

E125238C 05 MAY 1997 17:10:42
 8 ANSWERS PRINTED IN FORMAT 'ALL'
 IN FILE 'MEDLINE'

USING QUERY:

L1 12292 SEA FILE=MEDLINE SMOKING/CT(L)AE OR SMOKING/CT(L)CO
 L6 4109 SEA FILE=MEDLINE LUNG/CT(L)CY
 L7 8 SEA FILE=MEDLINE L1 AND L6

L7 ANSWER 1 OF 8 MEDLINE

AN 97078995 MEDLINE

TI Smoking impairs alveolar macrophage activation after inert dust exposure.

AU Moller W; Barth W; Pohlit W; Rust M; Siekmeier R; Stahlhofen W; Heyder J

CS GSF-Institut fur Inhalationsbiologie, Oberschleissheim, Germany.

SO TOXICOLOGY LETTERS, (1996 Nov) 88 (1-3) 131-7. Journal code: VXN. ISSN:
 0378-4274.

CY Netherlands

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals; Cancer Journals

EM 9702

EW 19970204

AB Magnetopneumography was applied to investigate intracellular phagosome motion in alveolar macrophage cells of healthy subjects (non-smokers and smokers). Ingested magnetic microparticles are inhaled and phagocytized by alveolar macrophages within hours. Thereby the particles are transferred into phagolysosomes. After magnetization the particles produce a macroscopic magnetic field of the lungs. Cellular motility causes a decay of the field (relaxation) by stochastic disorientation of the dipole particles (phagolysosomes) in the cells. Our studies have shown that the deposition of magnetite test particles induces a non-specific activation of the macrophage cells with a faster relaxation. This activation vanishes within the first day after particle deposition. This macrophage activation due to dust exposure was not present in smokers. It follows that cigarette smoking either causes a damage of the cellular defense or causes an adaptation of the macrophage cells to the permanent cigarette smoke inhalation.

CT Check Tags: Human; Support, Non-U.S. Gov't Administration, Inhalation Cell
 Movement: DE, drug effects *Dust: AE, adverse effects Ferric Compounds: AD,
 administration & dosage Ferric Compounds: DU, diagnostic use *** Lung: CY,
 cytology*** Lung: PH, physiology *Macrophage Activation: PH, physiology
 Macrophages, Alveolar: DE, drug effects *Macrophages, Alveolar: PH, physiology
 Magnetics Phagosomes: DE, drug effects *Phagosomes: PH, physiology ****Smoking:
 AE, adverse effects***

RN 1317-54-0 (ferrite)

CN 0 (Ferric Compounds)

2060544471

L7 ANSWER 2 OF 8 MEDLINE

AN 95056735 MEDLINE

TI Clinicopathological examination of the relation between Clara cells and smoking.

AU Nomori H; Kobayashi R; Iga R; Fuyuno G; Morinaga S; Torikata C

CS Department of Surgery Saiseikai Central Hospital, Tokyo, Japan..

SO KYOBU GEKA. JAPANESE JOURNAL OF THORACIC SURGERY, (1994 Oct) 47 (11) 888-91. Journal code: KQF. ISSN: 0021-5252.

CY Japan

DT Journal; Article; (JOURNAL ARTICLE)

LA Japanese

EM 9502

AB The relations between the number and cell area of Clara cells and smoking were examined in the lung tissue of 71 subjects by immunohistochemistry, using an anti-protein 1 antibody, which is a marker of Clara cells. The smokers showed significantly lower numbers of Clara cells than the non-smokers ($p < 0.05$). Although the mean non-smoking time in the ex-smokers was as long as 9 years, the ex-smokers showed a somewhat lower number of Clara cells than the non-smokers. The cell area of Clara cells was the same for smokers and non-smokers. We found that smoking reduces the number of Clara cells.

CT Check Tags: Female; Human; Male Adult Aged Aged, 80 and over Cell Count English Abstract ****Lung: CY, cytology*** Lung Neoplasms: PA, pathology Middle Age. ****Smoking: AE, adverse effects***

L7 ANSWER 3 OF 8 MEDLINE

AN 90161592 MEDLINE

TI Cigarette smoking and lung function.

AU Takahashi K; Osanai K

CS 1st Department of Internal Medicine, Yamagata University School of Medicine..

SO KOKYU TO JUNKAN. RESPIRATION AND CIRCULATION, (1990 Jan) 38 (1) 17-25. Journal code: R83. ISSN: 0452-3458.

CY Japan

DT Journal; Article; (JOURNAL ARTICLE)

LA Japanese

EM 9005

CT Check Tags: Animal; Female; Human; Male Adult Aged Asthma: ET, etiology Cell Count Dogs Elastin: ME, metabolism *** Lung: CY, cytology*** Lung: ME, metabolism *Lung: PP, physiopathology Lung Volume Measurements Macrophages Middle Age Neutrophils Protease Inhibitors: ME, metabolism Pulmonary Emphysema: ET, etiology ****Smoking: AE, adverse effects***

RN 9007-58-3 (Elastin)

CN 0 (Protease Inhibitors)

2060544472

L7 ANSWER 4 OF 8 MEDLINE

AN 89151551 MEDLINE

TI The effects of cigarette smoking on the activity of pulmonary macrophage.

AU Du B Y

SO CHUNG-HUA CHIEH HO HO HU HSI TSA CHIH CHINESE JOURNAL OF TUBERCULOSIS AND RESPIRATORY DISEASES, (1988 Aug) 11 (4) 235-6, 256.

Journal code: CYH. ISSN: 0253-2689.

CY China

DT Journal; Article; (JOURNAL ARTICLE)

LA Chinese

EM 8906

CT Check Tags: Animal Bronchoalveolar Lavage Fluid: CY, cytology English Abstract Guinea Pigs ****Lung: CY, cytology*** *Macrophage Activation *Macrophages: IM, immunology ****Smoking: AE, adverse effects***

L7 ANSWER 5 OF 8 MEDLINE

AN 89151044 MEDLINE

TI Toxic and transforming effects of mainstream cigarette smoke particles on human embryonic lung fibroblasts.

AU Liu C S

SO CHUNG-HUA I HSUEH TSA CHIH [CHINESE MEDICAL JOURNAL], (1988 Jun) 68 (6) 335-7. Journal code: CDG. ISSN: 0376-2491.

CY China

DT Journal; Article; (JOURNAL ARTICLE)

LA Chinese

EM 8906

CT Check Tags: Human *Cell Transformation, Neoplastic Chromosome Aberrations Fetus Fibroblasts: UL, ultrastructure ****Lung: CY, cytology*** ****Smoking: AE, adverse effects***

L7 ANSWER 6 OF 8 MEDLINE

AN 88047095 MEDLINE

TI Effects of cigarette smoke exposure on retention of asbestos fibers in various morphologic compartments of the guinea pig lung.

AU Churg A; Tron V; Wright J L

CS Department of Pathology, University of British Columbia, Vancouver, Canada..

SO AMERICAN JOURNAL OF PATHOLOGY, (1987 Nov) 129 (2) 385-93. Journal code: 3RS. ISSN: 0002-9440.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Abridged Index Medicus Journals; Priority Journals; Cancer Journals

EM 8802

AB For investigation of mechanisms whereby smoking might potentiate asbestos-related disease, guinea pigs were given 0.5 mg UICC amosite by intratracheal instillation. Half

the animals were subsequently exposed to cigarette smoke. Animals were sacrificed at 1 day, 7 days, and 1 month after exposure. Lungs were lavaged and macrophages separated from the lavage fluid. Lung fiber concentration, numbers of fibers in macrophages, and fiber sizes from tissue (TFs), macrophages (MFs), and macrophage-free lavagate (FFs) were determined by electron microscopy. Smoke-exposed animals retained greater numbers of fibers in lung tissue by 1 month but had greater total numbers of fibers in macrophages at all time periods. In both smokers and nonsmokers, fibers in the three morphologic compartments had distinctly different lengths: the longest fibers were found associated with the lung tissue; the macrophages always contained the shortest fibers; and the macrophage-free lavagate had fibers of intermediate size. However, fiber widths and aspect ratios did not show the same clear separation by anatomic compartment, suggesting that in both smoking and nonsmoking animals length is the size parameter which is most important in determining fiber clearance. Smoking did not affect the lengths of MFs but did produce a progressive reduction in the lengths of FFs and TFs with time. These data indicate that smoking causes a marked increase in the number of fibers retained in the lung within macrophages and suggest that either macrophage removal via the mucociliary escalator or macrophage mobility is impaired by cigarette smoke. However, smoking does not change the sizes of fibers in macrophages and does not appear to depress phagocytic capacity. These observations imply that failure of macrophage clearance and subsequent re-release of fibers into the medium may at least partially explain the changes in fiber sizes and eventual increases in tissue fiber concentrations in smoke-exposed animals.

CT Check Tags: Animal; Female; Support, Non-U.S. Gov't *Asbestos Guinea Pigs ***
Lung: CY, cytology*** *Lung: PA, pathology Macrophages: CY, cytology *Smoke: AE,
adverse effects ****Smoking: AE, adverse effects***
RN 12172-73-5 (Asbestos, Amosite); 1332-21-4 (Asbestos)

L7 ANSWER 7 OF 8 MEDLINE

AN 88022127 MEDLINE

TI NHLBI workshop summary. Effects of tobacco smoke components on cellular and biochemical processes in the lung.

AU Janoff A; Pryor W A; Bengali Z H

CS Division of Lung Diseases, NHLBI, Bethesda, MD 20892..

SO AMERICAN REVIEW OF RESPIRATORY DISEASE, (1987 Oct) 136 (4) 1058-64. Ref: 0 Journal code: 426. ISSN: 0003-0805.

CY United States

DT Conference; (CONSENSUS DEVELOPMENT CONFERENCE) Journal; Article; (JOURNAL ARTICLE) General Review; (REVIEW)

LA English

FS Abridged Index Medicus Journals; Priority Journals

EM 8801

CT Check Tags: Animal *** Lung: CY, cytology*** *Lung: DE, drug effects Lung:
ME, metabolism National Institutes of Health (U.S.) Pneumonia: ET, etiology Smoke:
AE, adverse effects Smoke: AN, analysis ****Smoking: AE, adverse effects***
Tobacco United States

2060544474

L7 ANSWER 8 OF 8 MEDLINE
AN 71050002 MEDLINE
TI Cytology of the lung in reference to irritant, individual sensitivity and healing.
AU Saccomanno G; Saunders R P; Klein M G; Archer V E; Brennan L
SO ACTA CYTOLOGICA, (1970 Jul-Aug) 14 (7) 377-81. Journal code: OLI.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 7103
CT Check Tags: Human; Male Adenocarcinoma: ET, etiology Adenocarcinoma: IM, immunology Adenocarcinoma: PA, pathology Adult Air Pollution IgG: AN, analysis IgM: AN, analysis *Irritants ****Lung: CY, cytology*** Lung Neoplasms: ET, etiology Lung Neoplasms: IM, immunology Lung Neoplasms: PA, pathology Middle Age Mining Occupational Diseases: CI, chemically induced Radon *** Smoking: CO, complications*** Sputum: CY, cytology Uranium

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