

Non-Small cell lung cancer intracranial metastases epidemiology

Prevalence: Brain metastases are a common complication of NSCLC, occurring in a significant percentage of patients with advanced-stage disease. The exact prevalence varies depending on the stage and subtype of NSCLC, but it can be seen in up to 40% of patients during the course of their illness.

Lung cancer is the leading cause of cancer mortality worldwide, accounting for 1.38 million annual deaths, representing 18.2% of total deaths from **cancer** ¹⁾.

Among those, approximately 7.4% of **non-Small-cell lung cancer** (NSCLC) patients will have brain metastases (BM) at presentation ²⁾ Approximately 30% of patients with NSCLC develop brain metastases; about half of these patients have brain metastases at the time of diagnosis, while others develop brain metastases during periods of treatment ^{3) 4) 5) 6)}.

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Jemal A, Bray F, Center MM, Ferlay J, Ward E, Forman D. Global cancer statistics. CA Cancer J Clin. 2011 Mar-Apr;61(2):69-90. doi: 10.3322/caac.20107. Epub 2011 Feb 4. Erratum in: CA Cancer J Clin. 2011 Mar-Apr;61(2):134. PubMed PMID: 21296855.

²⁾

Schuetz W. Treatment of brain metastases from lung cancer: chemotherapy. Lung Cancer. 2004 Aug;45 Suppl 2:S253-7. Review. PubMed PMID: 15552807.

³⁾

Barnholtz-Sloan JS, Sloan AE, Davis FG, Vigneau FD, Lai P and Sawaya RE. Incidence proportions of brain metastases in patients diagnosed (1973 to 2001) in the metropolitan Detroit cancer surveillance system. J Clin Oncol 2004; 22: 2865-2872.99

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Waqar SN, Samson PP, Robinson CG, Bradley J, Devarakonda S, Du L, Govindan R, Gao F, Puri V and Morgensztern D. Non-small-cell lung cancer with brain metastasis at presentation. Clin Lung Cancer 2018; 19: e373-e379.

⁵⁾

Brower JV, Robins HI. Erlotinib for the treatment of brain metastases in non-Small-cell lung cancer. Expert Opin Pharmacother. 2016;17(7):1013-21. doi: 10.1517/14656566.2016.1165206. Epub 2016 Mar 30. Review. PubMed PMID: 26967582.

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Zhao J, Chen M, Zhong W, Zhang L, Li L, Xiao Y, Nie L, Hu P, Wang M. Cerebrospinal fluid concentrations of gefitinib in patients with lung adenocarcinoma. Clin Lung Cancer. 2013 Mar;14(2):188-93. doi: 10.1016/j.clcc.2012.06.004. Epub 2012 Jul 28. PubMed PMID: 22846582.

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