

ABSTRACT

STUDY ANATOMY AND PHYSIOLOGY OF GENITAL AND UROPOETIC TRACTS OF A FEMALE DOMESTIC CAT (*Felis catus*)

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Cat was one of most popular pet animal around the world. This research aims to study and compare literatures, to gain more information regarding the anatomy and physiology of the genital and uropoetic tracts of female domestic cat (*Felis catus*). This study is a literature review, done by analysing and comparing information from various literatures regarding the genital and uropoetic tract of the domestic cat. The results of this study showed that the anatomy of the female feline's genital tract comprises of the ovaries, uterine tubes, uterus, vagina, vestibule, and vulva; whereas the uropoetic tract consist of the kidney, ureters, urinary bladder and the urethra. Both the system works together in order to sustain the feline's body function. The physiology of the female feline's genital tract generally consist of estrous cycle which includes proestrus, estrus, diestrus and anestrus; the mechanics of induced ovulation, pseudopregnancy, preganancy, parturition, photoperiod and mating behaviors. The uropoetic physiological mainly states about the glomerular filtration, tubular reabsorption and secretion, renin-angiotensin aldosterone system and also the micturition reflex as the finishing mechanism for the uropoetic system. It is necessary to understand the normal genital and uropoetic anatomy for a better understanding on its physiology. From this study can be concluded that it is essential to understand the anatomy and physiology of the female genital and uropoetic tract of female cat for basic of breeding and diseases prevention. It need further research focused base on genital and uropoetic tracts of female feline for a better understanding of the feline anatomy and physiology of the female and male cat.

Keyword: anatomy, physiology, genital, uropoetic tracts, female cat.

ABSTRAK

STUDI ANATOMI DAN FISILOGI SALURAN GENITALIA DAN UROPOETIKA PADA KUCING DOMESTIK BETINA (*Felis catus*)

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Kucing adalah hewan peliharaan yang populer di seluruh dunia. Penelitian ini bertujuan untuk mempelajari tentang anatomi dan fisiologi saluran genitalia dan uropoetika pada kucing domestik betina (*Felis catus*). Penelitian ini adalah studi literatur terkait saluran genitalia dan uropoetika pada kucing betina dari berbagai sumber yang valid. Hasil penelitian menunjukkan bahwa saluran genitalia kucing betina terdiri dari ovarium, *oviduct*, uterus, vagina, vestibulum, dan vulva, saluran uropoetika kucing betina terdiri dari ginjal, ureter, vesika urinaria dan uretra. Kedua sistem bekerja bersama untuk menjaga fungsi tubuh tetap normal. Fisiologi saluran genitalia kucing betina meliputi siklus estrus yang terdiri dari proestrus, estrus, diestrus dan anestrus; mekanisme induksi ovulasi, pseudopregnansi, pregnancy, parturisi, fotoperiode dan behavior perkawinan. Fisiologi saluran uropetika meliputi filtrasi glomerulus, reabsorpsi dan sekresi tubulus, sistem renin-angiotensis aldosteron dan refleksi mikturisi sebagai mekanisme final saluran genitalia dan uropoetika. Penting untuk mengetahui anatomi normal saluran genitalia dan uropoetika untuk memahami fisiologi normalnya. Dapat disimpulkan bahwa pemahaman anatomi dan fisiologi saluran genitalia dan uropoetika pada kucing betina penting untuk dasar *breeding* dan pencegahan penyakit. Perlu penelitian lebih lanjut fokus pada saluran genitalia dan uropoetika pada kucing betina maupun jantan.

Kata kunci: anatomi, fisiologi, saluran genitalia uropoetika, kucing betina.