

and bronchial-parenchymal and vascular-parenchymal interdependence and interdependence between lung regions with obstructed airways and the surrounding lung parenchyma or the chest wall are problems of nonuniform lung deformation. Second, failure to demonstrate a change in regional volume distribution when thoracic cavity shape is altered does not necessarily mean that nonuniform volume distribution is not predominantly determined by thoracic cavity shape; some changes of shape do not affect the distribution of regional volume. Third, the relationship between regional volume and local surface pressure depends on the actual deformation of the lung. Fourth, a quantitative approach to any situation involving a nonuniform deformation of the lung requires a description of lung mechanical behavior beyond that which can be obtained from the pressure-volume curve.

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## SYMPOSIUM ON TOXICOLOGY, DRUGS AND POLLUTANTS

A medical symposium, "Clinical Toxicology, Pharmacology and Carcinogenic Hazards," will be presented in San Francisco on December 9-11, 1977, by University of California Extension, Berkeley, in cooperation with Continuing Education, UC School of Medicine, San Francisco.

The symposium is planned to update information relating to drug toxicology, clinical pharmacology, and drug and chemical environmental hazards. Highlighted will be techniques for identifying drug overdoses and monitoring drugs and metabolites that are being used therapeutically. Attention will be given to drug interferences with laboratory tests, the current status of testing for environmental pollutants, and the carcinogenic hazards of drugs and chemicals. Extraction and separation methods will be featured, with an overview of procedures ranging from gas chromatography and mass spectrometry to radioimmunoassay and enzyme immunoassay. Problem solving in interpretation of analyses, community drug programs and identifications of street drugs will be discussed, as will the effects of drugs on the liver and on kidney metabolism.

A complete symposia program and information about registration procedures may be obtained by writing to Medical Symposia, Division of Letters and Sciences, University of California Extension, Berkeley, CA 94720 or call (415) 642-1061.

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