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| **The effect of some chemo physical properties of extenders and bull semen on some post freezing characteristics** | Thesis Title  |
| January 1987 | Year |
| The study was carried out at the Artificial Insemination Centre-Iraq. Semen collection from 14 Friesian bulls by artificial vagina, 149 ejaculates were used to study: **a**-**Freezing poin**t of bulls ejaculates **b-The** suitability of five extender TYG,TYFG(Tris0.25,0.20 morality), Laciphose (Laci) ,Skim –Milk(SMLG) and Lactose(LYG),for freezing bull semen in straws (0.25 ml), **c-suitability** of three additing glycerol to three extenders .Traits under study to evaluate the extenders and type of addition glycerol (Individual motility, Survival dead and abnormal head and tail sperm).**Results** arrived at summarized: **A-** **Freezing point** of bulls ejaculates ranged between (-0.55 to -0.67c°) and significantly affect with age and semen characteristics of bull in addition to freezabilityt of ejaculates’ relationship with its freezing point. **B-average** post thaw motile spermatozoa in extender TYG,TYFG and Laci were significantly different (P<0.01) from SMLG and LYG ,however no significantly different between TYG,TYFG and Laci and also in survival and survival index of spermatozoa ,LYG extender was significantly inferior (P<0.01) to SMYLG . **C-lowest** dead sperm in TYG,TYFG and Laci extender comparative with SMLG and LYG but no significantly differences between TYG,TYFG and Laci were observed. **D- percentage** of abnormal head sperm in TYG,TYFG extender were 9.53±0.485 and 10.04±0.324%respectively ,however increased significantly (P<0.01)to 12.24±0.324,14.90±0.736 and 16.50±0.609 in Laciphose (Laci) ,Skim –Milk(SMLG) and Lactose(LYG) resp. Laci extender was significantly deference (P<0.01)from SMLG and LYG extender ,but the difference between SMLG and LYG was no significant. **E-** **Lowest** percentage of abnormal tail sperm in TYG extender, while increased significantly in TYFG, SMYLG and LYG , but no significant between Laci with TYG,TYFG,SMYLG and between TYFG with SMYLG extender. Results showing that no significant different between the three type of addition glycerol in most of semen characteristics, also interaction between extender and type of addition glycerol was significant (P<0.01) in some characteristics.  |  Abstract  |