"Observational Medicine" should be replaced by "Real Science"

Are female hormones good or bad? "Can Statins" cause diabetes? What causes a heart attack and how do risk factors cause a clot in the coronary artery? Medical research is expensive and requires thousands of patients to determine if a drug is effective. These trials raise more question then they answer and sometimes the results are reversed in subsequent trials. Medical research fails because it is an observational science and is not based on fundamental guiding principles.

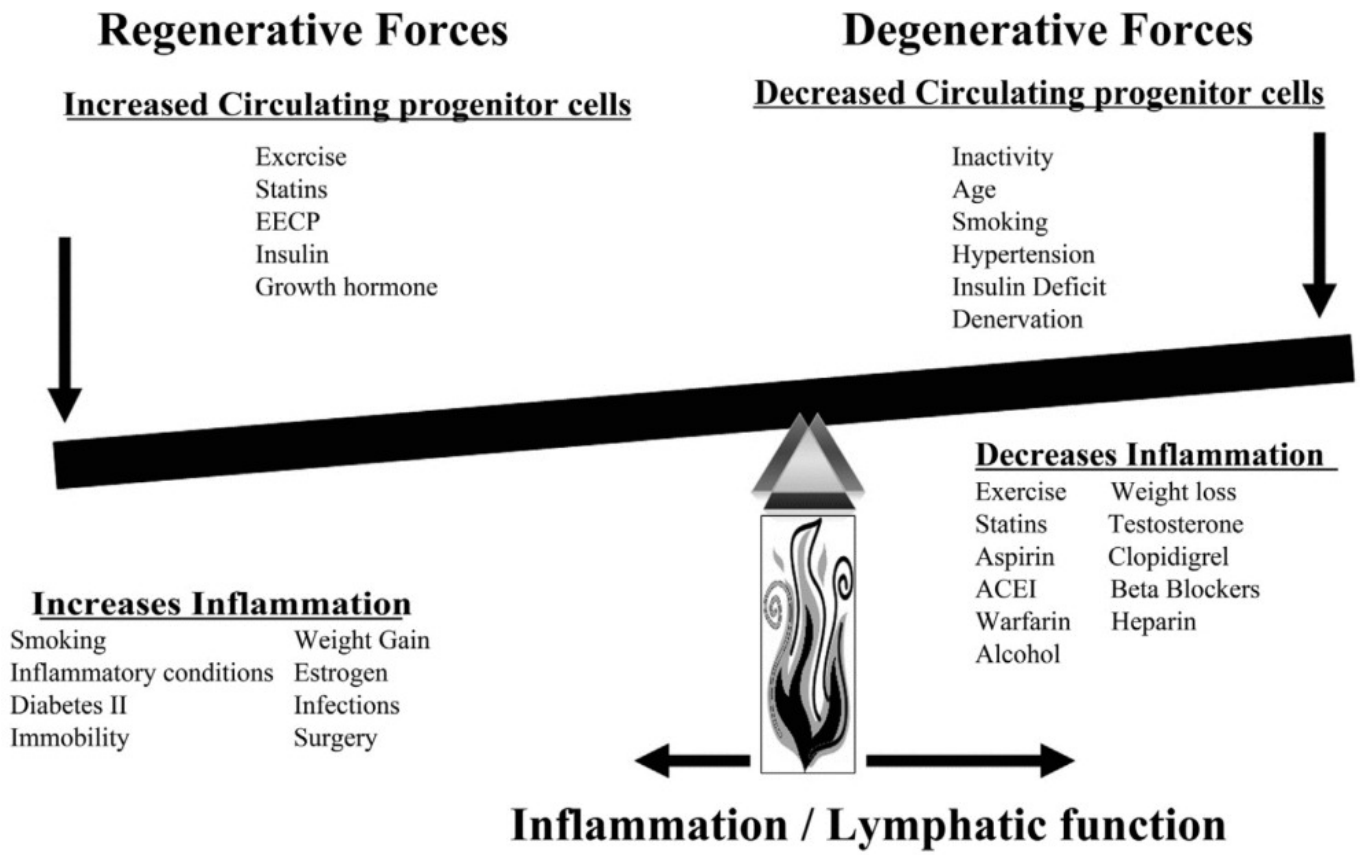

Fig. 1.

The above article outlines 4 hypotheses and suggests medicine could be better practiced using 6 laws of biology and a model of biology consisting of regeneration balanced by degeneration with inflammation serving as the fulcrum. I have been working on this concept for several years with a number of papers that are sited in this article. This article is a summary of these articles and is supposed to outline the differences between science and biology hoping to transition medicine to a science. I use these concepts to understand trials and to treat patients who do not fall into

guideline medicine.

This model is a product of my education which was a different path than most doctors. I started as an Engineering Science student at Penn State. We took math with the math majors, physics with the physic majors. A physics professor said our brains were small and we should not commit formulas to memory but be able to derive the formula. This was outstanding advice since new problems could be solved by deriving equations relevant to the new situation. Medical school was quite different because it required big brains to acquire lots of medical knowledge with little room to solve problems. The two disciplines were very different and I struggled in medical school. It has taken nearly 40 years to learn medicine. The six fundamental laws of biology and model of regeneration balanced by degeneration with inflammation as a fulcrum are the fundamental principles that are needed to transition medicine to a science. These principles can be applied to individual patients.

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 its 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)

Table 1. Fundamental laws of biology.

The article covers Hippocrates, Einstein, Schrödinger, Framingham risk factors, Women's Health Initiative and uses the model to explain obesity paradox, arthritis, failure to regenerate heart tissue and other mysteries. Some of these mysteries include female advantage and longevity. For biology to become a science it needs to be quantified. This is an enormous project requiring understanding of all the possible outcomes at every stage of development and the associated energy of each possibility. Mechanical statistical entropy is the method with calculation of bonding energies of every protein side chain, receptors and all of the possible outcomes of the process of life. This concept was first proposed by the famous physicist Erwin Schrödinger – negative

entropy.
Reference 10 in the article applies these principles to Diabetes II and can be accessed from the above article.

Publication

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