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Benign neck masses showing restricted diffusion: Is there a histological basis for discordant behavior?

Abanti Das, Ashu S Bhalla, Raju Sharma, Atin Kumar, Meher Sharma, Shivanand Gamanagatti, Alok Thakar, Suresh Sharma

### Abstract

Diffusion weighted imaging (DWI) evolved as a complementary tool to morphologic imaging by offering additional functional information about lesions. Although the technique utilizes movement of water molecules to characterize biological tissues in terms of their cellularity, there are other factors related to the histological constitution of lesions which can have a significant bearing on DWI. Benign lesions with atypical histology including presence of lymphoid stroma, inherently increased cellularity or abundant extracellular collagen can impede movement of water molecules similar to



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