## Thromboembolic disease in COVID-19 cancer patients: impact on overall survival and prognostic factors Ana Pertejo-Fernández, Sergio Martínez-Recio, Diego Jiménez-Bou, Icíar Ruiz-Gutiérrez, Jesús Peña-López,

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developed TE and those who did not. Though, diagnosis of TE during COVID-19 hospitalization conferred poorer

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# **Background**

An increased risk of thromboembolic events (TE) is associated with COVID-19 infection. However, information available about thrombosis risk in COVID-19 cancer patients is still scarce.

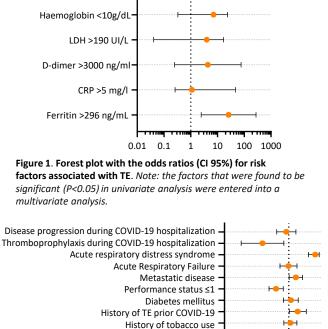
We retrospectively evaluated 219 cancer patients who were

# Methods

diagnosed of COVID-19 infection in our institution during the first pandemic wave. The study population was monitored for 12 months, and TE were recorded. A descriptive analysis of baseline and follow-up clinical characteristics was performed. Potential prognostic factors for developing TE and overall survival (OS) were analysed using logistic and cox proportional regression models.

### Results

- Overall TE rate was 13%.
- TE were reported during COVID-19 hospitalization (52%)
- and during follow-up (48%).
- Median time from COVID-19 diagnosis to TE was 12 weeks
- Reported TE included pulmonary embolism (68%), deep vein thrombosis (16%), and other arterial thrombosis (16%).
- Risk factors for TE: • Only ferritin > 296 ng/mL remained significant after multivariate analysis.
- Neither being on any specific oncological treatment nor prior anticoagulant therapy influenced TE risk.



0.01 0.1 Figure 2. Forest plot based on the results of multivariate analysis of the factors associated with mortality (CI 95%). Note: the factors that were found to be significant (P<0.05) in univariate analysis were

entered into a multivariate cox regression models.

Thromboembolic event

Age ≥80 years

Overall survival analysis

- Pooled mortality rate among patients with TE was 52%,
- and 41% among patients without TE. • No differences in OS were found between patients who
- survival (12 weeks vs 52 weeks those patients who were diagnosed during follow up, p=0.02). Being hospitalized for COVID-19 infection was a prognostic factor for worse survival (27 vs 52 weeks, p=0.03). • Only acute respiratory distress syndrome, metastatic

disease and history of TE before COVID-19 diagnosis

multivariate analysis; good performance status and

remained significant predictors for poorer survival after

thromboprophylaxis during COVID-19 hospitalization resulted as predictive factors for better survival outcomes.

Conclusions TE in COVID-19 cancer patients can lead to fatal outcomes. Thrombotic risk may persist after acute infection; therefore, routine active surveillance should be

# prediction tool for TE in COVID-19 cancer patients.

Disclosure and contact information

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considered. Larger studies are needed for developing a risk