

Pineal hemorrhage

It is very important to perform the [differential diagnosis](#) because [pineal hemorrhage](#) is very rare and it may be associated with many different causes. The possible causes of [pineal](#) hemorrhages are [pineal region tumors](#) ^{1) 2) 3) 4) 5) 6) 7)}.

[Vascular pineal malformation](#) and [pineal cysts](#) ^{8) 9) 10)}.

Various pineal tumors have been reported to cause intra-tumoral hemorrhage including [ganglioglioma](#) ¹¹⁾ pineocytoma ¹²⁾ [choriocarcinoma](#), ^{13) 14)} meningioma ¹⁵⁾ and hemangiopericytoma. ¹⁶⁾ Embryonal carcinoma and metastatic melanoma are also included in the differential diagnosis ^{17) 18)}.

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