Reviewer’s report

Title: Prognostic factors for survival after bronchoscopic intervention in patients with airway obstruction due to primary pulmonary malignancy

Version: 0 Date: 16 Oct 2019

Reviewer: Carmen Barbas

Reviewer's report:

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General Comments:
This is a clinical, retrospective study that evaluated the clinical outcomes and prognostic factors of bronchoscopic interventions in 224 patients with MCAO due to primary pulmonary malignancy from 2004 to 2017 at a University Hospital. A multivariable Cox proportional hazard regression analysis was used to identify independent prognostic factors associated with survival after the first bronchoscopic intervention. The authors observed that among 224 patients, 191 (85.3%) were males, and the median age was 63 years. The most common histological type of malignancy was squamous cell carcinoma (71.0%). Technical success was achieved in 93.7% of patients. Acute complications and procedure-related death occurred in 15.6% and 1.3% of patients, respectively. The median survival time was 7.0 months, and survival rates at one year and two years were 39.7% and 28.3%, respectively. Poor survival was associated with underlying chronic pulmonary disease, poor performance status, extended lesion, extrinsic or mixed lesion, and MCAO due to disease progression and not receiving adjuvant treatment after bronchoscopic intervention.

Specific Comments:

1. Did the authors observe any difference among patients with tracheal, main bronchial and lobar bronchial lesions regarding the prognosis?
2. Did the authors have information about relapsing stenosis in their patients?

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Unable to assess

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

**Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?**

If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

Not relevant to this manuscript

**Quality of written English**

Please indicate the quality of language in the manuscript:

Acceptable

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