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ANTIBODY RESPONSE AGAINST CANINE PARVOVIRUS OF CLIENT-OWNED DOG PUPPIES AFTER VACCINATION WITH BIVALENT OR MULTIVALENT VACCINES CONTAINING LIVE ATTENUATED STRAINS.

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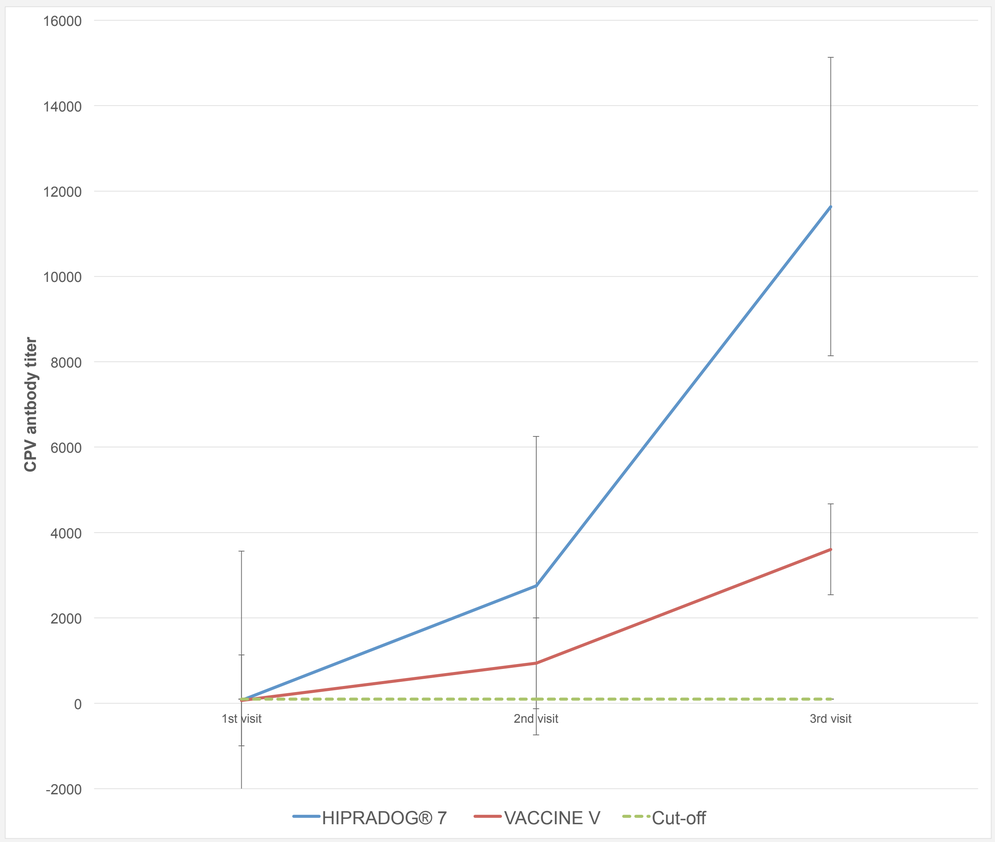

The objective of the study was to describe the antibody response against Canine Parvovirus (CPV) generated in sera after vaccination of client-owned puppies with bivalent and multivalent vaccines containing live attenuated strains.

Table 1: ASSESSMENT OF THE SAFETY AND EFFICACY OF HIPRADOG-7 VACCINE IN FIELD CONDITIONS

PAPER DESCRIPTION AND RESULTS

Healthy dog puppies of 6-8 weeks of life were recruited from private owner and distributed depending on the age into four groups (Groups 1, 3 and 4 = 8 weeks of age, and Group 2 = 6 weeks of age). Groups 1 (n=62) and 3 (n=37) were vaccinated with HIPRADOG® DP and HIPRADOG® 7 respectively; groups 2 (n=58) and 4 (n=37) were vaccinated respectively with equivalent commercially available bivalent and multivalent products. Vaccines were administered following manufacturer's instructions. Blood samples were collected before and 21 days after the completion of the vaccination plan. The purified sera were tested by using commercially available ELISA kits to determinate antibodies titres against CPV.

Results showed that a CPV specific antibody response was generated in all groups (77.59-97.30%) despite the presence of a maternal derived immunity in some of the recruited puppies (8.11-18.97%) before the vaccines administration. However, the characteristics of those responses were different depending on the administered product.

In particular, group 1 showed a higher coverage and homogeneity of the immune response compared to group 2. On the other hand, group 3 showed a higher magnitude and homogeneity of the immune response compared to group 4, despite showing similar coverage.

CONCLUSIONS

Therefore, tested bivalent and multivalent vaccines were able to induce a specific antibody immune response against CPV in puppies in field; however, immunization performances might significantly differ depending on the product used.

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