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## *Anoestrus in cows in south valley*

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*Thesis*

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### **Anoestrus in cows in south valley**

The aim of this study was to make a survey on anoestrus in cows in south valley "Sohag, Qena and Luxor", detect the incidence of main causes of anoestrus in south valley region, explore the relationship between anoestrus in south valley and B.C.S, Calf presence, Parity, Age and location, evaluates the relationship between anoestrus and thyroid hormones T3 and T4, and compare between Hormonal assay of steroid hormones using serum analysis

In this study 78 cows - from total examined 320 cyclic ad anoestrus cows- were used from South Valley "Sohag, Qena and Luxor". The period of the study was between March 2009 to September 2010, and from the 78 cows only 72 cows were anoestrus and 6 as control group.

Animals were subjected to thorough clinical diagnosis to detect those suffering from different causes of anoestrus.

#### **In this study it is found that:**

1. The incidence of OI and PCL were much higher than COD as causes for anoestrus in south valley.
2. Anoestrus in south valley was strongly related to lower BCS < 3 on BCS of scale 1:5.
3. Anoestrus in south valley was affected by Parity, presence of calf and presence of external parasites.
4. Hb g/dl and PCV% values for anoestrus cows in south valley were lower than control group but within the reference range.
5. Thyroid hormones is related to anoestrus in south valley that anoestrus cows show lower T3 and T4 than that of control group