

# Pregnancy Detection

**Witness<sup>®</sup> Relaxin<sup>®</sup>**  
Canine and Feline Pregnancy Test Kit

**STUDY SITE:** School of Veterinary Medicine, Lyon, France  
**RESEARCHER:** Dr. Samuel Buff  
**SUBJECTS:** 41 dogs (29 pregnant & 12 non-pregnant)

### EARLY PREGNANCY DETECTION POST-LH SURGE (n = 19)

Days Post-LH Surge:	20	23	24	25	26	27	28	29
Pregnancies Detected:	1	2	7	3	2	1	2	1
Cumulative Frequency:	5%	16%	53%	69%	79%	83%	93%	100%

### EARLY PREGNANCY DETECTION POST-MATING (n = 10)

Days Post-Mating:	18	20	21	22	23	24
Pregnancies Detected:	1	1	1	2	2	3
Cumulative Frequency:	10%	20%	30%	50%	70%	100%

### SENSITIVITY

175 samples from pregnant bitches in this study had no false negative results (i.e., 100%).

### SPECIFICITY

12 non-pregnant bitches in this study had no false positive results (i.e., 100%).

### SUMMARY OF THIS STUDY

First day of detection: 25 days post-LH surge on average (range 20 – 29).  
22 days post-mating on average (range 18 – 24).

### Additional references

Buff S. Diagnostic de gestation - La relaxine placentaire. *L'Action Vétérinaire* n° 1590; 2002. (French)  
Steinetz BG, et. al. Use of Serum Relaxin for Pregnancy Diagnosis in the Bitch. *Kirk's Current Veterinary Therapy XIII Small Animal Practice*. 924-925; 2000.  
Tsutsui T and Stewart DR. Determination of the Source of Relaxin Immunoreactivity during Pregnancy in the Dog. *J. Vet. Med. Sci.* 53(6): 1025 - 1029, 1991.

# Pregnancy Detection

**STUDY SITE:** College of Veterinary Medicine, Auburn University  
**RESEARCHER:** Brenda Griffin, DVM, MS, Dipl. ACVIM  
**SUBJECTS:** 51 cats (28 pregnant & 23 non-pregnant)

### FEASIBILITY STUDY (n = 13)

Thirteen known pregnant cats were tested at the time of ovariohysterectomy. Twelve cats tested positive between days 28 and 58 (estimated) of gestation. One cat tested negative at approximately day 22 of gestation.

### EARLY PREGNANCY DETECTION (n = 15)

Cat	~ 1st day of detection*	Cat	~ 1st day of detection*	Cat	~ 1st day of detection*
Fauna	20	Monica	24	Sierra	25
Quake	23	Raz II	24	Ahura	26 <sup>†</sup>
Angel	24	Janet	25	Xena	26
Baby	24	Maxine	25	Raz I	27
Faith	24	Oyster	25	Penelope	29

\*Not all cats were bled on consecutive days. Day of breeding = day 0.

<sup>†</sup>Cat was bred, but did not queen. Tested negative on day 73. Abortion suspected.

### NON-PREGNANT QUEENS (n = 23)

Relaxin negative = 21

Relaxin positive = 2 (both cats had cystic ovaries – see Summary)

### SUMMARY OF THIS STUDY

First day of detection: 25 days post-breeding on average (range 20 – 29 days).

2 false positive results in cats with cystic ovaries. (Note: luteal cysts have been found in women with elevated relaxin levels.)

#### Additional reference

Griffin B. Prolific Cats: The Estrous Cycle. *Compendium for Cont. Ed. for Vets*, 23 (12), 1049-1057, 2002.