

# Targeted radionuclide treatment for neuroendocrine tumors improves quality of life

June 12 2017

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Malignant neuroendocrine tumors, commonly called NETs, are easy to miss and associated with discouraging survival rates and poor quality of life. A study presented at the 2017 Annual Meeting of the Society of Nuclear Medicine and Molecular Imaging (SNMMI) shows how a novel peptide receptor radionuclide therapy (PRRT) is significantly improving patient wellbeing.

In the NETTER-1 Phase III Trial, a randomized prospective study, researchers focused on advanced midgut NETs and reviewed patient-reported quality of life questionnaires following treatment with lutetium-177 ( $^{177}\text{Lu}$ )-octreotate PRRT, also known as  $^{177}\text{Lu}$ -DOTATATE—brand name Lutathera. Treatment with Lutathera provided some relief for neuroendocrine cancer patients in the study when compared to high-dose octreotide, used as a control.

"In nearly all quality of life domains, there were more cases of improvement and fewer cases of decline in quality of life with Lutathera compared to the control arm of the trial," said Jonathan Strosberg, MD, associate professor at the H. Lee Moffitt Cancer Center in Tampa, Florida.

Researchers compared quality-of-life feedback provided in patient questionnaires for two groups of patients: one received Lutathera treatment and the control group received a high-dose somatostatin analog

therapy (60 mg of Octreotide LAR). Results showed that, on average, 28% of patients reported a significant improvement in the Global Health metric of their quality-of-life questionnaire after Lutathera. On average, only 15 percent of control-group patients reported an improvement of quality of life. An average of 39 percent of patients who took Lutathera also reported an improvement in diarrhea symptoms compared to 23 percent of controls.

"This analysis is very important as assessment of patient quality of life is increasingly viewed as highly relevant to cancer research," noted Strosberg. "Ideally, new drugs should not only prolong survival, but also maintain patient quality of life. What is relatively unique in this study is that quality of life not only appears to be maintained, but is actually improved in certain aspects with the investigational drug,"

About 8,000 new cases of neuroendocrine [cancer](#) are diagnosed annually in the United States, according to the American Cancer Society.

While Lutathera has not yet been approved by the Food and Drug Administration, it is under priority review and expanded access is available through participating institutions currently researching the drug.

**More information:** [jnm.snmjournals.org/content/58...31-bfdb-4a09dddb8844](http://jnm.snmjournals.org/content/58...31-bfdb-4a09dddb8844)

Provided by Society of Nuclear Medicine

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