

# European Respiratory Society Annual Congress 2012

**Abstract Number:** 5150

**Publication Number:** P2926

**Abstract Group:** 11.1. Lung Cancer

**Keyword 1:** Lung cancer / Oncology **Keyword 2:** Thoracic oncology **Keyword 3:** No keyword

**Title:** Treatment modalities in lung cancer patients with brain metastasis

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**Body:** Forty lung cancer patients with diagnosed brain metastasis were evaluated at the Institute of Lung diseases at Sremska Kamenica in the period of three years. Duration of survival in such patients was evaluated and compared according to the treatment employed as well as to the histology, number of metastasis and presence/absence of synchronous other visceral metastasis. Treatment modalities included: irradiation, surgery, and chemotherapy for chest tumor, and for the brain metastasis, and symptomatic treatment. There were 34 male (85%) and 6 female (15%). 72.5% have had solitary metastases, while 27.5 % presented with multiple metastasis. Mean survival was 3.2 months from the diagnosis of brain metastasis (range 0-14 months). Irradiation of thorax underwent 57.5%, chest operation 15% and chemotherapy 22.5%. Irradiation of brain metastasis underwent 42.5% of patients, chemotherapy 7.5% patients, while 12.5% were operated for brain metastasis. 37.5% were treated only symptomatically. Sixty percent were without other visceral metastasis. Statistical significance in terms of longer survival was found in patients who had solitary compared to multiple metastasis  $p < 0.026$ , in patients with irradiated brain metastasis  $p < 0.015$  and in patients operated for brain metastasis  $p < 0.003$ . Although prognosis of patients with lung cancer and brain metastasis is gloomy, our investigation suggests longer survival with employed brain surgery or brain irradiation. Key words: lung cancer, brain, metastases.