

عنوان مقاله:

Survey on relationship between acute phase proteins (serum amyloid A, milk amyloid A and serum haptoglobin) in inflammatory diseases of dairy cattle

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خلاصه مقاله:

The objective of this study was to evaluate the concentration of some acute phase proteins (serum amyloid A, milk amyloid A and serum haptoglobin) and alteration in hematological values in some inflammatory diseases in dairy cattle. Fifty-six Holstein dairy cows with inflammatory diseases were used in this study including: subclinical mastitis, hematological infections (theileriosis and anaplasmosis), metritis, pneumonia and displacement of abomasum ($n=8$ each). Clinically healthy cows were selected as control group ($n=8$). Blood samples were collected from jugular vein of both groups. Milk samples were taken from four quarters of each cow and mixed together and then one sample of pooled milk from both groups was taken. There were significant differences in mean concentrations of serum and milk amyloid A between clinically healthy cows and diseased cows and also, between abomasal displacement and other infectious diseases ($p<0.05$). There were also significant differences in haptoglobin concentrations between cattle suffering from subclinical mastitis, theileriosis and pneumonia compared to those with anaplasmosis, abomasal displacement and metritis ($p<0.05$). Our results indicated the application of serum haptoglobin, serum amyloid A and milk amyloid A measurements as indicators of inflammatory diseases in dairy cattle. In conclusion, the current study shows that haptoglobin, serum amyloid A, and milk amyloid A measurements, could be successfully applied in cattle as valuable indicators of inflammatory diseases.

کلمات کلیدی:

Acute phase protein, serum amyloid A, haptoglobin, inflammatory diseases

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