

Occurrence of ketone bodies in cows' urine and its relationship with milk production

S u m m a r y

In 336 urine samples of cows using stripe test „MAKROmed" intensity of ketone bodies occurrence was estimated. Positive results were found in 15.2% of analyzed samples. Factors predisposed for ketone bodies occurrence were: stage of lactation, successive lactation, feeding season and urea level in milk. Ketone bodies in urine were most frequently found in two of the first months after calving, in cows in distant lactations (3rd and next), in summer feeding season and in cows with the lowest urea milk level. The influence of ketone bodies presence in urine on daily and lactation productivity of tested cows was also analyzed. Higher daily milk yield of cows with positive results on ketone bodies presence in urine imply that negative production effects accompanied by ketosis can manifest in distant period. Milk production of animals with ketones in urine was significantly lower both in standard and complete lactation.