The v-gel® is the first true veterinary species specific supraglottic airway devices. Its core technology was first proven to work in the human anaesthesia and resuscitation airway management sector, specifically the ‘i-gel’ airway device (www.i-gel.com), which is delivering significant patient and user benefits on a global scale.

Docsinnovent® are innovation leaders in airway management devices. Its founders led the ‘i-gel’ product and manufacturing technology development programme all the way to market realisation. After an extensive new research and development programme, Docsinnovent bring the same benefits experienced in humans into the veterinary anaesthesia and resuscitation sector with the first-ever species specific veterinary supraglottic airway devices.

‘v-gel®’ name is derived for ‘V’ for ‘veterinary’ and ‘gel’ to highlight that it uses a very soft gel-like material that contributes with anatomically shaped features to give a trauma-free high quality pressure seal around the airway and oesophageal structures. ‘v-gel®’ is an internationally patented, radical innovation for veterinary anaesthesia which delivers significant benefits:

**The benefits of v-gel®**

- Anatomical matching features combined with a soft gel-like material to give a high quality pressure seal that avoids laryngeal and tracheal trauma, which means safer anaesthetics and superb comfortable patient recoveries.
- Fast, easy, safe and stress free device insertions.
- No post-operative coughing or gagging
- Low airway breathing resistance due to the large airway channel within the device
- High quality pressure seal restricting leakage of volatile anaesthetic agents, thus improving health and safety in anaesthesia and overcoming patient sensitisation to smell – a common problem in rabbits.
- Super soft contoured tip for a highly effective upper oesophagus seal to prevent potential aspiration of reflux fluid.
- Integral gas sampling port to reduce re-breathing dead-space and making high quality monitoring easier.
- Integral bite block to stop patient damaging device and occluding the airway
- Materials validated for autoclave sterilisation to eliminate cross-infection.
v-gel®
advanced veterinary airway management system

What it does

v-gel®, has been researched, designed and developed specifically for veterinary use to establish a highly efficient and effective airway during general anaesthesia and resuscitation without the need for endotracheal tube intubation and therefore reduce anaesthesia airway-related morbidity and mortality issues.

How it works

The v-gel® shape is contoured to be a mirror of the upper airway anatomical structures in each of the species of animal for which it is designed, and incorporates a unique soft gel-like material to provide a fine adjustment of fit and super soft pressure seal. These elements merge to give a proficient user a fast, easy, accurate and safe airway device placement with a high quality seal around the peripharyngo-laryngeal framework and the upper oesophagus, which overcomes tissue compression and displacement trauma to patients.

Research and development

The v-gel® research and development programme has been conducted over several years and involved conducting extensive literature research; exhaustive post mortem neck dissection analysis with each relevant specie of animal; anatomical modelling; CAD modelling; radiological imaging; and extensive prototyping to obtain the correct shapes to mirror the anatomical airway structures which when combined with the super soft gel-like material give a high quality seal to overcome issues of tracheal and upper airway trauma. Following on from this, owner consented preliminary clinical trials were conducted for initial analysis and evaluation which, once approved, then led onto large scale patient clinical trials conducted at both private veterinary practices and university hospitals across the UK and Europe. v-gel® is therefore a product of a diverse expert user and in-use experience.

Advanced veterinary airway management

v-gel® is at the very core of delivering an ‘advanced veterinary airway management system’. Our tube holder (d-grip®), tying material (V-Tie); device lubricating gel (VetLube®) together with our patient monitoring equipment provide the essential complementary components to further optimise the delivery of advanced airway management in veterinary practice.

v-gel® development prototypes
v-gel® key features

All v-gel® devices are supplied sterile and ready for use

v-gel® for CATS (feline)

Shoulder dorsal bump – aids towards resisting rotation and malposition when device is in place

CAT dorsal inflatable valve – to increase sealing pressure if required

CAT dorsal inflatable valve

v-gel® for Cats (feline) valve unit and inflation line

v-gel® for RABBITS

The v-gel® for rabbits is designed exclusively for this species and includes all of the features of the v-gel® for felines except for the inflatable dorsal pressure adjuster.

v-gel® for Cats (feline)

The current product range

Currently v-gel® is available for the Rabbit and Feline species both of which have a range of 6 sizes to cater for variations in weight, breed, and age. A user guide is provided with each device and further information along with instructions for use can be found in our on-line training materials on our website at www.docsinnovent.com. Future v-gel® devices for dogs and horses are currently under development and will be available soon.

Reusable

v-gel® is guaranteed for re-use up to 40 times following an autoclave procedure between each patient use. The holding tray features a useful index chart to assist compliance towards best practice against cross-infection. We recommend that the 121°C autoclave cycle is used for sterilisation.

Inflatable dorsal pressure adjuster – to increase sealing pressure if required

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v-gel® for CATS (feline)
Indications for use of v-gel®
For use on fasted patients that undergo routine and emergency anaesthetics, or resuscitation, during spontaneous or IPPV (intermittent Positive Pressure ventilation).

Ethics
v-gel® has been researched and developed with full ethical committee approvals from numerous governing bodies and clinical trials have been carried out with owner consent.

Advanced veterinary airway management complementary products

d-grip® tube/circuit holder is the perfect circuit support for use in conjunction with v-gel® airway devices, and other airway devices. Order code: J1352

Follow us on Facebook

V-Gel product videos available at www.JorVet.com