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## Study of genetic diversity of dog cão de gado transmontano breed by pedigree analysis

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The objective of this work was to study the genetic diversity of the Portuguese local dog breed Cão de Gado Transmontano by pedigree analysis. Pedigree data of dog breed Cão de Gado Transmontano was taken from the database of the Associação Criadores de Cão de Gado Transmontano concerning the period from 2003 to 2009. The pedigree file completeness was evaluated. The number and the proportion of animals with both parents known, sire known, and dam known were computed using the SQL procedure. Population genetic diversity parameters were computed using the PEDIG software package. The number of founders was 131 animals; however the effective number of founders was only 58 animals. A low proportion (4.6%) of animals in the population is inbred, and the inbred animals presented low (> 25%) inbreeding coefficient. However, the pedigree completeness is very small, which puts difficulties in the inbreeding calculation. These results suggest that efforts must be made to improve the pedigree quality in order to monitoring the genetic diversity of Cão de Gado Transmontano.