Morphological features of blood indices in piglets have been studied in view of their rations being supplemented with cobalt chloride and “Humilid”.

The analysis of the leukogram of piglets blood showed that the ratio of some specific forms of white blood cells tends to change considerably depending on the age period. It was established that supplementation of piglets’ rations with cobalt chloride and humilid in the form of water solution results an increase of the blood leukocytes number, namely the amount of stab (by 34.7 %) and segmental (23.6 %) neutrophils.

Standard methods of investigation showed that due to the cobalt effect on sucking piglets their blood morphological indices increased on the 30th day of birth, which testifies corrective effect of humilid on the piglets’ metabolism from the first days of their birth.

**Key words:** cobalt chloride, blood, leukocytes, lymphocytes, humilid