

# Ciclo estral em ratas

fase  
folicular

- Dia 1--metaestro:
  - início: secreção ovariana hormonal relativamente baixa
  - fim: início da atividade folicular

- Dia 2--diestro:
  - Folículos em desenvolvimento
  - Aumento significativo nos níveis de estrógeno

- Dia 3--próestro:
  - início: futuro aumento nos níveis de estrógeno
  - fim: pico de estrógeno na metade final  
estímulo para GnRH e LH  
↑ nos níveis préovulatório de progesterona

fase  
periovulatória

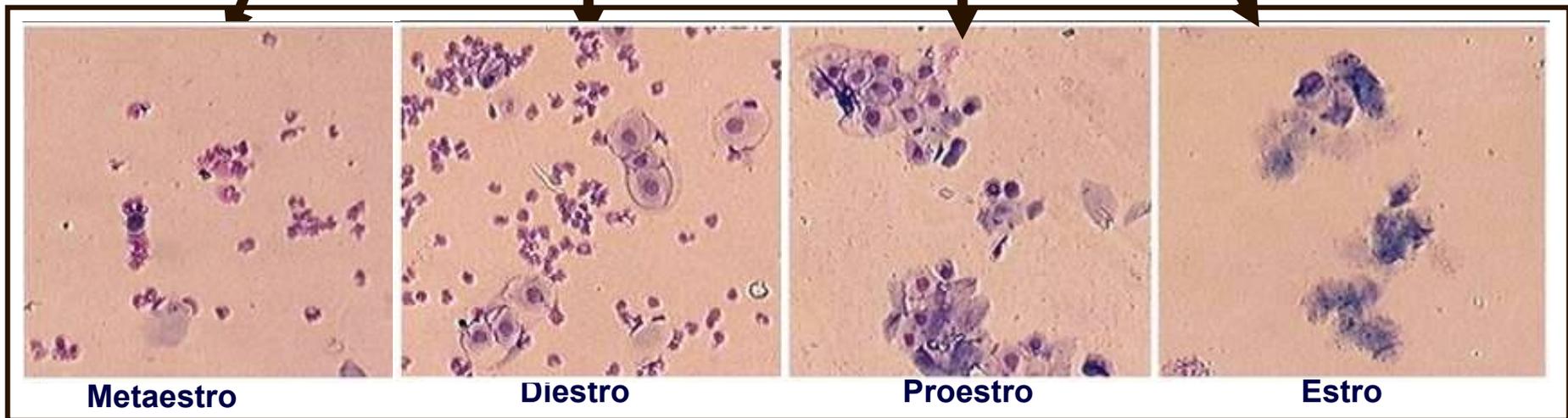
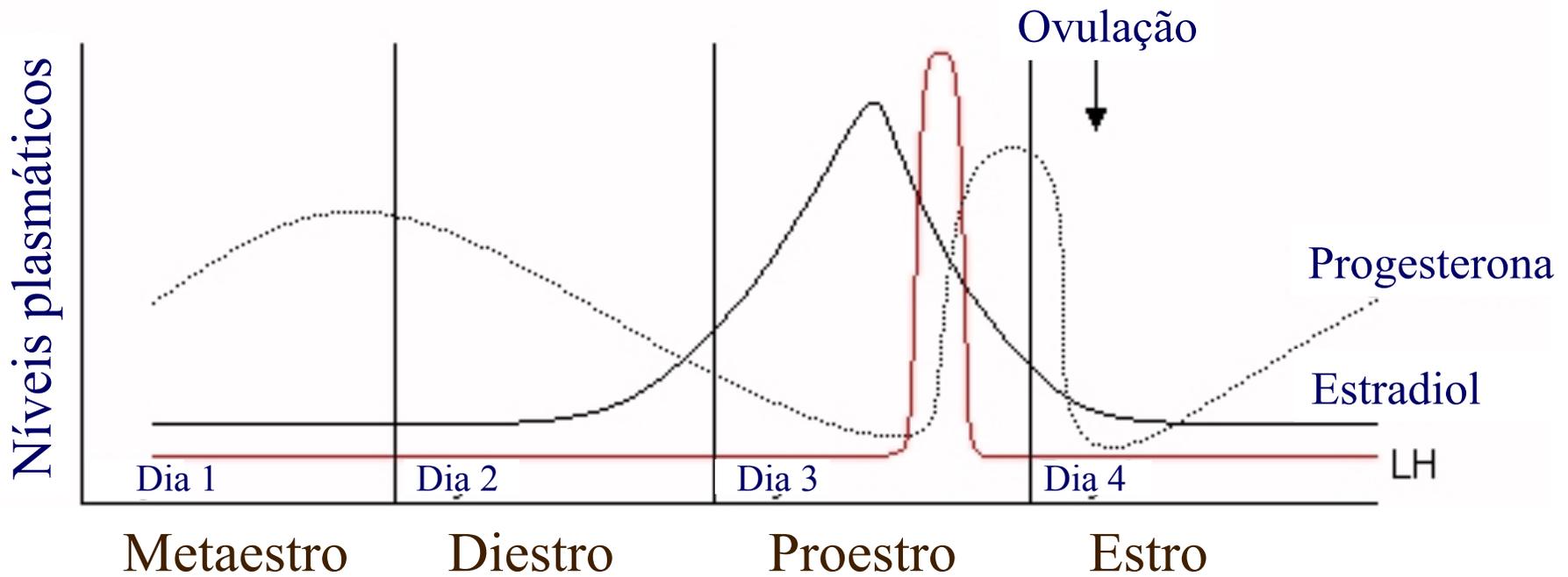
- Dia 4--estro:
  - início: **ovulação** (resultante do ↑ estrógeno e LH)

**comportamento** – receptivo  
(↑ estrógeno e progesterone)

fase lútea

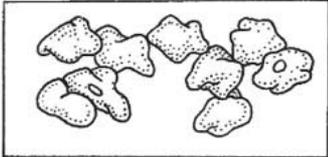
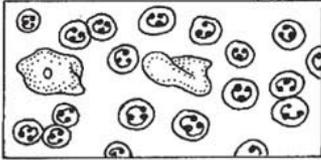
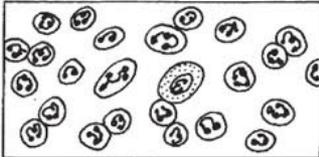
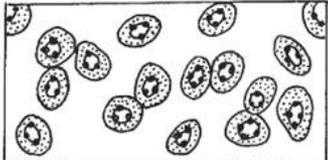
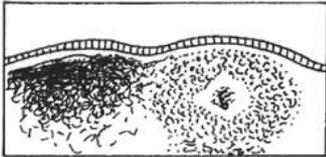
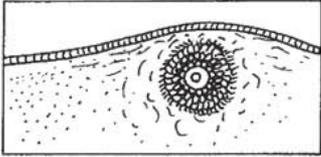
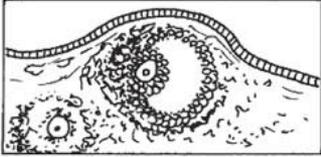
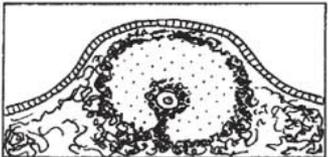
- fim: ↓ estrógeno e progesterona

# Variações hormonais durante o ciclo estral de rata



**Importantes alterações na mucosa vaginal**  
**Esfregaço vaginal (HE) de rata nas fases do ciclo estral**

# Estruturas ovarianas e citologia vaginal

Time of day	1400	1400	1400	1400–1800
Hours after ovulation	12	36	60	84–88
	Estrus	Metestrus	Diestrus	Proestrus
Vaginal lavage				
Follicular development	Primary corpus luteum 	Primary follicle 	Secondary follicle 	Graafian follicle 
Sexual behavior	—	—	—	+

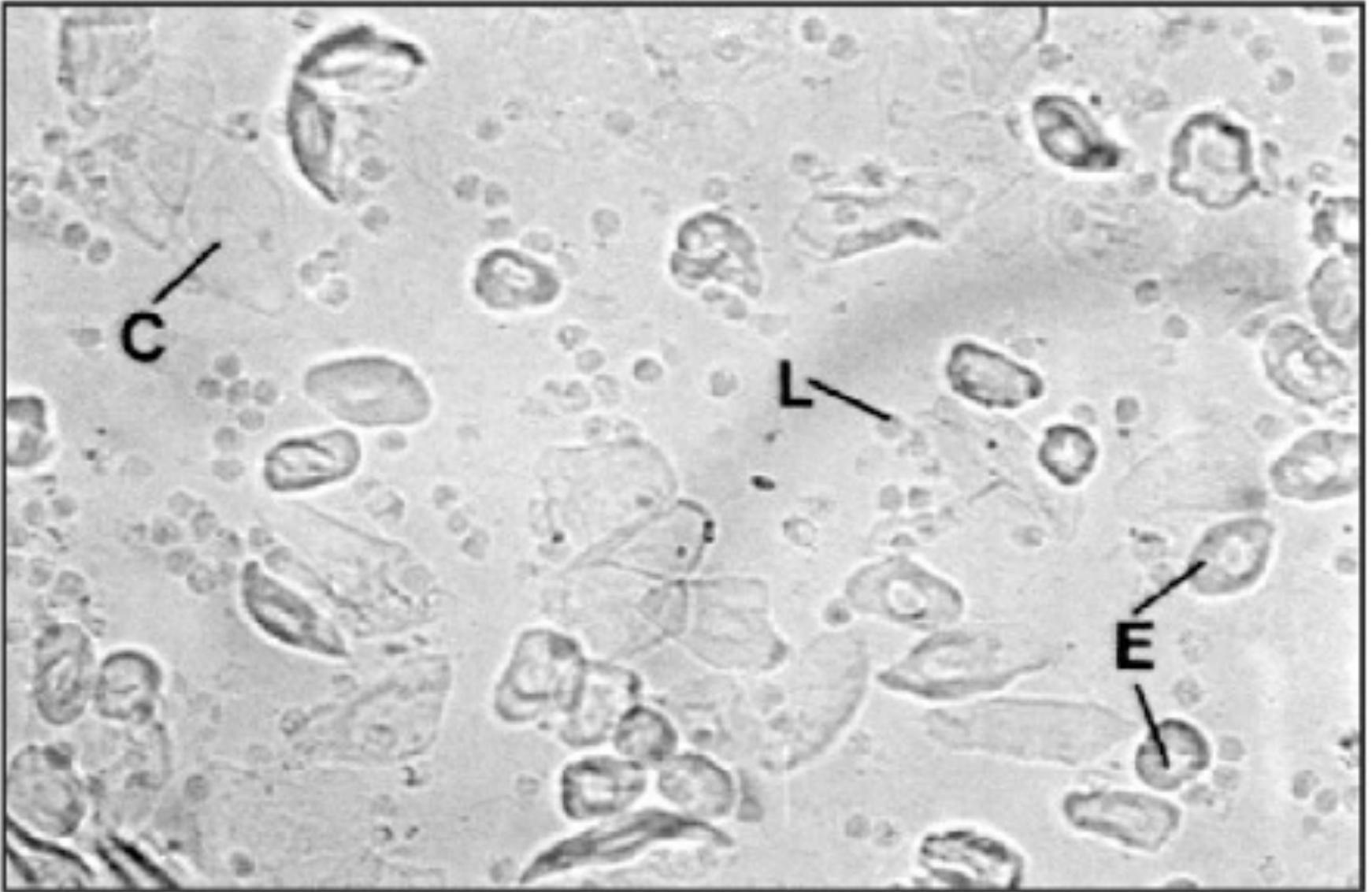
## ***Proestro – predominância de células epiteliais nucleadas***



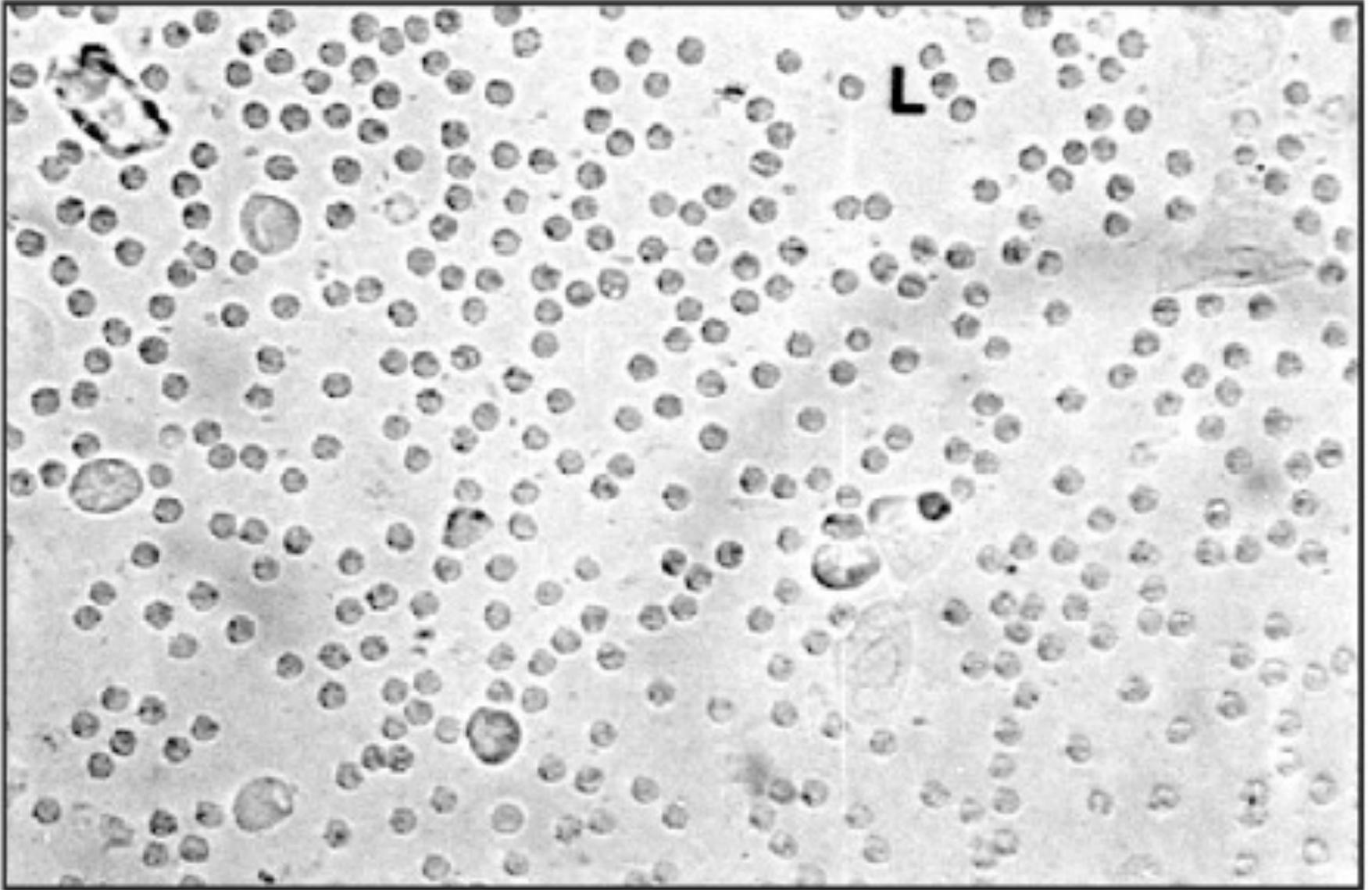
## ***Estro - células cornificadas anucleadas***



**Metaestro – leucocitos, células epiteliais nucleadas e cornificadas**



## *Diestrio – predominancia de leucócitos*



Fases: \_\_\_\_\_

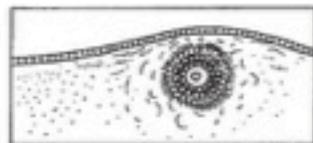
Primary follicle

Secondary follicle

Graafian follicle

Primary corpus luteum

Follicular development



Sexual behavior

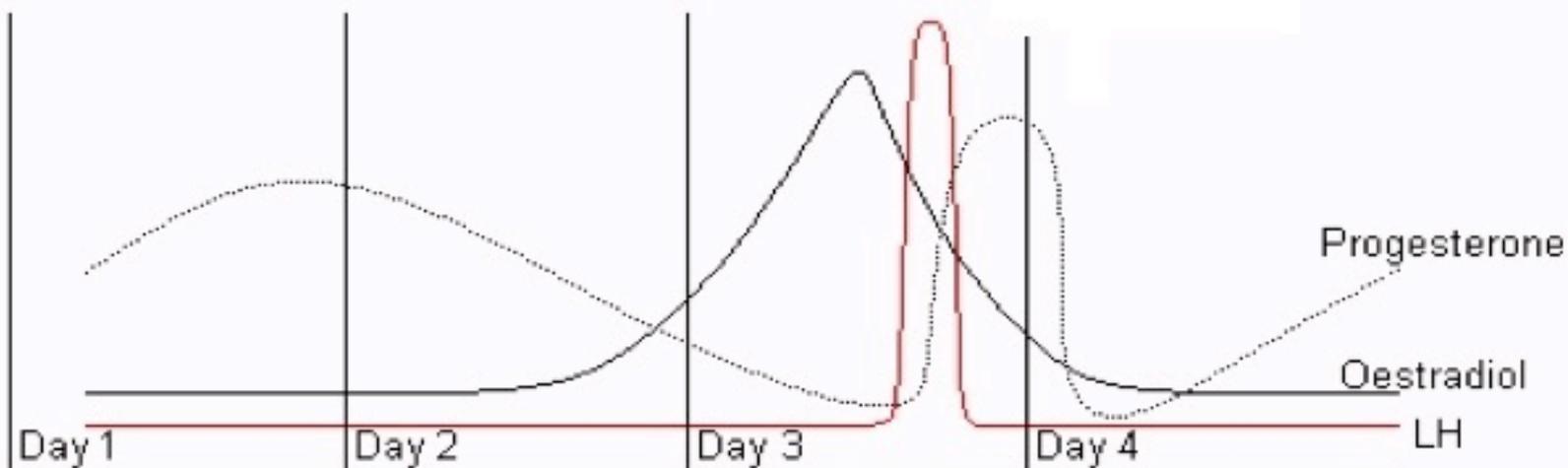
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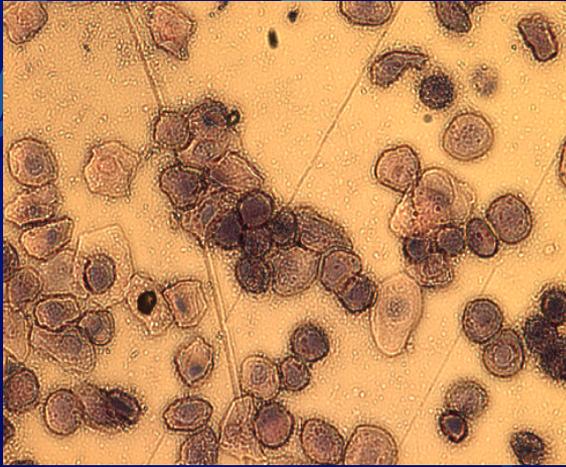
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Níveis hormonais plasmáticos

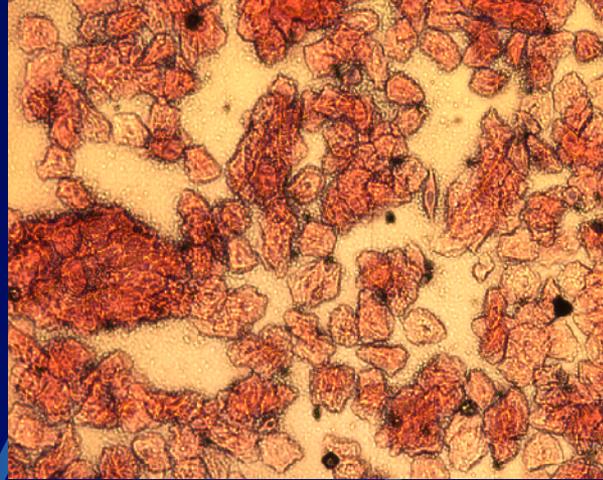


Esfregaço Vaginal: \_\_\_\_\_

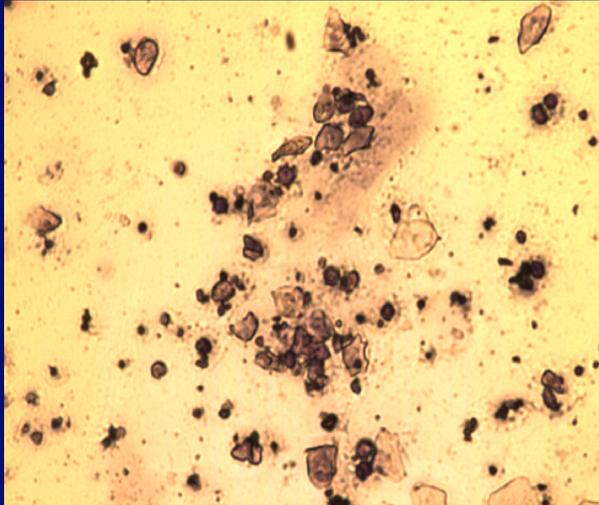
Próestro



Estro



Metaestro



Diestro

