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## Development of paranasal sinuses ppt

Open access peer-reviewed The bovine paranasal sinuses are a group of complex cavernous spaces full of air, flanked by the respiratory epithelium, whose exact function is not clear. While injuries that influence these sinuses are occasionally reported in livestock, their microbial flora has not been defined. Furthermore, given that the various bacterial and viral pathogenic agents that cause bovine respiratory disease (BRD) persist within the herds, we hypothesized that the paranasal sinuses can serve as a refuge for such infectious agents. The paranasal sinuses of clinically normal cattle (n = 99) and bovine presented for the post mortem examination (PME: n = 34) were examined by microbial culture, PCR and serology to include the bacterial and viral pathogens typically associated with the BRD: Mycoplasma Bovis, Histophilus Somni, Mannheimia Haemolytica and Multicidal Pasteurella, Respiratory Bovine Sincerely Virus (BRSV) and parainfluenza-3 bovine viruses (BPIV-3). Overall, the paranasal sinuses were predominantly sterile or do not contain detectable microbes (83.5%: 94.9% clinically normal and 50.0% of the livestock sent for PME). Bacteria, including the BRD that causes pathogens, have been identified in a relatively small number of cattle (

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