

(2005/4/25 2004/6/8)

Pathological Changes in Lungs of Rabbits Exposed to Passive Smoking

Kusai M. Hamed

*Department of Biology
College of Science
Mosul University*

Intesar R. Al-Kenani

*Department of Pathology
College of Veterinary
Mosul University*

Ali M. Redah

ABSTRACT

This study revealed the presence of gross and histopathological changes in rabbit lungs exposed to passive smoking lesions, have represented squamous metaplasia in epithelial cells lining alveoli and bronchioles with infiltration of inflammatory cells around bronchus and bronchioles as well as deposition of lipid droplets in tunica intima and tunica media of pulmonary alveolar wall with fibroelastosis.

(Passive smoking)

5000-4000

(Bonita et al., 1999 2001)

(Burry et al., 1994) (Carcinogenic)
 .(Bang et al., 2003)
 (Environmental tobacco smoking)
 (Jarvis et al., 1983)
 (Kambic et al., 1979)
 .(Precancerous)
 (Squamous metaplasia)
 (Hyperplasia of basal cells)
 .(Milosevic et al., 1983, Vinay et al., 1997)
 (Kambic et al., 1979)
 (Molecular alternation)
 (Adenocarcinoma)
 (Burry et al., 1979)
 (Malignant neoplasms)
 .(Kambic et al., 1979)

(4) *Oryctolagus cuniculus* (12)
 (8) (4) (1.5-1.1)
 .³ 1 75x35x35
 (5) ()
 (300)

(Neutral buffer formaline solution 10%)

6-5

³ 1

Luna,)

-

.....

(Binocular microscope)

(1986

:Cross changes

()

:Histopathological changes

(Leukocytes Globule)

(Lymphoid follicles)

.(1)

(Pneumonia Interstitial)

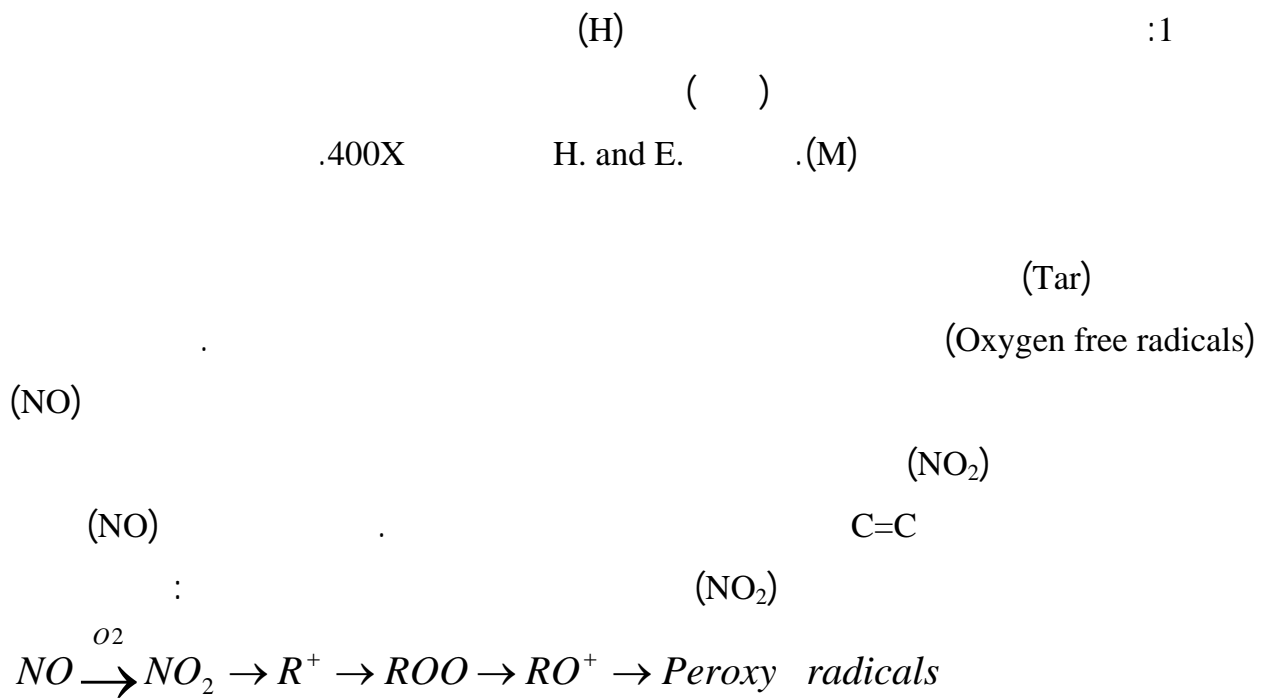
.(2)

(Fibroelastosis)

.(3)

(Cheville, 1983)

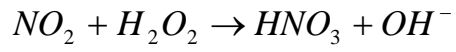
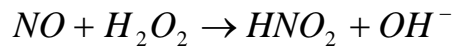
(Cheville, 1983)



.....

(M) :2
 .400X H. and E. .()

(EM) :3
 H. and E. .() (F)
 .400X



()

(a-antiprotase inhibitors)

(GSH)

(Cystein)

NO₂ NO

OH

(Lwowing et al., 1982, Finkelstein et al., 1995) ()

(Basic fibroblast growth factor)

(OH H₂O₂)

(Lipid peroxidation)

(VLDL-C)

(LDL-C)

.2001

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