

## Vaccination of Algerian Local Rabbits with Precocious Strains of *Eimeria magna* and *Eimeria media*

**Authors :** Mohamed Sadek Bachene, Soraya Temim, Hassina Ainbaziz, Asma Bachene

**Abstract :** The present study was conducted to assess the safety and the efficacy of a vaccine containing the Algerian precocious strains of *Eimeria magna* and *Eimeria media* used separately or together against rabbit coccidiosis. The samples consisted of 56 young rabbits reared in specific pathogen-free conditions. Following the challenge inoculation, statistically significant decreases in oocyst excretion were noticed in the vaccinated rabbits with the precocious strain of *Eimeria magna*, *Eimeria media*, and both species leading to a good immune response acquired by the vaccination associated with a good growth rate. Moreover, there was a statistically significant increase in oocyst output following the challenge in all challenged groups. Unlike the vaccinated groups, the challenged groups showed poor weight gains. More than 50% of the young rabbits from all the challenged groups presented diarrhea. Consequently, these precocious strains constitute good candidates for mono or polyvalent anticoccidial vaccines in the future.

**Keywords :** precocious strain, rabbits, vaccination, wild strain

**Conference Title :** ICPM 2023 : International Conference on Parasitology and Microbiology

**Conference Location :** Doha, Qatar

**Conference Dates :** March 20-21, 2023