

عنوان مقاله:

Intestinal colonization of different *Brachyspira* spp. in laying hens

محل انتشار:

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خلاصه مقاله:

BACKGROUND: Avian intestinal spirochetosis (AIS) is caused by spiral-shaped Gram-negative *Brachyspira* spp. in poultry. It is known as a cause of diarrhea, low egg production, and increased occurrence of dirty eggs in layer hens. **OBJECTIVES:** In this study, the presence of some *Brachyspira* spp. was investigated in laying hens. **METHODS:** A total of 100 cloacal swab samples were individually collected from 20 laying hen flocks showing fecal egg staining in northeast of Iran. **RESULTS:** Using culture and morphologic examination, 41 samples (41%) from 20 flocks were positive; however, by using genus-specific PCR, only 37 (37%) samples were confirmed as *Brachyspira* spp. Using species-specific primers, single colonization was identified in 18 samples associated with *B. pilosicoli* (48.6%), while single colonization with *B. intermedia* was found in only two samples (5.4%). Simultaneous colonization by *B. intermedia* and *B. murdochii* was detected in 3 samples (8.1%). *B. pilosicoli* was the most prevalent species in concurrent colonization in 11 cases (29.7%). Finally, cocolonization by *B. intermedia* and *B. innocens* was identified in 3 samples (8.1%). **CONCLUSIONS:** The results of this study showed the colonization of different species of *Brachyspira* with dominance of *B. pilosicoli* in layer hens.

کلمات کلیدی:

Brachyspira, intestinal spirochetosis, laying hen, PCR

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