THE STUDY OF THE "LYMPH IRRITATION SYNDROME"
COMPAARED TO CATTLES AND PIGS

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INTRODUCTION

The lymphatic system is an important component of the immune system. Lymph is filtered through the lymph node sinuses, where the particulates and infectious organisms are detected and removed. Because of the exposure to immune challenges, antibody and cell-mediated immunity is mediated. As a result of such normal processes, the lymph nodes can enlarge by proliferation of normal cells or infiltration by abnormal cells.

MATERIAL AND METHOD

In this study were investigated 17 cases, 7 cattles and 10 pigs, were slaughtered for meat marketing. We examined all major lymph node chains, both external and internal. On this occasion have identified various enlargement of these structures with various aspects of their macroscopic performed on longitudinal section. Were practiced smears of lymph juices and staining them using panoptic technique (May-Grunwald Giemsa). Simultaneously we made peripheral blood and bone marrow smears.

RESULTS

The cytomorphological investigation has revealed a massive proliferation of primordial lymphoid cells with an intense proliferation of support- reticular cells. In some cases, lymph node structure consisted mainly of plasmocitoid and plasma cells.
Fig. 1 - Pig lymph node – the "quasi normal" aspect of limphocytomorphology composition of lymph - dominant ratio 20/1 mature lymphocyte / blast cells, MGG, 1000 X

Fig. 2 - Pig lymph node - Intense blast transformation with lymph node-type items exclusively lymphoproliferative, MGG, 1000 X
Fig. 3 - Pig lymph node - Intense blast transformation with lymph node-type items exclusively lymphoproliferative, MGG, 1000 X

Fig. 4 - Pig lymph node - Intense blast transformation with lymph node-type items exclusively lymphoproliferative, MGG, 1000 X
Fig. 5 – Cattle lymph node - Same aspect with the appearance of the atypical lymphoproliferative cells, MGG, 1000 X

Fig. 6 – Cattle lymph node - Same aspect with the appearance of the atypical lymphoproliferative cells, MGG, 1000
Fig. 7 – Cattle lymph node - Same aspect with the appearance of the atypical lymphoproliferative cells, MGG, 1000 X

Fig. 8 – Cattle lymph node - Same aspect with the appearance of the atypical lymphoproliferative cells, MGG, 1000 X

CONCLUSIONS

From 17 cases, a total of 13 animals (9 pigs and 4 cattle) wasn’t present visceral lesions that could cause such responses lymph node, so we can discuss this like a "lymph irritation syndrome" present in both species of
animals is due solely to potentially carcinogenic chemicals that are present in specific feeding of these animals. At these two species could not put in evidence yet (due to the small number of animals investigated) the evolutive stages of this syndrome.

REFERENCES