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A MATHEMATICAL MODEL FOR ESTIMATING THE RELATIONSHIP BETWEEN PROLACTIN AND GROWTH HORMONES IN THE BLOOD OF THE MILKING GOAT TO MAXIMUM LIKELIHOOD

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Abstract: In this paper, the rise in Growth Hormone (GH) concentration differed from that of prolactin in various ways. The time elapsed from the commencement of milking to rise in GH level was longer (2 to 7 minutes). When Growth Hormone and prolactin concentrations rise in the same series of blood samples, the levels rise independently, with the peak concentration of GH happening over a greater range (4 to 36 mins). Exponential distributions are widely utilised in the field of life-testing in Mathematical Model. The approach of the Maximum Likelihood function will be used to estimate the parameters of an exponential distribution with two components.

Keywords and Phrases: Growth Hormone, Maximum Likelihood Estimation, Prolactin.

2020 Mathematics Subject Classification: 60GXX, 62HXX, 62PXX.

1. Introduction

One of the most essential components of inferential statistics is parameter estimation and making conclusions based on the estimated parameters [9]. Manickam in his study used to describe about real data set in their studies. One can generally mean that data set has just one law in modelling and estimation problems