**Developing an innovative, low-risk interventional approach for stenting trachea**

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The stent is artificial support that can help maintain the tissue's structure. Silicone airway stents are one of the most widely used types. These stents are flexible and firm enough cylinders inserted into the airway by a rigid bronchoscope, keeping the airway open. A method of controlling airway occlusions (CAO) that can be used alone or in combination with other treatments is stenting. Unfortunately, due to the tool's rigid nature and the procedure's complexity, there are many potential risks for the patient. In this research, two endotracheal tubes and Ambu have been exploited for stenting. Two mature certified sheep have been chosen to test a stenting procedure. Stenting procedures have been successfully implemented on the animals’ trachea. In these words, a new simple, fast and cheap procedure was developed for stenting silicon stents with minimum risk. We can easily place and rotate the stent during the procedure.

***Keywords:*** Trachea; Silicon Stent; stenting, animals’ trachea.