



**RESEARCH ARTICLE**

# Comparative cytomorphological studies on monocytes of domestic fowl, duck and quail

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**Abstract :** The present study was conducted on blood cells of thirty healthy domestic fowl, duck and quail, ten birds of each group. Monocytes were rounded in fowl and quail whereas rounded to elliptical in duck. Their mean diameter were  $9.78 \pm 0.11 \mu\text{m}$  in fowl,  $8.78 \pm 0.14 \mu\text{m}$  in duck and  $10.02 \pm 0.15 \mu\text{m}$  in quail. In fowl, the nucleus was highly variable and ranged from spherical to oval in shape. The darkly stained chromatins were homogeneously distributed. The cytoplasm was foamy in appearance due to presence of large number of vacuoles. In duck, the nuclei were mostly horse shoe shaped and centrally placed. The light and darkly stained chromatin materials were in the form of intermingled patches. The cytoplasm was lightly stained. In quail, the nuclei were curved, mostly horseshoe shaped and eccentrically placed.

**Key words :** Blood cells, Monocytes, Domestic fowl, Duck, Quail

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