



## P1-04: Radioprotective Effect of Glyzyrrhizic acid on Radiation- Induced lung Damage



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**Introduction:** Radiotherapy (RT) is one of the most effective treatments for cancer. Eighty percent of cancer patients need radiotherapy at some time, either for curative or palliative purposes.

**MaterialsMethods:** Over the past 50 years, research has focused on screening chemical and biological compounds to find effective radioprotectors. Several synthetic compounds developed, but they have limited use to their inherent toxicity and short active periods.

**Results:** Aggressive radiation therapy approaches aiming at improved local control and survival for patients with malignancies involving the thorax come at the expense of pronounced acute lung injury. RT- induced lung injury has classically been divided into acute and late. Acute and late lung injury induced by RT termed radiation pneumonitis and fibrosis respectively.

**Conclusion:** We review some novel approaches for radiation protection and the beneficial effect of natural products such as glyzyrrhizic acid.

**KeyWords:** glyzyrrhizic acid, radiation, lung damage

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