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## Applying laws of biology to men and women: Why is there a young female advantage? Why is it lost?

Fundamental Laws are not accepted in biological sciences. At present there are no accepted laws of biology. The laws below represent empirical facts. 1. Biology must be consistent with the fundamental laws of physics and chemistry. 2. Life, as opposed to non-living, exhibits negative entropy; developing order out of chaos. The energy to support negative entropy is yet to be defined. 3. The cell is the fundamental unit of biology. 4. The cell must be in homeostasis with the environment. This property allows for Evolution. The environment changes life. 5. There must be a distinction between self and the environment. Immunity and inflammation are the defenses against invaders from the environment and responsible for repair of damaged and senile cells. 6. Electromagnetic information transfer is necessary for development and regeneration. Life, regeneration of tissue will not exist in a non-electromagnetic environment, denervation. Lacking the additional information of the Y chromosome, Law 2 states that women have less entropy than men explaining greater female longevity. The most significant differences between men and women are reflected in law 5. Women, during pregnancy, are able to carry a fetus with foreign antigens. In order to accomplish this feat the immune system must adapt under the influence of sex hormones. The answer to the questions: Why is there a young female advantage? Why is it lost? Is the cyclic response of the immune system to sex hormones? Females lose this advantage after menopause when their immune system becomes similar to a male.

## Biography

Philip D Houck, MD MSc is a Cardiologist and Associate Professor of Medicine Texas A&M University. Currently, he is working at Baylor Scott & White Healthcare. He started his academic career in Engineering Science at Penn State University and received an MSc in Biomedical Engineering and MD from Northwestern University. He has been retired from the Air Force serving at the Aerospace Medical Research Laboratory, School of Aerospace Medicine, and Wilford Hall Medical Center. His research interests includes weather and myocardial infarction, increasing circulating stem cells with EECp, electrical remodeling of the heart, peripartum immune disease, lymphatics role in decompensated heart failure, and fundamental laws of biology.

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