
Inhaled Particles

deposition, retention, and clearance of inhaled particles* - 338 the major regions of the respiratory tract differ considerably in structure, size, function, and sensitivity or reactivity to deposited particles. some also have different mechanisms for particle elimination. thus a complete determination of dose from an inhaled aerosol depends on (1) the regional deposition, (2) the retention times at the deposition sites and along the elimination ... **the role of inhaled particles in the pathophysiology of ...** - the role of inhaled particles in the pathophysiology of cardiovascular disease final report agreement no. 04-320. michael kleinman, principle investigator. department of medicine. university of california, irvine. irvine, ca 92697-1825. revised 3 may 2010. prepared for the california air resources board and the california environmental **deposition of inhaled particles in the human respiratory ...** - inhaled particles are carried with the tidal air through the respiratory system. however, because of forces acting upon the particles, their trajectories are different from air stream lines. the most important mechanical forces are gravity, inertia, and impulse transfer from collisions with gas molecules. **health effects of inhaled particles - american chemistry** - health effects of inhaled particles. owen r. moss. the hamner institutes for health sciences. with particles, as with all chemicals, cell or organ toxicity is expected at sufficiently high particle dose. however, the description of dose is a challenge. for example, with nanomaterials the traditional mass-**exposure to svocs from inhaled particles: impact of desorption** - inhaled in tobacco smoke, can deposit in the respiratory tract (rt) by four different mechanisms: (1) gas-phase nicotine directly deposits to respiratory tract tissue. (2) nicotine desorbs from particles and then deposits on tissue. (3) particles deposit, and nicotine desorbs from deposited particles and then deposits on tissue. **deposition of inhaled particles in the lungs** - inhaled particles.¹⁴ the insoluble particles are trapped by the gel and they are moved toward the pharyngolaryngeal region by the movements of the ciliated epithelium, where it is either coughed up or swallowed.^{15,16} the clearance speed depends on the number of ciliated cells and the cilia beat frequency, and it may be affected **pharmacokinetic profile of inhaled submicron particle ...** - background: inhaled chemotherapeutics may enhance pulmonary drug exposure to malignant lesions in the lung without substantially contributing to systemic toxicities. the pharmacokinetic profile of inhaled submicron particle paclitaxel (nanopac) in healthy rodent plasma and lung tissue is evaluated here to determine ad- **inhaled particulate matter: size and risk - the heart of ...** - inhaled particulate matter: size and risk - the heart of the matter michael kleinman university of california, irvine ... cardiovascular effects are stronger from particles of smaller size (i.e. fine and ultrafine pm). ... inhaled pm has significant effects on the cardiovascular i. **particle size acute inhalation injury and particle size ...** - inhaled substances may affect the respiratory system at various levels according to various factors, an important factor of which is the particle size of that substance. bigger particles have enough mass and inertia to be trapped in the airway between the nostril and bronchi when inhaled, while smaller particles are drawn deeper into the lungs. **inhaled corticosteroids in asthma management** - of inhaled particles that are within the respirable range and captures larger particles and thus prevents their deposition in the oropharynx. in the new hfa formulations of fluticasone and beclomethasone dipropionate the drug component is in solution, whereas in the hfa formulations of fluticasone **particle size distribution of mainstream and exhaled ...** - the particle size distribution of cigarette smoke is an important factor in predicting the deposition fraction of the inhaled particles in various regions of the respiratory tract. mainstream cigarette smoke is a direct concern for smokers, while the exhaled and side stream smoke contribute to passive (second hand) smoking. **challenges in nonclinical development of inhalation drug ...** - of inhaled particles as a function of particle size in humans kennedy & valentine. 1994, inhalation toxicology. in: principles and methods of toxicology, 3rd ed. **the lungs as a portal of entry for systemic drug delivery** - to get a drug efficiently into the lungs it must be inhaled as particles with aerodynamic diameters somewhere between 1 and 3 μm. each particle will contain billions of small molecules or hundreds of millions of macromolecules like insulin. how the patient inhales and the size of the aerosol will determine if **overview of particle air pollution (pm_{2.5} and pm₁₀)** - •inhaled particles can pass from the lungs into the bloodstream and affect the cardiovascular system •effects of short-term (acute) exposure: -irregular heart beat -nonfatal heart attacks •effects of long-term (chronic) exposure: -aggravation of existing heart diseases -premature death of people with heart disease 7 **mini review inhaled particles and lung cancer. part a ...** - mini review inhaled particles and lung cancer. part a: mechanisms ad m. knaapen¹, paul j.a. borm², catrin albrecht² and roel p.f. schins^{2*} ¹department of health risk analysis and toxicology, university of maastricht, the netherlands ²institut für umweltmedizinische forschung (iuf) at the heinrich-heine-university, düsseldorf, germany both occupational and environmental exposure to parti-

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