law (Title 17 U.S. Code).

STROBLUE TETRAZOLICH TEST RESCRITA IN THE BLACKURS OF PLENEAL EFFUBIOSS. A.V. Light and A.B. George, Department of Medicibe, Louisiana
State University, Shreveport, Louisiana.

The nitroblue tetranolium (NBT) test was initially proposed as a
test with which to identify bacterial infections. Although the NBT
test on serum was subsequently found to be of little value because it
was positive in many other conditions, the NBT test on synovial finit
is useful in identifying progenic arthrills. The prepace of this project was to evaluate the diagnostic utility of the NBT test on plenaral
field. Fleural fluids from 62 patients, including S with congestive
beart failure (CNF), 27 with salignancy (CA), 9 with tuberculosis (TB),
14 with pursuantia (Pres), and 3 with collagen vacuum disease (CND),
were studied. The NBT sours for such cell was nesiquantitated on a
scale of 0-3, the mure positive, the higher the score. Calls in the
gleural fluid were divided into 3 categories: polymorpountcloor leakecytes (PNC), including cosinophils and bacophils, small lymphorytes,
and monomorbear cells other than small lymphorytes,
and monomorbear cells other than small lymphorytes. When possible, 100
cells in each category were counted. The total MBT score for a cell
estegory was the sum of the intividual scores for each of the cells.
The means and attacked deviations for the pleural fluid NBT scores were
cells. The

CHLL TIPE CHE Diner MONO Small Lymph 100 ± 73 120 ± 73 45 ± 61

We conclude that the diagnostic utility of the NPT test on plears) fluid is limited. Many conditions other than infection are associated with high plears! fluid NbT scores. A very high score for all 3 cell categories is suggestive of collagen vaccular disease.

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The ADDIE EFFECTS OF TORACCO SHORE AND SYNTHETIC SADVING MATURIALS ON POLYMONARY AMIRMOTORIAL DEFENSES. Y. Minajan, G. Maber, G. Sornberger. J. Shea", N. Hinds' and M. First", Dept. of Xed., Harvingd Heal, School and Dept. of Enviro. Health Sci., 1810, Reston, Massachusetts.

Epidemiologic association of tohacco eigerettm consumption with cardiopulmonary disease has stimulated the Jevelopmone of few ter, electine-free synthetic smoking substitutes. Two synthetic smoking products. Cytrel and Min, have recently been introduced as blends in the luropean cigarette trade. Because scant biologic oridence exists on the masfeases" of these products, we evaluated their offects on largolated trades are recently been introduced as blends in the luropean cigarette trade. Because scant biologic oridence exists on the masfeases" of these products, we evaluated their offects on largolated to the offects of natural tobacco. Desimetry subsequent to acute Inhaled such effects of natural tobacco. Desimetry subsequent to acute Inhaled such exposure by male rats wis monitored using make tracers, correlated with bacterial fluctivation, and extrapolated to human smoking levels. Following an intropulmonary chellenge of 7, manuse rats were exposed to smale from each unfiltered material at all come-hour intervals, while matraphages tavaged from untreated animals were incubated with 5, cibbus in graded caseats of arbitrated animals were incubated with 5, cibbus in graded caseats of arbitrated animals were incubated with 5, cibbus in graded caseats of arbitrated animals were incubated with 5, cibbus angular development of the translation of tobacco smoke significantly impaired intrapulationary untistophylococcal activity (87) bacterial inactivation relative to control and NSM showing improvement but still significant bepairment (97) inactivation). Guitared macraphages exhibited a dose-dependent depression in bedericidal planetion and inhaled smoke particulate deposition in vil products suggested 2 gas phase cytotoxin. Potential hereased l

EZSPIRATORY FUNCTION IN COPU PATTENTS DURING DIFFERENT STAGES OF LEEP. R.J. Hartin, " W.C. Orr, " C.B. Patterson, B.E. Pennock, " and R.M. Foggers. The Dept. of Hedicine and Dept. of Psychiatry, niv. of Oklohuma Beatth Sciences Center, and VA Bospital, Oklo.

Serv., of Okinhama Beatth sciences Senter, and ya Dospitar, OkinCity, Okishama.

The purpose of this study was to relare sleep patterns to
atterial saturations (ast), arterial blood gases (ASG), apneas
and scraythmias in patients with COPD. Pive patients with COPD
(FEV ranges. 75-2.12, x=1.6)) were studied at night. Continuous
recordings were made of eye movements, gasinglossom activity.
ECG (V-5), electroemcephalogram, expired CO,, thoracia movement
and set (car oximeter). A radial actory calibrate was inserted
for hourly ABG. Heam values for sleep stages and related act
(Table) reveal an extended sleep onset laterny (time from start
to initial sleep) with markedly decreased sleep efficiency (alerp
minutes/total study time). Of particular note are the high
percentage of wakefulness which is secondary to multiple spontamove arounds and the markedly reduced REs stage. The mean
FACD, from awake ro sleep (40-4t multy) shows the same degree
of hipoventilation as in normals. Recorded apneas were comparable
to cormals. Archythmias recorded were strial and ventrientar
premature bests, however, there was not a predilection to any
elsep stage of sat.

Age corrected. SOL'aleep coset latency in mirates. SK - sleep efficiency, W = wake, L-4 = stages, REM = rapid THE DIAGNOSIS OF FULMOWARY ALVEOLAR PROTEINGSIS WITHOUT LAWC BIOPSY.

THE DIAGNOSTS OF PULMWARY ALVEOLAR PROTEINOSIS MITHOUT LAWC BIOPSY, R.J. Martin,* R.M. Rogers, F.J. Coalege,* and D.C. Levin,* Dept. of Medicine and Dept. of Parhotogy, Laiv. of Oklahoms Health Sciences Center and VA Hospital, Oklahoms Eigy, Okla.

The clinical and radiographic findings in palmonary alveolar proteinosis (PAP) are mundiagnostic and in the past the diagnosis has been established only by lung biopsy. The importance of extablishing this diagnosis is that patients with PAP have a different prognosis and require different therapy than patients with other chronic diffuse long diseases (DLD). We have previously reported that a shunt fraction (QS/QT) greater than tAT and an elevated serum LDH suggested the diagnosis of PAP (12 patients) as compared to other forms of DLD (35 patients). Both the QS/QT and LDH were significantly elevated in the PAP group as compared to the DLD group (p < .001). The purpose of this study was to determine if the diagnoses of PAP could be strongthened by combining these common taboristory studies with histologic findings from limited segmental lavage via the fiberoptic bronchoscopy. In 8 PAP patients, the hematosstin and cosin (MiZ) sections showed: 1) relative absence of alveolar macrophages; 2) macrophages present had cytoplasmic conjumphilic particles; and 3) large proteinaceous aggregates interapersed with many small granules. Home of these findings were seem to the coutrul group. Periodic Acid Schiff (PAS) staining was not useful in differentiating the two groups as curinums material from normals stained positive. Our data suggest that the diagnosis of PAP can be made if the QS/QT is greater than 142, the LDH is ejecuted and the specific MSE stained histologic findings are present in cell blocks from segmental lavage. cell blocks from segmental lavage.

Commonstrate the content of the property of the second section of the second sections of whole language of the content of the second sections of whole language sections of the proteins and sections are second in the language section of the proteins present in purificial versus and sections are sections and sections and sections are sections and sections. The lipids of surface active material (SAN) are thought to be stored in the language beddles of alveolar type II cells, but the cellular and subscriptions in localization of the proteins present in purified verface active material is much less certain. We extended the work of Elass (Am. Set. Resp. bis. 107:78a, 1975) and localized SAM proteins (antisens) in whole long and in isolated type II cells and macrophages by invanofluor-escence. Rat SAM was purified by isopycate centrifugation (Am. J. Physiol. 223:707, 1972) and was used to immunize rabbits. The antisense was adsorbed with rat serum and was partified by an immenuadauthant column prepared with rat serum and was partified by an immenuadauthant column prepared with rat serum and was partified by an immenuadauthant column prepared with rat serum and was partified by an immenuadauthant column prepared with rat serum and was partified by an immenuadauthant column prepared with rat serum and was partified by an immenuadauthant column prepared with rat serum and was partified by an immenuadauthant column prepared with rat serum and was partified by an immenuadauthant column prepared with rat serum and was partified by an immenuadauthant column prepared with rat serum and was partified by an immenuadauthant column prepared with rat serum and was partified by an immenuadauthant column prepared with rat serum and was partified by an immenuadauthant macrophages. There was some fluorescence as serum in the alveolar lane (alveolar macrophages). There was some fluorescence as a serum in the alveolar partified by an immenuadauthant protein and the lipids of SAM are synthesized by natrophages. More precise cellular and

teins) and improved resolution (electron microscopic immunocytochemis-try).

ACUTE AND CHRONIC ULTRASTRUCTURAL (US) FULHONARY CHARGES PRODUCED BY THE ADMIT RESPIRATORY DISTRESS SYNDECHE (ARDS), M.A. Matthey,* F.S. Overland,* P.C. Magnoril, D.G. Magny,* (Intr. by J.F. Magny*). Dept. of Medicine and Fathelogy, University of California, San Prace lavo, Ca.

In order to define the BS sequence of lung injury and repeir associated with ARDS we performed transmission electron microwcopy studies on lungs of 5 patients dying at various times following the unset of ARDS. One patient dying without lung disease was included as a control. All patients required assisted remitiation. Multiple, performances lung injections of 12 glutarnidebysis in Southers's buffer were made immediately after death according to Weithel's technique, Sperimens were retrieved at autopsy within 5 hours. Ecology of the ARDS included shock and aspiration in 7, phonytein averdate (n.1, and purewage) in 2. The two parlients who died within 4h hours had interscicial and alveniar educations with homographe, proliferation, type II pneumonates (PII), hyalize mombranes, denoted epithelial antiface, and endothelial switting. The lungs of the patient dying after 2 werks of ARDS allowed US changes minimal to the two parlients dying in the acute phase as well as viril inclusions bodies. Specimens obtained from 2 patients who died at 6 and 15 meris after onnet of ARDS showed restoution of alveolar epithellum witch PI and PII, endothelial cell Importation, intersciteful fibroblasts (PP) with introduced collages (ID), and general thickening of the alveolar capillary membrane. Proliferation of the interspection, and clearing of alveolar debris. Overall, the nature of the US changes correlated best with the distance of the patient's survival after ARDS rather than a specific ethology.

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