

Silicosis and the metabolism of silica.

- - Silicosis



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Silica Exposure, Dust Inhalation

However, other studies indicate that the incidence of silicosis as defined by opacities on chest X-rays in hard rock miners may be as high as 1% in populations exposed over a working lifetime i.

NLRP3 inflammasome inhibition attenuates silica

Comprehensive lipid profiling of bleomycin-induced lung injury.

Silicosis Information

The levels of tumor necrosis factor TNF -alpha were significantly increased 1. The second type of silicosis is called accelerated silicosis, which develops after 5 to 10 years of exposure to high concentrations of silica. What Impact Does Silicosis Have on Human Health When silicon is in the form of crystalline silica and comes in contact with human lung tissue it is completely toxic.

Silicon, Silicates and Silicosis

Silica is believed to interfere with the body's immune response to the bacteria that cause TB. Prostacyclin agonist with thromboxane synthase inhibitory activity ONO-1301 attenuates bleomycin-induced pulmonary fibrosis in mice. Although new radiotracers, possibly with greater specificity for silica-induced lesions, are being studied, they have yet to be validated in terms of their clinical applicability.

What is silicosis?

The biochemistry of silicic acid: The presence of silica in tissues.

Silicosis: A Blow to Human Kind and its Breakthrough

From a histopathological point of view, silicosis is characterized by the presence of granulomas, with collagen nuclei surrounded by epithelioid cells, giving rise to silicotic nodules, which are diffusely distributed in the lungs and, with the progression of the disease, can coalesce and form large

masses, distorting the parenchyma. Courtesy of Robert Homer, MD, PhD.

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