Take-home message

- Asbestos is the main etiological agent of the MPM. Tobacco is not a risk factor but a multiplicative factor.
- Mesothelioma is often asymptomatic during its early stages of development.
- The only known risk factor is asbestos. It is classified as a carcinogen by the International Agency for Research on Cancer (IARC).

Complications

- Hoarse voice
- Pain in the lower back or on the chest side
- Worsening or persistent cough
- Respiratory problems
- Difficulty in swallowing

Possible treatment

- Techniques to treat mesothelioma include: surgery, rarely radiotherapy for restricted indications, and especially chemotherapy.
- As for other forms of cancer, stage determination is important to clarify the therapeutic strategy.

In Olea Sphere®?

The multiparametric study including the DWI, Permeability and Analysis plugins in Olea Sphere®, will make it possible to differentiate the tumor (mesothelioma), fibrosis, pleural effusion and possible hemorrhages. Thus, the MRI sequences of T2, Diffusion, T1 and dynamic contrast enhanced T1 each have their role to help radiologist to do his diagnosis. The ROIs automatically synchronized on each plane of view, allow to create pie charts of pixel intensity distribution, which will help to differentiate between fibrosis, tumors and vessels for certain cases of hyper vascularized mesotheliomas.

Sources:

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Did You Know?

Mesothelioma