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ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย



ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย

ตาราง 14 แสดงการบันทึกการประจำเดือนของสิงหนายเลข 5

Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Years								
Jan.																																								
Feb.																																								
March																																								
April																																								
May																																								
June																																								
July																																								
Aug.																																								
Sept.												m	m																											
Oct.																																								
Nov.																																								
Dec.																																								
Jan.																																								
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Aus.																																								
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Oct.																																								
Nov.																																								
Dec.																																								

- วันที่เจาะเลือด
- m วันที่ตรวจพบ bleeding
- ★ วันที่ตกไข่

Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Years									
Jan.																																									
Feb.																																									
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Dec.																																									

● วันที่เจาะเลือด
 m วันที่ตรวจพบ bleeding
 ★ วันที่ตกไข่

ตาราง 16 แสดงการบันทึกการรอบประจำเดือนของสิงหมายเลข 28

Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Years
Jan.																m	m	m	m													1986
Feb.																	m	m														
March																																
April																																
May																																
June													●					●					●		●			●				
July	●			●			●			●			●			m	m					●		●					●			
Aug.	●				●			●			●		●					●				●		●		●			●			
Sept.	●			●				●			●				●			●				●		●		●			●			
Oct.		●				●				●		●				●						●				m	m	m		●		
Nov.			●			●				●	★				●			●				●		●		●		●		●		
Dec.						●						●										●							●			
Jan.						●			●			●				●			●			●		●			●			●	1987	
Feb.		●			●				●			●				●			●			●		●		●			●			
March			●			●				●		●										●						●				
April																																
May																																
June																																
July																																
Aug.																																
Sept.																																
Oct.																																
Nov.																																
Dec.																																

- วันที่เจาะเลือด
- m วันที่ตรวจ bleeding
- ★ วันที่ตกไข่

ตารางที่ 17 แสดงความแตกต่างถึงค่าเฉลี่ยของฮอร์โมน เอสตราไดโอล โปรเจสเตอโรน เทสโทสเตอโรน คอร์ติซอล FSH และ LH ของกลุ่มลิง 3 ตัว ในภาวะก่อน ตั้งรังไข่และหลังตั้ง

	NO of monkeys	ESTRADIOL-17 β (E ₂) pg/ml	PROGESTERONE (P) pg/ml	TESTOSTERONE (T) pg/ml	CORTISOL ng/ml	FSH mIU/ml	LH mIU/ml
ก่อนตั้งรังไข่	N5	201.33 \pm 70.56	1014.80 \pm 733.10	424.03 \pm 64.26	280.33 \pm 68.39	29.83 \pm 29.29	9.52 \pm 1.44
	N6	161.16 \pm 49.76	784.11 \pm 814.37	610.77 \pm 107.67	202.97 \pm 31.73	24.00 \pm 12.37	9.47 \pm 0.81
	N28	234.83 \pm 77.29 * P<0.05	758.12 \pm 332.35 NS	589.19 \pm 125.58 * P<0.05	928.59 \pm 161.38 * P<0.05	65.43 \pm 17.15 * P<0.05	9.96 \pm 1.21 NS
หลังตั้งรังไข่	N5	79.64 \pm 33.05	338.61 \pm 190.56	411.00 \pm 45.68	263.33 \pm 71.05	144.27 \pm 78.28	19.14 \pm 2.80
	N6	43.11 \pm 34.51	192.62 \pm 130.65	589.24 \pm 93.05	188.03 \pm 57.04	190.16 \pm 49.50	20.29 \pm 0.86
	N28	33.00 \pm 28.14 * P<0.05	590.63 \pm 182.99 * P<0.05	674.84 \pm 168.94 * P<0.05	1053.11 \pm 249.49 * P<0.05	259.66 \pm 162.61 * P<0.05	18.18 \pm 2.92 NS

NS = not significant

* P<0.05 แสดงความแตกต่างที่มีนัยสำคัญ

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ตาราง 18 แสดงค่าเฉลี่ยของฮอร์โมน อีสโตรเจน โปรเจสเตอโรน เทสโทสเตอโรน
คอร์ติซอล FSH และ LH ในภาวะก่อนตัดรังไข่และหลังตัด

ฮอร์โมน	ก่อน OV $\bar{X}_1 \pm SD_1$	หลัง OV $\bar{X}_2 \pm SD_2$	\bar{X}_1 vs \bar{X}_2
ESTRADIOL (pg/ml)	M_n 201.33 \pm 70.56	79.64 \pm 33.05	st P < 0.05
	M_n 161.16 \pm 49.77	43.11 \pm 34.51	at P < 0.05
	M_{20} 234.83 \pm 77.29	33.00 \pm 28.14	at P < 0.05
$\bar{X}_1 = 193.74 \pm 595.23$ * $\bar{X}_2 = 57.80 \pm 23.71$ at P < 0.05			
PROGESTERONE (pg/ml)	M_n 1014.80 \pm 733.10	338.61 \pm 190.56	at P < 0.05
	M_n 784.11 \pm 814.37	192.62 \pm 130.65	at P < 0.05
	M_{20} 758.12 \pm 332.35	590.63 \pm 182.99	at P < 0.05
$\bar{X}_1 = 833.87 \pm 4341.14$ * $\bar{X}_2 = 317.12 \pm 1209.77$ at P < 0.05			
TESTOSTERONE (pg/ml)	M_n 424.03 \pm 64.26	411.00 \pm 45.66	N.S.
	M_n 610.77 \pm 107.67	589.24 \pm 93.05	N.S.
	M_{20} 589.19 \pm 125.58	674.84 \pm 168.94	N.S.
$\bar{X}_1 = 541.35 \pm 631.12$ * $\bar{X}_2 = 526.77 \pm 211.76$			

ตาราง 18 (ต่อ)

ฮอร์โมน		ก่อน OV $\bar{X}_1 \pm SD_1$	หลัง OV $\bar{X}_2 \pm SD_2$	\bar{X}_1 vs \bar{X}_2
CORTISOL (ng/ml)	M_n	280.33 \pm 68.39	263.33 \pm 71.05	N.S.
	M_n	202.97 \pm 81.73	188.03 \pm 57.04	N.S.
	M_{20}	928.59 \pm 161.38	1053.11 \pm 249.49	N.S.
$\bar{X}_1 = 381.71 \pm 418.50$ $\bar{X}_2 = 393.75 \pm 495.45$				
FSH (mIU/ml)	M_n	29.83 \pm 29.29	144.27 \pm 78.28	at P < 0.05
	M_n	24.00 \pm 12.37	190.16 \pm 49.50	at P < 0.05
	M_{20}	65.43 \pm 17.15	259.66 \pm 162.61	at P < 0.05
$\bar{X}_1 = 38.30 \pm 182.47$ $\bar{X}_2 = 178.14 \pm 434.30$				
LH (mIU/ml)	M_n	9.52 \pm 1.49	19.14 \pm 2.80	at P < 0.05
	M_n	9.47 \pm 0.89	20.29 \pm 0.86	at P < 0.05
	M_{20}	9.96 \pm 1.26	18.18 \pm 2.92	at P < 0.05
$\bar{X}_1 = 9.63 \pm 7.29$ $\bar{X}_2 = 18.87 \pm 8.66$ at P < 0.05				

* \bar{X}_2 แตกต่างจาก \bar{X}_1 อย่างมีนัยสำคัญที่ P < 0.05

NS = not significant

ตาราง 19 แสดงจำนวนตัวอย่างที่ใช้ในการวิเคราะห์หาปริมาณฮอร์โมน

	No of monkeys	No of Samples					
		E_2	P	T	cortisol	FSH	LH
ก่อนตัดรังไข่	M_5	49	15	27	30	34	18
	M_6	46	19	26	35	33	17
	M_{20}	30	21	27	16	23	14
หลังตัดรังไข่	M_5	31	24	25	31	25	11
	M_6	20	23	26	30	24	5
	M_{20}	19	24	19	11	4	15

ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย



ประวัติผู้เขียน

นางสาวชุตินร ยิ้มเมือง เกิดเมื่อวันที่ 8 พฤษภาคม 2503 สำเร็จการศึกษา
จากวิทยาลัยพยาบาลสภากาชาดไทย สถาบันสมทบของจุฬาลงกรณ์มหาวิทยาลัย เมื่อปีการศึกษา
2524 เข้าศึกษาในหลักสูตรปริญญาวิทยาศาสตรมหาบัณฑิต สาขาวิชาสารวิทยา เมื่อปี
การศึกษา 2528 และได้รับทุนอุดหนุนการวิจัยบางส่วนจากบัณฑิตวิทยาลัย จุฬาลงกรณ์มหา
วิทยาลัย ในปีการศึกษา 2531



ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย