



 @fgrandi83
 @vetschoolsp

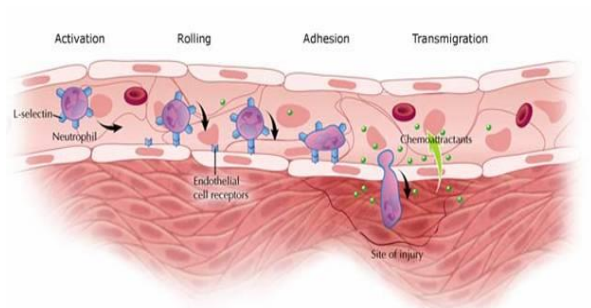
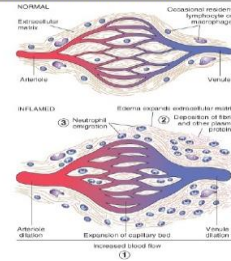
Padrões citológicos das inflamações

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Robbins, 2016

Vascular changes play an important role during acute inflammation (begin early after injury and depends upon the severity of the injury)

- **Vasodilation**, leads to increased blood flow causing redness and warmth (rubor and calor)
- **Increased Permeability**, leads to exudation of protein rich fluid into the extravascular space causing swelling (tumor)
- **Loss of fluid from the vessels** leads to **Concentration of red cells** resulting in decreased velocity and **stasis** of the blood flow
- **Leukocyte rolling, adhesion and migration** leads to the accumulation of inflammatory cells



Robbins, 2016

Padrão supurativo/neutrofílico/agudo

- Predomínio de neutrófilos (>90%)
- Fase aguda da inflamação
- Mais comum (95% dos casos)
- Principais causas
 - Infecções por bactérias cocóides e bastonetes



<http://www.vetnaus.com/diagnostic-tests-tips-from-the-dermatologist-4.html>

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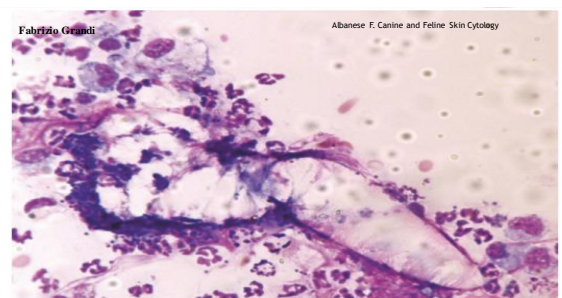
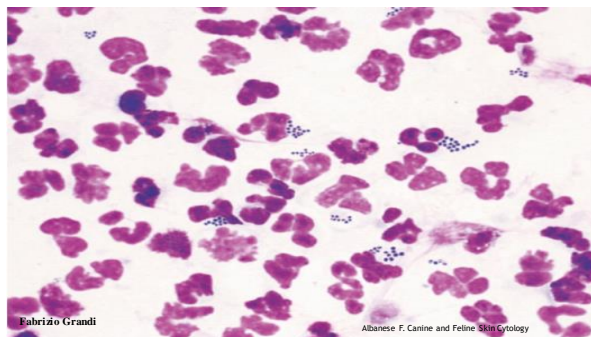
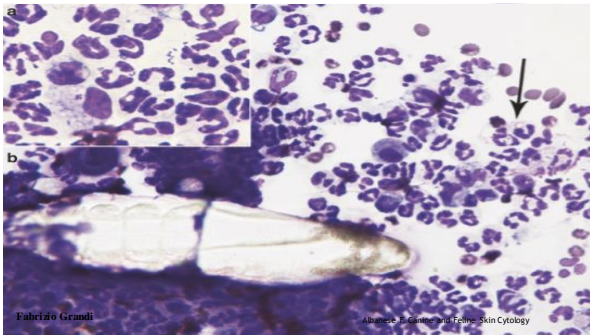


Fig. 3-28 Cytology of demodicosis: an adult *Demodex* surrounded by neutrophils and macrophages



- Supurativa séptica e não séptica
 - Sinais degenerativos (cariólise, cariorréxia, cariopícnose)
 - Sinais não-degenerativos

KARYOLYSIS

Nuclear fading

Chromatin dissolution due to action of DNAses & RNAses

PYKNOSIS

Nuclear shrinkage

DNA condenses into shrunken basophilic mass

KARYORRHESIS

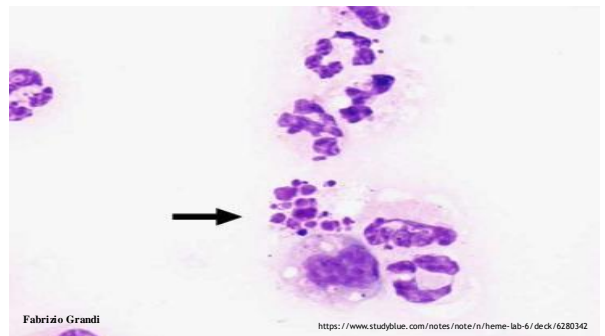
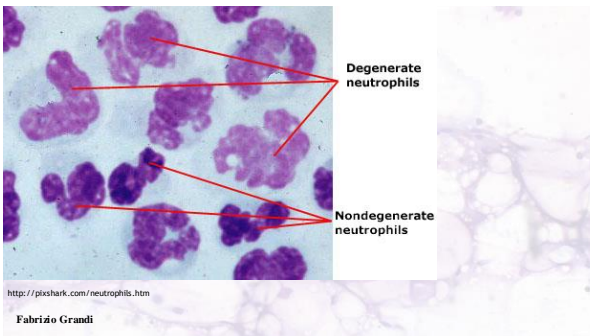
Nuclear fragmentation

Pyknotic nuclei membrane ruptures & nucleus undergoes fragmentation

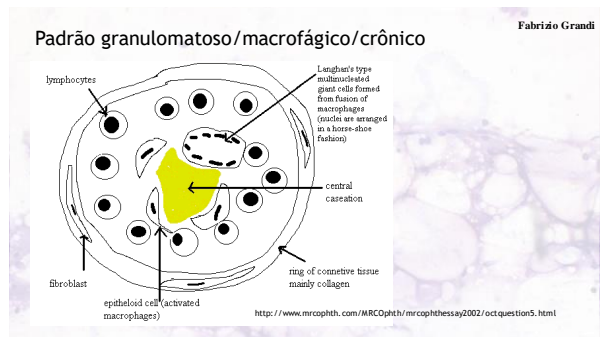
Nuclear dissolution

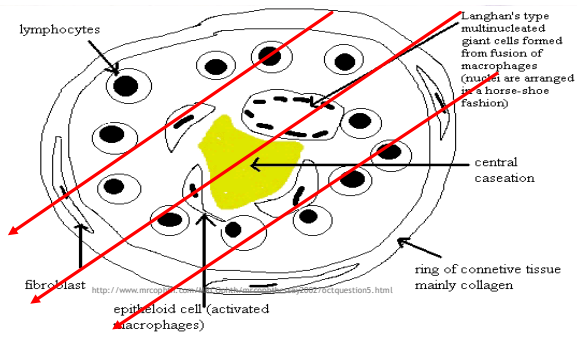
ANUCLEAR NECROTIC CELL <http://en.wikipedia.org/wiki/Pyknosis>

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- Outras causas
 - Dermatopatias alérgicas
 - Foliculites profundas (*Demodex* spp)
 - Acne felina
 - Paniculites
 - Lesão tumoral neoplásicas e não neoplásicas
 - Doenças imunes/auto-imunes
 - Pênfigo foliáceo
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- >25% de macrófagos
- 75% restante variável
- Neutrófilos não degenerados
- Eosinófilos
- Mastócitos
- Células gigantes multinucleadas

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