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Dissertation Proposal Christing Ross PhD(c)

Topic: Energy Medicine

#### INTERODUCTION

Inflammation plays a pivotal role in the tissue regeneration process. In addition, therapeutic approaches for tissue regeneration, such as implantation of engineered tissue, often cause additional inflammation. Inflammation is the activation of the immune system in response to infection, irritation or injury. It is characterized by an influx of white blood cells, redness, beat, swelling, and the dysfunction of the organs involved. Despite the important role that inflammation plays, it is insufficiently understood. Commonly, pharmaceutical approaches are used to suppress it, though there is evidence that suppressing inflammation can hinder wound healing [1, 2].

Interest in magnetic field (MF) therapy has increased rapidly in recent years (Figure 1) as research shows that this non-invasive, cost effective modality might be safer than drugs and surgical procedures for reduction of inflammation. Immunological studies show that MF, even low-intensity MF, can intenset with cells and tissues [3–5]. There are various types of magnetic fields, such as static and time-varying, as well as continuous and pulsed, with a wide range of frequencies. Most doses of time-varying and pulsed magnetic field therapies run between 1–100 Hertz (Hz), with ranges of intensity between 1 micro-Tesla (µT) – 30 mTesla (mT) (Table 1). Durations of treatments vary between 10 minutes to 48 hours with a number of treatments varying between 10 sessions spaced over several weeks up to six months, depending on the condition [6, 7].

Preliminary data has demonstrated that magnetic field has the ability to affect inflammatory response by affecting cytokine signaling and thereby reducing pro-inflammatory cytokine expression and increasing anti-inflammatory cytokine expression (Figure 2 and 3). Literature shows that IL-1a, IL-1b, IL-6 and TNF-a (pro-inflammatory cytokines) and IL-10 (anti-inflammatory cytokine) tend to show the highest numbers of cytokine expression when induced with LPS [8, 9].

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