

# BLEScath<sup>®</sup>

Intratracheal catheter

For less invasive administration of pulmonary surfactant

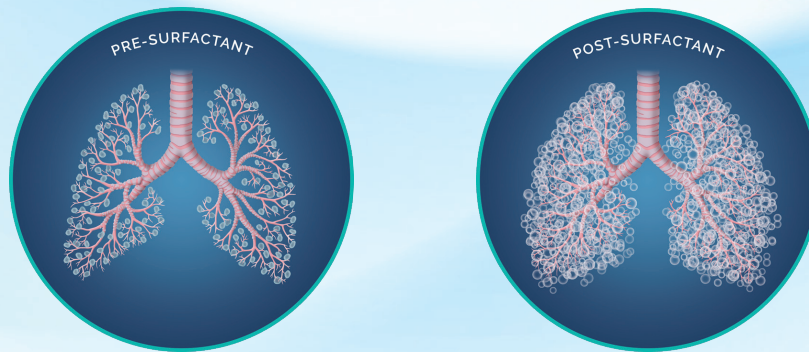
An innovative solution for fast,  
effective mitigation of NRDS

## What is NRDS?

Neonatal respiratory distress syndrome (NRDS) is responsible for high mortality and morbidity in premature neonates (gestational age less than 37 weeks)<sup>1</sup>.

Surfactant is essential for normal lung function<sup>2</sup>. NRDS is caused by lack of surfactant, a complex mixture of phospholipids and proteins that lines the lung air spaces to reduce surface tension at the air-liquid interface preventing the collapse of alveoli<sup>3</sup>.

The desire to improve the survival rate of preterm neonates affected by NRDS propelled researchers to investigate therapies for this condition<sup>4</sup>. Exogenous pulmonary surfactant, such as BLES<sup>®</sup>, is integral to the management of NRDS.



BLES Biochemicals Illustration. Pre surfactant vs. post surfactant. London, Canada: BLES; 2022.

## What is LISA/MIST?

The less invasive surfactant administration (LISA) / minimally invasive surfactant therapy (MIST) method uses a thin catheter inserted into the trachea to deliver exogenous pulmonary surfactant to a spontaneously breathing patient supported by nasal continuous positive airway pressure (NCPAP) or nasal intermittent positive pressure ventilation (NIPPV)<sup>5</sup>. Note: Please follow the established protocols of your healthcare center when using this procedure.

BLES<sup>®</sup> administered using the LISA/MIST technique is intended for neonates  $\geq 28$  weeks gestation and/or  $\geq 1000$  grams. For non-spontaneously breathing patients, use the Intubate-Surfactant-Extubate (InSurE) technique<sup>5</sup>.

- With LISA, long-term follow-ups have reported better pulmonary function and neurocognitive outcomes<sup>6</sup>.

- Studies have shown that LISA is superior to NCPAP alone or the InSurE technique in reducing the risk of developing bronchopulmonary dysplasia (BPD) and intracranial hemorrhage (ICH)<sup>6,7</sup>.

## What is BLEScath®?

BLEScath® is intended for the administration of pulmonary surfactant such as bovine lipid extract surfactant suspension using the LISA technique for rescue treatment of infants suffering from NRDS<sup>8</sup>.

### Pivotal Benefits

BLEScath® is for BLES® administration using the LISA method<sup>8</sup>. The administration of surfactant via a thin catheter compared with an endotracheal tube is associated with a reduced risk of death or BPD<sup>9</sup>. LISA may offer cost savings to institutions by decreasing the need for ventilation, consumables, diagnostic procedures, and investigations<sup>10</sup>.

BLEScath® is a user-friendly device with an integrated stainless steel (SS) stylet that may be suitable for healthcare practitioners who may not be familiar with the use of Magill forceps<sup>11</sup>. BLEScath® is designed to be compatible with bovine lipid extract surfactant suspension, a low-viscosity surfactant. BLEScath® has not been tested with other commercially available pulmonary surfactants.

User-friendly semi-rigid intratracheal catheter reducing the need for Magill forceps<sup>11,12</sup>.

The SS stylet allows the catheter to be bent into the user's preferred shape<sup>8</sup>.

The SS stylet is rigid yet flexible for ease of insertion<sup>8</sup>.

Thin diameter 5 Fr catheter maintains physiologic pharyngeal function<sup>6,8</sup>.

.... The integrated SS stylet is anchored and remains fixed in place<sup>8</sup>.

.... Markings: 7, 8, 9, 10, 11 cm determine the "Tip to Lip" distance based on the weight of the patient in kilograms. The depth of insertion is 6 cm plus birthweight in kilograms<sup>8</sup>.

.... Distal tip markings; 2, 2.5, 3.5 cm aid in determining the catheter insertion depth at the vocal cords<sup>8</sup>.

.... Soft, rounded distal tip may reduce tissue trauma during insertion<sup>6</sup>.



## Technical Specifications

Size	5 Fr
Length	205 mm

## Material Specifications

- Latex Free
- Stainless Steel
- Di(2-ethylhexyl) phthalate (DEHP) Free
- Radiopaque polyvinyl chloride (PVC)



BLEScath's® SS stylet, the first of its kind, keeps its desired shape during the procedure. The integrated SS stylet is anchored and remains fixed in place.



Research has shown successful administration of BLES® via LISA in 95.3% of patients studied<sup>12</sup>.

## Ordering Information

Each package contains one 5 Fr catheter with integrated SS stylet.

1 unit = 1 catheter

10 units per case

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### References

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For more information, please visit our website [BLESscath.com](https://blescath.com)

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