

## TRANSAMINASE ACTIVITY IN SERA OF EGYPTIAN TUBERCULUS BUFFALOES

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### SUMMARY

Serum samples from 20 tuberculin positive and 10 tuberculin negative buffaloes were subjected to determination of GO-T and GP-T activity. It was found that there was a significant increase in the level of GO-T in the sera of tuberculous buffaloes than healthy ones. On other hand there was no significant changes in GP-T level in the sera of tuberculous than healthy buffaloes. This observation may be of value as a diagnostic procedure beside the tuberculin test.

### INTRODUCTION

The changes in the serum concentration of GO-T and GP-T as determined by their biochemical activity occur essentially as a result of some processes involving the body tissues (WROBLEWSKI and LA DUE, ; 1955 MOLANDER *et al.*, 1955 ; WROBLEWSKI and LA DUE. 1956 ; KING and WOOTON, 1959 ; FORD and LAWERENCE, 1965 KAMALYAN *et al.*, 1969 and HOFMANN and EL-AMROUSI, 1974).

Consequently the presence of higher concentration of such enzymes may be used diagnostically in order to assess the level of destruction of the body organs. Therefore the aim of this work is to estimate the effect of tuberculosis upon the activity of serum GO-T and GP-T in Egyptian buffaloes.

### MATERIALS AND METHODS

Blood samples were collected from 10 tuberculin negative buffaloes and 20 tuberculous ones at Giza. These animals were apparently healthy and proved to be free from internal and external parasite as well as blood parasites. The collected samples were used for obtaining clear serum which subjected to determination of the enzymatic activity of both GO-T and GP-T by using the method of REITMAN and FRANKEL, (1957).

All the tuberculin positive cases showed tuberculous lesions on post mortum examination except one case which showed traumatic reticuloperitonitis only.