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Time course of hemolysis in respiratory alkalosis

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Abstract:

Blood pH and plasma hemoglobin concentration were measured in dog undergoing hyperventilation with or without 6 % CO₂. Blood pH rose in the first minutes in the alkalotic group and hemolysis appeared mostly during second hour after alkalosis was established. It increased gradually during the following hours of hyperventilation. No hemolysis was observed in the group undergoing hyperventilation with 6% CO₂. It is concluded that hemolysis is unrelated to mechanical action of hyperventilation and in due to alkalosis. the possible cause of hemolysis and related literature is discussed.

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