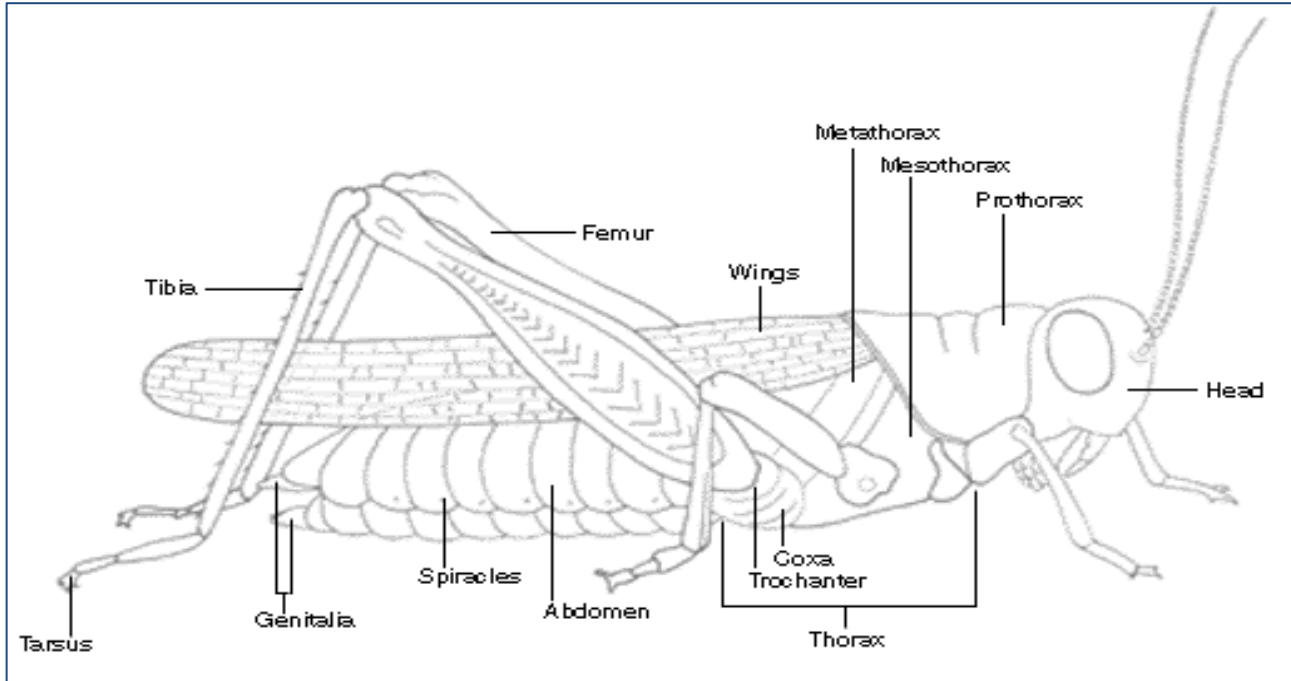


ENTOMOLOJİ

Artropodanın Dış Yapısı



http://www.amnh.org/learn/biodiversity_counts/ident_help/Parts_Arthropods/grasshopper.htm

- Anaç: Arthropoda

Anaç Bölümü: Diantennata

Sınıf: Crustacea

Dizi: Copepoda

Dizi: Decapoda

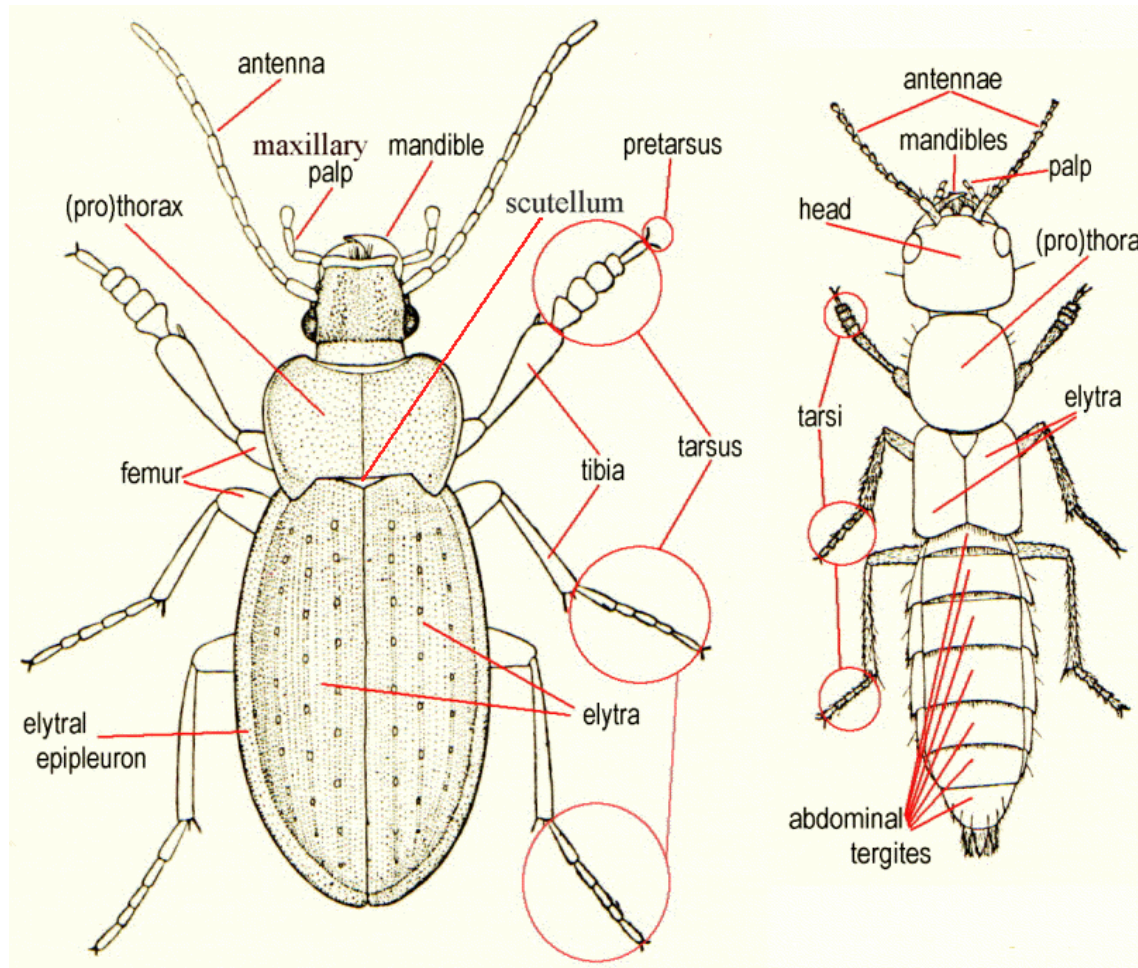
- Anaç Bölümü: Antennata

Sınıf: Progoneata

Sınıf: Opistogoneata

Sınıf: Insecta

Dizi: Blattaria



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Dizi: Phthiraptera

- Dizi Bölümü: Mallophaga (kıl, tüy ve yapağı yiyenler, yalancı bitler) hemimetaboldürler.

Mallophaga



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- Dizi Bölümü: *Anoplura* (kan emenler, hakiki bitler)

Baş öne doğru sivrilmiş olup, göğüsten küçüktür.

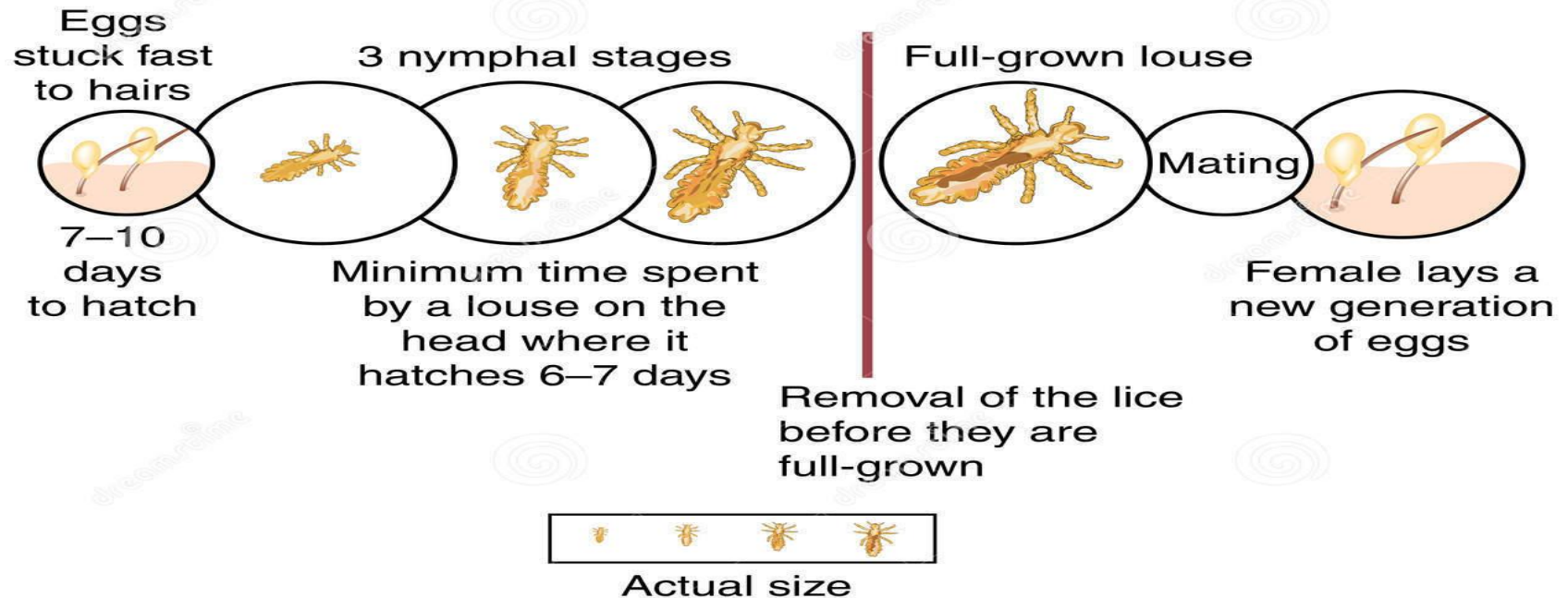
Anoplura



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Bitlerin yaşam siklusu

Breaking the life-cycle of the head louse



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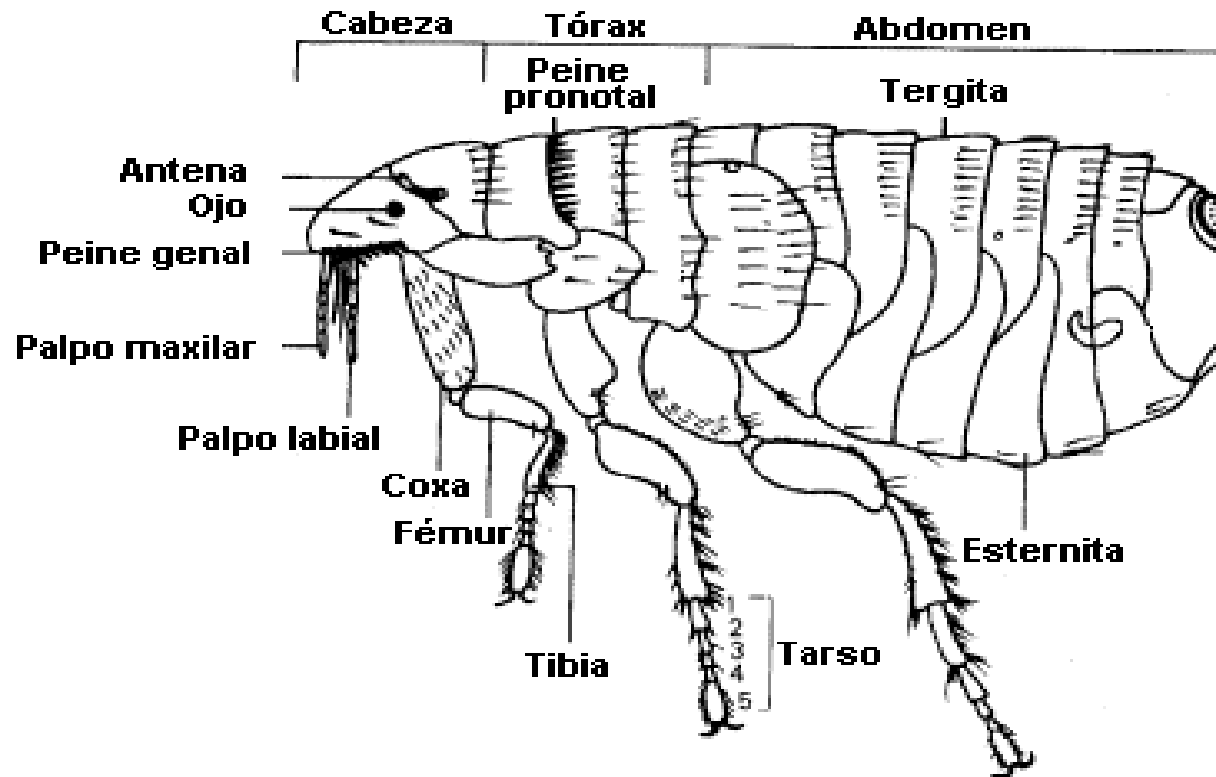
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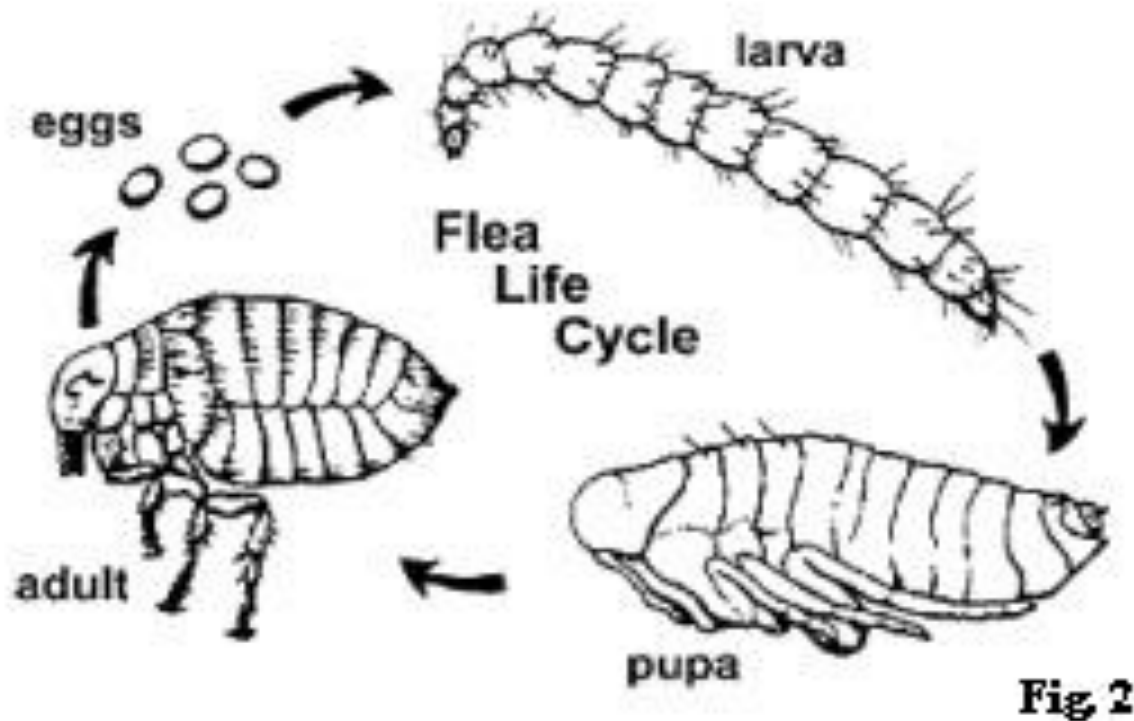
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Dizi: Siphonaptera



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Pirelerin yaşam siklusu



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Dizi: Heteroptera(tahta kuruları)

- Aile: Cimicidae

Soy: Cimex lectularis

- Aile: Reduviidae

Soy: Triatoma

Soy: Rhodnius

Soy: Panstrongylus

Reduviidae ailesindeki soylar Trypanosoma cruzi'nin neden olduğu “chagas” hastalığının vektörüdürler.

Dizi: Diptera

- Dizi Bölümü: Nematocera

- Aile: Ceratopogonidae

- Soy: Culicoides

- Aile: Simuliidae

- Soy: Simulium

- Aile: Phlebotomidae

- Soy: Phlebotomus

- Aile: Culicidae

- Alt Aile: Anophelinae

- Soy: Anopheles

- Alt Aile: Culicinae

- Soy: Aedes

- Soy: Culex

- Dizi Bölümü: Brachycera

- Bölüm: Orthorrhapha
 - Aile: Tabanidae
 - Soy: Tabanus
 - Soy: Chrysops
- Bölüm: Cyclorrhapha
 - Aile: Calliphoridae
 - Aile: Sarcophagidae
 - Aile: Hypodermatidae
 - Aile: Oestridae
 - Aile: Gasterophilidae
 - Aile: Glossinidae
 - Aile: Muscidae
 - Seksiyon: Pupipara
 - Aile: Hippoboscidae

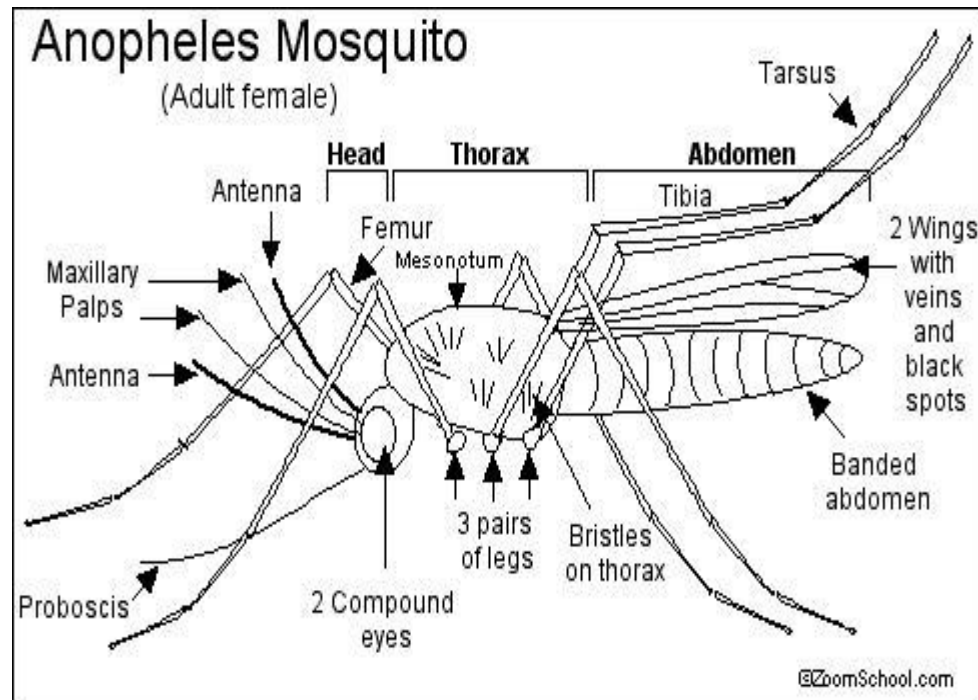
Phlebotomus



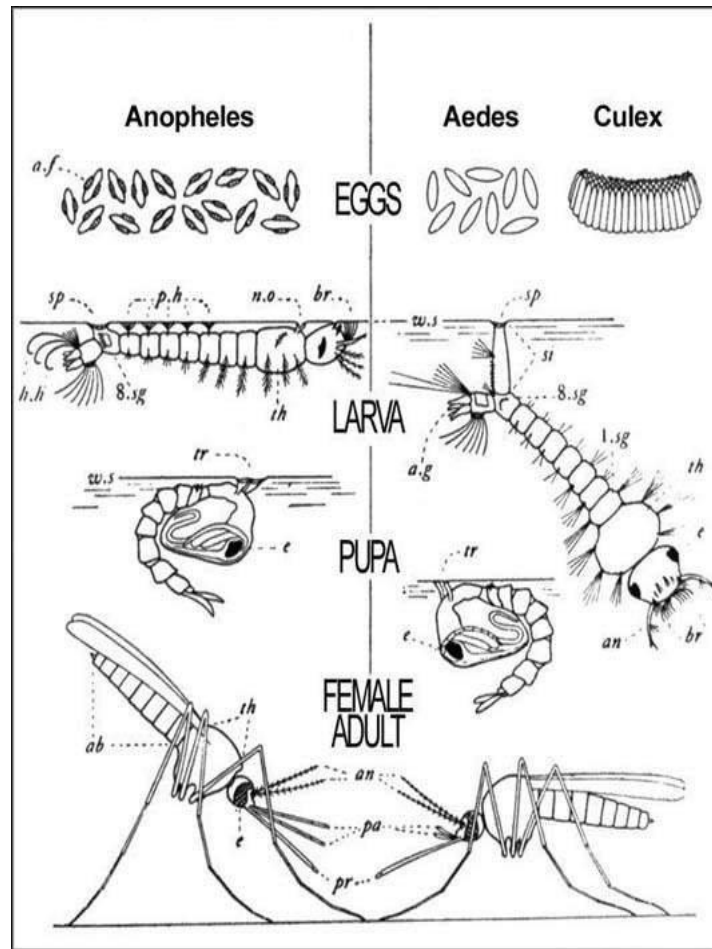
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- Halk arasında “tatarcık” veya “yakarca” olarak bilinen ***Phlebotomus***’lar ***Leishmania tropica***, ***L. donovani*** ve ***L. braziliensis***’e vektörlük yaparlar.

Anopheles

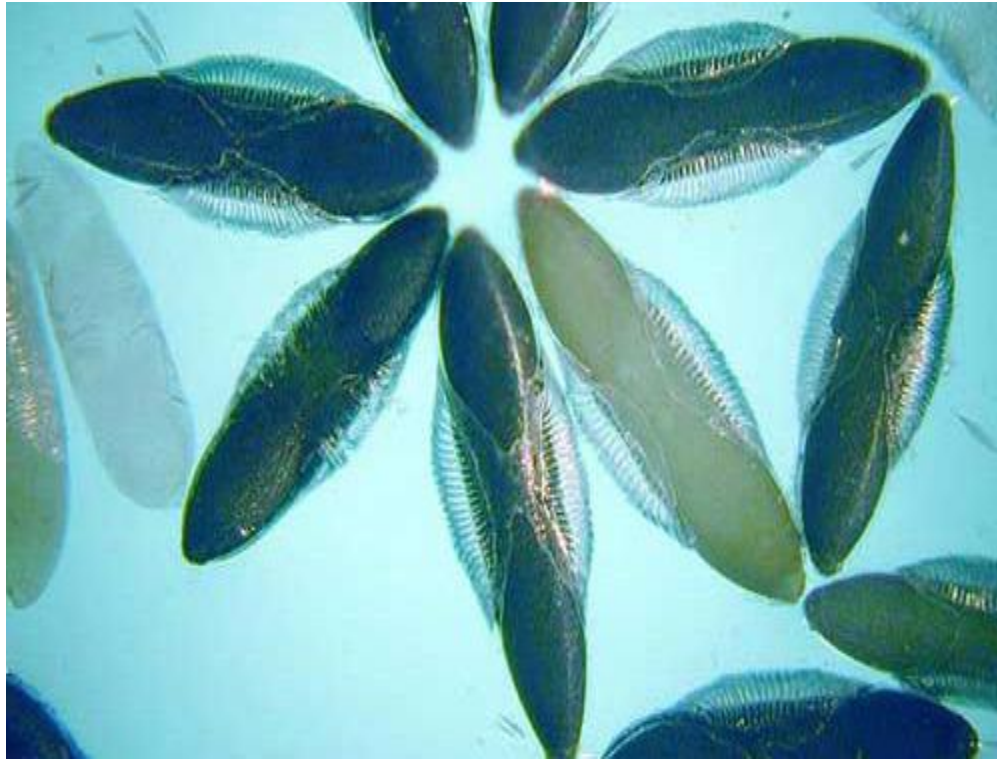


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Chief distinguishing features of Anophelines and Culicines; *a.f.*, air floats; *a.g.*, anal gills; *ab.*, abdomen; *an.*, antenna; *br.*, mouth brush; *e.*, eye; *h.h.*, hooked (or grapnel) hairs; *n.o.*, notched organ; *pa.*, maxillary palp; *p.h.*, palmate (or float) hairs; *pr.*, proboscis; *1.sg.*, 1st abdominal segment; *8.sg.*, 8th abdominal segment; *sl.*, siphon; *sp.*, spiracles; *th.*, thorax; *tr.*, respiratory trumpets; *w.s.*, water surface.

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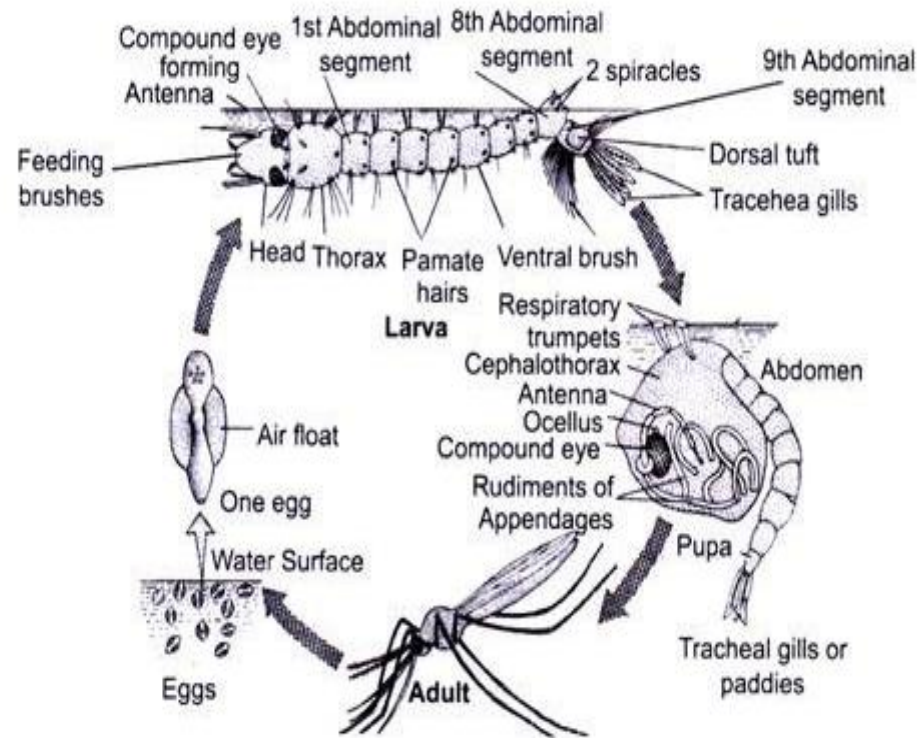


Fig. 8.7. Life cycle of *Anopheles*

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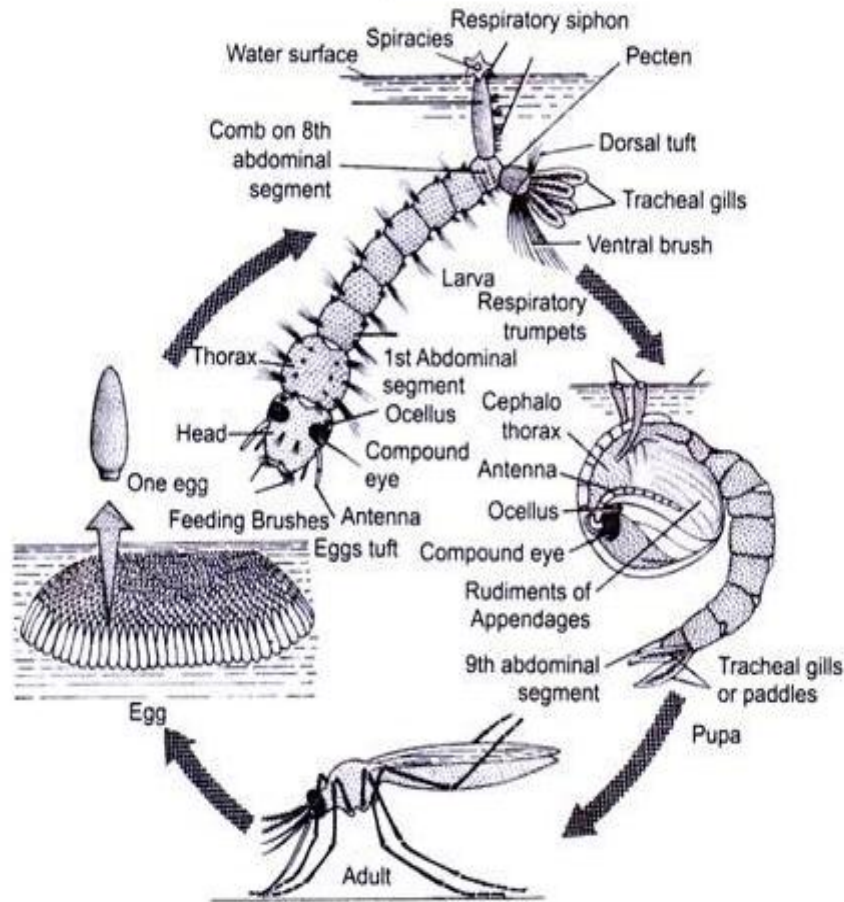


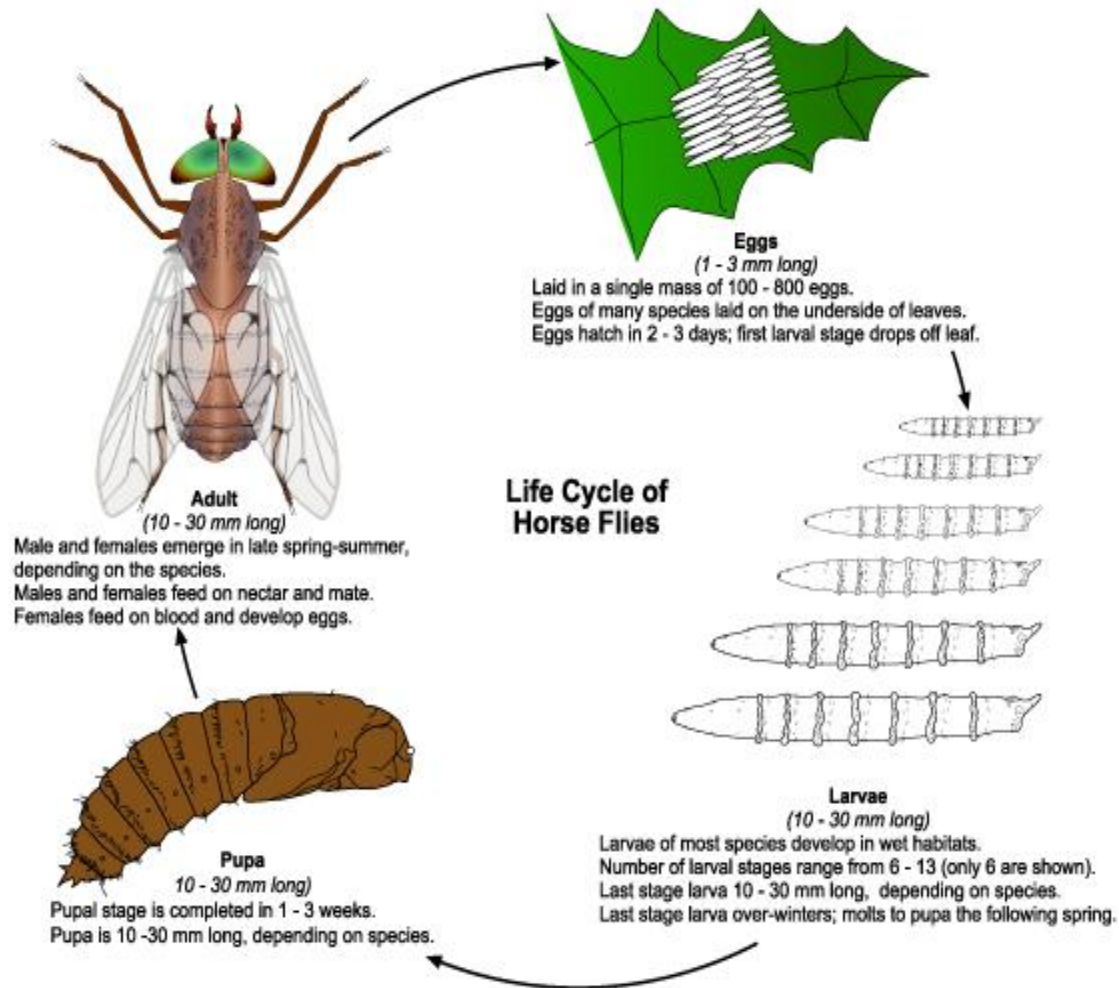
Fig. 8.8. Life cycle of *Culex*

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Tabanus



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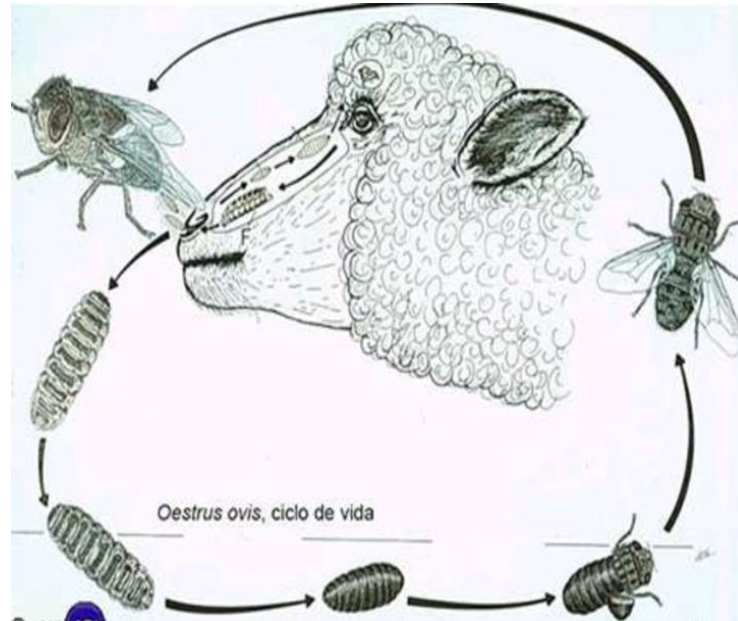


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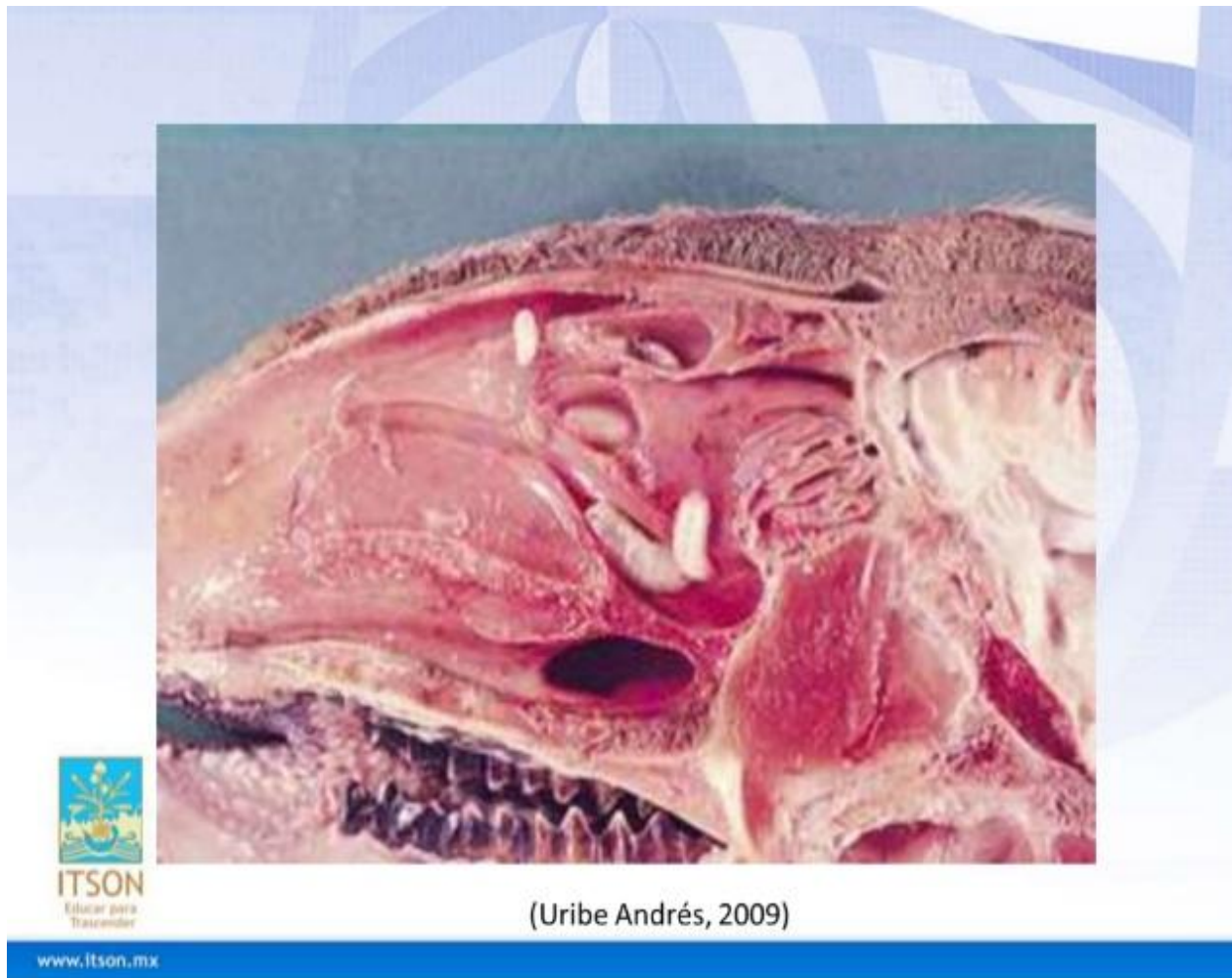
Myiasis

- Sinek larvalarının insan ve hayvanlarda oluşturdukları yaralara “myiasis” veya “miyaz” adı verilir.

Oestrus ovis



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Fig. 4



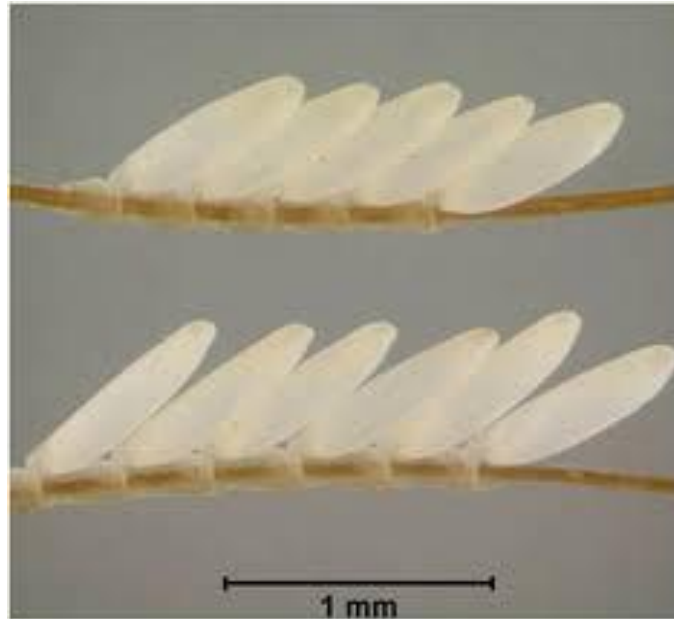
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Hypoderma bovis

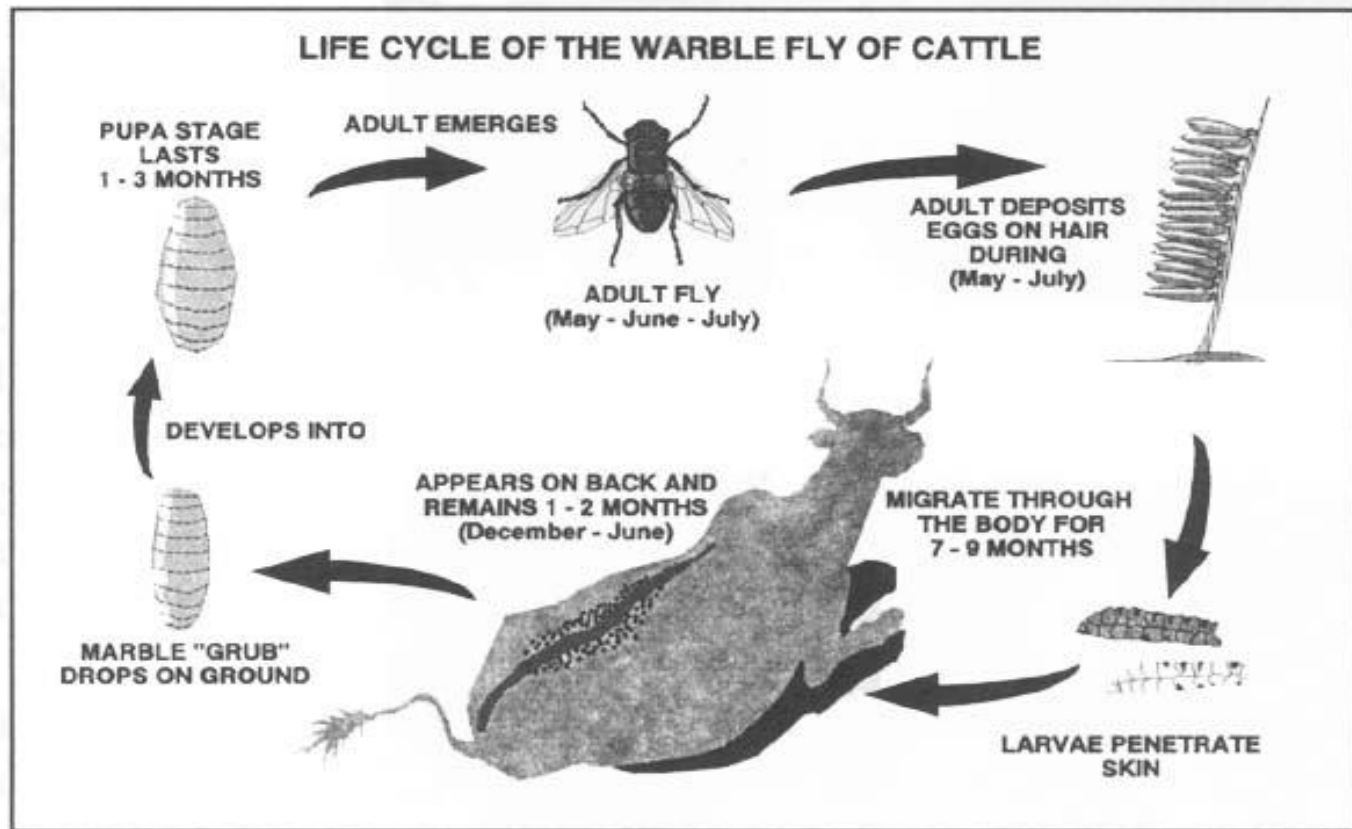


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H. lineatum yumurtaları

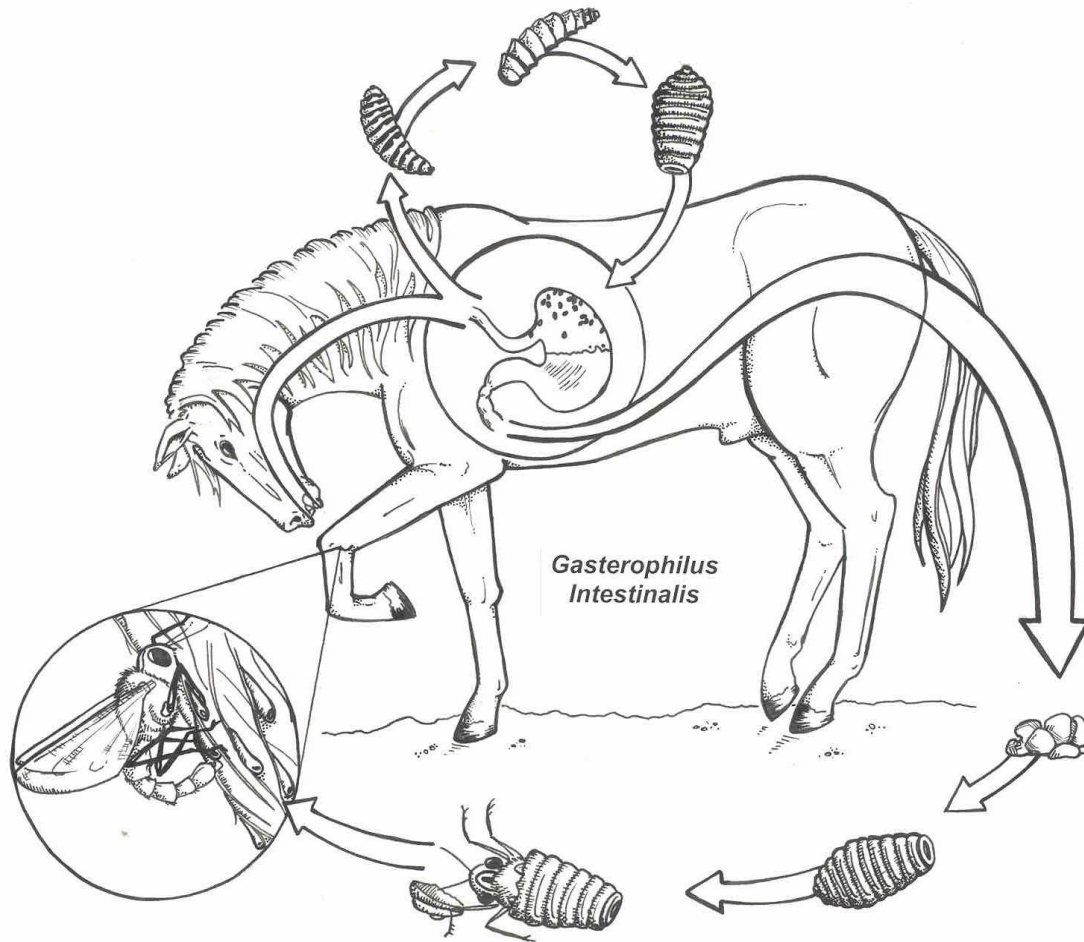


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Gasterophilus



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Gasterophilus intestinalis



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Glossina morsitans



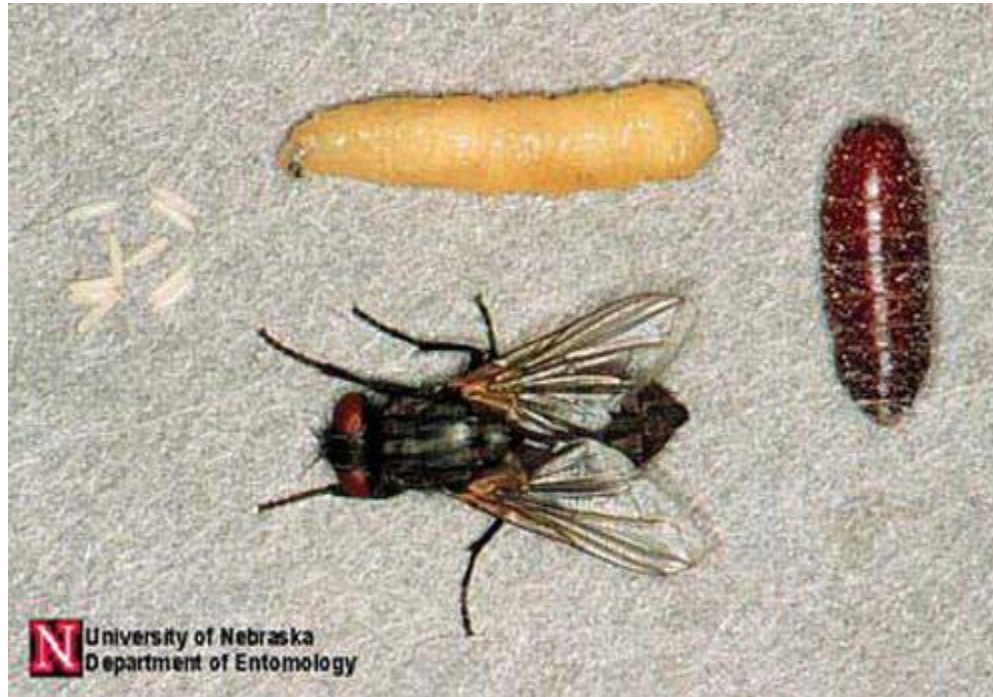
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Musca domestica



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Musca domestica



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Hippobosca equina



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Melophagus ovinus



FIGURE 17.5 Sheep ked, *Melophagus ovinus* (Hippoboscidae), female, dorsal view. (Courtesy of Cornell University Agricultural Experiment Station.)

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M. ovinus ve pupası



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Anaç Bölümü: Chelicerata

- Sınıf: Arachnida

Dizi: Scorpionides

Dizi: Arenea

Dizi: Acarina

Scorpionides



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Arenea



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- Aile üstü: Metastigmata
- Aile üstü: Astigmata
- Aile üstü: Prostigmata
- Aile üstü: mezostigmata
- Aile üstü. Cryptostigmata

Dizi: Acarina

- Aile üstü: Metastigmata

Aile: Ixodidae

Aile: Argasidae

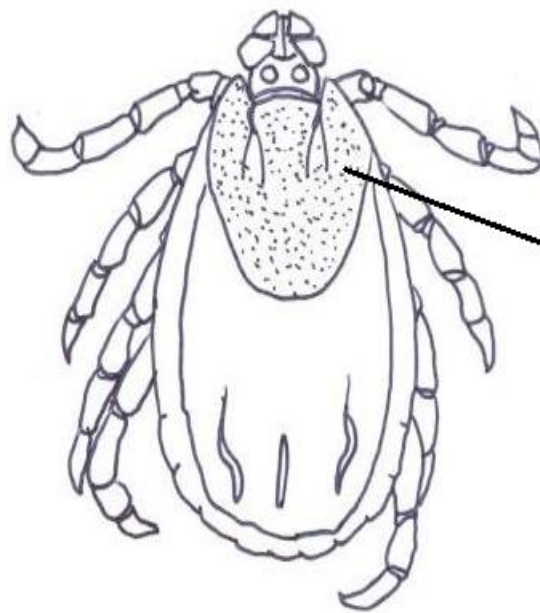
ixodidae



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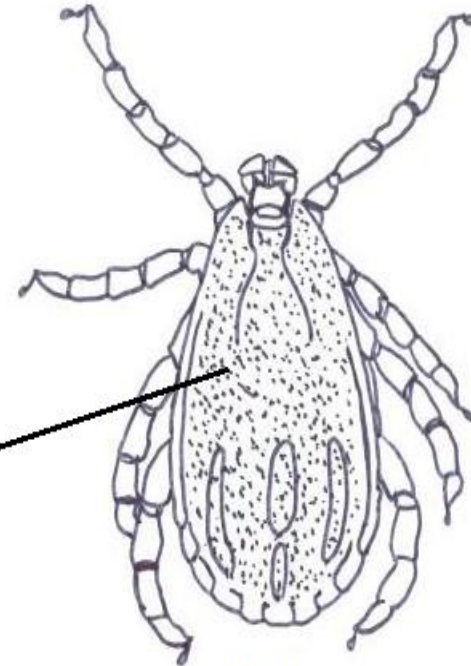


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Scutum

Female



Conscutum

Male

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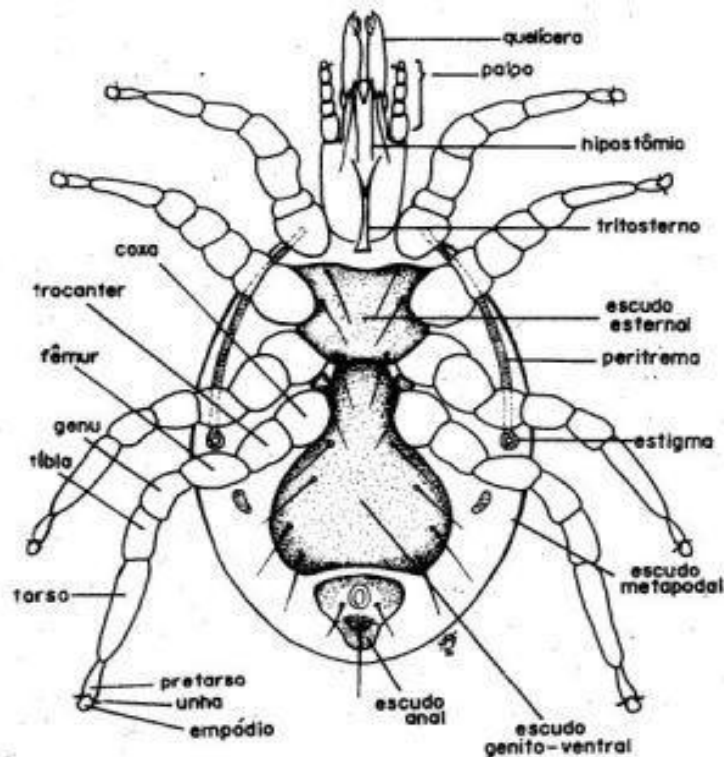
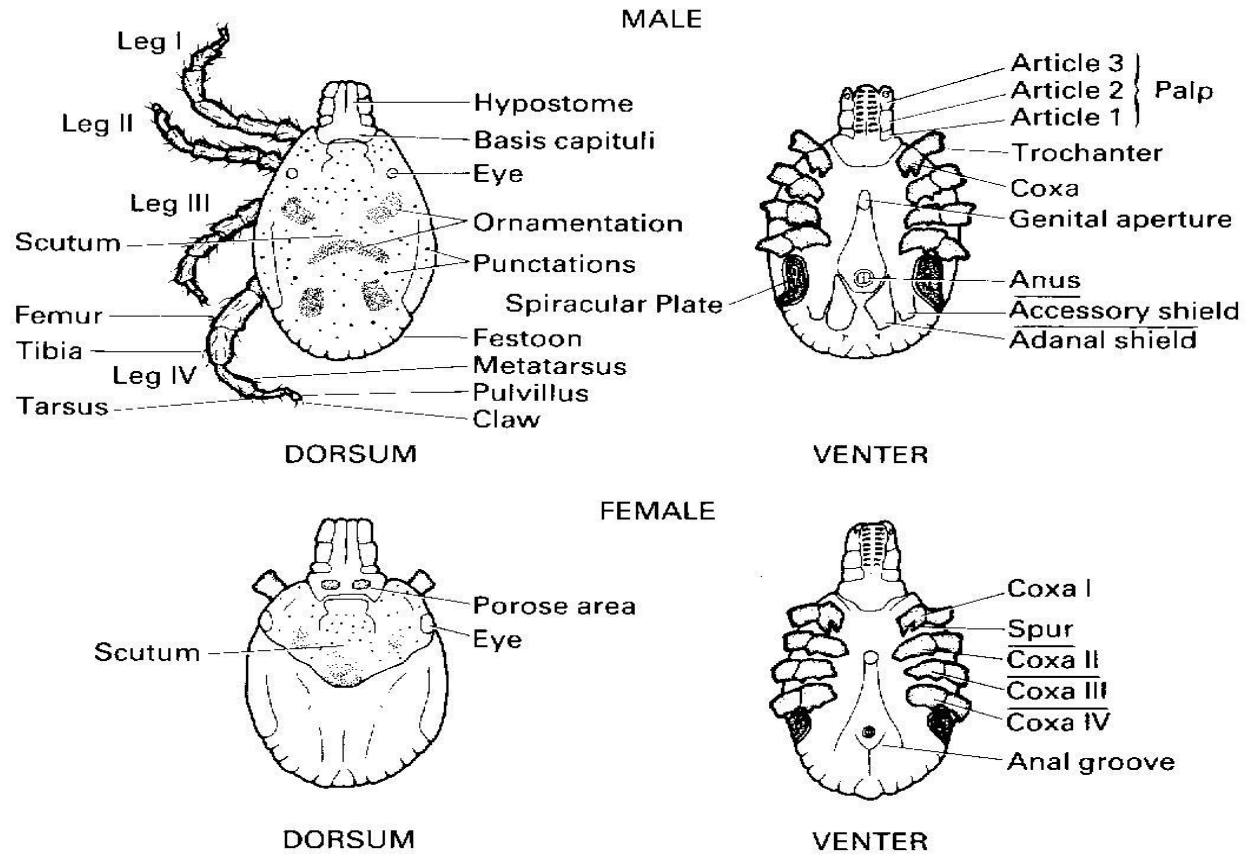


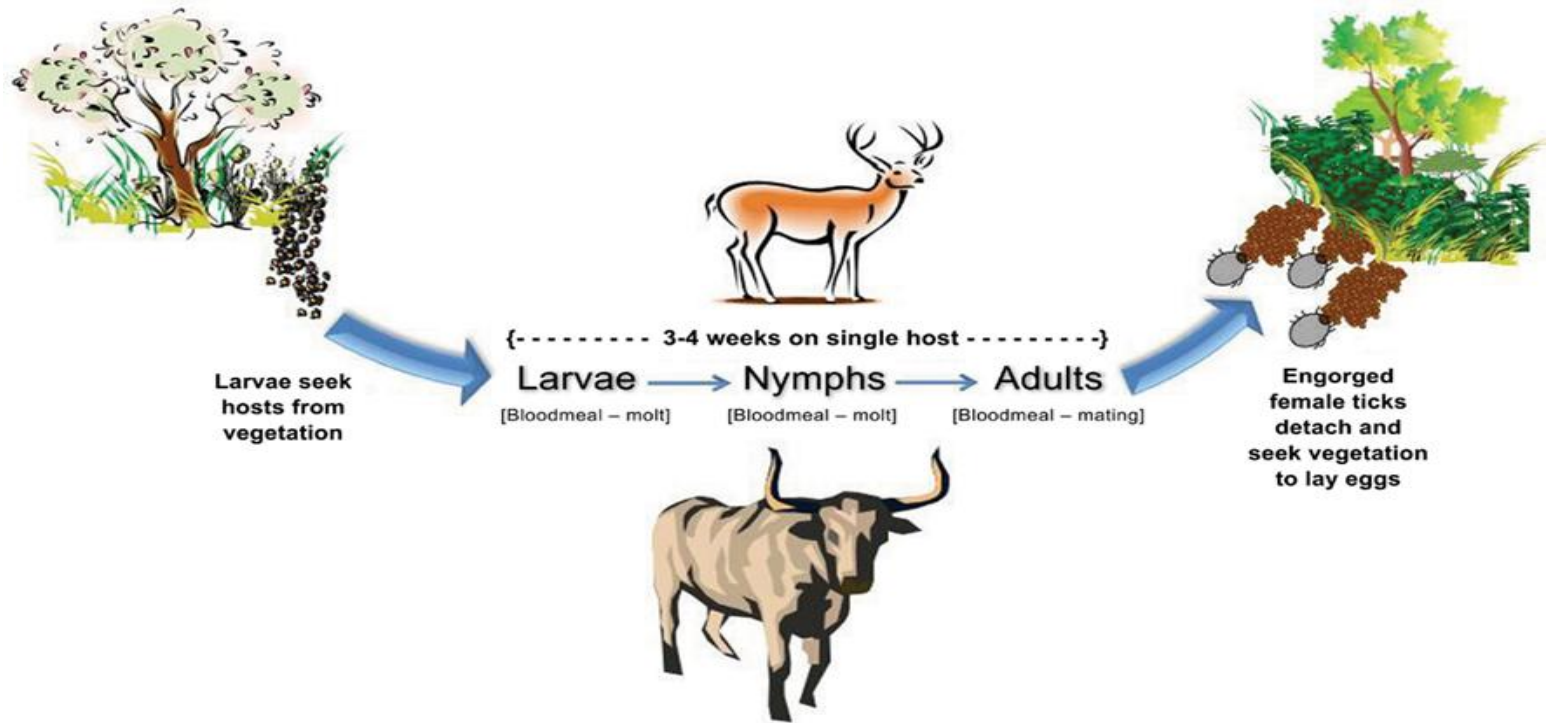
Figura 2 — Esquema de um ácaro Mesotigmata, em vista ventral, mostrando as principais estruturas. (redesenhado de PRATT, 1963).

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Bir Konaklı Kene



Typical one-host tick life cycle

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İki Konaklı Kene



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Üç Konaklı Kene



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- Bir konakçada gelişme Boophilus soyuna bağlı kene türlerinde görülür.
- İki konakçada gelişmeye, Hyalomma detritum ve Rhipicephalus türleri verilebilir.
- Üç konakçada gelişme, Ixodes, Dermacentor, Haemophysalis, Amblyomma türleri ile Rhipicephalus sanguineus, R. turanicus ve bazı Hyalomma türlerinde görülür.



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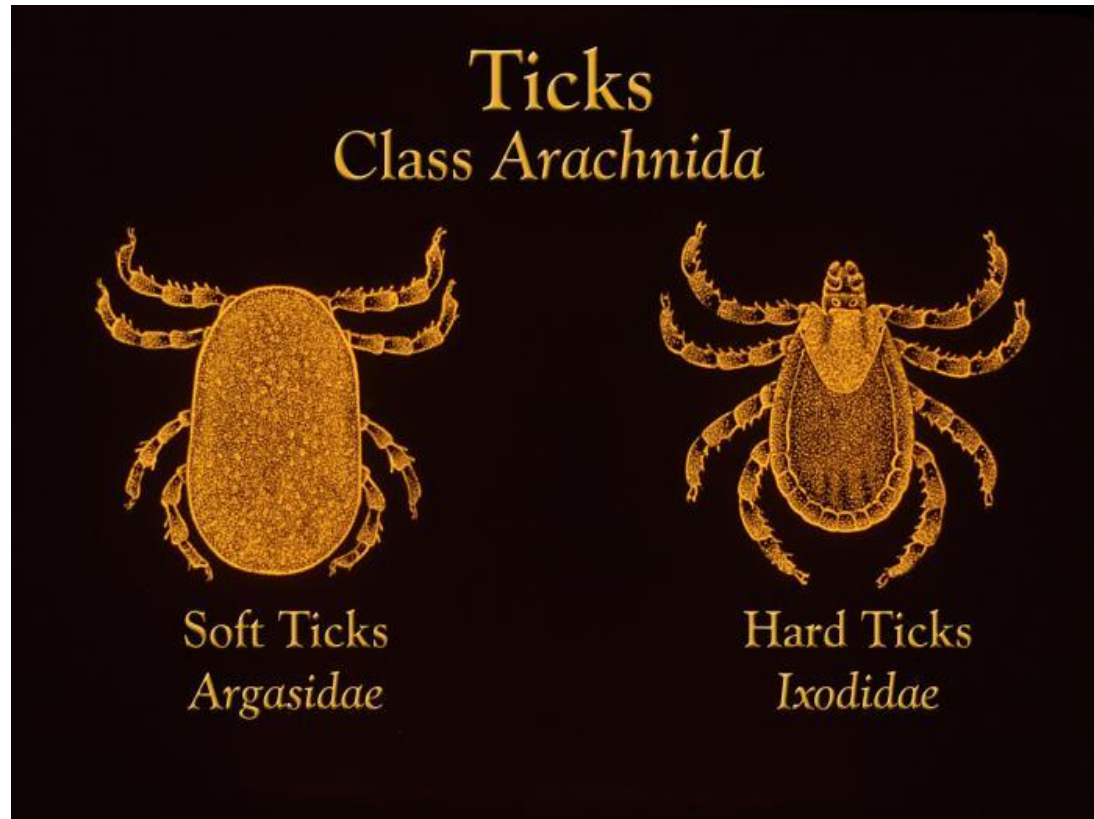


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Argasidae



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Ticks

Class *Arachnida* > Order: *Acarina* > Family: *Argasidae*

Suture Line is Present:

Argas



Sutural
Line

Suture Line is Absent:

Ornithodoros

Antricola

Otobius

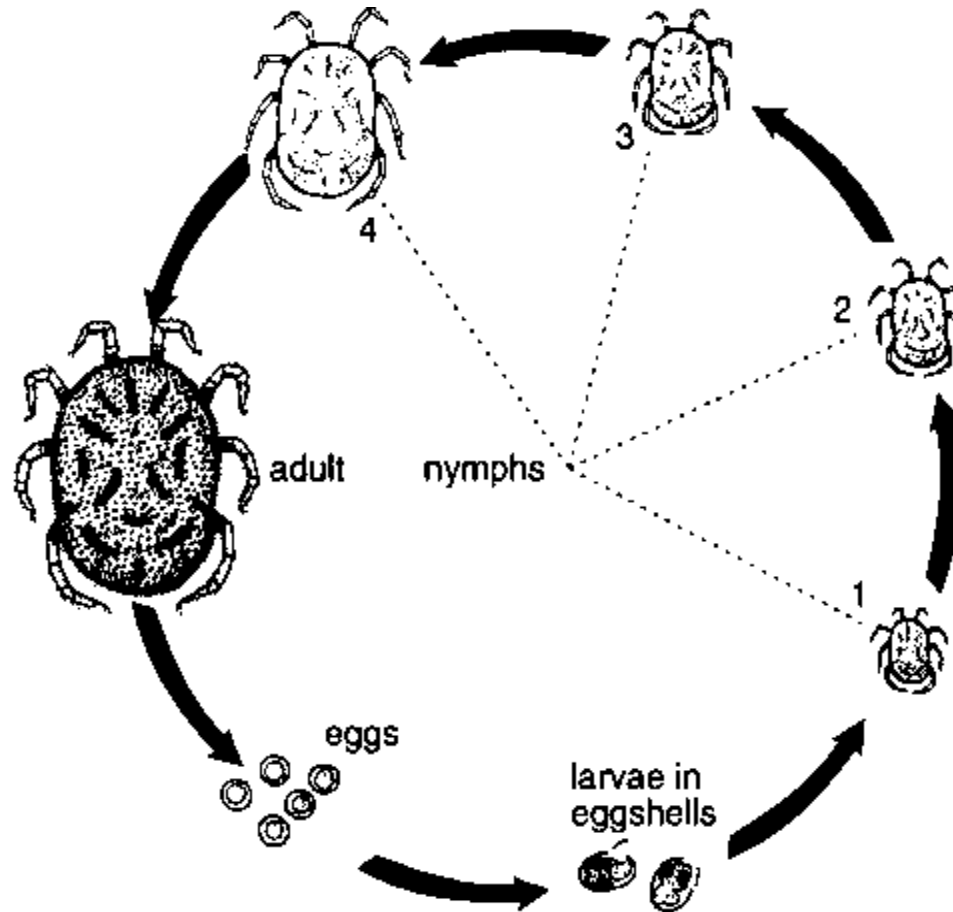
Rounded
Margin



Lateral View

TotallyFreeImages.com/1.22072

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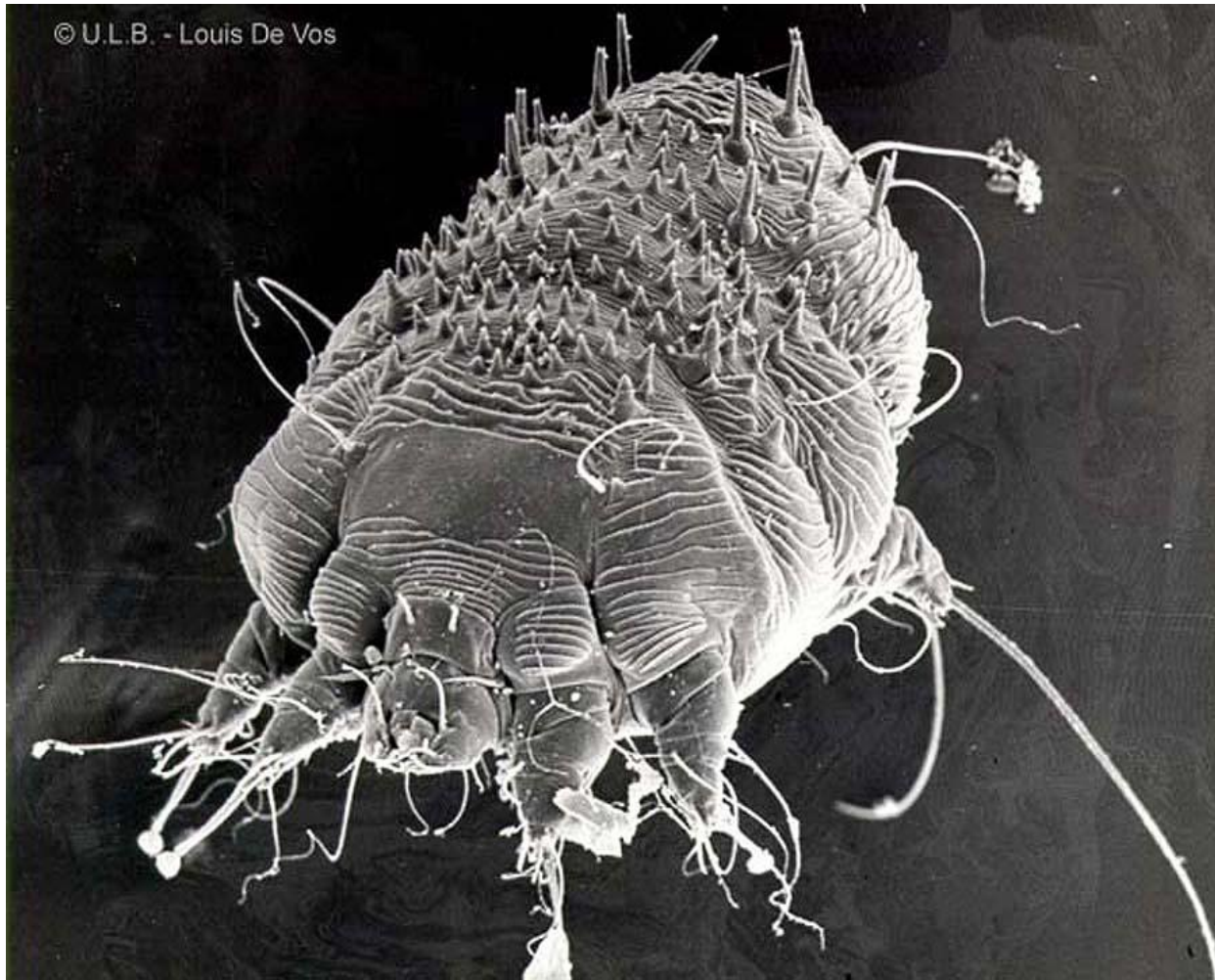
Otobius megnini



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- Aile üstü: Astigmata
 - Aile: Sarcoptidae
 - Soy: Sarcoptes
 - Soy: Notoedres
 - Aile: Psoroptidae
 - Soy: Psoroptes
 - Soy: Chorioptes
 - Soy: Otodectes
 - Aile: Cnemidocoptidae
 - Soy: Cnemidocoptes

Sarcoptes scabiei



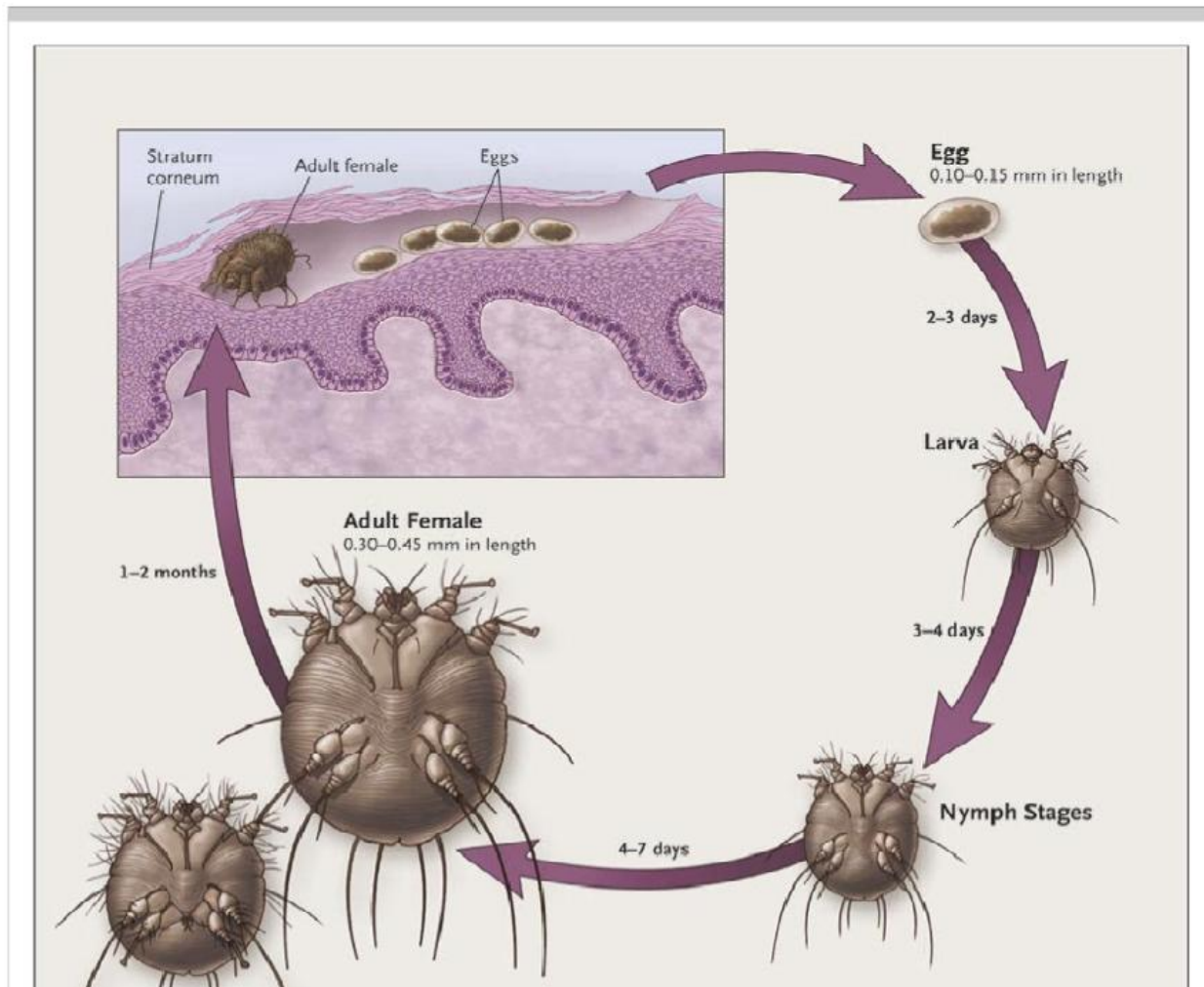
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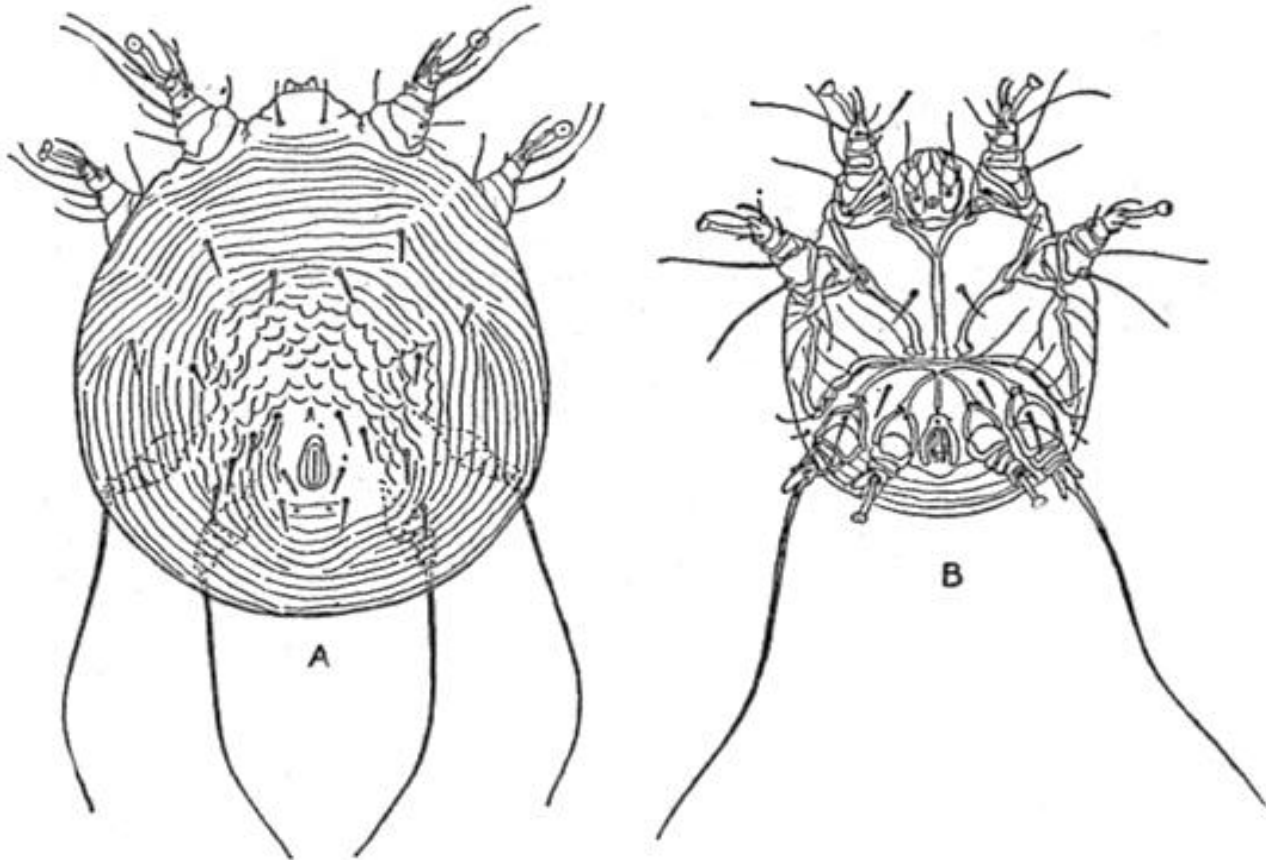


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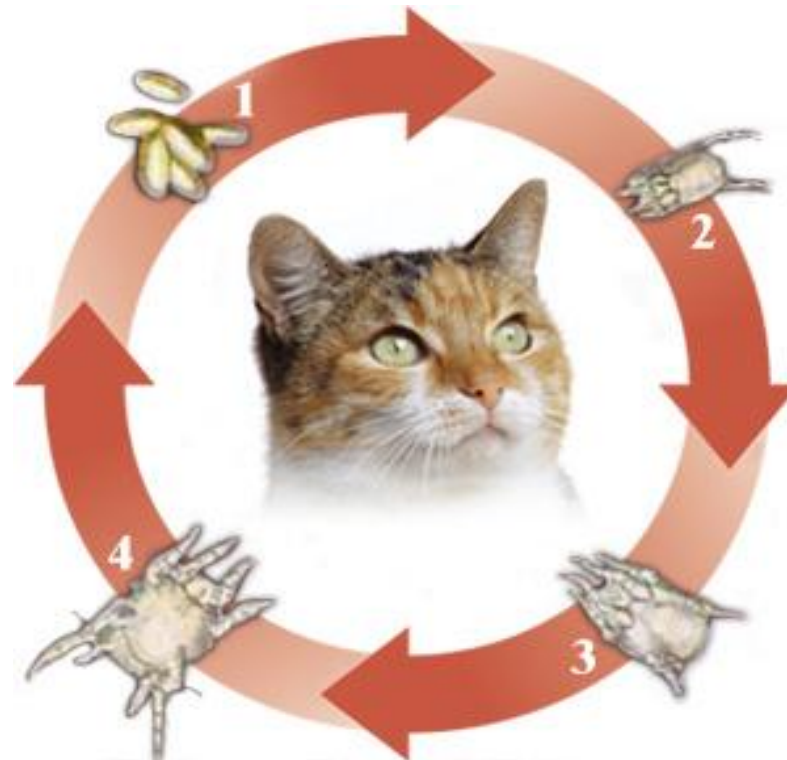
Notoedres cati



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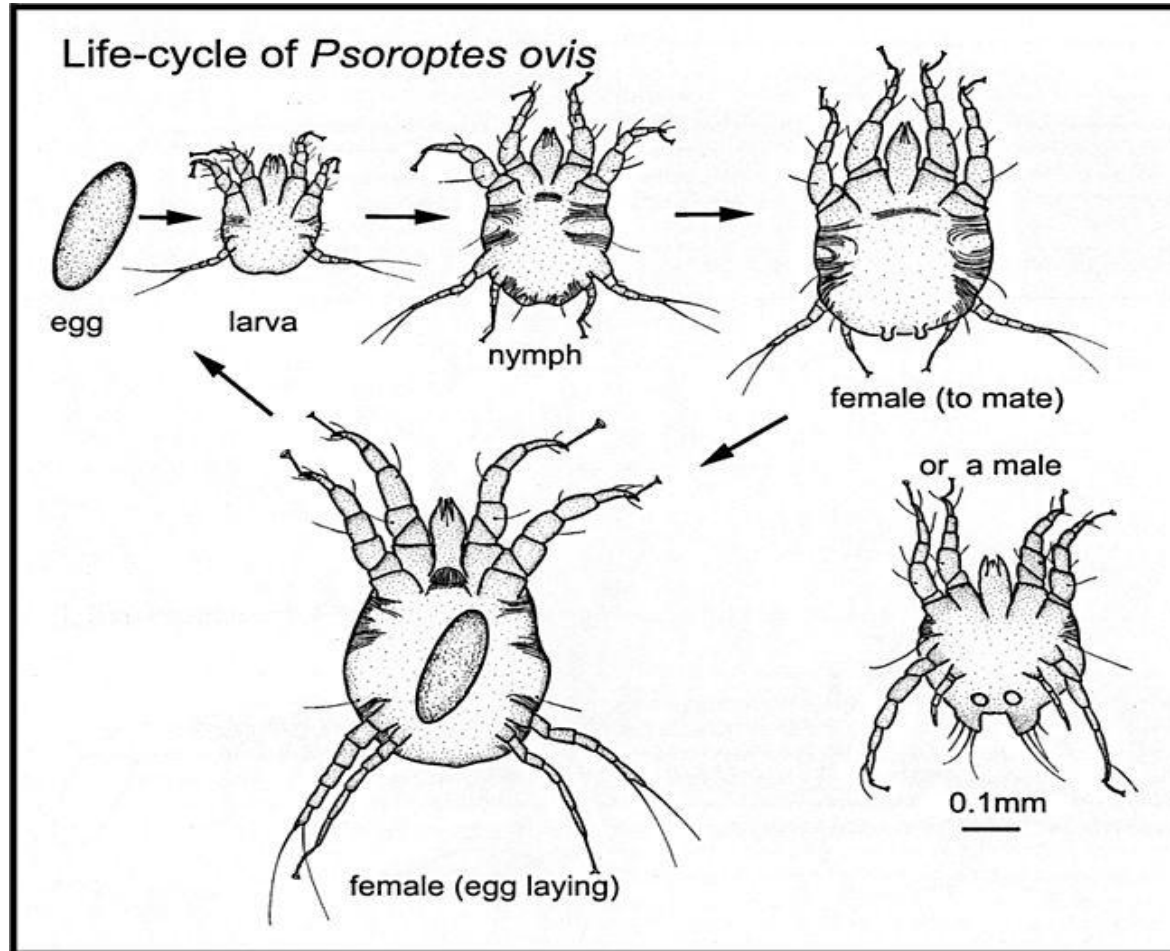
Psoroptes



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Chorioptes bovis



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Otodectes cynotis



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Cnemidocoptes mutans



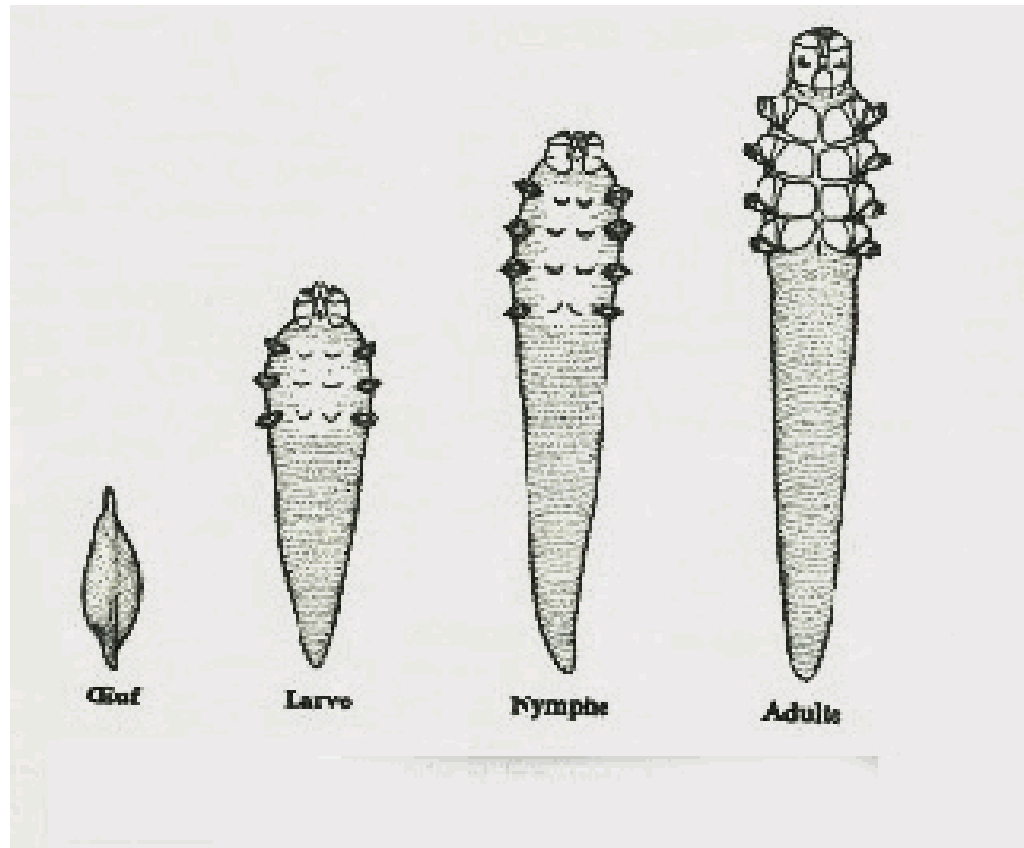
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- Aile üstü: Prostigmata
 - Aile: Demodicidae
 - Soy: Demodex
 - Aile: Trombiculidae
 - Aile: Pyemotidae
 - Soy: Pyemotes
 - Aile: Cheyletiellidae
 - Soy: Cheyletiella

Demodex canis



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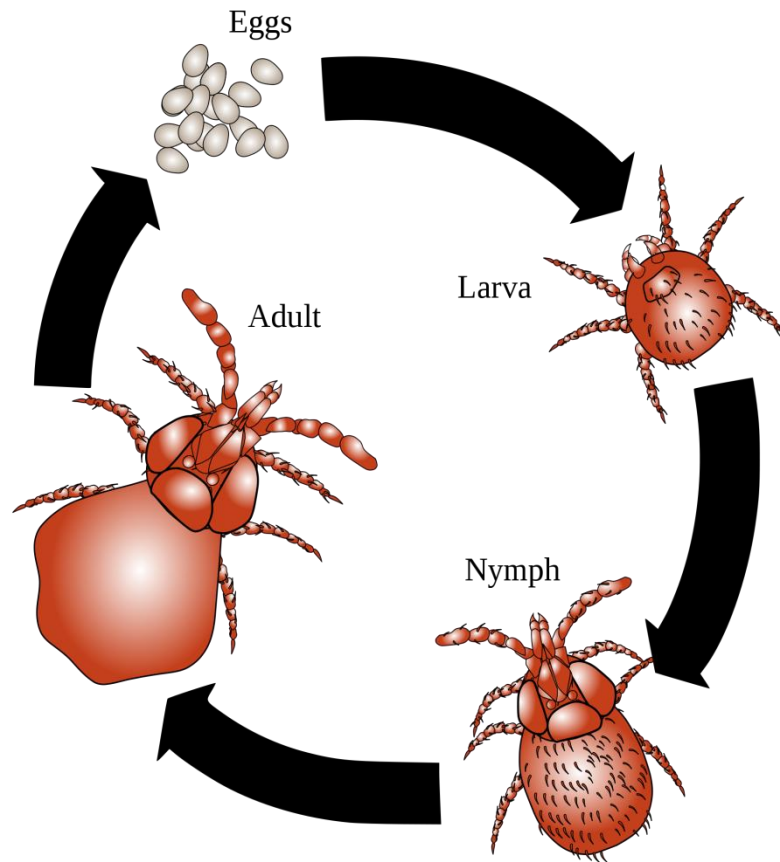
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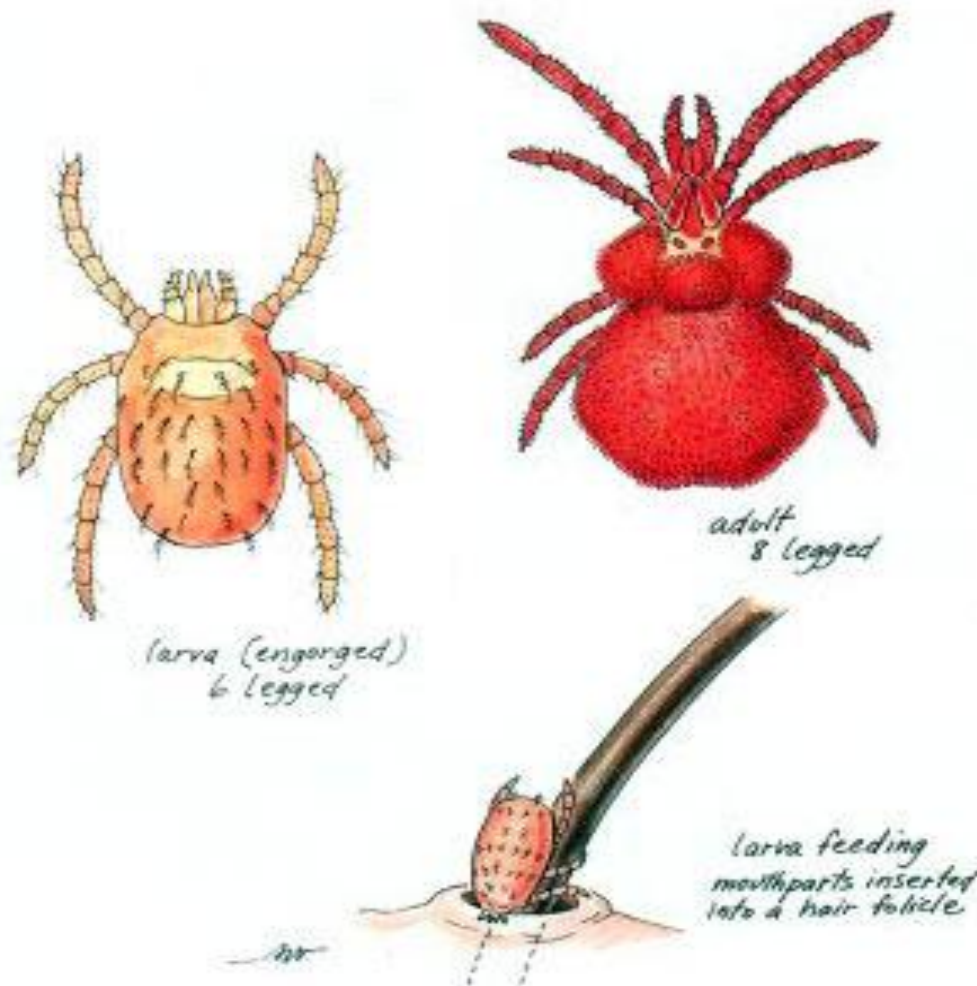
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Trombicula

Harvest Mite Life Cycle



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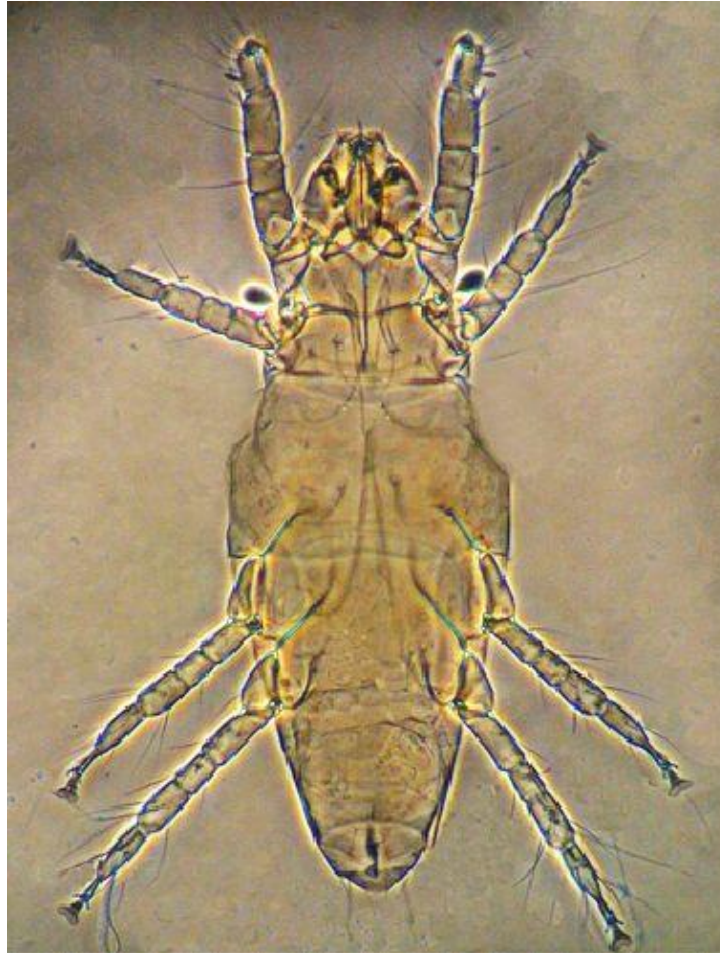


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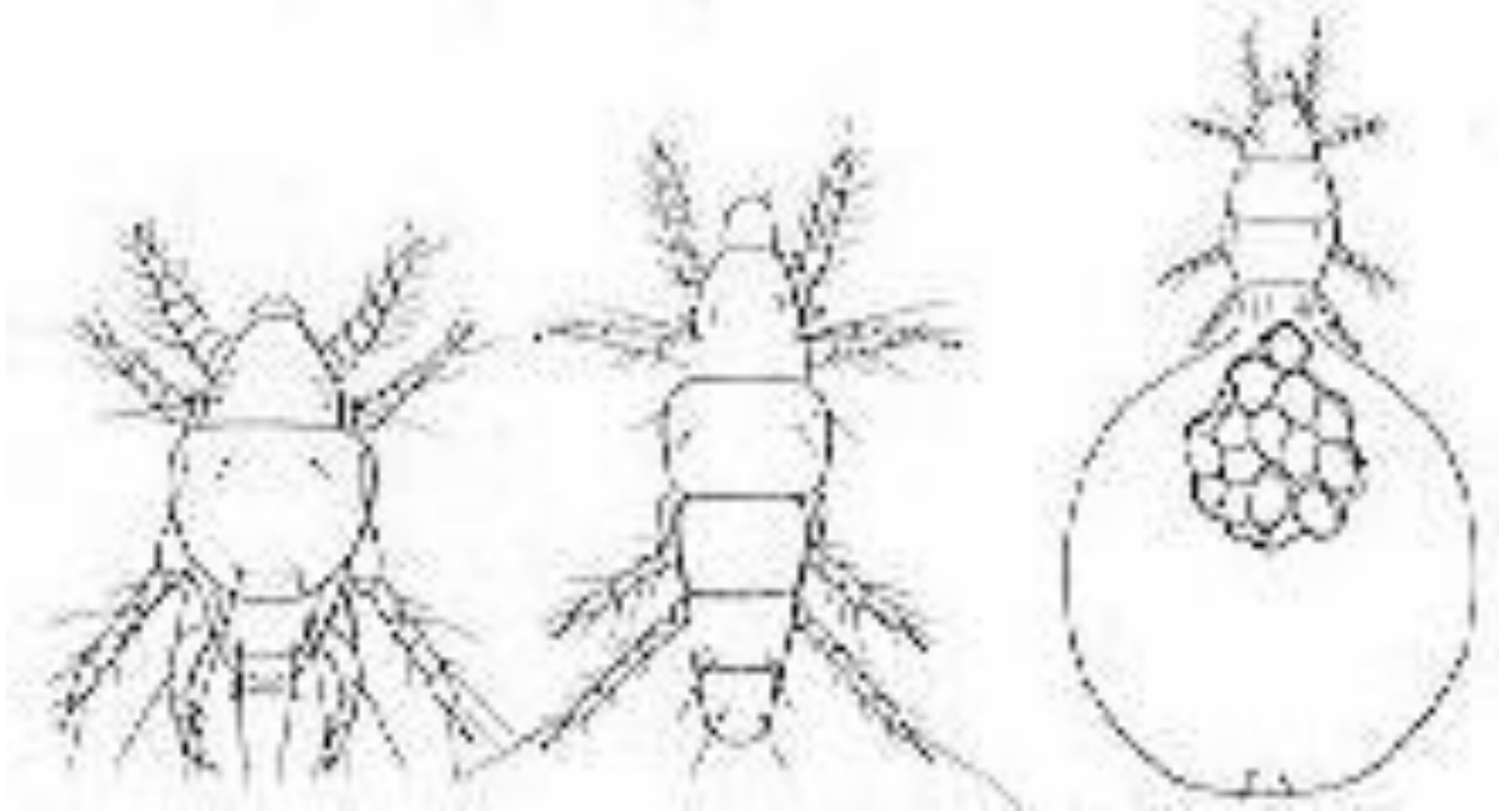
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Dişi *Pyemotes ventricosus*



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Erkek, diři ve gebe Pyemotes



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Cheyletiella



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- Aile üstü: Mesostigmata

Aile: Dermanyssidae

Soy: Dermanyssidae

Tür: *D. gallinae*

Soy: Ornithonyssus

Tür: *O. bacoti*

Dermanyssus gallinae



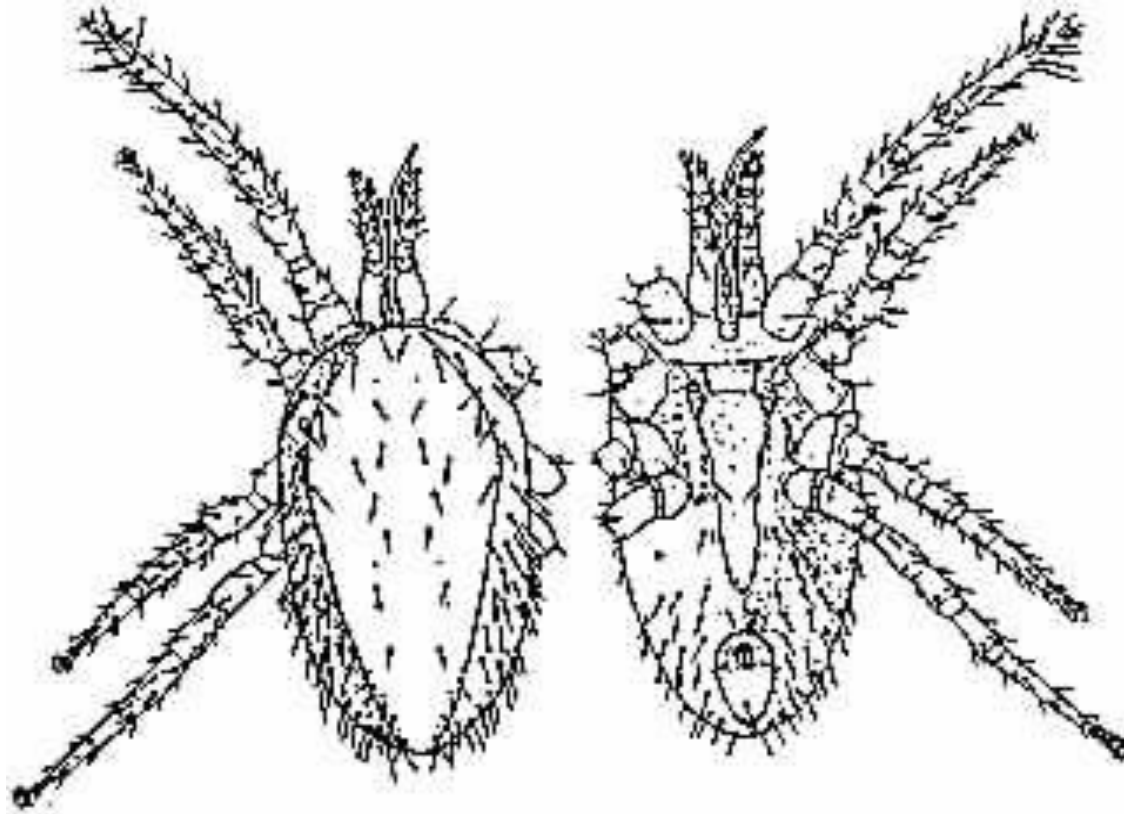
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Varroa jacobsoni



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Pupa üzerinde Varroa



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Aile üstü: Cryptostigmata



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