

ORAL PRESENTATION

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Immune activation and MRgFUS

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From Current and Future Applications of Focused Ultrasound 2014. 4th International Symposium Washington, D.C, USA. 12-16 October 2014

Background/introduction

For many years, immune activation following tumor ablation has been evaluated in the treatment of systemic cancer. Ultrasound ablation is thought to promote dendritic cell maturation and T-cell immunity, and is particularly advantageous because it is non-invasive, can be controlled with high spatial precision and uses no harmful ionizing radiation.

Methods

Recently, immune adjuvants have been shown to be effective in treating metastatic cancer, with cancer immunotherapy named as the “breakthrough of the year” in 2013. At this time, combining ablation with immune adjuvants is a promising technique for expanding the utility of ultrasound for the treatment of systemic disease. We will briefly review the status of this combined therapy and opportunities for future studies.

Published: 30 June 2015

doi:10.1186/2050-5736-3-S1-O41

Cite this article as: Ferrara et al.: Immune activation and MRgFUS. *Journal of Therapeutic Ultrasound* 2015 **3**(Suppl 1):O41.

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