

CAN STANDARDIZED PLANT EXTRACTS CONTAINING PAMP LIKE STRUCTURES INDUCE COMPLETE REMISSION IN PATIENTS WITH METASTATIC TUMOURS?

Hajtó Tibor¹, Kirsch Angelika² and Perjési Pál¹

¹Institute of Pharmaceutical Chemistry, Medical University Pecs, Hungary

² Private practice, Binningen, Switzerland.

ABSTRACT

Background: The prognostic significance of malignant tumour-induced imbalance in the innate immune system is well known. The innate system uses a limited number of Pattern Recognition Receptors (PRR) to recognize conserved Pathogenic Associated Molecular Pattern (PAMP) structures expressed by microbes but not by the host. PRR engagement often leads to activation of natural immune cells which are important in the tumour defence. Growing evidence supports the hypothesis that similar to microbes various plant extracts can also contain PAMP-like structures which can activate cellular immune functions. Since the chemical production of PAMP structures can be hardly accomplished, standardized plant preparations may be promising for the future tumour therapy. **Objectives:** The aim of this lecture is to present and discuss several favourable clinical responses of tumour patients treated with immunologically effective Enzymatic Lectin Linked Assay (ELLA)-standardized plant extracts (containing PAMP-like structures) as a co-treatment of conventional oncologic therapies. **Results:** Patients were given two (commercially available) plant preparations standardized on the base of their lectin-sugar interactions. The immunologically optimal doses were given in an interval to which the regulation was the most appropriately adapted. Case reports gave an account of complete or nearly complete remissions in patients with hepatic metastases treated with these standardized plant immunomodulators combined with or without conventional oncologic therapy. These clinical responses are therefore surprising since as it is well known that hepatic tumours rarely disappear completely after conventional oncotherapy and the duration of responses is short. **Conclusion:** Standardized plant extracts with immunomodulatory effects based on PAMP – PRR interactions seem to be potent candidates for a supportive therapy of metastatic tumours.

Oral presentation

Clinical significance