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Patients with a Pulmonary Functional Test and Chemotherapy

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Introduction

The adjusted odds ratios (OR) of acute exacerbation risk in the BSC and chemotherapy groups were calculated using a binary logistic regression model with treatment group and propensity score as covariates. Following that, we adjusted the baseline characteristics of patients receiving pulmonary and not receiving chemotherapy by employing propensity score matching. Next, the matched pairs' baseline characteristics were looked at and used to compare OS and acute exacerbation risk between groups. The OS and IIP acute exacerbation risks' subgroup analysis results are then presented as hazard ratio (HR) and OR, respectively, using a forest plot. Regardless of lung cancer histology, we discovered that chemotherapy as the initial treatment improved OS in comparison to BSC. Conventional platinum-based regimens are feasible, valid, and associated with a relatively good response rate and progression-free survival, as demonstrated by small-scale, single-arm prospective studies on specific carboplatin-containing regimens. However, due to the relatively small sample sizes, these studies probably did not have enough power to demonstrate an effect on the OS [1].

Description

Lung cancer treatment with prospectively reported carboplatin-containing regimens may be a reasonable first-line treatment, according to these reports and our findings. However, it is necessary to conduct additional research into adverse events other than an acute exacerbation and to directly compare carboplatincontaining regimens to other regimens. Chemotherapy has a significantly higher risk of acute exacerbation in pulmonary patients with advanced lung cancer and IIP, according to our findings. Chemotherapy may be the cause of an acute exacerbation of IIP, according to previous findings from small, single-center retrospective studies. Clinical application restrictions may be imposed worldwide as a result of reports that chemotherapeutic agents cause acute exacerbations. However, acute exacerbation risk factors need to be reevaluated given that chemotherapy improved OS in the current study. A few studies have examined acute exacerbation risk factors in patients with combined IIP and lung cancer but these studies have primarily focused on patients with IPF alone. A comparison of the concurrent risk of acute exacerbation based on treatments, such as chemotherapy or BSC, was not carried out in the study cohorts, which typically only included chemotherapy patients [2].

Therefore, from this vantage point, significant previously reported risk factors, such as male sex and advanced age younger age pathological type of NSCLC as well as impaired pulmonary function, the results of multivariate logistic regression analysis for acute exacerbation in patients with advanced lung cancer and IIP remain inconclusive. It is still up for debate to determine which patients would benefit from BSC treatment or have favorable outcomes from chemotherapy. The evaluation of the acute exacerbation pulmonary risk in these two groups was significantly impacted by two major findings from our subgroup analysis. First, there were non-significant differences between chemotherapy and

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BSC for factors like desaturation on exertion and impaired lung function, despite the fact that these factors have been reported to be the acute exacerbation risk factors of IPF alone. This indicates that these factors do not increase the risk mediated by chemotherapy. In a similar vein, regardless of the treatment that is chosen, patients may still be at risk for an acute exacerbation [3].

Second, the factors could have a significant impact on the risk of an acute exacerbation, such as the absence of desaturation upon exertion or relatively preserved lung function. In comparison to BSC, chemotherapy may have increased the risk of chemotherapy-mediated acute exacerbation due to these factors. As a result, when starting chemotherapy, it may be challenging for doctors to identify patients who are significantly at risk for acute exacerbation. In order to effectively select candidates who are best suited for chemotherapy rather than BSC as the initial treatment, we must therefore develop a safety evaluation method. This issue may be clarified by prospective or registry studies. In treated patients with interstitial pneumonia associated with NSCLC and small cell lung cancer (SCLC), OS has been reported to be pulmonary respectively. desaturation on exertion, and the presence or absence of a clinical history of acute exacerbation of IIP; KL-6 and SP-D in serum; tests of pulmonary function lung cancer histopathology; and IIP clinical diagnosis and HRCT patterns The simplest and most efficient method for imputation of categorical variables based on missing data was to group all missing observations of demographic and clinical characteristics into a new category of "unknown" or "not performed" prior to the estimation of propensity scores. of the covariate distribution between the two groups. If the SMD was less than 0.1, Patients with a pulmonary functional test of various statuses and stage III disease were included in these studies (studies were conducted without restriction due to the disease's metastatic stage). Due to the diverse study cohorts, it is difficult to directly compare OS, including factors that may impact the prognosis of lung cancer and IIP patients [4].

As a result, qualified patients with metastatic or post-operative recurrent disease comprised the current study's participant cohort, which was adjusted for potential confounding factors affecting survival. As a result, the estimated OS based on actual clinical settings may be reasonable in this study. There is still a lack of clarity regarding the decision to use BSC as a first treatment. The BSC group's estimated adjusted and unadjusted MST months, respectively, in this study. The BSC group of patients had impaired lung function and a tendency to desaturate pulmonary upon exertion. Poor PS, severely impaired lung function, administering long-term oxygen therapy, and patient refusal were the physicianreported reasons for choosing BSC. Even if a patient the newly categorized characteristic set was then used to perform propensity score matching on each patient. One-to-one nearest neighbor matching with a calliper width of was used to match patients. Standardised mean differences (SMDs) were used to determine the balance does not have IIP, chemotherapy is typically not chosen for them if they exhibit poor PS. However, refusing a patient can be challenging. There may be genuine conditions that prevent some patients from receiving chemotherapy. However, patients with good PS should not select BSC just because IIP is present. It is important to acknowledge that this study does have some limitations. First, this was a massive retrospective investigation; However, observational studies frequently employ propensity score methods. Second, we gathered the data in accordance with the International [5].

Conclusion

Association for the Study of Lung Cancer international consensus guidelines for IIP and lung cancer, respectively. Our data cannot be revised based on these guidelines, which may be out of date. As a consequence of this, updated guidelines should be used for additional research. Thirdly, the study population was enrolled prior to the global availability of anti-fibrotic medications. Pulmonary test has been available. However, during this time period, patients with IPF did not use pirfenidone enough. In people who have lung cancer that is comorbid,

there is a particularly lack of evidence. There were balanced covariates between the two groups, and if it was greater than 1, there were imbalanced covariates.

Acknowledgement

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Conflict of Interest

None.

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