

Summary

The serum testosterone, estradiol, progesterone, cortisol and prolactin levels were measured by radioimmunoassay in M. fascicularis which colonized in Bangkok whereas LH levels of the same species were measured by bioassay. The purpose of this study was to determine the difference of these hormonal levels in age, sex and diurnal rhythm. The serum estradiol was low in young age group and in follicular phase of adult monkeys. Then the estradiol began to increase significantly at age of 4 years and the peak surge of cycle was shown in mid cycle as well as LH peak. Serum testosterone was low in young age group and began to increase significantly at age of 5 years whereas there were no significant differences of prolactin levels in any age groups. Diurnal rhythm of serum prolactin and cortisol were detected when careful blood samplings were done whereas there was no diurnal rhythm of LH, estradiol and testosterone in any age groups except in peripubertal and cryptorchidism which nocturnal increase of testosterone was observed.

In summary, the present study of the hormonal patterns in M. fascicularis by radioimmunoassay method and bioassay of LH are similar to other non-human primate as well as in human. These results provided the valuable information for further study in biomedical research by using M. fascicularis as models.

Biography

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