

Fibrous Band A fibrous band is a dense connective tissue structure composed primarily of collagen fibers, typically appearing as a thin, linear, and low-signal (hypointense) element on MRI. These bands are often:

□ Anatomically: Part of ligaments, fascia, or adhesions

Serve to stabilize, anchor, or compartmentalize structures

May appear in normal anatomy (e.g., falx cerebri, diaphragma sellae) or pathological conditions (e.g., fibrous septa, scarring)

□ On MRI: Appear T1- and T2-hypointense due to low water content

May be mistaken for vessels, artifacts, or pathological bands without proper validation

△ In Imaging Literature: Frequently overinterpreted when new sequences reveal minute structures

Must be correlated with surgical, histological, or functional relevance

Risk of false significance in descriptive studies based solely on image appearance

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