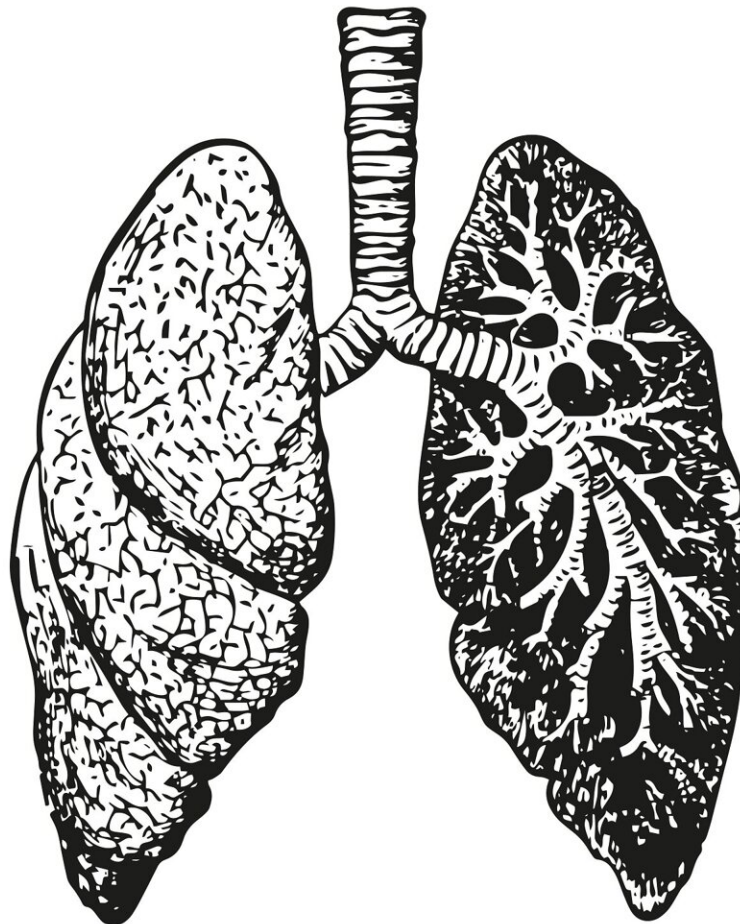


Editorial: Lurbinectedin for neuroendocrine tumors

October 6 2023



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A new editorial paper was published in *Oncoscience*, titled "[Lurbinectedin, a DNA minor groove inhibitor for neuroendocrine neoplasms beyond small cell lung cancer.](#)"

In their new editorial, researchers Deepak Bhamidipati and Vivek Subbiah from the Sarah Cannon Research Institute discuss lurbinectedin as a method to treat [neuroendocrine tumors](#) (NETs). NETs encompass a variety of neoplasms which display a wide spectrum of biologic behavior, ranging from the aggressive neuroendocrine carcinoma (NEC) to often indolent well-differentiated NETs.

For well-differentiated NETs, somatostatin analogs (SSAs) are widely accepted as an effective frontline therapy for progressive or symptomatic disease; however, subsequent therapy options such as capecitabine/ temozolomide, sunitinib, everolimus, and radionuclide therapy in selected cases are associated with variable response rates (typically less than 20%) and limited [progression-free survival](#). NECs can respond to [platinum-based chemotherapy](#), but responses are typically short-lived.

"There is evidence to suggest that neuroendocrine neoplasms such as [small-cell lung cancer](#) (SCLC) and pancreatic NETs are responsive to DNA alkylators such as temozolomide," say the researchers.

Recently, lurbinectedin a DNA minor groove inhibitor and marine derivative was shown to inhibit oncogenic transcription through binding to CG-rich sequences near the promoters of protein-coding genes to promote apoptosis and cell death. Encouraging results from a phase II basket study of lurbinectedin as a second-line treatment for patients with

SCLC, which demonstrated a 35% response rate, resulted in the FDA-approval of lurbinectedin in pre-treated patients with SCLC.

Moreover, in a subset analysis lurbinectedin was shown to be an effective treatment for platinum-sensitive relapsed SCLC, especially in patients with chemotherapy-free interval (CTFI) ≥ 180 days with an objective response rate of over 60%. It was shown to be active in BRCA1/2 germline mutated breast cancer. In addition, it is active in Ewing sarcoma, another small round-cell tumor of neuroendocrine origin.

"This bolstered the hypothesis that lurbinectedin could demonstrate activity in additional malignancies of neuroendocrine origin," the authors conclude.

More information: Deepak Bhamidipati et al, Lurbinectedin, a DNA minor groove inhibitor for neuroendocrine neoplasms beyond small cell lung cancer, *Oncoscience* (2023). [DOI: 10.18632/oncoscience.579](https://doi.org/10.18632/oncoscience.579)

Provided by Impact Journals LLC

Citation: Editorial: Lurbinectedin for neuroendocrine tumors (2023, October 6) retrieved 27 April 2024 from <https://medicalxpress.com/news/2023-10-editorial-lurbinectedin-neuroendocrine-tumors.html>

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