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Linkage between Prostate Cancer and vitamin D receptors

Prostate cancer is the second leading cause of cancer in men in the United States and as such has been studied fairly extensively. This presentation aims to establish if there is an association between vitamin D and prostate cancer development. It outlines the factors known and considered to be related to prostate cancer development. It then takes a look into the metabolism of vitamin D and thus lending thought for the first part of the analysis which is the impact of vitamin D signaling genes on prostate cancer development. It looks at how Insulin-Like Growth Factor affects prostate cells where it does confirm a linkage. The second part of the analysis is a meta-analysis of vitamin D circulation and its linkage to prostate cancer development, where the findings suggest that there is a modest increased relative risk of prostate cancer development when circulating vitamin D is increased.

Keywords: Meta-analysis, Relative risk, Prostate cancer, Genomic data

Biography:

Experienced Data Scientist and Bayesian Statistician with over 15 years of experience working on projects in Finance, Risk and Medical Statistics. Strong quantitative background with expertise in Statistical and Data Modeling, as well as Machine Learning.