Sagittal Bands: Are They Really Sagittal?
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Citation

Abstract
Sagittal bands or the transverse lamina arising from the palmar plate and the inter metacarpal ligaments at the neck of the metacarpal form a part of the dorsal digital expansion and the intrinsic muscle tendons work together to keep the extensor tendons centralised over the joint.
Term Sagittal band was first used by Tubiana and Valentinin in 1964.
Winslow in 1746 described these as 'lateral extensions of extensor tendons'.
Other terms used for these structures are Transverse Fibres (Bunnell 1944), Transverse Lamina (landsmeer 1949), dorsal hood (Poirter and Charpy 1899) Metacarpo phalyngeal girdle (Zancolli 1979) (5)

As a student of the anatomy of the hand and the human body one is forced to wonder how did the term Sagittal band come to such popular use.

INTRODUCTION
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As a discussion on the validity of the term let us review the planes in the human body in figure 2

For descriptive purposes the body is supposed to be in the erect posture, with the arms hanging by the sides and the palms of the hands directed forward. The median plane is a vertical antero-posterior plane, passing through the center of the trunk. This plane will pass approximately through the sagittal suture of the skull, and hence any plane parallel to it is termed a sagittal plane. A vertical plane at right angles to the median plane passes, roughly speaking, through the central part of the coronal suture or through a line parallel to it; such a plane is known as a frontal plane or sometimes as a coronal plane. A plane at right angles to both the median and frontal planes is termed a transverse plane.\(^1\)

As evident from above anatomical discussion sagittal band is a misnomer and should be described as a transverse rather than a sagittal band.

Dynamic changes in SB fiber orientation were observed with different positions of the MCP and wrist joints. The fibers were perpendicular (0°) to the extensor tendon in neutral position, by Christopher M. Young MD and Ghazi M. Rayan MD\(^4\). It is very easy to orient ourselves to the position of extensor tendons which run in sagittal plane and the sagittal bands run perpendicular to the planes of extensor tendons, i.e., in a transverse plane.

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