

# Linear models in the face of Diabetes Mellitus: the influence of physical activity

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## Abstract

A linear model for Diabetes Mellitus is described. The influence factors are nutrition, time and physical activity. Two models are compared, one with moderate physical activity and another one with strong physical activity. The question is whether strong physical activity leads to a significant reduction of the blood-sugar. It is shown that there are substantial reductions of blood-sugar due to physical activity, but due to a high variance significance can only be achieved in very rare cases.