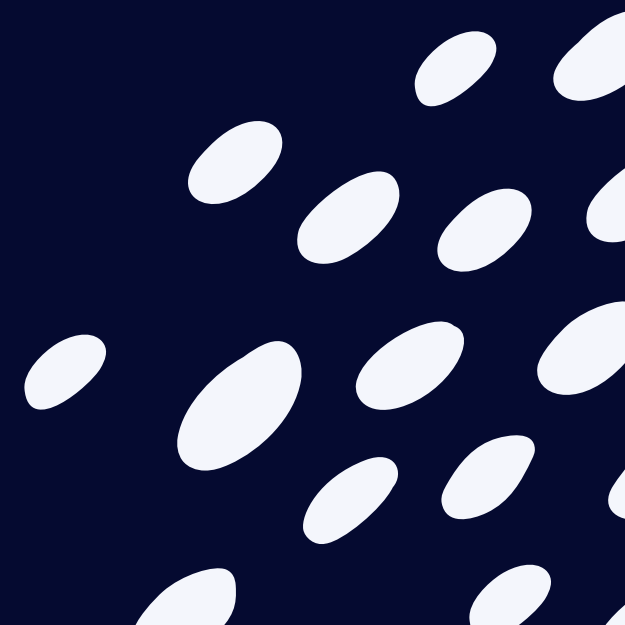
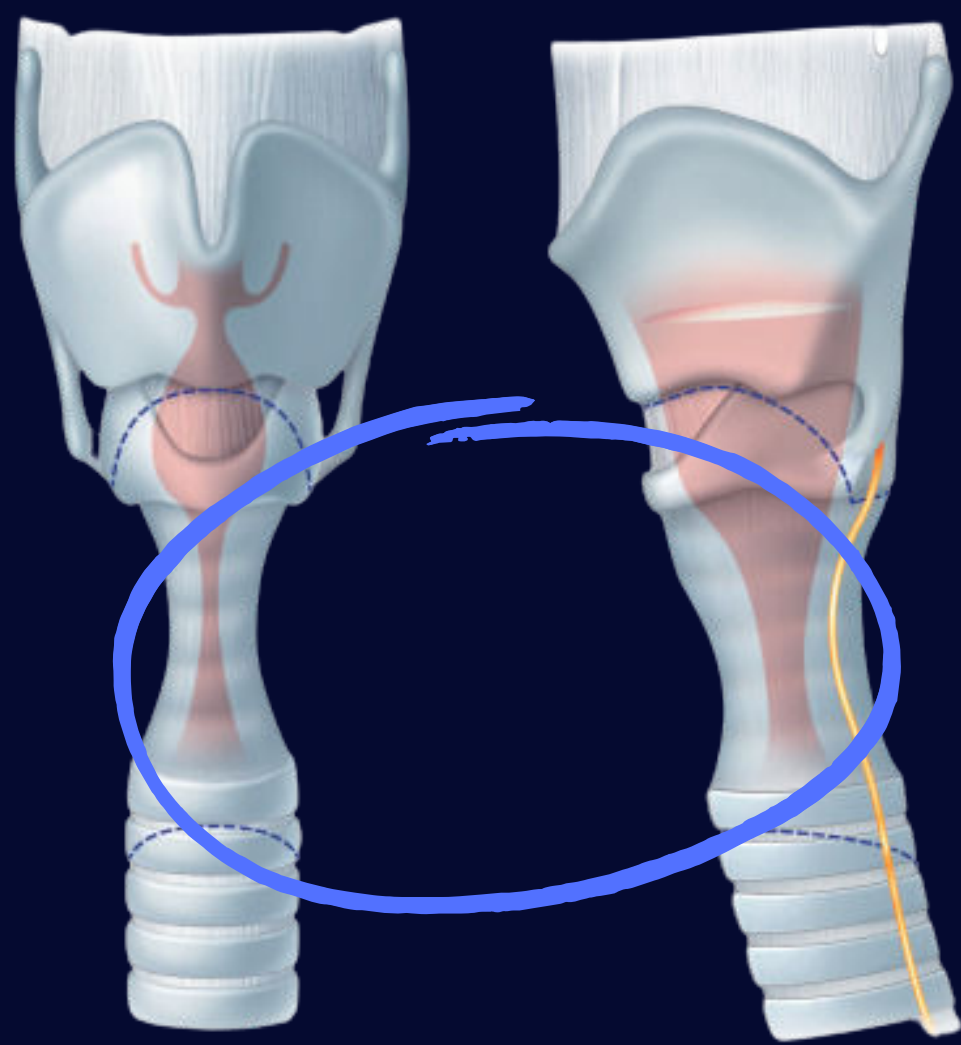


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What is a *tracheal stenosis*?



Tracheal stenosis
refers to abnormal
narrowing of the
trachea that restricts
your ability to
breathe normally

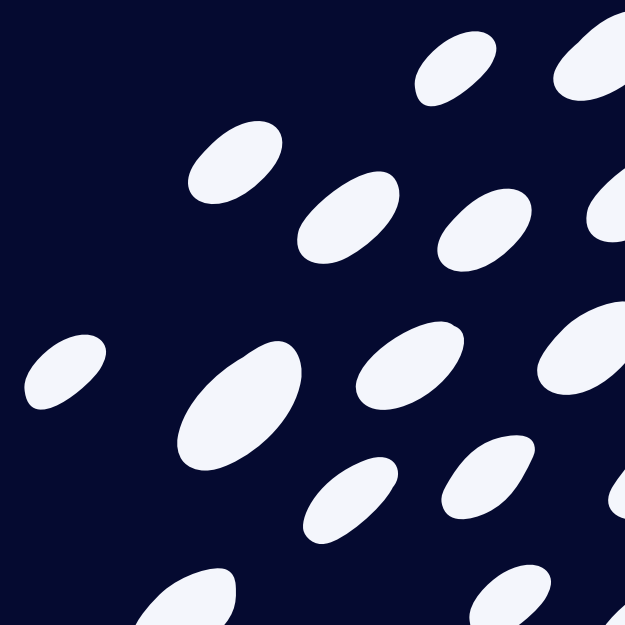
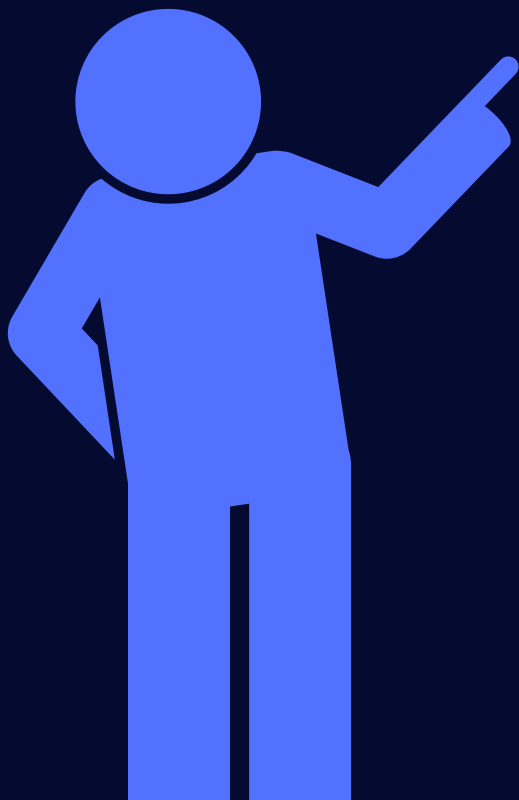


Causes of Tracheal stenosis

Mainly two:

Congenital tracheal stenosis,
caused by abnormal development
during embryonic stages

Acquired tracheal stenosis, trauma of the
throat or trachea caused by orotracheal
intubation or infections



Symptoms of Tracheal stenosis



- **Shortness of breath** that is gradually worsening
- **Respiratory sounds (stridor)** which may sound like wheezing
- **Frequent bouts of pneumonia** or upper respiratory infections
- **A blue color in the skin** or mucous membrane of the mouth or nose

Diagnosis of Tracheal stenosis

First medical test is the
airway endoscopy

Followed by **spirometry** to
assess respiratory function, **lung
functioning test** (CT scan of neck
and chest X-ray) and then **biopsy**
to check on the malignancy of
any tumors or lumps

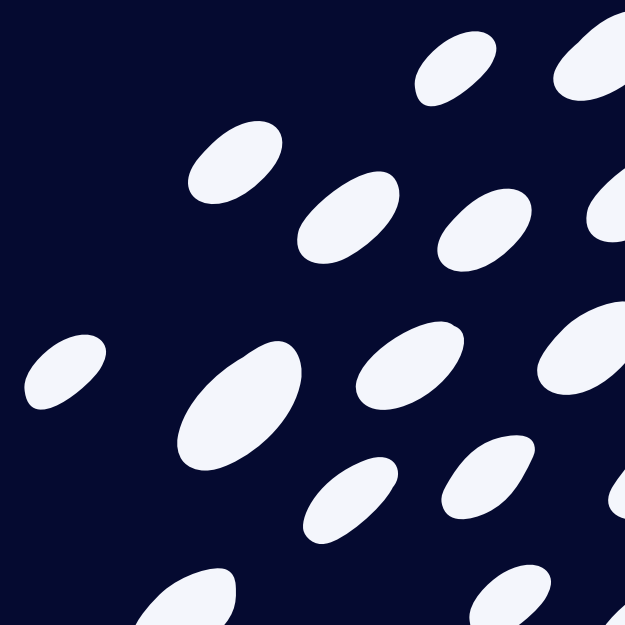
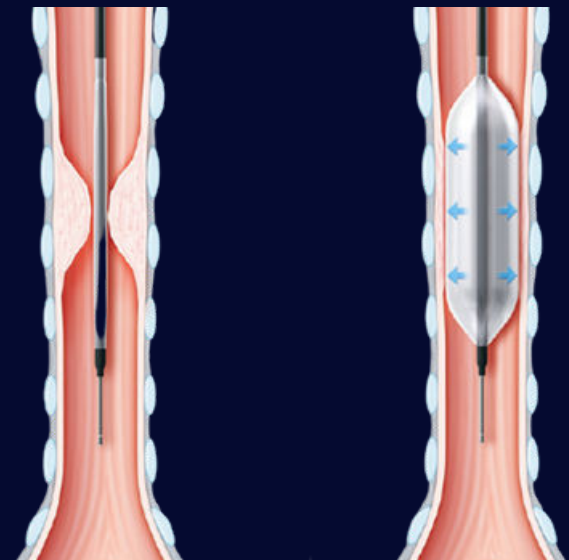


Treatment options for Tracheal stenosis

Target: reducing obstruction in order to increase the airflow

Treatment depends on the grade of the tracheal stenosis

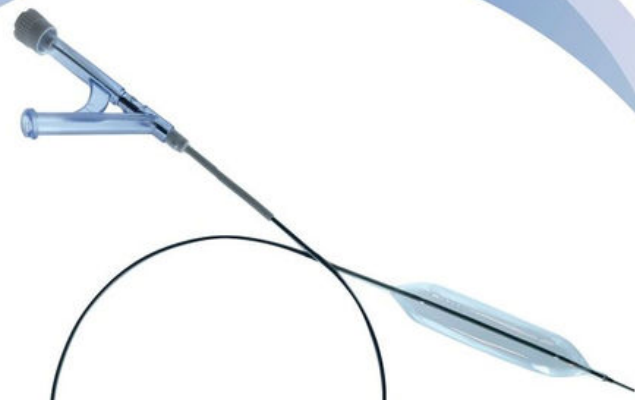
- **Laser surgery** (not a long-term solution)
- **Balloon tracheal dilation**, where a balloon catheter is used to expand the airway
- **Hybrid Technique**, for grade 3 & 4 stenosis: balloon dilation is used to contour the trachea after initially creating a star-shaped opening using a laser



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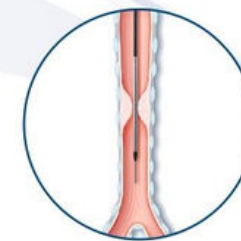
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Dilation Balloon System

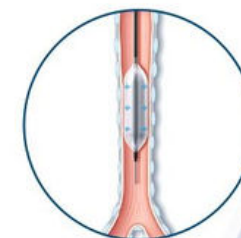


Features

- Indicated for upper airway dilation
- Atraumatic access
- Low profile, high pressure and non-compliant balloon for narrow stenosis
- Preloaded stylet for a faster and safer procedure
- Marker bands to ease balloon placement on stenotic area



Balloon placed across stricture



Balloon inflation dilates stricture

CATALOG NUMBER	DIAMETER (mm)	BALLOON LENGTH (mm)	CATHETER LENGTH (mm)	MAX PRESSURE	INFLATION VOLUME
TLA 005-30-500	5	30	500	16 atm	6-8 cc
TLA 007-30-500	7	30	500	16 atm	6-8 cc
TLA 010-40-500	10	40	500	12 atm	12 cc
TLA 012-40-500	12	40	500	10 atm	12 cc
TLA 014-40-500	14	40	500	10 atm	12 cc
TLA 016-40-500	16	40	500	8 atm	12 cc

Dilation Balloon System

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BenCorpp Srl
IT - 41037 Mirandola (MO)
+39 335 7428087
info@bencorpp.com
bencorpp.com

BenCorpp[®]
Improving patients' life

CE 0425

BenCorpp[®]
Improving patients' life