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INTRODUCTION

Concerns and recognition of the impact that sex can have on cancer susceptibility, progression, survival, toxicity, and response to treatments are increasing1.

There is evidence of differences in urothelial cancer between men and women. The results obtained from both real-world data and clinical trials (CTs) are contradictory, showing worse overall survival data for women treated in CTs. However, other studies show no differences based on sex2,3

AIM

The primary objective of this study is to analyze, using real-world data, the influence of sex on staging, rate of toxicities, and survival outcomes in patients diagnosed with invasive urothelial carcinoma (UC). Specifically, it aims to explore whether there are significant differences in survival rates

understood as overall survival and progression-free survival following treatment.

Ultimately, the findings could lead to more personalized treatment **strategies** and improved clinical outcomes for patients of both sexes

METHOD

Study design and population

We performed a cohort study including adult patients (≥18 years) diagnosed with locally advanced or metastatic UC (mUC) between 1/01/2007 and 31/12/2019 of hospitals in the

Clinical data were collected from health records. The study was approved by the Institutional Review Board and Ethics Committee of all the participant centers and informed consent was obtained.

Data collection

Epidemiological, histological type, tumor characteristics, sites of metastasis, treatment information and outcome data were collected.

Patient demographics and study characteristics were analyzed using descriptive statistics. Median Overall Survival (OS) and Progression-Free Survival (PFS) were calculated using the Kaplan-Meier method. Statistical analysis was conducted with IBM

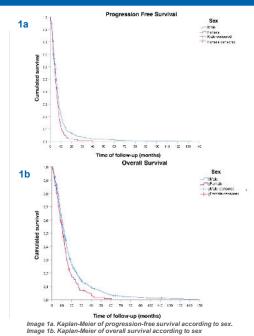
RESULTS

1230 patients were collected, of which 83.3% (n=1024) were men and 16.7% women (n=205)

In the table below, the baseline characteristics of the population are described, as well as the survival data.

Characteristics	Men (83.3%)	Women (16.7%)
Average age	67.4 years	65.9 years
Smoking rate	75.4%	42.4%
History of IaUC	69.2%	66.8%
mRFS	12 months	11 months
Fit for platinum	53%	63.4%
Received 1st L for mUC	75.7%	77.1%
1st L treatment response rate	40.3% (10.4% CR)	35.5% (5.1% CR)
1st L treatment PFS	5.5 months	4.9.months (p < 0.01)
Hematologic toxicities in 1st L	18.9%	22.1%
Received 2 nd L treatment	40%	40%
2 nd L treatment response rate	16.3%	20%
2 nd L treatment PFS	2.9 months	2.1 months
Received 3 rd L treatment	17%	17%
Overall Survival	12.4 months	10.95 months (p < 0.01)

Table 1. Data summary | laUC: Locally advanced urothelial cancer. mRFS: median relapse-free survival. mUC: Metastatic urothelial carcinoma. PFS: Progression-free survival. CR: Complete response



CONCLUSIONS

The main difference observed in patients diagnosed with mUC in Northern Spain, consistent with available evidence, is a **higher** incidence in men.

Smoking rates were distinct between men and women, which could be a probable reason for a different tumorigenesis pathway.

In terms of efficacy, women experienced worse PFS in the first line and worse OS, likely due to delayed diagnosis from symptom onset to specialist referral. This should encourage greater awareness for prompt diagnosis of women presenting with urinary symptoms

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