



# PRAKTIKUM PARASITOLOGI 3

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## PERTEMUAN 8

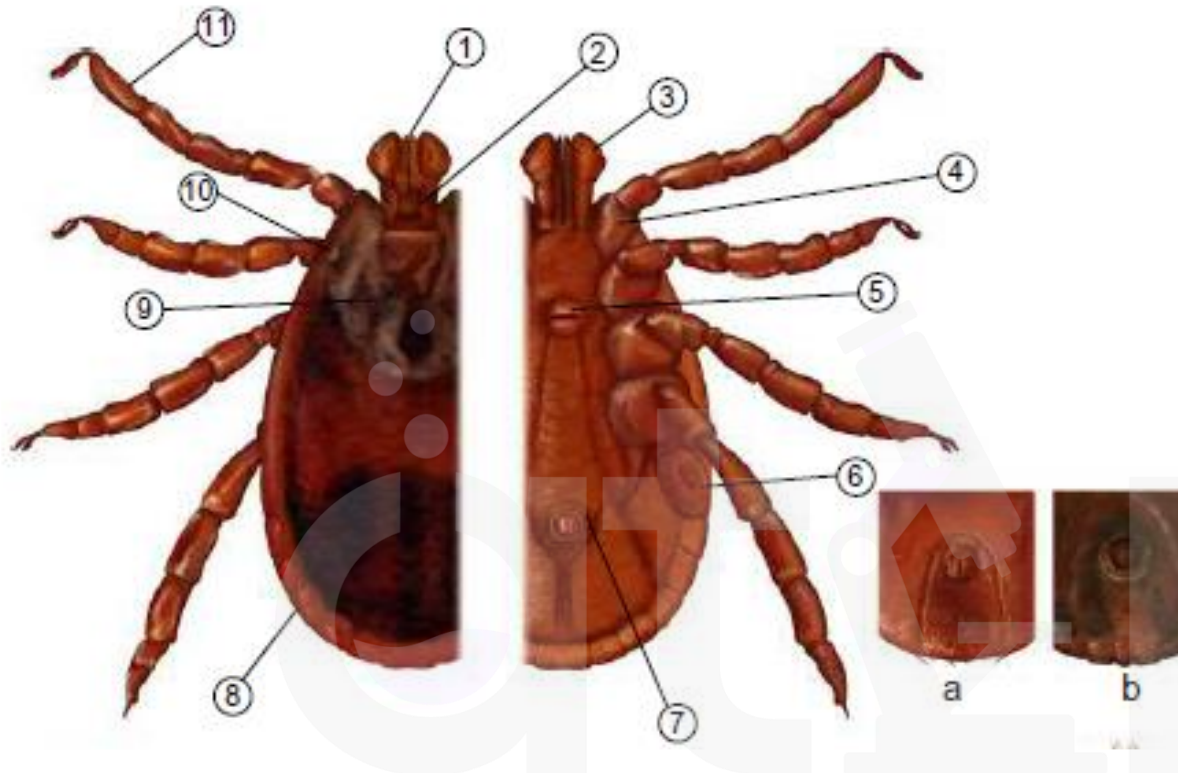
*Dermacentor, Rhipicephalus, Leptotrombidium, Sarcoptes*

*Lecture prepared by Sodikin Kurniawan, Muhammadiyah University of Semarang*

# Arachnida

Class	Order	Family	Subfamily	Genus
Arachnida	Ixodida	Ixodidae	Rhipicephalinae	Rhipicephalus
				Dermacentor
	Trombidiformes	Trombiculidae	Trombiculinae	Leptotrombidium
	Sarcoptiformes	Sarcoptidae	Sarcoptinae	Sarcoptes

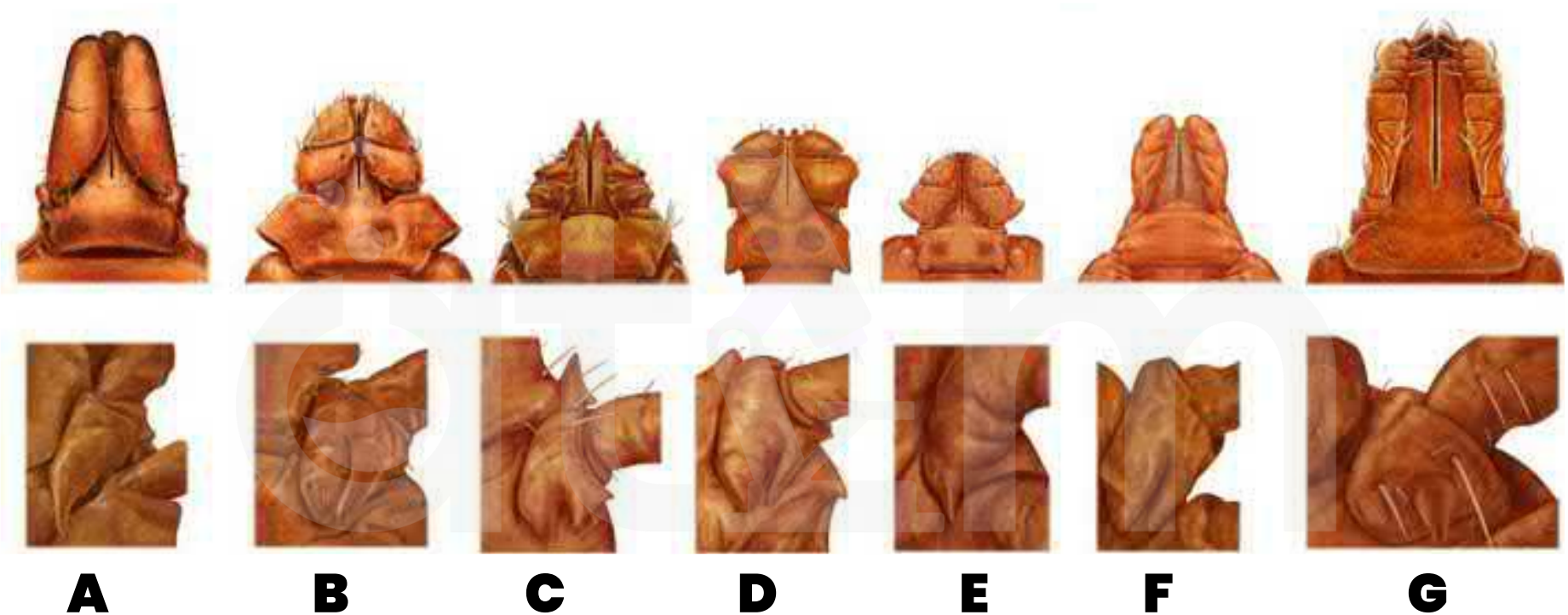
# Ixodida



(a) Anus and anal groove of Ixodes type: U-shaped anal groove arching anus anteriorly and (b) anal groove arching the anus posteriorly.

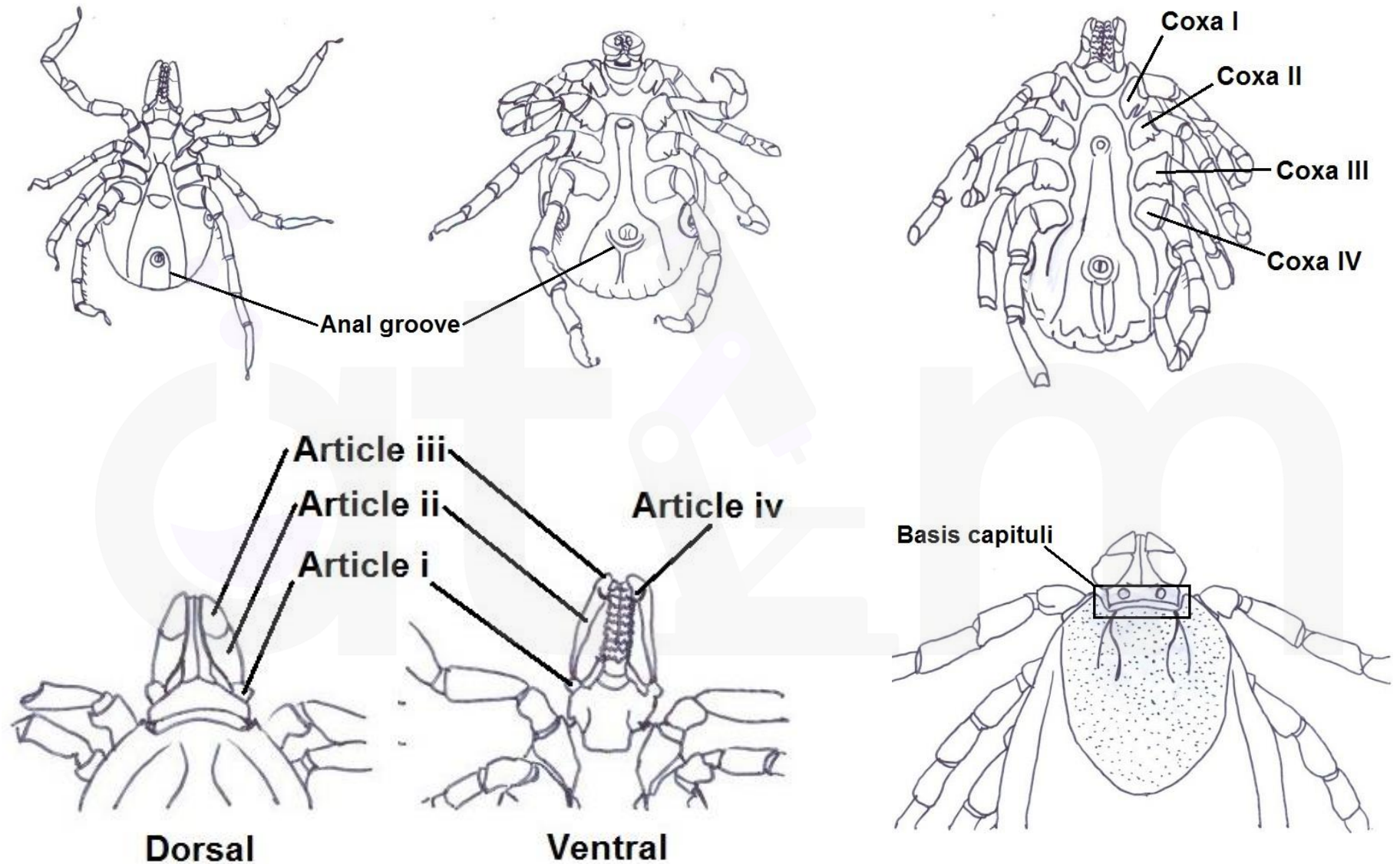
1. Hypostomum
2. **basis capituli**
3. palps consisting of three segments
4. **coxa I**
5. genital opening
6. stigmatal plate (spiracles)
7. anus and anal groove,
8. festoons,
9. scutum, ornamented,
10. eye,
11. tarsus with Haller's organ

# Ixodida



(A) *Ixodes* (B) *Rhipicephalus* (C) *Boophilus* (D) *Dermacentor* (E)  
*Haemaphysalis* (F) *Hyalomma* (G) *Amblyomma*

# Ixodida







# ***Dermacentor reticulatus***

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*Marsh Tick*

*Lecture prepared by Sodikin Kurniawan, Muhammadiyah University of Semarang*

# Betina & Jantan



# Dermacentor – Male & Female





# Dermacentor – Male & Female

(A) *Dermacentor* genus, dorsal

enamel pattern on scutum or conscutum

mouthparts equal  
width of basis

eyes

festoons

no pale  
rings on legs

FEMALE

MALE

# Dermacentor – Male & Female

(B) *Dermacentor* genus, ventral

body profile a narrow oval

anal groove posterior to anus

FEMALE

mouthparts same length as basis

no tarsal spur

legs narrower than mouthparts  
no sclerotized plates aligned with anus

MALE

coxa 4 enlarged





# ***Rhipicephalus sanguineus***

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*Brown Dog Tick*

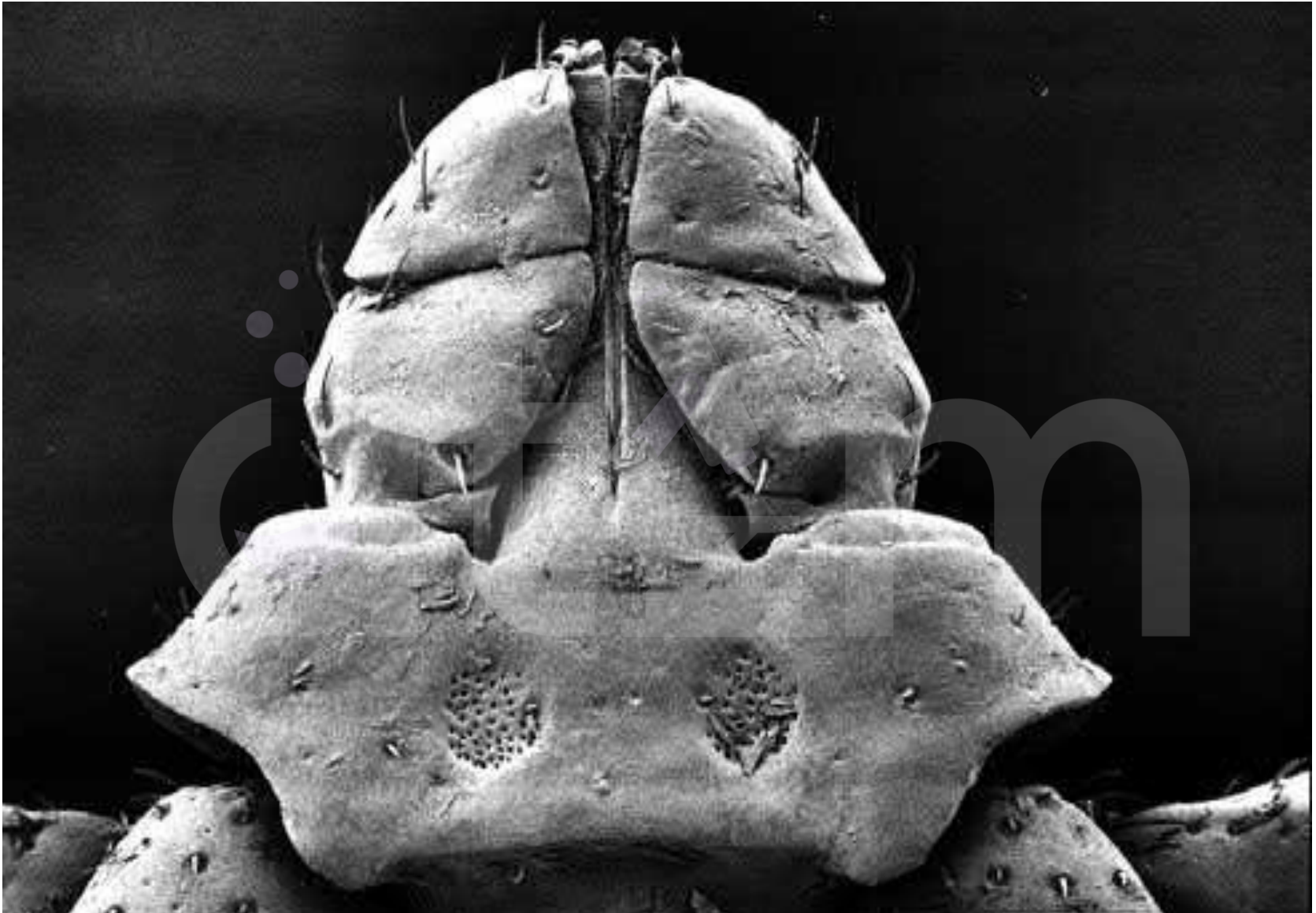
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# *Rhipicephalus sanguineus*





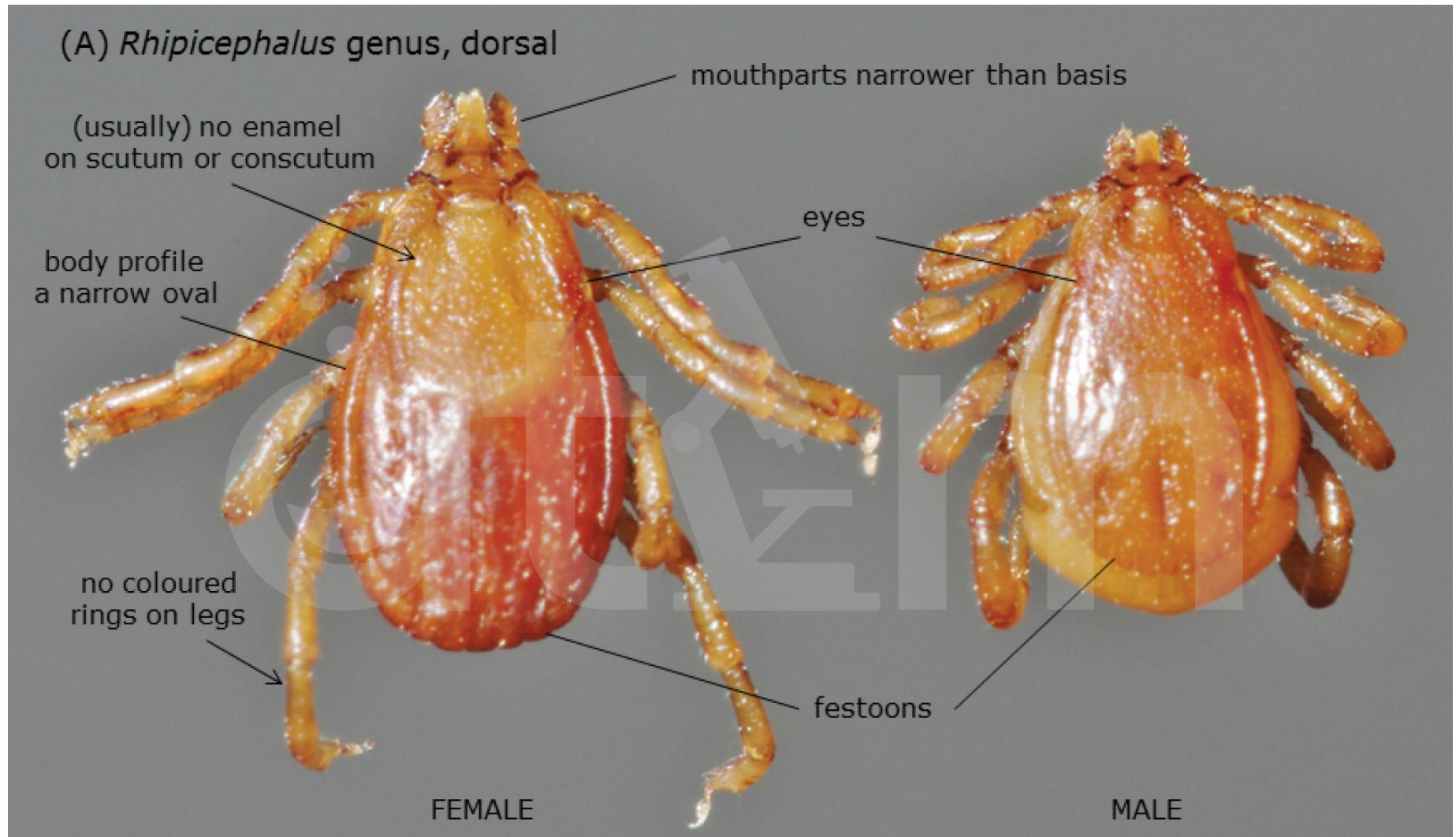
# *R. sanguineus*– Head



# *R. sanguineus* – Female & Male

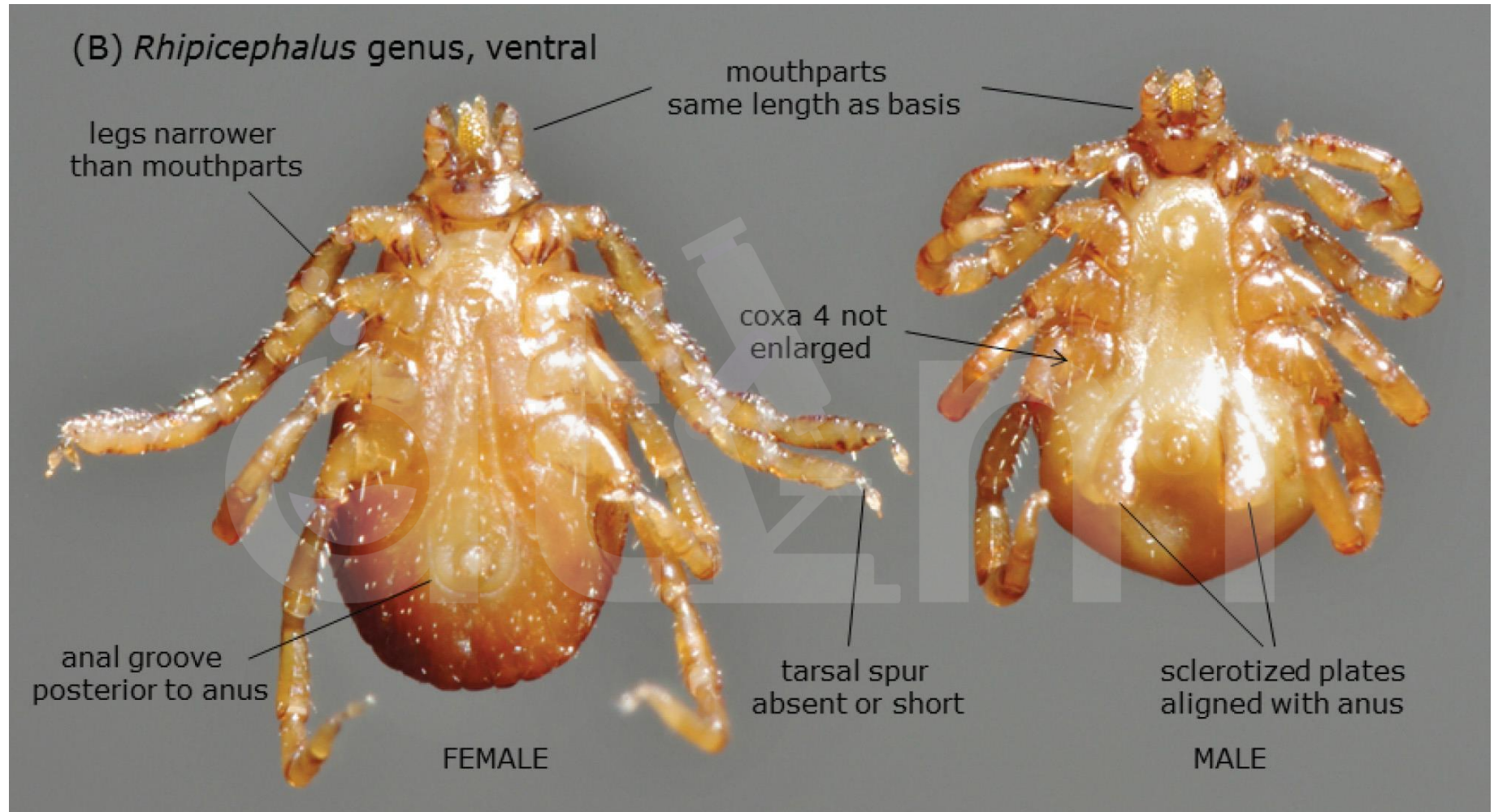


# *R. sanguineus* – Female & Male





# *R. sanguineus* – Female & Male







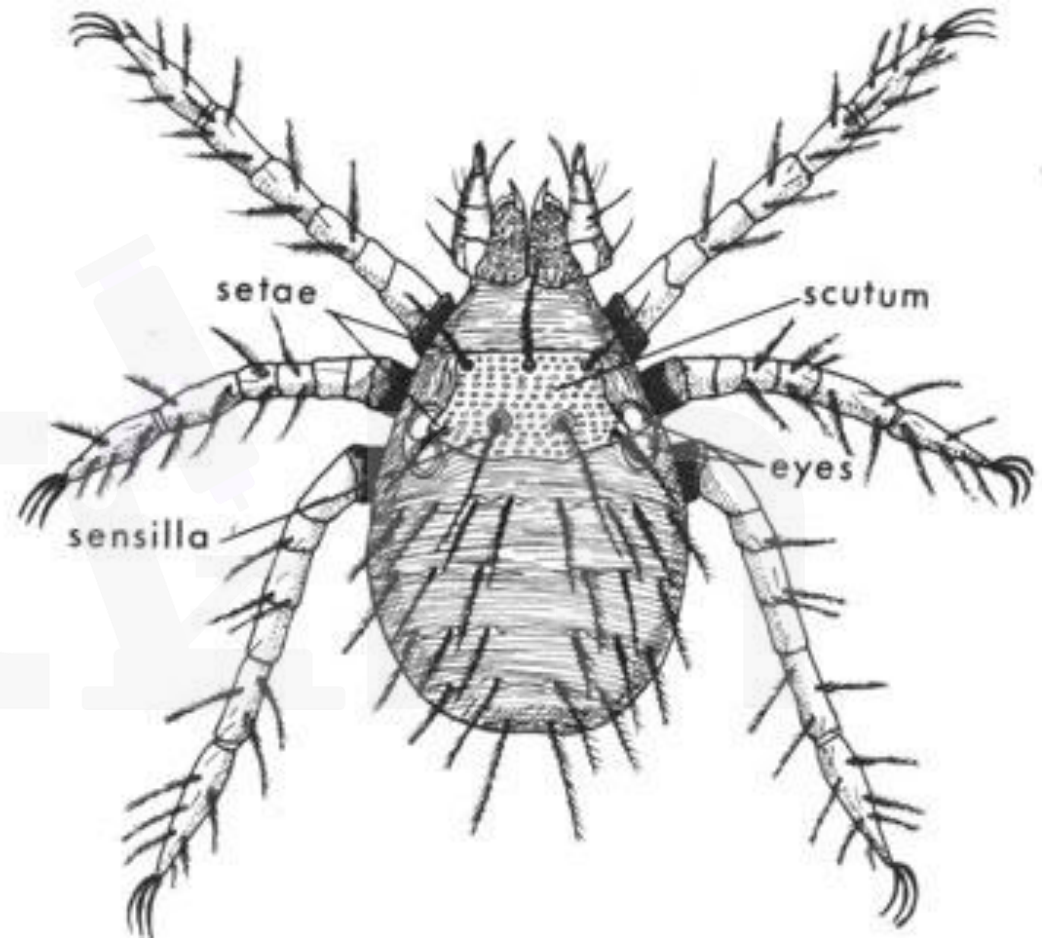
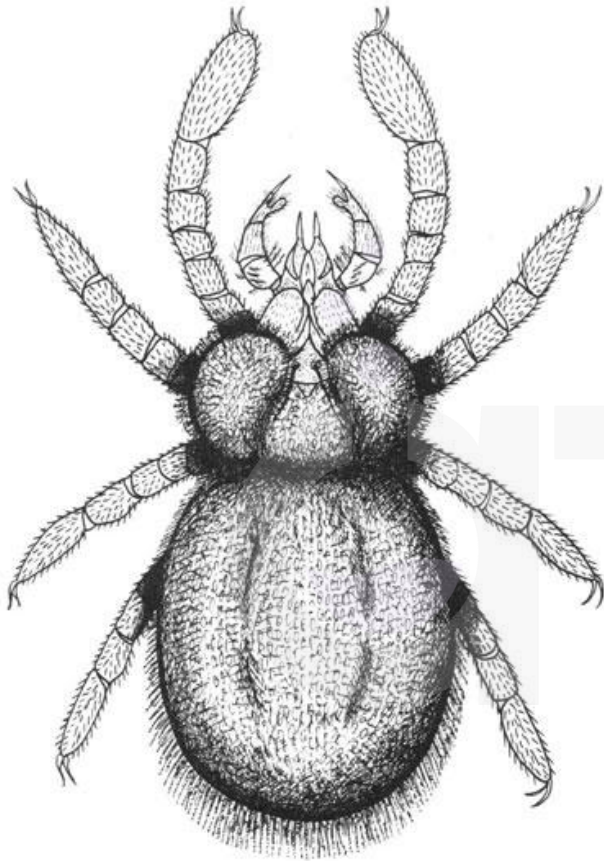
# ***Leptotrombidium***

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*Scrub typhus mites - chiggers*

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# *Dorsal view of an adult & larval trombiculid mite*

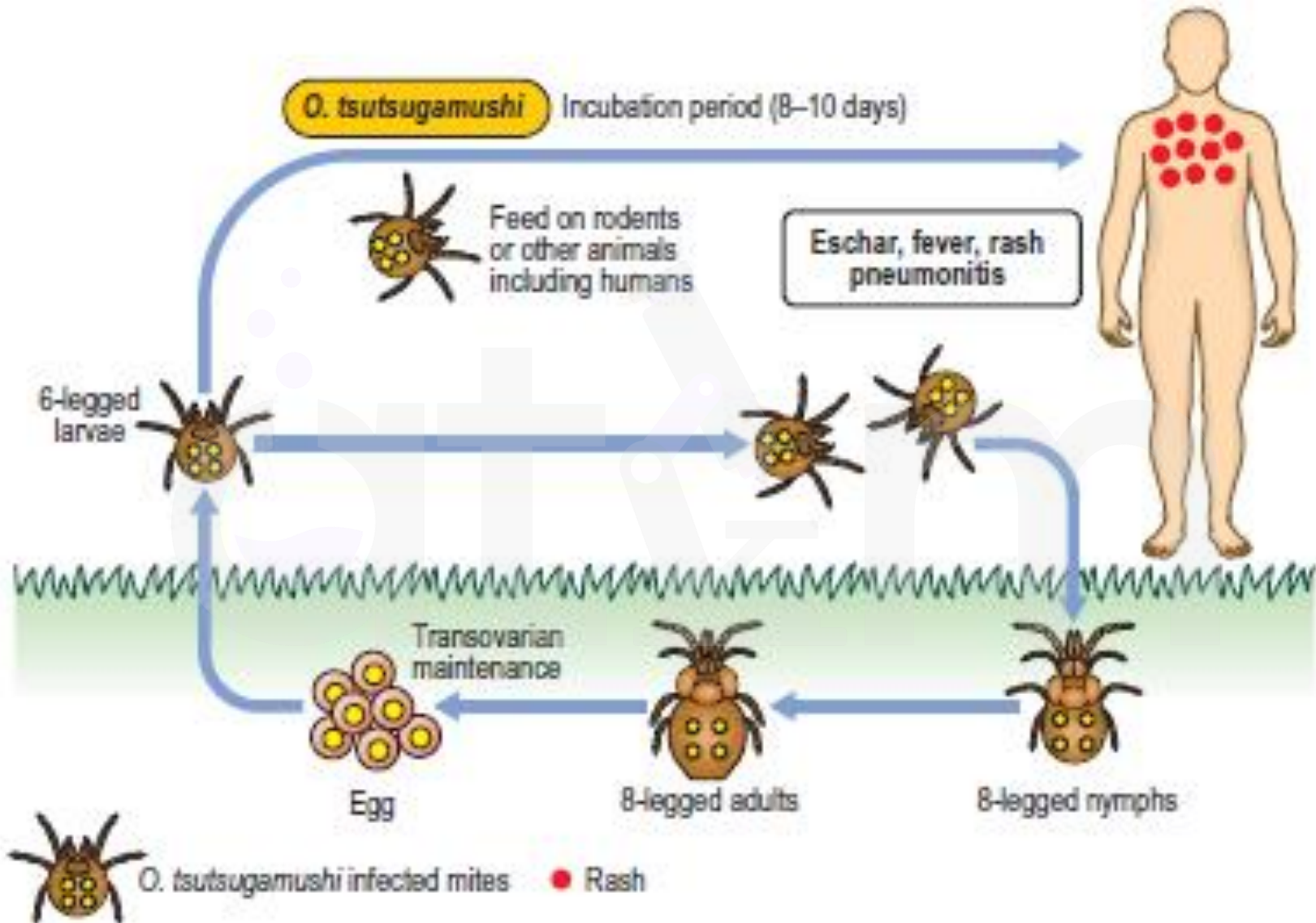


# *Larval trombiculid mite*





# *Transmission of Orientia tsutsugamushi to the human*







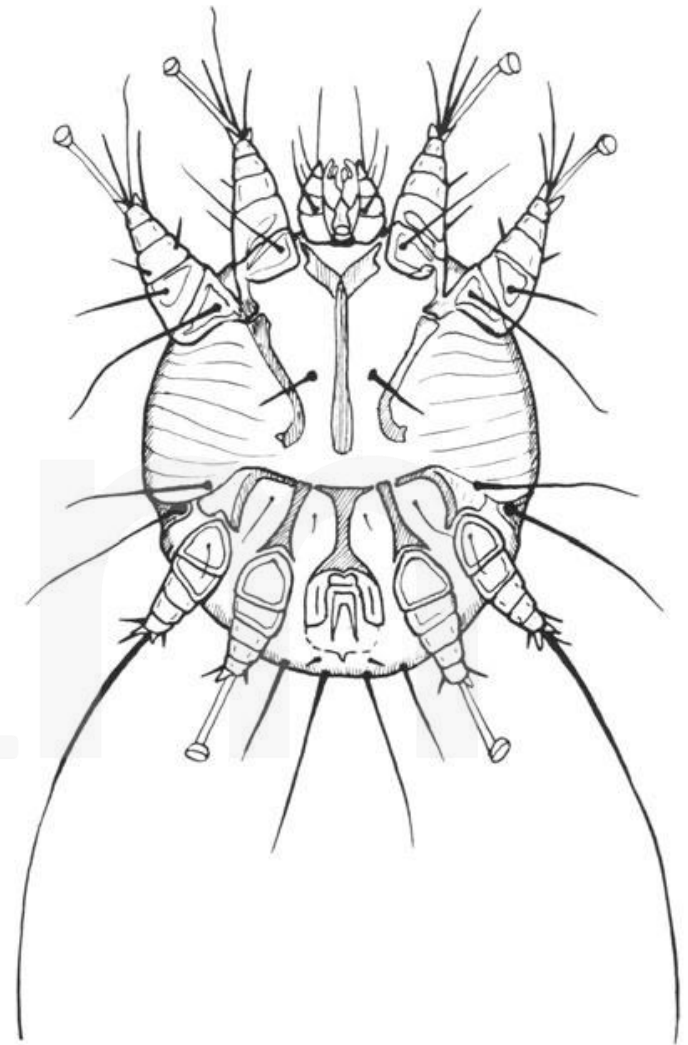
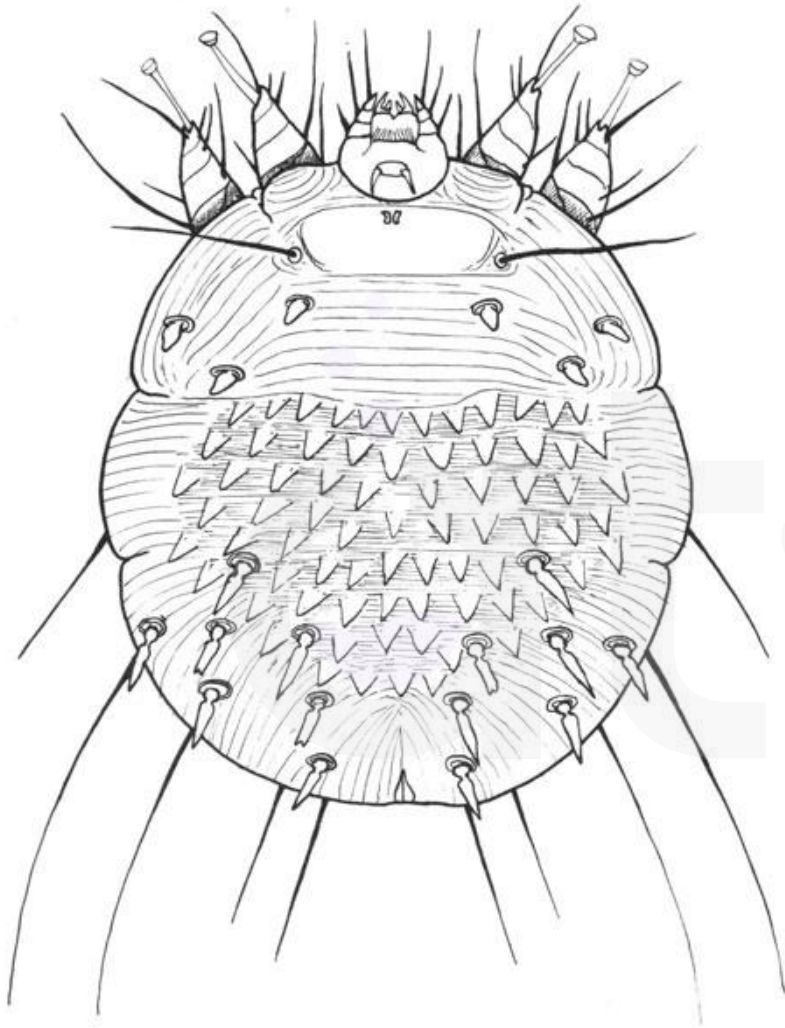
# ***Sarcoptes scabiei***

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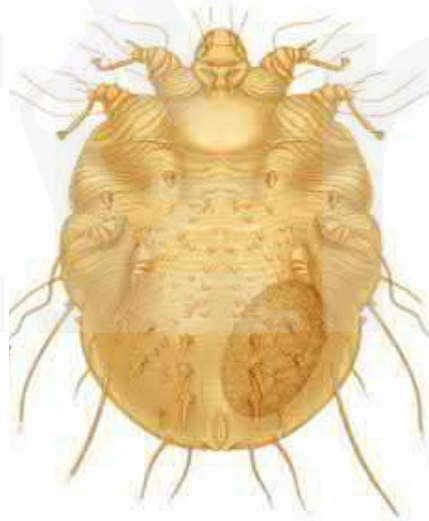
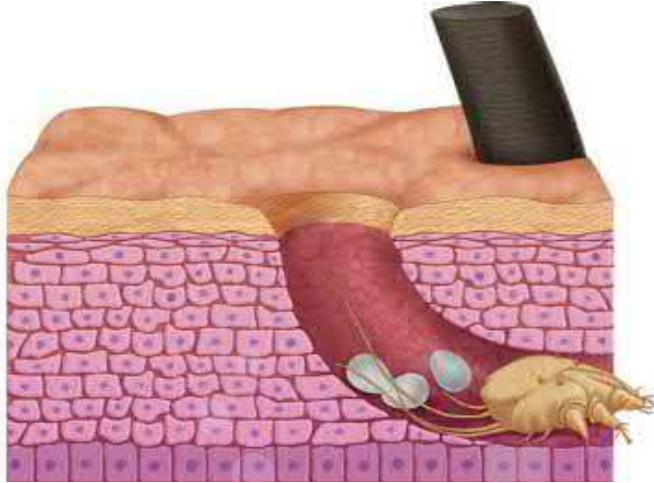
*Scabies (Kudis) - mite*

*Lecture prepared by Sodikin Kurniawan, Muhammadiyah University of Semarang*

# Betina & Jantan Sarcoptes



# Sarcoptes





# Scabies







# TERIMA KASIH

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