



Preclinical Models of Chronic Obstructive Pulmonary Disease(COPD)

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Chronic Obstructive Pulmonary Disease (COPD)

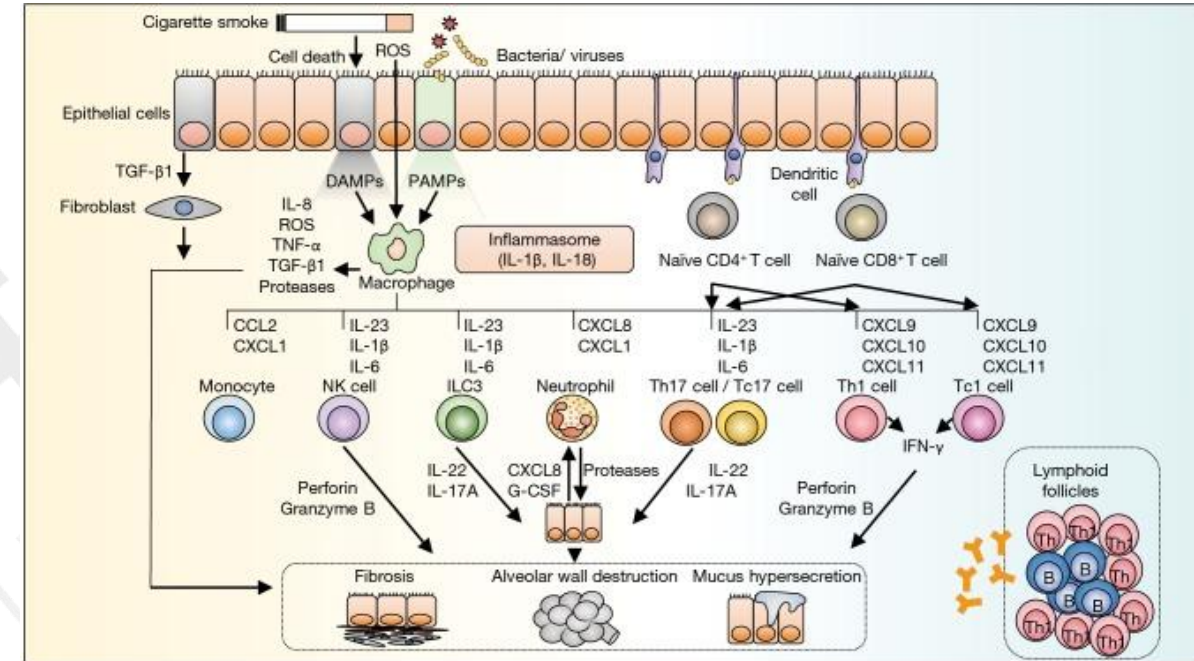
Symptoms and Causes

Chronic obstructive pulmonary disease (COPD) is a chronic inflammatory lung disease that causes obstructed airflow from the lungs. Symptoms include breathing difficulty, cough, mucus (sputum) production and wheezing.

It's typically caused by long-term exposure to irritating gases or particulate matter, most often from cigarette smoke. People with COPD are at increased risk of developing heart disease, lung cancer and a variety of other conditions.

Models in place:

■ Cigarette smoke/LPS Induced C57BL/6 COPD Model



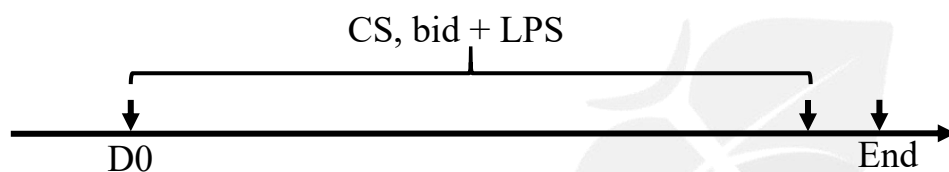
doi:10.21037/jtd.2019.10.43

COPD Model in C57BL/6 Mice

■ Mechanism

A cigarette smoke (CS)-induced model remains one of the most popular because it not only simulates COPD-like lesions in the respiratory system, but it is also based on one of the main hazardous materials that causes COPD in humans.

■ CS Induced COPD Model



Animal	C57BL/6
Evaluation	Clinical: Body weight
	cell: WBC, Macrophage, Monocyte
	Pathology: HE

COPD Model in C57BL/6 Mice

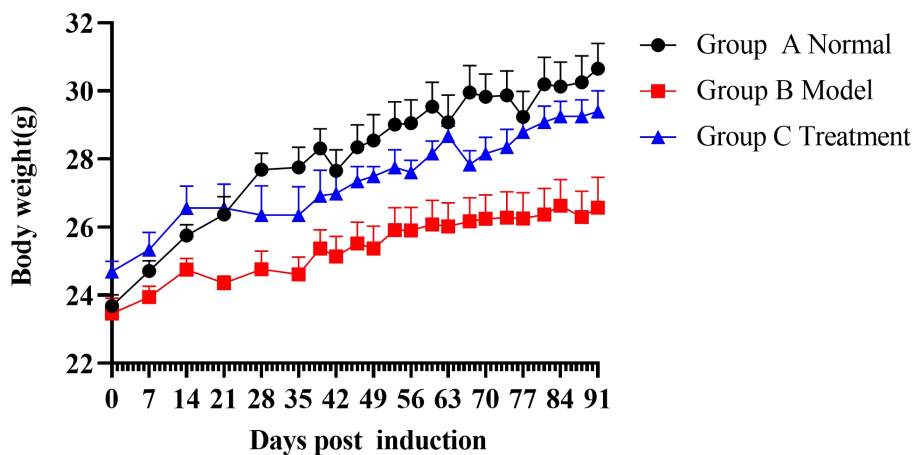


Fig 1. Body Weight

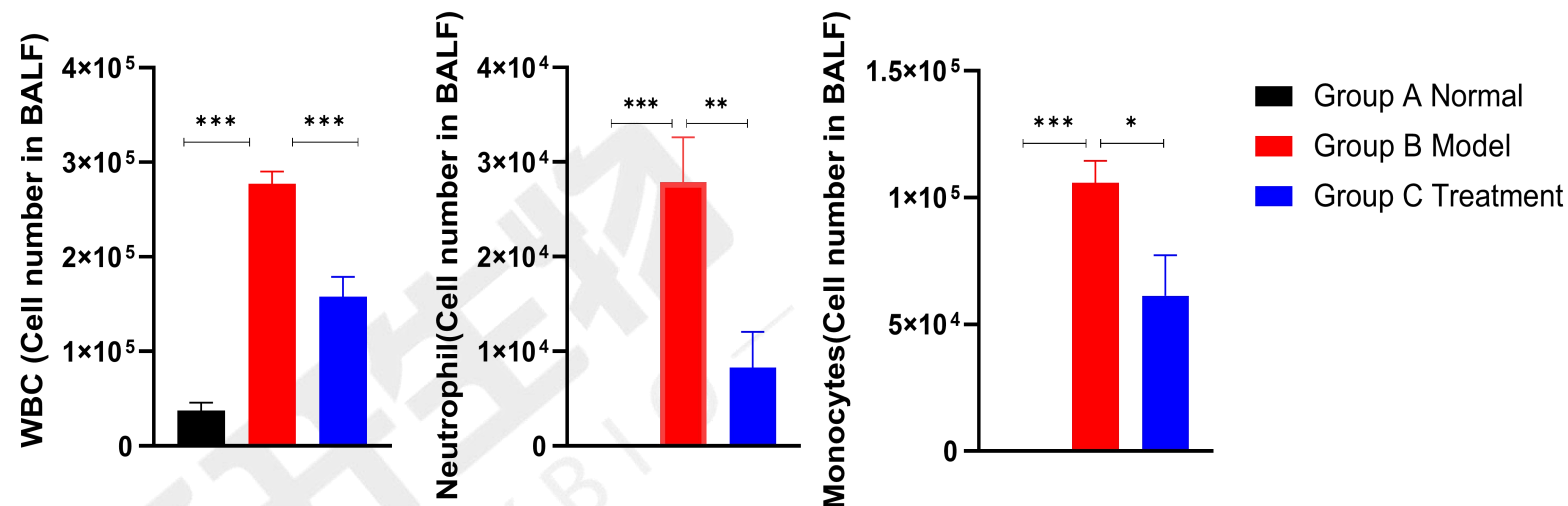


Fig 2. Cells in BALF

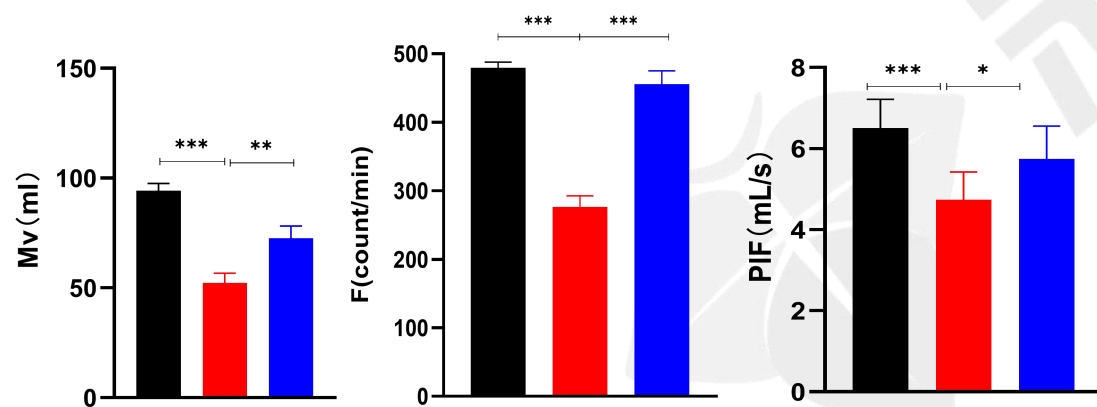


Fig 3. Lung function

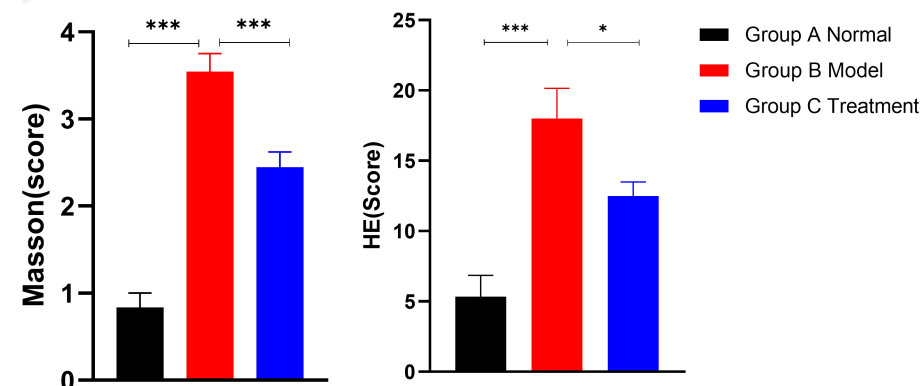


Fig 4. Pathology



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