

# Hospital management and costs of unresectable/locally advanced or metastatic esophageal cancer in France (OCCASION study)

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## Introduction

In France, 5,448 new cases of esophageal cancer were reported in 2018, mainly among men (78%)<sup>1</sup>.

Healthcare resource use incurred by patients with metastatic esophageal cancer has been estimated in a few studies and mostly outside of France and no data is available on unresectable/locally advanced or metastatic esophageal cancer patients.

In this context, a study was set up from the French administrative databases.

## Objectives

To describe hospital resource utilization and costs for the management of patients with unresectable/locally advanced or metastatic esophageal cancer, eligible for a first-line treatment.

## Methods

An observational retrospective study was conducted using the French exhaustive national hospital discharge database (PMSI). Study population was identified through an algorithm based on expert inputs and combining criteria as ICD-10, surgery codes, treatment duration and stays in palliative care.

### Study period

Patients were included on a 2-year period in 2015 and 2016. A prospective follow-up over this study period was performed to assess hospital management and treatment.

### Inclusion criteria

Adult patients (≥18 years old) with at least one hospital stay with an ICD-10 code as Main Diagnosis, Related Diagnosis or Significant Associated Diagnosis corresponding to esophageal cancer (C15\* Malignant neoplasm of oesophagus excluding C152 Abdominal part of oesophagus).

### Exclusion criteria

Patients with surgery and without metastasis (C77\* Secondary and unspecified malignant neoplasm of lymph nodes, C78\* Secondary malignant neoplasm of respiratory and digestive organs, C79\* Secondary malignant neoplasm of other and unspecified sites).

**Additionally, patients considered too weak to receive systemic anti-cancer therapy were excluded:**

- Patients with a treatment discontinuation in the 2-month period after the first chemotherapy (ICD-code Z511 Chemotherapy session for neoplasm),
- Patients with at least one passage through palliative care.

## Outcomes

**Treatment lines were defined in accordance with experts and literature as:**

- First line for the 0-6 months period after patient identification,
- Second line for the 6-10 months period,
- Third line for the 10 months and over period.

A 42-day and over gap between 2 chemotherapies were also considered as a treatment line switch.

Chemotherapy and radiotherapy sessions were identified through ICD-10 codes and respectively.

**Hospital stays of patients were classified as follows:**

- Chemotherapies, identified through (ICD-10 code Z511 Chemotherapy session for neoplasm),
- Radiotherapies, identified through (ICD-10 codes Z510 Radiotherapy session),
- All other stays of patients (hospitalization for other reasons).

Costings were restricted to direct in-hospital costs and determined from (i) the perspective of the French social security system, according to the methodological rules of the French Technical Agency for Information on Hospitalization<sup>3,4</sup> and from (ii) the collective perspective, according to the French Cost study<sup>5</sup>. Costs were expressed in €2019.

## Conclusion

**This study showed that only 50% of patients with unresectable/locally advanced or metastatic esophageal cancer were eligible to receive a treatment and only 20% received at least one chemotherapy session.**

**From NHI perspective, mean cost was €633.68 per chemotherapy session, €270.41 per radiotherapy session and €2,549.48 per other type of stay.**

### References

1. Institut National du Cancer, Estimations nationales de l'incidence et de la mortalité par cancer en France métropolitaine entre 1990 et 2018 Étude à partir des registres des cancers du réseau Francim,
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3. Arrêté du 4 mars 2016 fixant pour l'année 2016 les éléments tarifaires mentionnés aux I et IV de l'article L. 162-22-10 du code de la sécurité sociale,
4. Arrêté du 13 mars 2017 fixant pour l'année 2017 les éléments tarifaires mentionnés aux I et IV de l'article L. 162-22-10 du code de la sécurité sociale,
5. <https://www.scansante.fr/applications/enc-mco>

### Acronyms

NHI National Health Insurance  
PMSI Programme de Médicalisation des Systèmes d'Information  
ICD-10 International Classification of Diseases 10th Revision

### Disclosures

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PMSI databases were provided by ATIH. Data controller: MSD. Processing implementation officer: HEVA. Study registered under MR006 with INDS the 18/02/2019 (Declaration of conformity n°2206271 v0 of 05/09/2018).

