

# **The Influence of the Non-Ionizing Electromagnetic Fields of a high Voltage overhead lines on the human being (Biological Laboratory Study)<sup>1</sup>**

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## **Abstract**

Many laboratory studies had been carried out on the effect of electromagnetic fields with non-ionized radiations of the HV alternative lines on human beings late in the past century in many European countries and in the United States of America. However, such studies are still running in order to contribute beside the statistical studies in illustrating such effect. Those laboratory studies were made on animals like rats, mice and monkeys having similar tissues to man. They were subjected to electromagnetic fields with variable frequency electric power system and for different intervals or on volunteers, though very few of course, since international laws forbid it. In our surrounding, a specific and unique case is available, i.e. many people are living directly under HV lines. Consequently, they are susceptible to the fields of such lines for long periods of time up to over thirty years and to various voltages subject to the location of their lodges under the transmission lines. Thus, it has made available an appropriate surrounding to conduct a bio-laboratory hematic study on different specimens of inhabitants in terms of sex and age category. These specimens are compared with those of non-inhabitants but within the same environmental conditions. This study is conducted in collaboration with specialists from the Faculty of Medicine and Al-Mouassat Hospital - Damascus University. Clear and useful findings and indices have been obtained.

<sup>1</sup> For the paper in Arabic see pages (93- 111).

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