Supplemental File S1. Reproductive traits of the number of services per conception (SC), 3-wk submission (SR21), 6-wk submission (SR42), 3-wk in-calf (PR21), 6-wk in-calf (PR42), conception to the first service (PRFS), not in-calf (NIC), 3-wk calving (CR21) and 6-wk calving (CR42) by breed for different milking regimens are presented below respectively. In general, in each milking regimen, F×J cows had the lowest SC, NIC and highest mean percent of SR21, SR42, PR21, PR42, PRFS, CR21 and CR42 than the F and J cows. Friesian, J and their crossbred cows milked under OAD in the entire season had the lowest SC, NIC and highest mean percent of SR21, PR21, PR42, PRFS, CR21, CR42 compared to the F, J and F×J cows milked under TAD and OAD milking in part of the lactation.

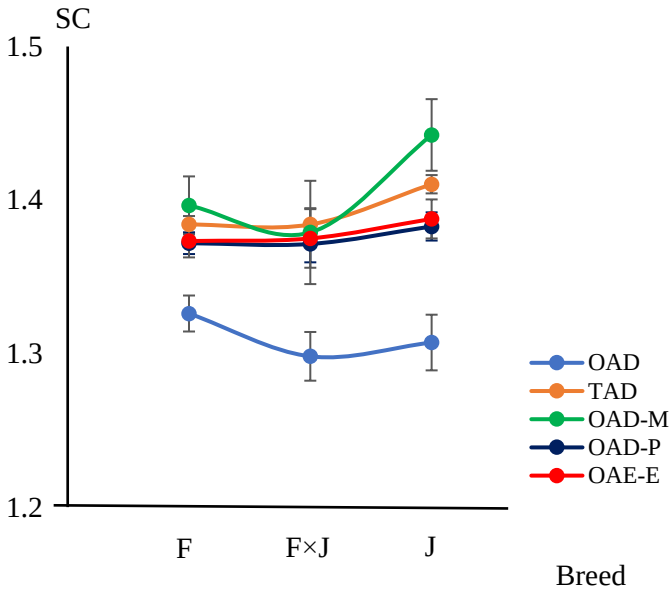

Figure S1.1. Interaction effect of milking regimen and breed of Holstein Friesian (F), Jersey (J), crossbred of Holstein Friesian and Jersey (F×J) on number of services for conception (SC) in cows milked OAD once daily, TAD twice daily, OAD-M once daily in cow's mating period, OAD-P once daily after the peak lactation period and OAD-E once daily at end of the lactation.

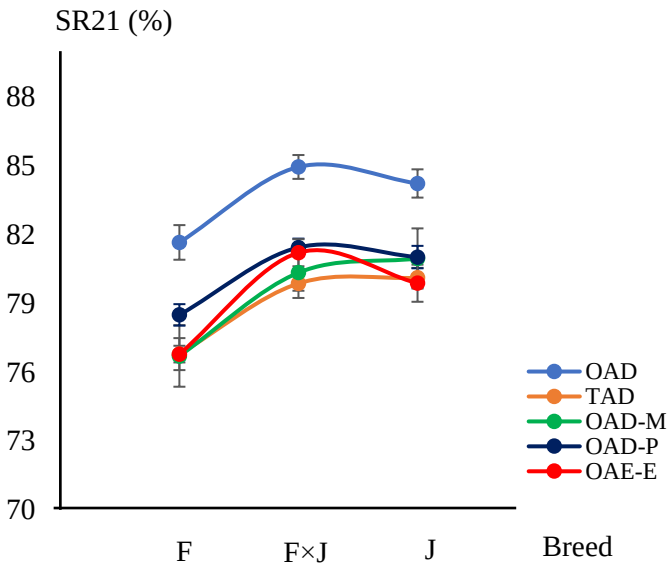

Figure S1.2. Interaction effect of milking regimen and breed of Holstein Friesian (F), Jersey (J), crossbred of Holstein Friesian and Jersey (F×J) on 3-wk submission (SR21) in cows milked OAD once daily, TAD twice daily, OAD-M once daily in cow's mating period, OAD-P once daily after the peak lactation period and OAD-E once daily at end of the lactation.

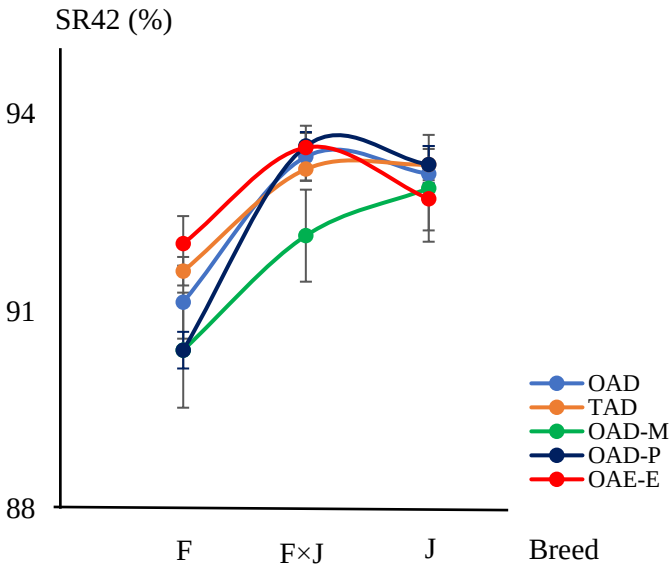

Figure S1.3. Interaction effect of milking regimen and breed of Holstein Friesian (F), Jersey (J), crossbred of Holstein Friesian and Jersey (F×J) on 6-wk submission (SR42) in cows milked OAD once daily, TAD twice daily, OAD-M once daily in cow's mating period, OAD-P once daily after the peak lactation period and OAD-E once daily at end of the lactation.

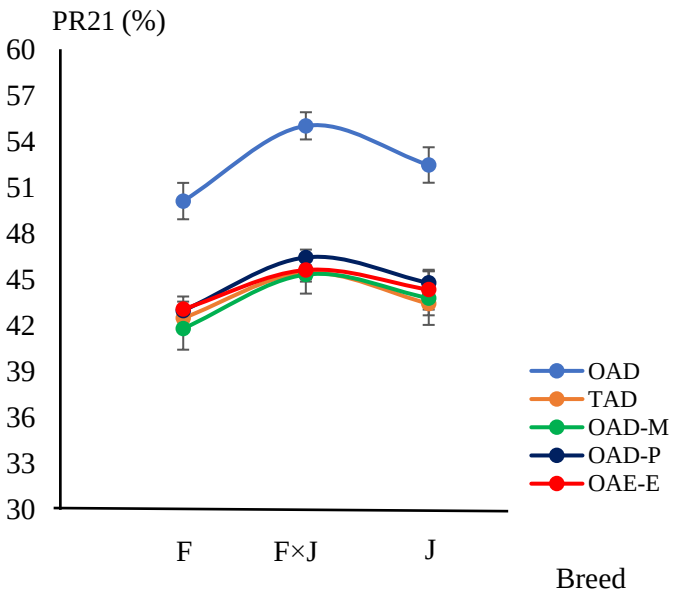

Figure S1.4. Interaction effect of milking regimen and breed of Holstein Friesian (F), Jersey (J), crossbred of Holstein Friesian and Jersey (F×J) on 3-wk in calf (PR21) in cows milked OAD once daily, TAD twice daily, OAD-M once daily in cow's mating period, OAD-P once daily after the peak lactation period and OAD-E once daily at end of the lactation.

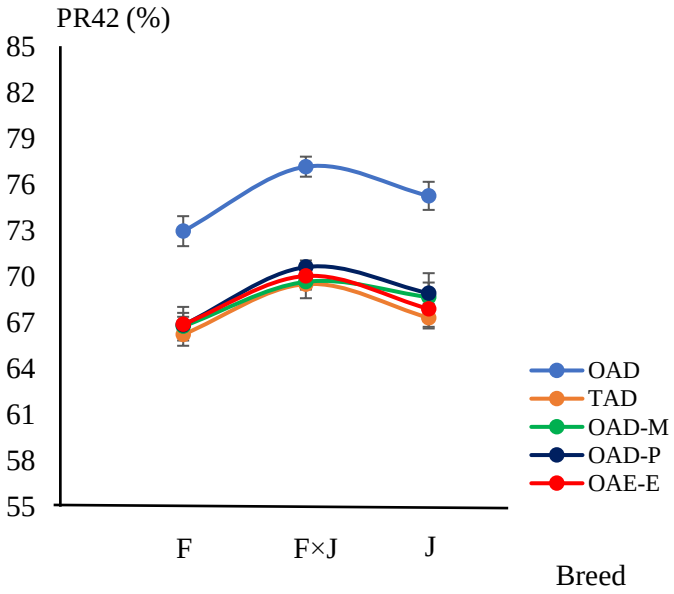

Figure S1.5. Interaction effect of milking regimen and breed of Holstein Friesian (F), Jersey (J), crossbred of Holstein Friesian and Jersey (F×J) on 6-wk in calf (PR42) in cows milked OAD once daily, TAD twice daily, OAD-M once daily in cow's mating period, OAD-P once daily after the peak lactation period and OAD-E once daily at end of the lactation.

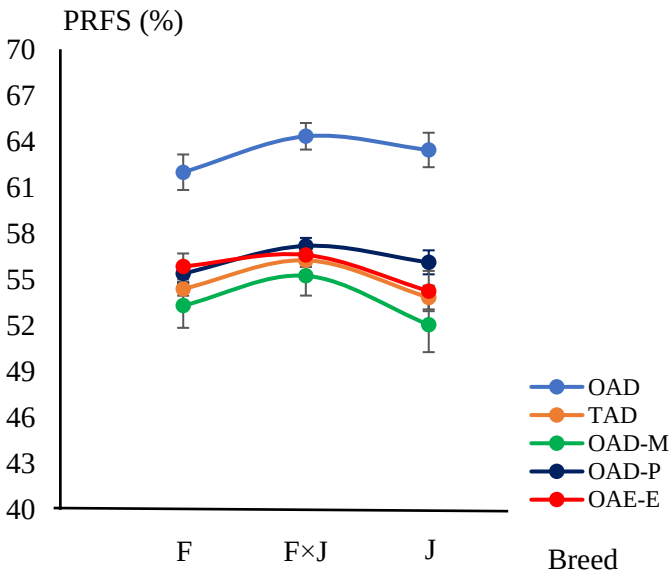

Figure S1.6. Interaction effect of milking regimen and breed of Holstein Friesian (F), Jersey (J), crossbred of Holstein Friesian and Jersey (F×J) on conception to the first service (PRFS) in cows milked OAD once daily, TAD twice daily, OAD-M once daily in cow's mating period, OAD-P once daily after the peak lactation period and OAD-E once daily at end of the lactation.

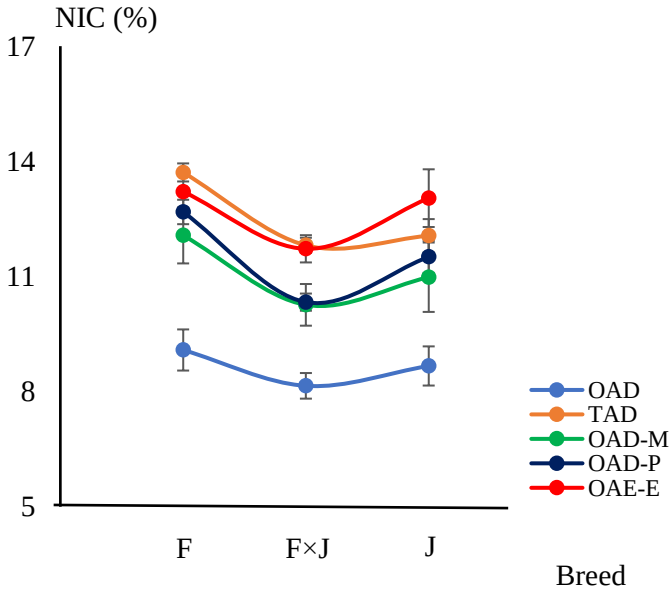

Figure S1.7. Interaction effect of milking regimen and breed of Holstein Friesian (F), Jersey (J), crossbred of Holstein Friesian and Jersey (F×J) on not in calf (NIC) in cows milked OAD once daily, TAD twice daily, OAD-M once daily in cow's mating period, OAD-P once daily after the peak lactation period and OAD-E once daily at end of the lactation.

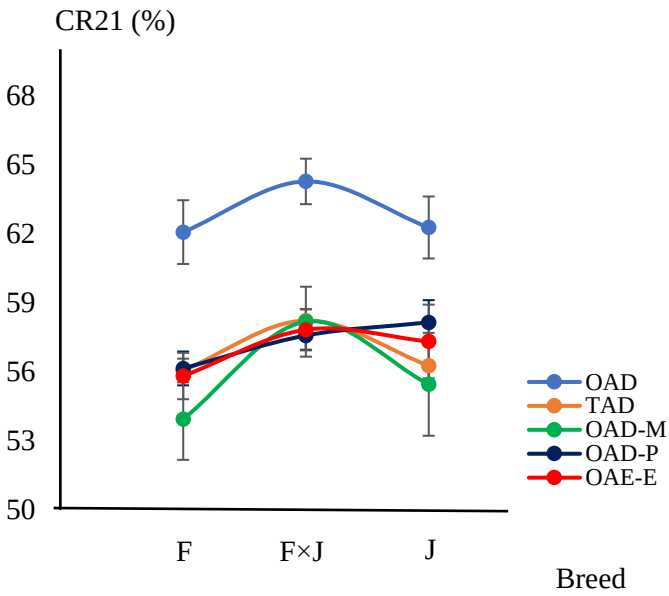

Figure S1.8. Interaction effect of milking regimen and breed of Holstein Friesian (F), Jersey (J), crossbred of Holstein Friesian and Jersey (F×J) on 3-wk calving (CR21) in cows milked OAD once daily, TAD twice daily, OAD-M once daily in cow's mating period, OAD-P once daily after the peak lactation period and OAD-E once daily at end of the lactation.

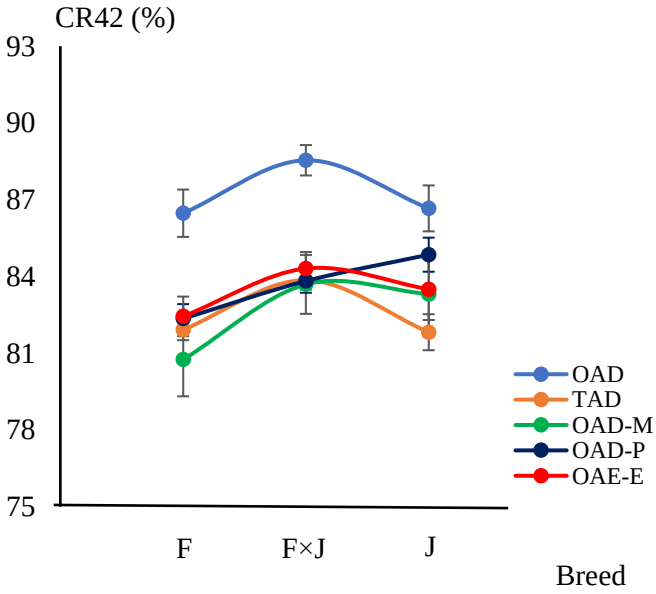

Figure S1.9. Interaction effect of milking regimen and breed of Holstein Friesian (F), Jersey (J), crossbred of Holstein Friesian and Jersey (F×J) on 6-wk calving (CR42) in cows milked OAD once daily, TAD twice daily, OAD-M once daily in cow's mating period, OAD-P once daily after the peak lactation period and OAD-E once daily at end of the lactation.