Patterns of use and clinical outcomes with long-acting somatostatin analogs for neuroendocrine tumors

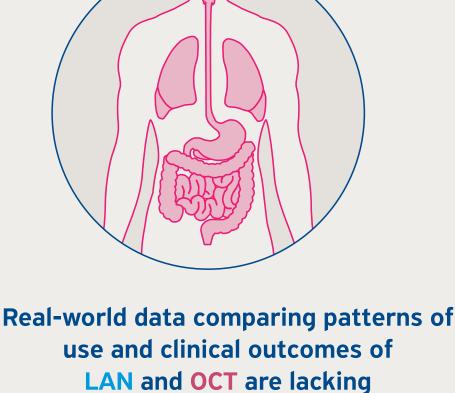
Harrow et al1

Neuroendocrine tumors (NETs) are a group of rare malignancies arising from cells in the

BACKGROUND

endocrine system^{2,3}

In Europe, the annual age-adjusted incidence rate is approximately 25 per 1,000,000 people, with incidence increasing due to advances in diagnostic techniques⁴



STUDV DESIGN

treatment for NETs⁵

Treatment for NETs

Long-acting somatostatin analogs

(LA SSAs) are approved as first-line

- Lanreotide autogel (LAN) is approved to treat gastroenteropancreatic (GEP)
 - NETs and the symptoms associated with NETs^{5,6} Octreotide long-acting release
 - **(OCT)** is approved for the treatment of functional GEP-NETs and advanced NETs of the midgut

Time period during which included patients initiated treatment with LAN or OCTa

Retrospective cohort study based on administrative claims data

Follow-up period: at least one year of follow-up for all patients -31st **December December January** 2009 2016 2017 SNDS^b Claims Database **Outcomes compared between** Covers ~99% of the patients receiving LAN



Receiving treatment for any NETs^c Receiving an LA SSA for the first time^d

French population⁷

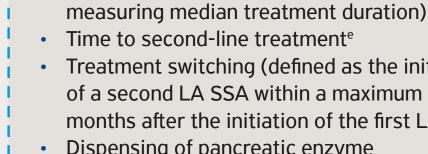
Received at least six subsequent

during the first year of treatment

dispensings of first-line LAN or OCT

^aLAN 60-120 mg, OCT 10-30 mg ^bSystème National des Données de Santé, a national French claims database ^cPatients with acromegaly or thyrotroph adenoma were excluded from this analysis dIndicated by no LA SSA treatment (identified using product identifier and Anatomic Therapeutic

Chemical codes) in the prior 12 months



Treatment switching (defined as the initiation of a second LA SSA within a maximum of 12 months after the initiation of the first LA SSA) Dispensing of pancreatic enzyme

31.8*

36

30

Initiation of

second LA SSA

second LA SSA

10.0%*

and patients receiving OCT

replacement therapy (PERT) Use of rescue medication Average monthly dose above the

Treatment persistence (evaluated by

- recommended dose
- ^eOnly evaluated in the subgroup of patients with gastroenteropancreatic (GEP) NETs

LAN (N=2,327)

OCT (N=2,090) -

was 29.1-34.0 and for OCT was 20.1-24.5

Months

Included patients

RESULTS

4,417 patients had a NET and were receiving an LA SSA for the first time between 2009 and 2016

2,090 (47.3%) 2,327 (52.7%) initiated treatment with **LAN** initiated treatment with OCT Of patients in the GEP-NETs Of patients in the GEP-NETs subgroup (N=2,756) subgroup (N=2,756)1,278 (46.4%) 1,478 (53.6%) initiated treatment with LAN initiated treatment with **OCT Treatment persistence^f** All NETs

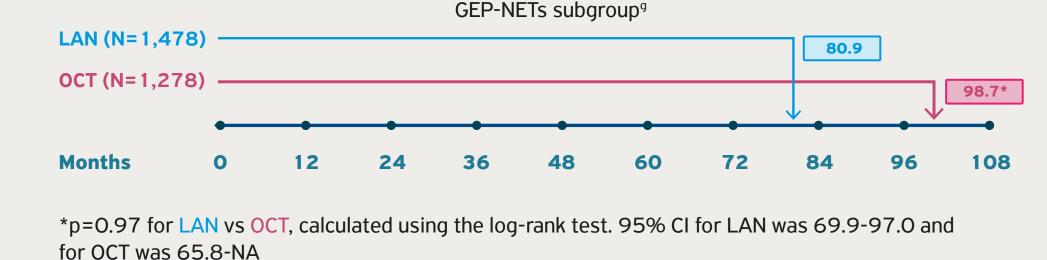
18

24

^fEvaluated by measuring median treatment duration Median time to second-line treatment

*p<0.0001 for LAN vs OCT, calculated using the log-rank test. 95% confidence interval (CI) for LAN

12



Treatment switching

≤3 months from first

LA SSA initiation

OCT: 11.6% of patients

LAN: 6.5% of patients*

⁹Analysis limited to the GEP-NETs subgroup due to availability of data

Initiation of

first LA SSA

first LA SSA

LAN

Year 3

Year 1

Year 2

(p=0.4477) or Year 3 (p=0.1629)

*p<0.0001 for LAN vs OCT

LAN: 1.4% of patients* Between 3-12 months Initiation of Initiation of

from first LA SSA initiation

OCT: 2.8% of patients

p<0.0015 for LAN vs OCT Percentage of patients with average monthly dose per trimester above the recommended dose Year 1 Year 2 Year 3 7.0% 7.5% 7.3% 4.7% 3.7%* 3.0%* OCT OCT **OCT** LAN LAN LAN *p<0.0001 for LAN vs OCT *p<0.0001 for LAN vs OCT *p<0.0149 for LAN vs OCT

Year 1 Year 1 Year 2 Year 2

---- 0.9%

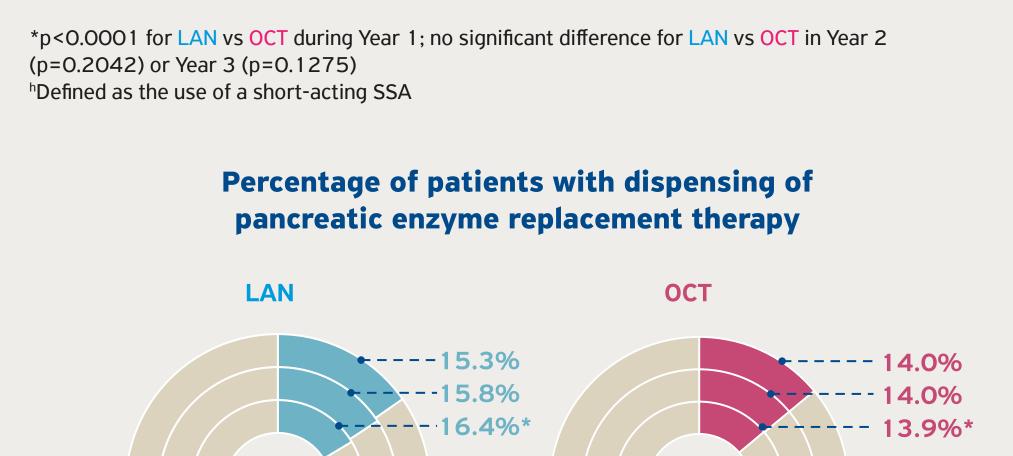
Percentage of patients using rescue medication^h

OCT

Year 3

Year 1

Year 2



Year 3 Year 3

*p=0.0189 for LAN vs OCT during Year 1; no significant difference for LAN vs OCT in Year 2

The results of this study suggest potential clinical and economic advantages

CONCLUSIONS

These findings should be further explored in specific, controlled studies

of LAN over OCT in the management of NETs in the French population

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1. Harrow B, Fagnani F, Nevoret C, et al. Patterns of Use and Clinical Outcomes with Long-Acting Somatostatin Analogues for Neuroendocrine Tumors: A Nationwide French Retrospective Cohort Study in the Real-Life Setting. Adv Ther 2022. https://doi.org/10.1007/s12325-022-02060-1; 2. NCCN. NCCN Clinical Practice Guidelines in Oncolo-