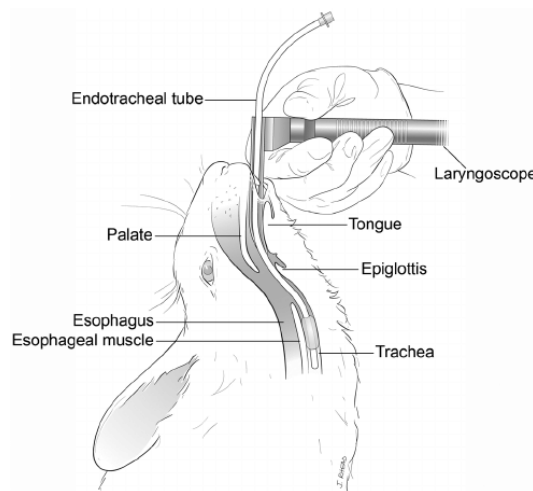


Reasons for intubation: 1) Enables provision of supplemental oxygen, 2) Protects the respiratory tract from foreign material (incl. fluids), 3) Allows controlled oxygen provision with minimal hypoxia (health and safety), 4) Enables the anaesthetist to perform intermittent positive pressure ventilation to assist lung perfusion and if needed during a respiratory crisis. Prior to attempting intubation I will pre-oxygenate the rabbit for 2-5 minutes. I could use a pre-oxygenation mask prior to attempting intubation, to prevent desaturation (although NOT licensed for use in rabbits UK). Prior to intubation, I will lubricate and warm the ET tube. Rabbits are obligate nasal breathers and as such, the epiglottis often sits above the hard palate. When restraining in sternal recumbency, it is important to extend the rabbit's head and neck forward to maintain an open airway during intubation. The two points the ET tube should sit between are the hard palate and the epiglottis. If a tube is placed to the correct 'depth' but there is still a length of tube outside the rabbit, this is called a 'tube stick out'. I could increase the length of the tube to combat this. I could hold a small dental block at the end of the tube to see if the tube I can see to check if there is a trace of air at the end of the tube to see if there is a trace of air to see if a trace is produced AND I should check if the tube has entered one of the mainstem bronchi. Complications: the incisors, long and narrow dental arcade, the hump the acute angle between the mouth and the larynx, difficult with a HIGH failure rate. It is unlikely you will get successful placement) when you are performing orotracheal intubation as the tube will reduce oral access. Repeated attempts at ET intubation may cause traumatic damage to the larynx with resultant: laryngeal edema, haemorrhage, laryngeal spasm or even laryngeal fracture. Blind intubation also carries the risk of the tube or caudal vena catheter being pushed blindly into the trachea. Equipment: similar to the ET tubes we use in cats, we want to choose an uncuffed tube for 2 reasons 1) to prevent cuffing to the tracheal mucosae AND the absence of a cuff means the internal diameter is as large as possible, thus reducing the resistance to air flow. For a 2.5kg rabbit the size of ET tube used is likely to be a 3.5 -> 4.0 mm. In large rabbits (over 5kg), a size 5.0 mm tube at least is likely to be used. Alternative method of intubation – naso-tracheal has the benefit of being used when performing procedures in the head but has the potential risk of introducing bacteria in to the trachea.



Ideally, I would secure the tube but in reality, I the rebreathing. To check it is in place, I could there is air movement, OR look at the portion of within the tube, OR I could hold a small dental 'fogging' OR I could attach the tube to a small dental block both lung fields to check the tube hasn't passed the bronchi. Rabbits won't necessarily cough when the rabbit oropharyngeal anatomy – presence of large at the base of the tongue (called the epiglottis) and makes orotracheal intubation of rabbits technically will want to intubate rabbits (orotracheal procedures or when you are performing routine

Thompson, K.L., Meier, T.R., and Scholz, J.A. (2017) Endotracheal Intubation of Rabbits Using a Polypropylene Guide Catheter, *Journal of Visualized Experiments*, November 2013 (129).



Reasons for intubation: 1) Enables provision of supplemental **OXYGEN**, 2) Protects the **LOWER RESPIRATORY** tract from foreign material (incl. fluids), 3) Allows controlled **GAS** provision with minimal **ENVIRONMENTAL CONTAMINATION** (health and safety), 4) Enables the anaesthetist to perform intermittent **IPPV** to assist lung perfusion and if needed during a **RESPIRATORY** crisis. Prior to attempting intubation, I will **PRE-OXYGENATE** the rabbit for 2-5 minutes. I could use **LIDOCAINE** prior to attempting intubation, to prevent **LARYNGOSPASM** (although NOT licensed for use in rabbits UK). Prior to intubation, I will **MEASURE** and **LUBRICATE** the ET tube. Rabbits are **OBLIGATE NASAL** breathers and as such, the epiglottis often sits above the **SOFT** palate. When restraining in sternal recumbency, it is important to extend the rabbit's head and neck forward to maintain an open airway during intubation. The two points the ET tube should sit between are the **INCISORS** and the **THORACIC INLET (POINT OF SHOULDER)**. If a tube is placed to the correct 'depth' but there is still a length of tube outside the rabbit, this is called **DEAD SPACE**. Ideally, I would **CUT** the tube but in combat the rebreathing. To check it is in place, I there is air movement, **OR** look at the portion of the within the tube, **OR** I could hold a small dental 'fogging' **OR** I could attach the tube to a should **AUSCULTATE** both lung fields to check the one of the mainstem bronchi. Rabbits won't trachea. Complications: the rabbit oropharyngeal narrow dental arcade, the hump at the base of the between the mouth and the larynx, makes with a **HIGH** failure rate. It is unlikely you will want to are performing **SHORT** procedures or when you are performing routine **DENTALS** as the tube will reduce oral access. Repeated attempts at ET intubation may cause traumatic damage to the larynx with resultant: laryngeal **OEDEMA/SWELLING**, haemorrhage, **laryNGOSPASM** or even laryngeal **RUPTURE**. Blind intubation also carries the risk of **FOOD** or **caecOTROPHS** being pushed blindly into the trachea. Equipment: similar to the ET tubes we use in cats, we want to choose an **UN-CUFFED** tube for 2 reasons 1) to prevent **TRAUMA** to the tracheal mucosae AND the absence of a **CUFF** means the internal diameter is as **WIDE** as possible, thus reducing the **RESISTANCE** to air flow. For a 2.5kg rabbit the size of ET tube used is likely to be a **2.5** -> **3** mm. In large rabbits (over 5kg), a size **4** mm tube at least is likely to be used. Alternative method of intubation – naso-tracheal has the benefit of being used when performing procedures in the **MOUCH** but has the potential risk of introducing **PATHOGENS** into the **LUNGS**.

