Supplemental File S2. 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 parity for different milking regimens are represented in below respectively. Each parity, cows milked under OAD in the entire season had the lowest SC and NIC than cows milked under TAD and OAD milking in part of the lactation. Also, in every lactation cows milked under OAD had a higher mean percent of SR21, PR21, PR42 and PRFS than other milking practices. In general, in each milking system, SC and NIC were decreased from parity 1 to 3 or 4 and then after it was increased, but SR21, SR42, PR21, PR42 and PRFS had an upward trend from parity 1 to 3, steady in 3rd and 4th parities and had downward trend from 4 to parity 5≥.

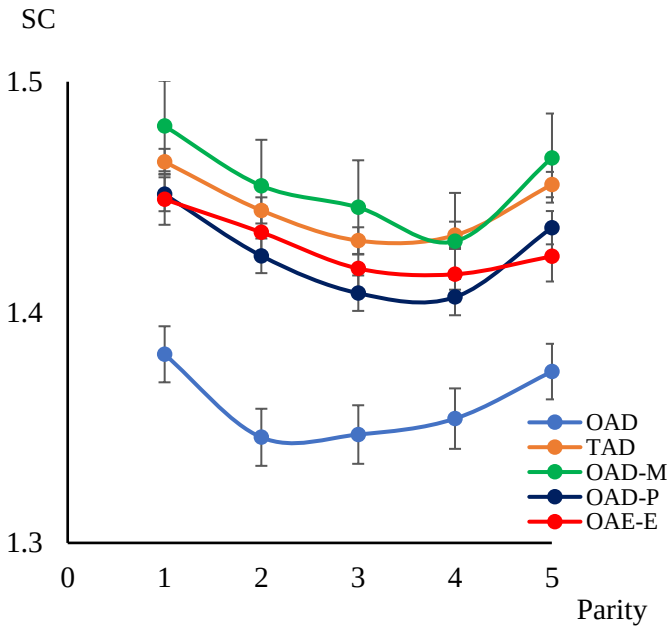

Figure S2.1. Interaction effect of milking regimen and parity on number of services for conception (SC) of cows milked OAD once daily, TAD twice daily, OAD-M once daily in cow's mating period, OAD-P once daily after the peak lactation period and OAD-E once daily at end of the lactation.

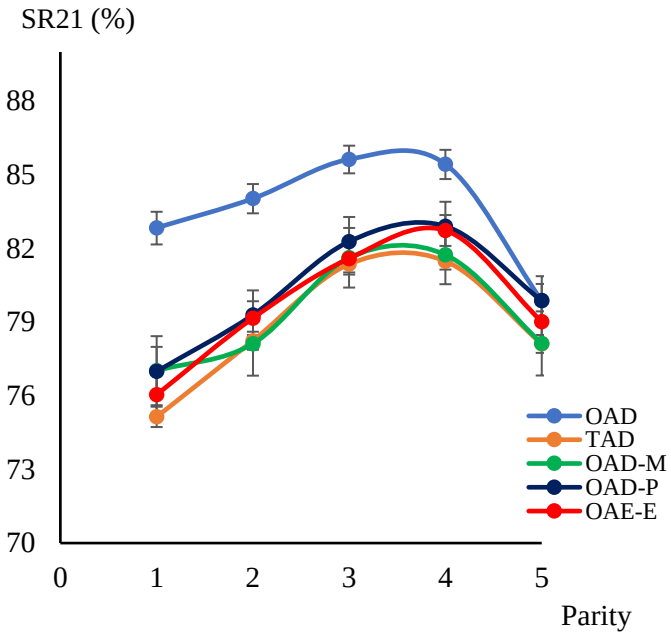

Figure S2.2. Interaction effect of milking regimen and parity on 3-wk submission (SR21) of cows milked in OAD once daily, TAD twice daily, OAD-M once daily in cow's mating period, OAD-P once daily after the peak lactation period and OAD-E once daily at end of the lactation.

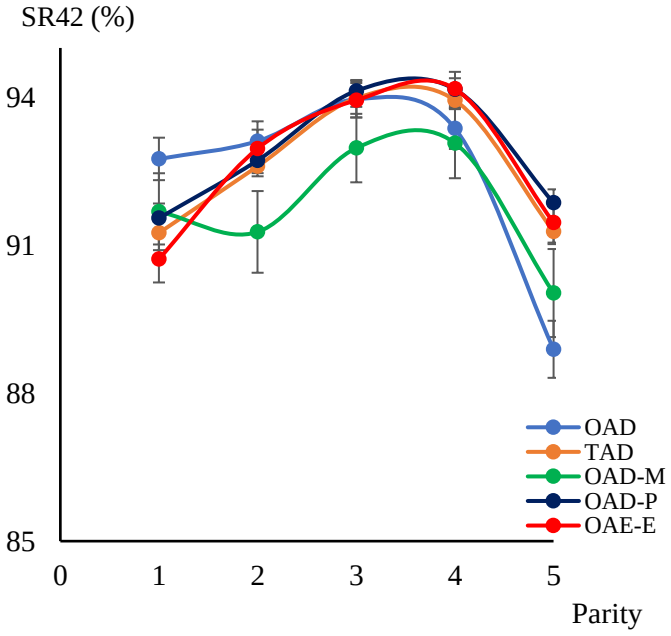

Figure S2.3. Interaction effect of milking regimen and parity on 6-wk submission (SR42) of cows milked in OAD once daily, TAD twice daily, OAD-M once daily in cow's mating period, OAD-P once daily after the peak lactation period and OAD-E once daily at end of the lactation.

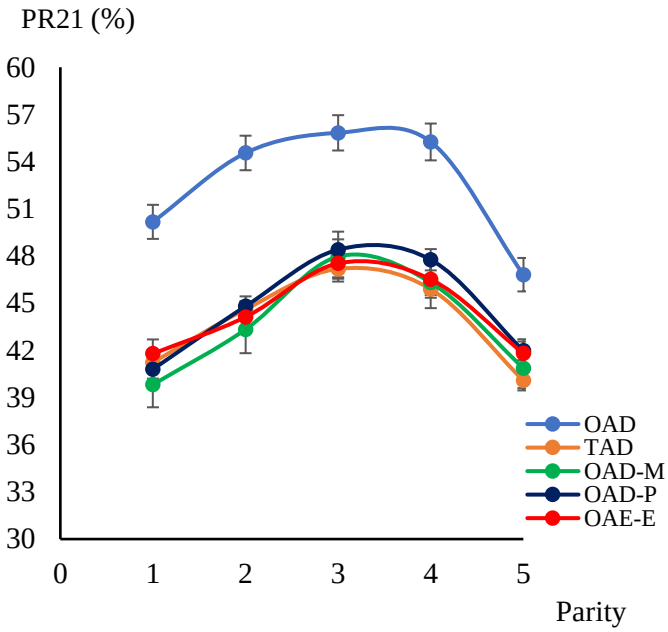

Figure S2.4. Interaction effect of milking regimen and parity on 3-wk in calf (PR21) of cows milked in OAD once daily, TAD twice daily, OAD-M once daily in cow's mating period, OAD-P once daily after the peak lactation period and OAD-E once daily at end of the lactation.

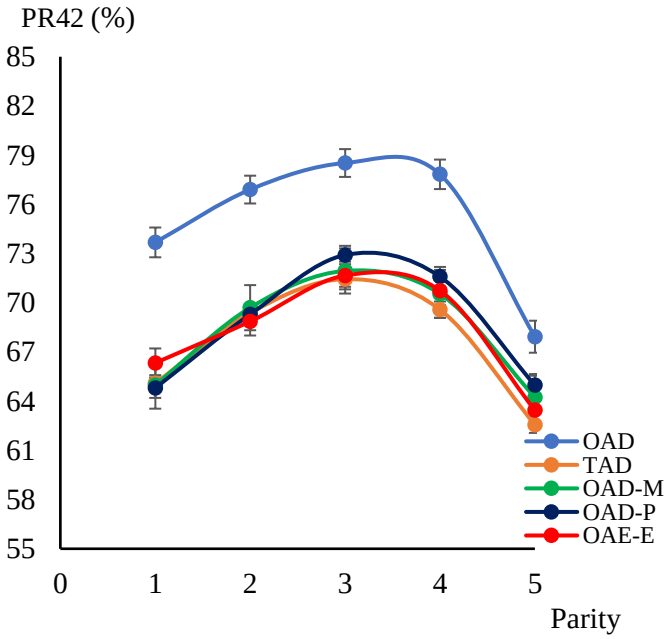

Figure S2.5. Interaction effect of milking regimen and parity on 6-wk in-calf (PR42) of cows milked in OAD once daily, TAD twice daily, OAD-M once daily in cow's mating period, OAD-P once daily after the peak lactation period and OAD-E once daily at end of the lactation.

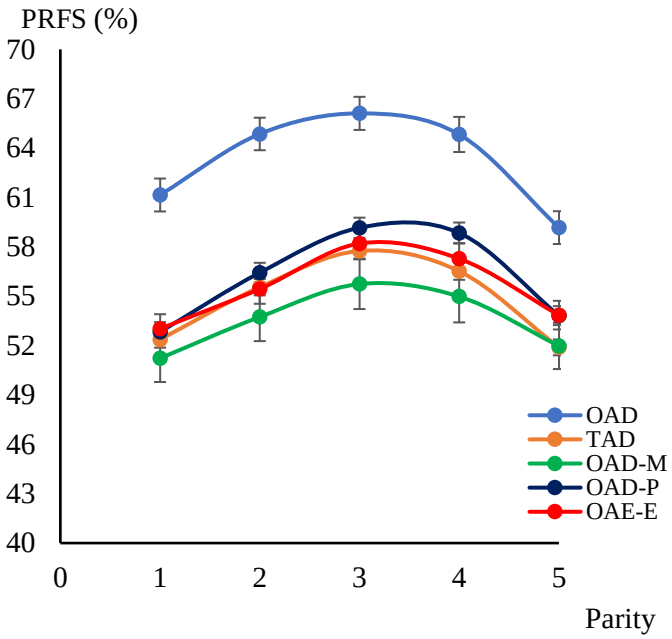

Figure S2.6. Interaction effect of milking regimen and parity on conception to first service (PRFS) of cows milked in OAD once daily, TAD twice daily, OAD-M once daily in cow's mating period, OAD-P once daily after the peak lactation period and OAD-E once daily at end of the lactation.

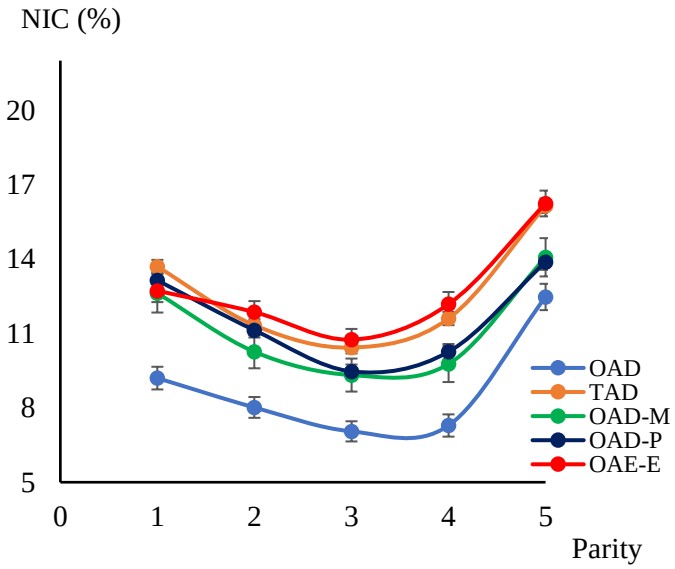

Figure S2.7. Interaction effect of milking regimen and parity on not in-calf (NIC) of cows milked in OAD once daily, TAD twice daily, OAD-M once daily in cow's mating period, OAD-P once daily after the peak lactation period and OAD-E once daily at end of the lactation.

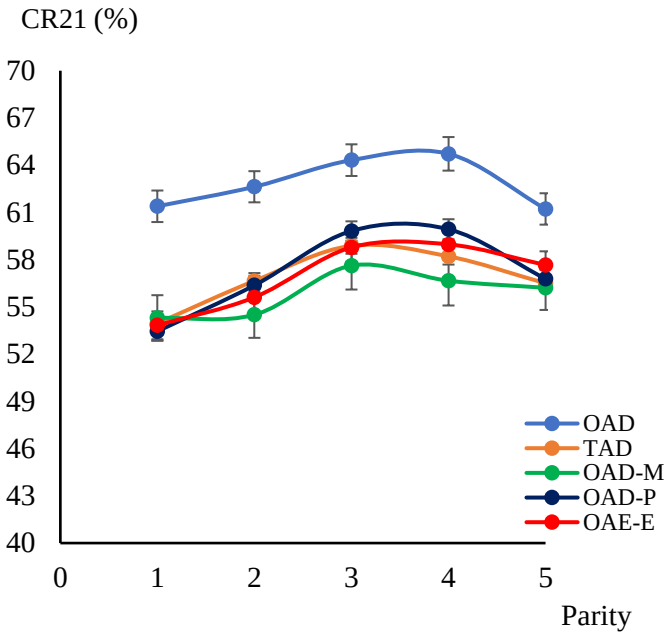

Figure S2.8. Interaction effect of milking regimen and parity on 3-wk calving (CR21) of cows milked in OAD once daily, TAD twice daily, OAD-M once daily in cow's mating period, OAD-P once daily after the peak lactation period and OAD-E once daily at end of the lactation.

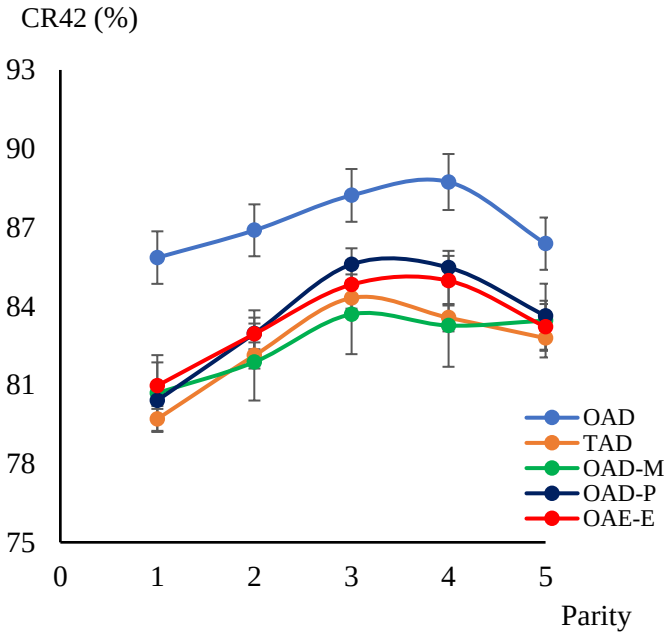

Figure S2.9. Interaction effect of milking regimen and parity on 6-wk calving (CR42) of cows milked in OAD once daily, TAD twice daily, OAD-M once daily in cow's mating period, OAD-P once daily after the peak lactation period and OAD-E once daily at end of the lactation.