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Approximately 19% of all cancer-related deaths are due to lung cancer, which is the leading cause of mortality worldwide. Small cell lung cancer (SCLC) affects approximately 15% of patients diagnosed with lung cancer. SCLC is characterized by aggressiveness; the majority of SCLC patients present with metastatic disease, and less than 5% of patients are alive at 5 years.

Author: Patricia Mondelo-Macia, Jorge Ga... Publish Year: 2021

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## Liquid biopsy

A liquid biopsy, also known as fluid biopsy or fluid phase biopsy, is the sampling and analysis of non-solid biological tissue, primarily blood. Like traditional biopsy this type of technique is mainly used as a diagnostic and monitoring tool for diseases such as cancer, with the added benefit of being largely non-invasive. Therefore, it can also be done more frequently which can better track tumors and mutations over a duration of time. It may also be used to validate the efficiency of a cancer treatment drug by taking multiple liquid biopsy samples in the span of a few weeks. The technology may also prove beneficial for patients after treatment to monitor relapse.

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Liquid biopsy is a non-invasive, rapid, repeated and alternative tool to the traditional tumor biopsy that could allow the most personalized medicine into the management of SCLC patients. Circulating tumor cells (CTCs) and cell-free DNA (cfDNA) are the most commonly used liquid biopsy biomarkers.

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Liquid Biopsy: Current Status and Future Perspectives *Oncol Res Treat.* 2017;40(7-8):404-408. doi: 10.1159/000478018. Epub 2017 Jul 13. Authors Sonja Mader, Klaus ... These hurdles might be overcome by analyzing tumor cells or tumor cell products in blood samples (liquid biopsy), which in principle might reflect all subclones present at that ...

Cited by: 87 Author: Sonja Mader, Klaus Pantel

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Liquid biopsy, principally circulating tumor cells (CTCs) and cell-free DNA (cfDNA), has the potential to improve the management of SCLC at different levels: screening, minimal residual disease detection, monitoring systemic treatment initiation and response, and determining the development of resistance.

Author: Patricia Mondelo-Macía, Jorge García-... Publish Year: 2021

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