

# Medical applications of electromagnetic fields

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**Abstract--***This will help to find some possible health effects like malaria and cancer. Due to this two health issues like low-intensity non-ionizing electromagnetic fields from the (emf). Of malaria therapy, the acceleration of a super paramagnetic material, hemotoxic, within the malaria organism can be caused by an incredibly low strength level magnetic field. This triggers the organism's death to radical and mechanical injury. Due to this we have found that main health treatment for cancer. This will be low cost from people to the treatment for the cancer. The low intensity is main fault in the human body that which losses the body weight. The cancer cells have more affected than the normal cell in the body.*

**Keywords--** EMF, Medical field, Health, low cost.

## I INTRODUCTION

We have the some effects having the Health treatment for cancer. As we know that if the leg has broken we can have the artificial leg. Medical applications of electromagnetic field are used in treatment of the cancer and malaria infections [1-3]. We need have the feature research to done on medical applications of the electromagnetic field. Also from preliminary evidence, effectiveness processes are still uncertain and further work is required to improve these two technologies in detail for human health [4-6].

## II METHODOLOGY

Treatment of malaria:

It is the major health is affected the people is malaria. The means reason is drugs are the main health that which affects the health of the people. Additional work needed to determine the optimum exposure conditions of a magnet field in order to interrupt malaria parasite production [7-9]. As the magnetism of a holozoic substance is commensurate with its mass, there undoubtedly is a frequency that may allow a magnetic field more powerful in treating the malaria.

Treatment of cancer:-

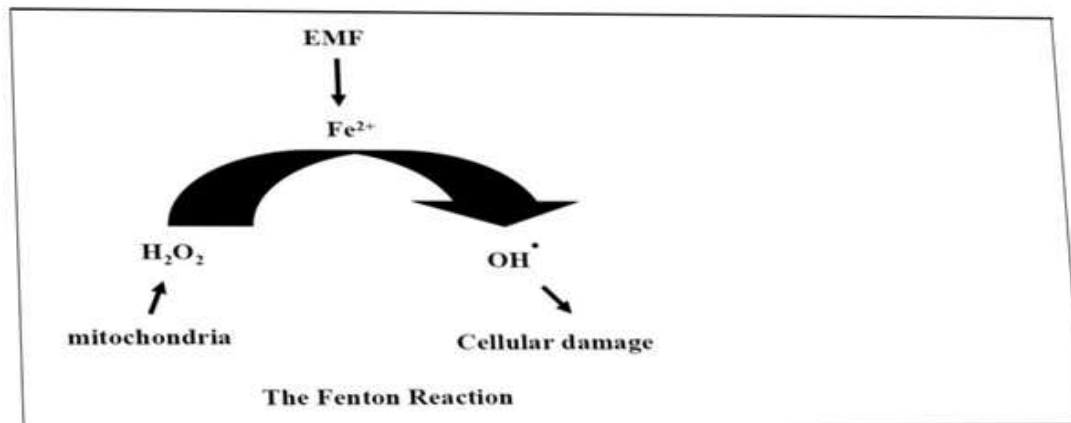
The treatment of cancer is the main growth of the iron play main role in the treatment of the cancer. Due the iron the function or grow body of cell. We believe that cancer cells are more accountable to magnetic fields than regular cells. Cellular responses to magnetic fields require an iron based mechanism [10]. Throughout the presence and absence of inclusion in the source, to test this theory, the Molt-4 cells, a human cell line with leukemia, were found in a 60Hz magnetic field. When mentioned above, it holds the iron in cells and intracellularly raises the iron content. Molt-4 cells are required to suck up significant quantities of iron in their supply since the transferring receptor is

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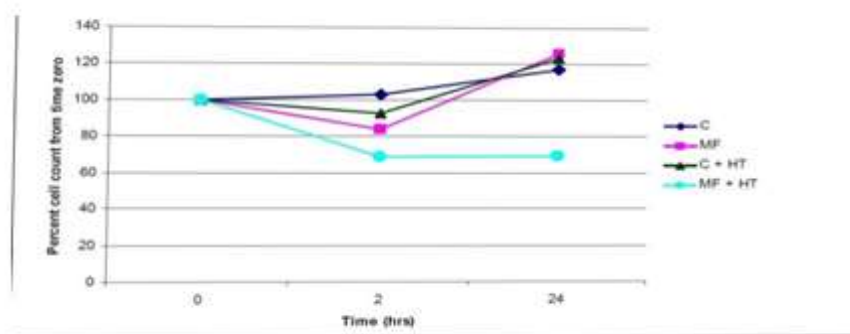
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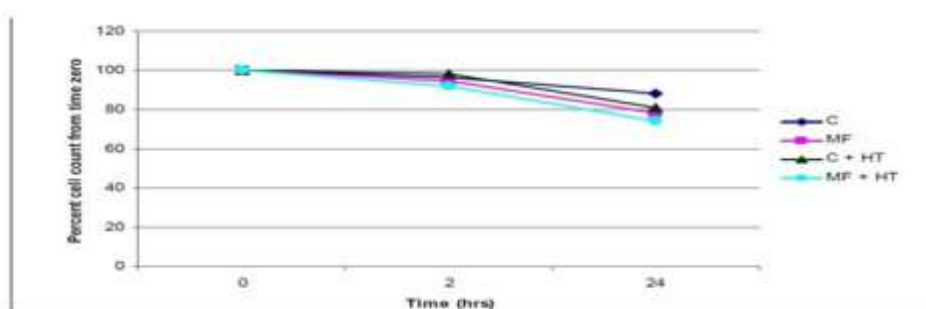
extremely cellular surface [11-13]. With the elevated accumulation of intracellular iron these cells are more responsive to the magnetic field. Figure.1 shows the fenton reaction system and Effects of magnetic field exposure and incubation with on olt-4 human leukemia cells and normal human leukocytes are shown in figure. 2 and 3. The iron is the main conversion of the hydrogen to be more power full and that May damaging hydroxyl can damage and may lead to the death of the cell.



**Figure 1:** The fenton reaction system



**Figure 2:** Effects of magnetic field exposure and incubation with on olt-4 human leukemia cells



**Figure 3:** Effects of magnetic field exposure and incubation with on normal human leukocytes

### III CONCLUSION

EMF will be the usefully to treatment for cancer. So even the cell is the high amount iron in the body the amount cell that may dead more that will lose they weight of the body. At last emf will in treatment of the cancer and malaria.

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