

## **Oncothermia treatment of lung carcinoma**

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**Introduction:** Advanced lung carcinomas were studied combined with various chemotherapies. Our objective was to obtain reliable data of lung-cancer treatment with oncothermia.

**Method:** The study was started in August 2008, and was sequentially evaluated in December 2009 (n=66) and September 2010 (n=118), retrospectively. In first period 54.5% in the second one 64.4% was in advanced stages, and additionally 21.2% and 33 % had recurrence or metastases, respectively. The other stages were only 24.2% and 9% in the investigation sequences respectively. We studied only the cases with eligible number of sessions, excluding those who had not such number (less than 12 sessions) of the treatments. Consequently the numbers of included patients are n=38 and n=79, respectively. The treatments were provided with device EHY-2000, 60 min in all sessions, using the electrode of 30 em diameter.

**Results:** We had measured the local clinical response only, the survival analysis could be done later. The local data shows improvement (CR+PR) 47.4% and 46.8%, NC 31.6% & 35.4%; PD 15.8% & 15.2 %; n.d. 5.2% & 2.5% in first and second sequences of the study, respectively. Regarding the advanced and relapsed cases, the overall local response-rate (CR+PR+NC) is 79% and 82.2%.

**Conclusion:** Oncothermia treatment has feasibility to treat advanced and relapsed cases of lung-cancer. For evidences a perspective, randomized study, and the overall survival end-point is desired. The further work is in progress.