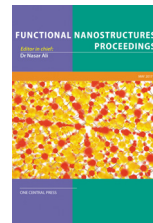


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# Evolution of “diabetic foot” to flat epithelial spine-sharp cancer in bio-mechanical engineering and molecular biology

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## ABSTRACT

In the paper there is presented an evolution of “diabetic foot” to flat epithelial spine-sharp cancer in bio-mechanical engineering and molecular biology. The process is based on individual medical case from January 2017 until January 2018. There is short description of diabetic patient characteristic and his course of a disease. Described storages exerted a great influence of tissues.

Main effect of disease there is continuous open wound. It means that there was open cardiovascular system. During the therapy there were used a partly-bio-degradative dressings based on proteins flow – cell adhesion molecule (CAM). Additionally, on this process there appeared infectious bacteriums exists on tissues, which gave chronic inflammation state and as a final - flat epithelial spine-sharp cancer. All these processes changed cells molecular biology based on mass changing between subsystems.

Bio-degradation occurs in a process, where is create electro-magnetic field by erythrocytes having mass. Subsystems: dressing, infectious bacteriums, tissues and cardiovascular system exchange mass between themselves. Using mechanical modelling this disease’s process should be taken into account the characteristics of electro-magnetic field. There is environmental impact on material medium. It means that examined medium changed its mass as a result of act forces and force moments.

In the paper there is proposal of a foundations to recognize and modelling of dressings bio-degradation process connected with infectious bacteriums multiplication.

## REFERENCES

- [1] M. Pośpiech „Dynamics of bodies with changing mass in nonsymmetrical elasticity”, PhD, Poznań University of Technology (2012).