polyflex Airway Stent	20	50	12
M00570110	Polyflex Airway Stent	14	30	9	M00570280	Polyflex Airway Stent	20	60	12
M00570120	Polyflex Airway Stent	14	40	9	M00570290	Polyflex Airway Stent	20	70	12
M00570130	Polyflex Airway Stent	14	50	9	M00570300	Polyflex Airway Stent	20	80	12
M00570140	Polyflex Airway Stent	14	60	9	M00570310	Polyflex Airway Stent	22	50	13
M00570150	Polyflex Airway Stent	16	30	10	M00570320	Polyflex Airway Stent	22	60	13
M00570160	Polyflex Airway Stent	16	40	10	M00570330	Polyflex Airway Stent	22	80	13

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Dynamic™ (Y)

Bifurcated TracheoBronchial Stent

Order Number	Description	Tracheal Width (Internal) (mm)	Bronchial Width (Internal) (mm)	Tracheal Length (mm)	Bronchial Lengths (Right / Left) (mm)
M00570670	Dynamic (Y) Stent	11	8	110	25 / 40
M00570680	Dynamic (Y) Stent	13	10	110	25 / 40
M00570690	Dynamic (Y) Stent	15	12	110	25 / 40

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The Alair™ System

Bronchial Thermoplasty System



Bronchial Thermoplasty (BT) is a new procedure indicated for the treatment of severe persistent asthma in patients 18 years and older whose asthma is not well controlled with inhaled corticosteroids and long acting beta agonists.

What is BT?

- ▶ BT is a bronchoscopy based procedure that uses radiofrequency (RF) energy (or heat) to reduce the amount of excess airway smooth muscle (ASM) present in the airways and limit its ability to contract and narrow the airway. A complete BT treatment is performed in three outpatient procedure visits, each scheduled approximately three weeks apart.

Alair™

Bronchial Thermoplasty Catheter

A single-use device designed to be delivered through the working channel of a standard bronchoscope.

- ▶ Expandable electrode array with four 5mm electrodes that deliver RF energy to airways ≥ 3 mm in diameter and distal to main stem bronchi
- ▶ Requires ≥ 2.0 mm working channel diameter bronchoscope



Alair

RF energy electrode array



Alair

Bronchial Thermoplasty Radiofrequency Controller

Alair™

Bronchial Thermoplasty (BT) System

Order Number	Model	Description	Active Electrode Length (mm)	Tip Diameter (mm)	Minimum Working Channel (mm)
M005ATS25020	ATS 2-5	Alair BT Catheter – Global	5.0	~1.5	2.0
M005ATS25010	ATS 2-5	Alair BT Catheter – North America	5.0	~1.5	2.0
M005ATS20000	ATS 200	Alair RF Controller – monopolar (return electrode not included)			

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www.bostonscientific-international.com

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