AGE DYNAMICS OF CHEMICAL COMPOSITION OF COMPLETELY DRY SUBSTANCES OF DIFFERENT GENOTYPES OF BLACK AND WHITE CATTLE

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The study of ontogenetic patterns of embryonic development in cattle, the impact on it and genetic paratypic factors has theoretical and practical significance, because the body is the most volatile in the early stages of prenatal period. Genotype has significant impact on fetal development in general and, in particular, the chemical composition of their organs and tissues. With this in mind, the goal of our research was to study the chemical composition of age dynamics completely dry substance of different genotypes of Black-and-White cattle.

Research conducted in OJSC "Mukshanske" of Kamianets-Podilsk district of Khmelnytsky region. Black-and-White cows at the age of 3, 5 and 7 months of different genotypes were under experiment. We have selected 60 calf cows, which were formed into four groups of 15 animals in each by the principle of par-analogues: I (control) - cows, well-bred Black-and-White, II (research) - results of genotype 5/8 Black-and-White (W) x 3/8 Holstein (d), III (Research) - the results of genotype B 7/16 x 9/16 D, IV (Research) - the results of genotype B 5/16 x 11/16 G.

Established that the chemical composition completely dry matter substance of different genotypes were differed among themselves, but in most cases the difference indicators were unreliable. At 3 months of age group II had the highest fat content and REM absolutely dry substance, group IV - protein and I and III groups - ash. At 5 months of age group I had the highest fat and protein, group II - REM and ash. In absolutely dry substance at the age of 7-months group I had the highest fat content and REM, group II - protein and ash.

Protein content increased with age, fat - reduced (exception - the protein content of 5-month-old units) and REM - had a wavy character. During pregnancy cows observed changes in the chemical composition of absolutely dry substance.
Thus, the chemical composition of the dry substance entirely dependent on their genotype and age.

**Key words:** RESULTS, GENOTYPE, ABSOLUTELY DRY SUBSTANCE, FAT, PROTEIN, REM, ASH.