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Emphysema is a condition in which the alveoli at the end of the smallest air passages of the lungs are destroyed as a result of damaging exposure to cigarette smoke and other irritating gases and particulate matter. People who smoke are six times more likely to develop emphysema. Smoke changes the anatomy of respiratory system. Smokedisable the cilia lining the trachea alveoli and the pulmonary capillaries damages the small bronchioles so the lumen collapse, and decreases the stretchiness of the lungs.

There are no effective treatments for COPD because the mechanisms underlying COPD are poorly understood at molecular level. Animal smoke models are used to study COPD, investigate inflammatory processes and determine the different mechanism of COPD. Several animal species have been used as a model of COPD.

Different methods of induction of animal models are there. Among of them here; i will discuss animal smoke models of COPD. C S Exposure (cigarette smoke exposure) has become one of the most utilized animal smoke model of COPD/ Emphysema. The advantages of cigarette smoke exposure to have such prominence in COPD research, that is lead to better treatments, it helps to detect airspace enlargement in alveoli. Apparatus used for this experiment consist of an animal containment system and cigarette smoking device, only few smoke exposure systems are commercially available like cigarette smoke generator. (TSE systems).

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Title: Transdermal patches: A New Invention for contraception

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Abstract:

Nowadays transdermal delivery for steroidal use has been widely performed for hormone replacement therapy in menopause and recently have been used for contraception. For this treatment the dose applied have to penetrate the skin and this can be made by both estrogens & progestins delivered using an appropriate solvent. Minimum amount of the dose applied topically is absorbed into the system. Transdermal delivery systems are available in two types reservoir type & matrix dispersion type for drug delivery. Estradiol in combination of progestins can be used for best contraceptive effect. Potent progestins have to be used so that desired plasma levels can be achieved with low dose and maintain the surface of these system. These systems were changed daily with dosages showed suppression in ovulation. These applications conveniently described the suppression of ovulation in women. Transdermal therapeutic system used for contraception ensures that these systems should be completely adhere, have tolerance locally and should be 100 % efficient. Hence there are a lot of advantages using these systems and achieving these targets are very challenging.