

MRI Imaging of Double Pituitary Microadenoma: A rare preoperative diagnosis

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Pituitary adenomas are benign, single, monoclonal slow-growing neoplasms usually related to chemical overproduction [1]. Double pituitary adenomas are characterized as the occurrence of two adenomas in the single pituitary gland, both having typical immunohistochemical and histopathological highlights [2]. It is further categorized into contiguous and clearly distinct types. Clearly distinct tumours are recognized on neuroradiological imaging [3]. We present a case of a 21-year-old female presenting with a complaint of amenorrhea, which, on further evaluation, was found to be a case of double pituitary microadenoma, which is a rare finding on neuroimaging. Double pituitary adenoma is an infrequently occurring tumour, with an incidence rate of 0.9% in random pituitary autopsy samples [4]. Their prevalence rate ranges from 0.25 to 2.6% of post operated pituitary adenoma specimen [5-6]. As the use of high-field MRI has increased in the recent years for suspected pituitary pathologies, the preoperative detection of double pituitary adenoma has also increased, which is aided by cytological analysis. Majority of the cases reported are the findings on the autopsy samples, and we present a case report of young female as a preoperative finding. Pituitary adenomas are segregated on the basis of size: if measuring ≤ 10 mm, it is considered as microadenoma, and if > 10 mm, it is considered as macroadenoma [9]. Preoperative MRI imaging has a great role in identification of dual adenomas as its preoperative diagnosis may prevent chances of relapse and surgical failure.

Biography

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