Utility of ultrasound in the diagnosis and location of mid urethral slings

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Clinical image description

There has been a resurgence in use of autologous fascial slings following the Food and Drug Administration ban on the use of synthetic mid-urethral slings for the management of stress urinary incontinence. Three-Dimensional Endovaginal Ultrasound (3D EVUS) is a validated technique that can be used to map the full distribution of synthetic mid urethral slings in real time [1]. This is due to the highly echogenic properties the polypropylene material possesses [2]. Therefore, synthetic slings typically have a distinctive honeycomb appearance due to pores within the polypropylene mesh. Connective tissue including fascia, also have an hyperechogenic, but linear appearance on ultrasound due to its high collagen fibre content [3]. However, the ultrasound appearances of autologous rectal fascial slings specifically have rarely been reported.

References

