

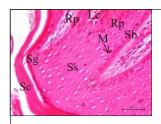
Indian Journal of Animal Sciences 94 (12): 1058-1063, December 2024/Article https://doi.org/10.56093/ijans.v94i12.137977

Histomorphological evaluation of teat of Sahiwal and Holstein Friesian cattle during lactation and non-lactation stage

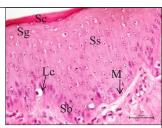
ANSHU ANARJIT CHAUHAN¹, BALJINDER KUMAR BANSAL² and NEELAM BANSAL¹⊠

College of Veterinary Science (GADVASU), Ludhiana, Punjab 141 012 India

Received: 19 June 2023; Accepted: 6 November 2024



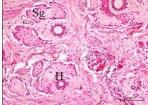
Stratum basale (Sb), Melanocyte (M), stratum (Ss), stratum spinosum granulosum (Sg), Rete pegs Rp) and Stratum Corneum Sc) of tip skin in non lactating Sahiwal (Hematoxylin and $Eosin \times 200$)



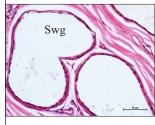
Stratum basale (Sb), Melanocyte (M), stratum spinosum (Ss), stratum granulosum (Sg) and Stratum Corneum (Sc) tip skin in lactating Sahiwal (Hematoxylin and Eosin × 400)



Compound alveolar sebaceous (Sg) in Sahiwal Hematoxylin and Eosin \times 400)



Compound alveolar sebaceous gland (Sg), Hair follicle (H) in HF (Hematoxylin and Eosin >

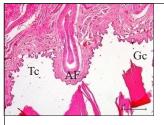


Compound alveolar sweat gland (Swg) in Sahiwal (Hematoxylin and Eosin × 400)



Stroma (Str) and Sweat gland (Swg) of HF (Hematoxylin and $Eosin \times 200$)

Supplementary Fig. 1. Teat skin.



Cross-sectional view of base of teat showing teat cistern (Tc), gland cistern (Gc) and large annular fold (AF) in Sahiwal (Hematoxylin and Eosin × 40)



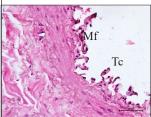
Teat cistern (Tc), cistern (Gc) and intermediate annular fold (AF) in Sahiwal. (Hematoxylin and Eosin × 100)



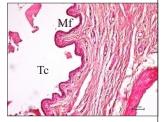
Teat cistern (Tc), gland cistern (Gc) and branched annular fold (AF) in Sahiwal (Hematoxylin and Eosin × 200)



Annular fold (AF) in HF (Hematoxylin and Eosin × 200)

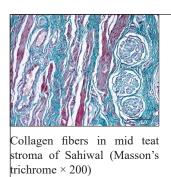


Mucosal folds (Mf) in Teat cistern (Tc) in Sahiwal Hematoxylin and Eosin × 400)



Mucosal folds (Mf) in Teat cistern (Tc) in HF (Hematoxylin and Eosin \times 100)

Supplementary Fig. 2. Annular folds.





Elastic fibers in base teat stroma of HF. Verhoff"s 200



Blunt Rete ridges (R) with less Connective tissue (Ct) in lactating Sahiwal (Hematoxylin and Eosin ×

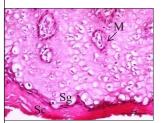
Elongated and Rete ridges (R) with more Connective (Ct) tissue in non lactating Sahiwal (Hematoxylin and Eosin >

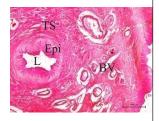




Lactiferous gland (LG) of lactating HF (Hematoxylin and Eosin × 100)

Lactiferous gland (LG) in non-



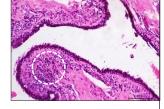


lactating HF (Hematoxylin and Eosin × 100)

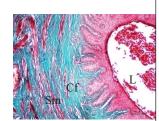
Enlarged view of teat canal epithelium showing Stratum corneum, Stratum granulosum (Sg) and Marksaulchen cells (Hematoxylin and Eosin \times 400)

Teat canal in non lactating Sahiwal showing star shaped lumen (L), epithelium (Epi), teat sphincter (TS) and blood vessels (BV) (Hematoxylin and Eosin \times 20)









Furstenberg's rosette (FR) and teat canal (TC) (Hematoxylin and Eosin \times 200)

Furstenberg's rosette showing Lymphoreticular cells (Circle) (Hematoxylin and Eosin × 400)

Supplementary Fig. 3. Teat cistern.

of lactating Teat canal Sahiwal showing Teat canal lumen (L), epithelium (Epi), sphincter(TS) and Milk contents (M) lactating (Hematoxylin and Eosin \times 100)

Teat canal (L), Collagen fibers (Cf) and Smooth muscles (Sm) in lactating Sahiwal (Masson's trichrome × 100)

Supplementary Fig. 4. Teat canal.