

Clinical Image

Adenomyomatosis Looks Like a Pearl Necklace

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Clinical Image

Focal and diffuse thickening of the gallbladder, Benign and non-inflammatory pathology.

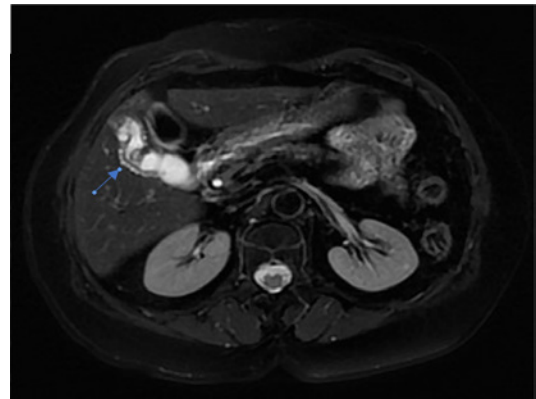
Gallbladder adenomyomatosis is a benign alteration of the gallbladder wall characterized by excessive epithelial proliferation associated with muscle hyperplasia, resulting in thickening of the gallbladder wall. Excessive epithelial proliferation leads to epithelial folding in the underlying muscle layer with the subsequent formation of diverticular pockets lined with epithelium, the Rokitansky-Aschoff sinuses (SRA).

MRI

Thickening of the gallbladder wall can be clearly represented on both T1 and T2 weighted images, and is not a specific finding.



T1: Coronal MRI biséquences showing rounded hyper-intense intramural cavities.



T2: Axial T2 rounded hyper-intense intramural cavities.

MRI guarantees high specificity in the diagnosis of GA by precisely excluding extra-parietal infiltration, which is indicative of gallbladder carcinoma.

ARS generally appear clearly in hyperintensity on T2-weighted images [1-3], hypointense on T1-weighted images and do not show any enhancement of contrast.

However, the progressive concentration of bile and the development of calcifications can modify the MRI appearance of the RAS which can become increasingly hyperintense on T1-weighted images and relatively hypointense on T2-weighted images.

The pearl necklace sign refers to the characteristic curvilinear arrangement of multiple rounded hyperintense intramural cavities seen on T2-weighted MRI.

References

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