



Putative Sonosensitizer from Seeds of *Peganum Harmala*

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Editorial

Recently, we used food grade 95% ethanol extracted seeds of *Peganum harmala* in the complementary treatment of cancer with sonodynamic therapy. The seeds were first ground and allowed to cold-extract with the solvent for 72 hours. The solution at the end of that time, a bright crimson, was filtered to remove particulate matter. The solution was evaporated at 90° C to yield a concentrated extract which was subsequently combined with glycerine and 1% dimethylsulfoxide to create the topical sonosensitizer which was gently applied with a new paintbrush to the area of the surface of the breast in a 66 year old woman with palpable stage IV breast cancer. Hypnosis and hypnoidal suggestions and / or a classical music program were used to deepen receptivity and facilitate physical penetration of the solution. After 20 minutes, a natural gel prepared from agar agar was applied to the surface of the breast and therapeutic ultrasound given to the breast at 0.1 mW, 100% for 15 minutes. Pain relief was dramatic following the treatment with markedly increased ipsilateral upper extremity mobility [1-4]. It was hypothesized that *P. harmala* extract may function as a sonosensitizer just as it has been proven a photosensitizer, both relevant to the complementary therapy of breast cancer. The affinity of the *P. harmala* extract to the central nervous system where it acts as an entheogen, and to the immune system, where it potentiates immunity and reduces global inflammation, are both related to modulation of serotonin receptors on the cell surfaces of neurons and lymphocytes respectively throughout a putative “neurolymphic syncytium.

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