

## Technology Offer

# The “i-scoop” – a new type of laryngoscope for normal and difficult airways

Reference Number 15-00199

### Challenge

Securing the patient’s airways by introducing an endotracheal tube for external ventilation is crucial to avoid severe complications in both emergency situations and routine anaesthesia care. If intubation fails, brain damage or death can occur due to hypoxemia. Furthermore, the intubation of patients with difficult airways due to obesity, anatomical abnormalities or tumours is a challenge that requires skilled medical personnel and specialized equipment. Although the use of video laryngoscopes has improved outcomes, intubation fails in as many as 25% of all cases in emergency settings. For these reasons enhanced devices are needed to facilitate visualization of the vocal cords and intubation of the trachea.



Lateral view of the i-scoop

### Technology

The intubation scoop (i-scoop) is an easy-to-use video laryngoscopy device for the management of both normal and difficult airways. The device enables intubation without a blade to elevate the tongue base or the epiglottis. I-scoop features a handle and a curved guiding bar with two cameras and flushing and suction catheters. Due to its slim design no element of the device disturbs the view on the vocal cords and, secretions or blood can easily be flushed away and removed using the catheters. Thus, i-scoop may allow easier and faster intubations and could therefore increase patient safety.

### Commercial Opportunity

In-licensing or collaboration for further development is possible.

### Development Status

A functional prototype has been produced. The device has been tested extensively on various airway trainer manikins and was found to be superior to all current video laryngoscopy systems with regard to intubation success rate, intubation time and visibility of the vocal cords.

### Patent Situation

US patent (US 9,867,956 B2) has been granted in 2018. European patent (EP2720745 B1 - national validation in DE, CH, FR, GB, NL) has been granted in 2019.

### Further Reading

Raymondos K, Seidel T, Sander B, Gerdes A et al. 2014. The intubation T scoop (i-scoop) - a new type of laryngoscope for difficult and normal airways. *Anaesthesia*. 69(9):990-1001.