Effect of parity on Thyroid Hormones, milk yield and composition, body and udder measurements in Holstein cows.

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Fayoum J. Agric. Res,& Dev., Vol. 34 No. 1(B). (2020).

ABCTRACT

The present study was carried out using 20 Holstein cows (1st and 2nd parity). Milk samples were fortnightly from evening and morning milking of each cow, and analyzed for butter fat, protein, lactose, sold not-fat, total solid, ash, calcium and phosphorus. The effects of parity on the milk yield and composition of milk have been investigated. The data of milk yield showed that there were significant effects of parity. Also there was significant effect of parity on milk composition. There was significant effect of parity on blood serum, total protein, globulin, albumin/globulin ratio, cholesterol, calcium and triglycerides while insignificant effect was found for albumin, glucose, phosphorus and calcium / phosphorus. The parity had highly significant ($p < 0.01$) effect on all of the studied body measurements. All the examined body measurements increased from the first to the second parity. The parity had highly significant ($p < 0.01$) effect on all of the studied udder measurements. It can be observed that all examined udder measurements increased from the first to the second parity. Plasma T4 concentrations of first parity cows were higher ($P < 0.05$) than those of cows in later parities.

Key words: Holstein, parity, milk yield, milk composition, body measurements, udder measurements and Thyroid Hormones.