

Cystic brain metastases

Cystic brain metastases are relatively rare ¹⁾.

Pathogenesis

The pathogenesis of cyst formation is not clear. According to the literature the exudative fluid, often seen as massive edema surrounding the metastatic tumor, tends to collect inside the tumor and expand as a cystic mass depending on its local conditions ²⁾.

Cummings suggested that cyst formation is from tumor degeneration followed by transudation of fluid from nearby blood vessels ³⁾.

Alternatively, Gardner et al. advocate that the cystic components in brain tumors are merely interstitial fluid without its normal drainage route due to the lack of lymphatics in the surrounding brain ⁴⁾.

Treatment

[Cystic brain metastases treatment.](#)

¹⁾

Andrews RJ, Gluck DS, Konchingeri RH. Surgical resection of brain metastases from lung cancer. *Acta Neurochir (Wien)*. 1996;138(4):382-9. doi: 10.1007/BF01420299. PMID: 8738387.

²⁾

Hossmann KA. Development and resolution of ischemic brain swelling. Wien, New York: Springer-Verlag; 1976. pp. 249-258.

³⁾

CUMINGS JN. The chemistry of cerebral cysts. *Brain*. 1950 Jun;73(2):244-50. doi: 10.1093/brain/73.2.244. PMID: 14791790.

⁴⁾

GARDNER WJ, COLLIS JS Jr, LEWIS LA. Cystic brain tumors and the blood-brain barrier. Comparison of protein fractions in cyst fluids and sera. *Arch Neurol*. 1963 Mar;8:291-8. doi: 10.1001/archneur.1963.00460030075007. PMID: 13946556.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

https://neurosurgerywiki.com/wiki/doku.php?id=cystic_brain_metastases

Last update: **2024/06/07 02:51**

