COMPARATIVE STUDY ABOUT CHEMICAL COMPOSITIONE FOR NORMAL AND CYSTIC OVARIAN FOLLICULLAR FLUID OF LOCAL IRAQI CATTLE'S IN KIRKUK DURING YEARS SEASON.

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ABSTRACT

This study was conducted on local Iraqi cattle in Kirkuk . Follicular fluid samples of mature 600 cows (2- 3 years age) were collected from slaughter house during the four season . Collected samples were divided into normal group and subdivided in to 5 categories according to their volume (2 -5 , 5 – 10, 10 -15, 15 – 20 and 20 -25 mm)while the abnormal cysts were divided in to cystic and luteal cyst to determine the effect of season on ovarian cystic percentages ,follicular volume and concentration of some minerals (Ca ,Cu ,P ,Fe)in follicular fluid .follicular fluid were drawn using 5ml disposable syringe .Follicular fluids collected at the same day from the same cystic volumes mixed and stored at 20c° until chemical analysis . Results showed that highest follicular and luteal cystic ratio recorded during summer season followed by winter and autumn .Normal follicular ratio were highest during spring(88%)followed by autumn , winter and summer . Cautions level in follicular fluid showed lowest level for Ca at summer(18.930mg\dl) , non-significant differences in Cu ,P and Fe level of the four season with highest level recorded during autumn ,while level affected significantly by season with lowest level recorded during summer season .Follicular volume affected cautions level during all season cautions level decreased with increasing follicular volume . Follicular and luteal cystic showed non-significant decrease in Fe and P levels while its effect were significant for volume category it 20 -25 ml follicular cystic for Ca and luteal cystic for Cu .

Keywords :cow ,ovarian follicles ,follicular cyst ,luteal cyst