Dynamic magnetic resonance (MR) imaging for pituitary microadenomas is usually performed in 2-dimensional (2D) multi-slice method which used coronal T(1)-weighted imaging with turbo spin echo (SE) method. However, on MR images using 2D multi-slice method, the detectability of small lesions between slices may decrease.

Dynamic MR imaging which used coronal T(1)-weighted imaging with 3D turbo SE method is feasible by utilizing the reduction of TR and low refocusing flip angle, as well as the combination of parallel imaging and radial sampling [1)].

1)
Ogawa M, Matsumura Y, Matsumoto T, Tsuchihashi T, Tsubakiyama S. [Study of dynamic pituitary magnetic resonance imaging using three-dimensional turbo spin echo method at 3 Tesla MRI]. Nihon Hoshasen Gijutsu Gakkai Zasshi. 2012;68(3):231-9. Japanese. PubMed PMID: 22449898.