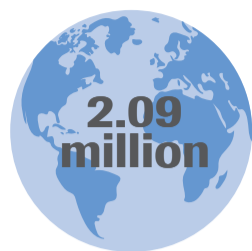
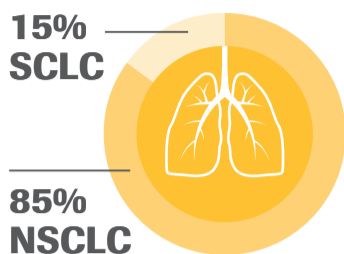


# Brain metastases in lung cancer

## Lung cancer and the CNS



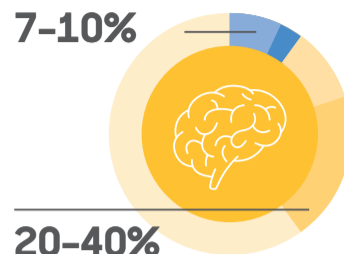
Lung cancer is the **most common type of cancer worldwide**, with **2.09 million** new cases diagnosed **every year**<sup>1</sup>



About **85%** of lung cancer cases are **non-small cell lung cancer (NSCLC)** and **15%** are **small cell lung cancer (SCLC)**<sup>2</sup>



The **brain** and other **central nervous system (CNS)** locations are common sites of progression in lung cancer, particularly in NSCLC<sup>3</sup>



~**7-10%** of NSCLC patients present with brain metastases at the time of initial diagnosis. **20-40%** of patients develop brain metastases at some point during their illness<sup>4</sup>

## Brain metastases

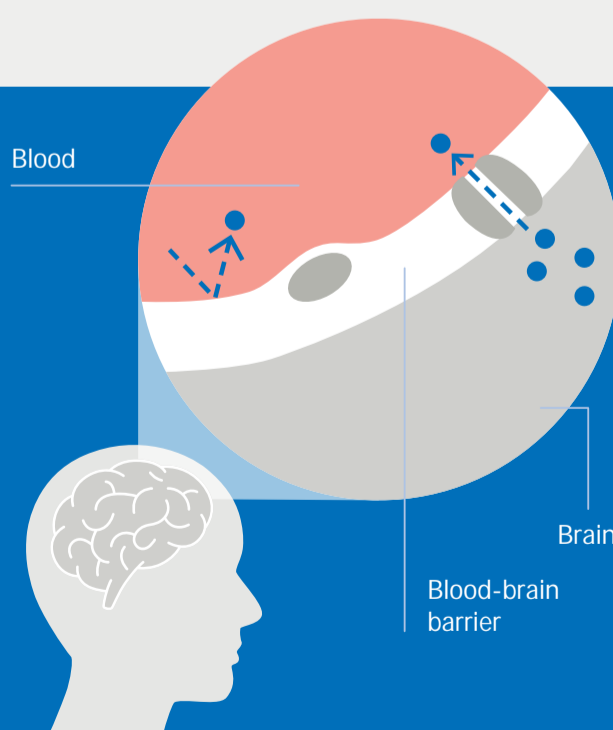
Brain metastases, sometimes known as secondary brain tumours, can cause:<sup>5</sup>

- Headaches
- Seizures
- Impaired vision
- Numbness
- Impaired movement
- Reduced mental performance
- Changes in personality and behaviour

Brain metastases are also associated with a significant reduction in quality of life and life expectancy<sup>6</sup>

## Treatments

- Tumours in the brain are difficult to treat as the **blood-brain barrier (BBB)** blocks and actively removes some drug molecules from the brain<sup>7</sup>
- Treatments which are effective in crossing the BBB and remaining in the brain offer new hope for patients



## References

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