

Relationship between cytological quality of milk and fertility parameters of cows

S u m m a r y

The effect of milk cytological quality on selected parameters of fertility was investigated. Analysis included milk performance in four consecutive lactations of Polish Holstein-Friesian cows of Black-and-White variety. The cows were milk recorded in the Kujawsko-Pomorskie province and first calved in 2001. The effect of somatic cell count (≤ 400 , 401-1000, >1000 thousands/ml) in test-day milk recorded to 150 days of lactation on fertility parameters (calving interval, calving-conception interval, interval between first and last service, non-coupling period, insemination index) was estimated. The results indicated that the elevated somatic cell count was paralleled by reduced fertility. Relationships between somatic cell count and measures of cow fertility were positive and although small, statistically mostly highly significant.