

## Abstract

Photodynamic Therapy (PDT) For Advanced Lung Cancer With  
Airway Stenosis:

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Objectives: to assess the effectiveness and safety of Photodynamic  
Therapy for Advanced Lung Cancer with Airway Stenosis

### METHODS:

advanced lung cancer with Airway Stenosis can be treated  
palliatively with photodynamic therapy (PDT) combined with argon  
plasma coagulation(APC) or Airway stenting to remove central and  
peripheral (lobar or segmental bronchi) bronchial stenosis and  
obstruction. We present data for 4 patients with advanced  
non-small cell lung carcinomas in whom curative operations were  
contraindicated, who underwent PDT combined with APC or Airway  
stenting for local control of the intraluminal lesions.

Results:

In this single-institution study, The mean age was 73 years (range, 57-85 years), and the stages of cancer were IIIc-IV. The median stenosis rates before treatment, one week post-treatment, and one month post-treatment were 70% (range, 60%-90%), 15% (range, 10%-35%), and 15% (range 15%-60%), respectively. an objective response was evidenced by the substantial increase in the openings of the bronchial lumen. all patients experienced improved symptoms and quality of life at one week after treatment; The overall response rate of short-term was 100%. One patient had mild photoallergic reaction, which characterized by photosensitive dermatitis such as pruritus, Dyspnea was aggravated in 1 patient due to exfoliation of necrotic tissue and airway blockage, None of the 4 patients had PDT-related morbidity or mortality.

Conclusion: Photodynamic therapy is an effective technique for advanced lung cancer causing tracheobronchial obstruction. With debulking endobronchial tumors over an acceptably short time-course; and PDT with other therapy was useful and safe for the treatment of bronchial obstruction.

Disclosure of funding source(s): none

Conflicts of interest:none

Photodynamic Therapy:

