

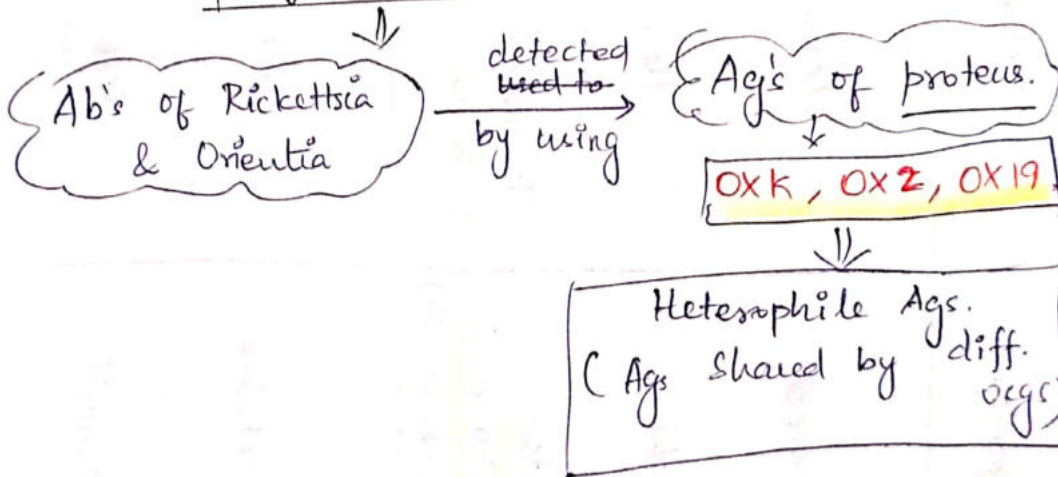
- * Intracellular organisms.
- * Causes Endothelial injury.
- * Transmitted by vectors.
- * Non-cultivable. (Tissue culture is used).

M/c is McCoy & Hela Cell lines

- * Weil-Felix Test to Δ se Rickettsia & Orientia

Heterophile Agglutination Test

Ag & Ab of diff org. are used



C/F of Rickettsia & Orientia

↳ Black eschar (NOT SEEN ALWAYS). ☹

Diseases	Organism	Vector	Transmission	Weil Felix Test
TYPHUS GROUP ----- i) Epidemic typhus	<i>R. prowazeki.</i>	louse	Autoinoculation	OX 19, OX 2 $\pm$
ii) Endemic "	<i>R. typhi.</i>	flea	Autoinoculation	OX 19, OX 2 $\pm$
iii) Scrub " (<i>chiggerosis</i>)	<i>O. tsutsu gumushi.</i> (only ds caused by <i>Orientia</i>)	<i>Trombiculid mite</i> (larvae - chiggers)	Bite	OX K
Spotted fever group ----- i) Rocky Mountain "	<i>R. rickettsiae</i>	Tick	bite	OX 19, OX 2 $\oplus$ ve
ii) Indian tick Typhus* (Mediterranean Spotted fever) & Bouttensse fever	<i>R. conorii.</i>	Tick	bite	OX 19, OX 2 $\oplus$ ve
vi) Rickettsial pox	<i>R. akari.</i>	Mite	bite	$\oplus$ ve for all 3 Ag's

* Note:

Scrub Typhus aka chiggerosis why?

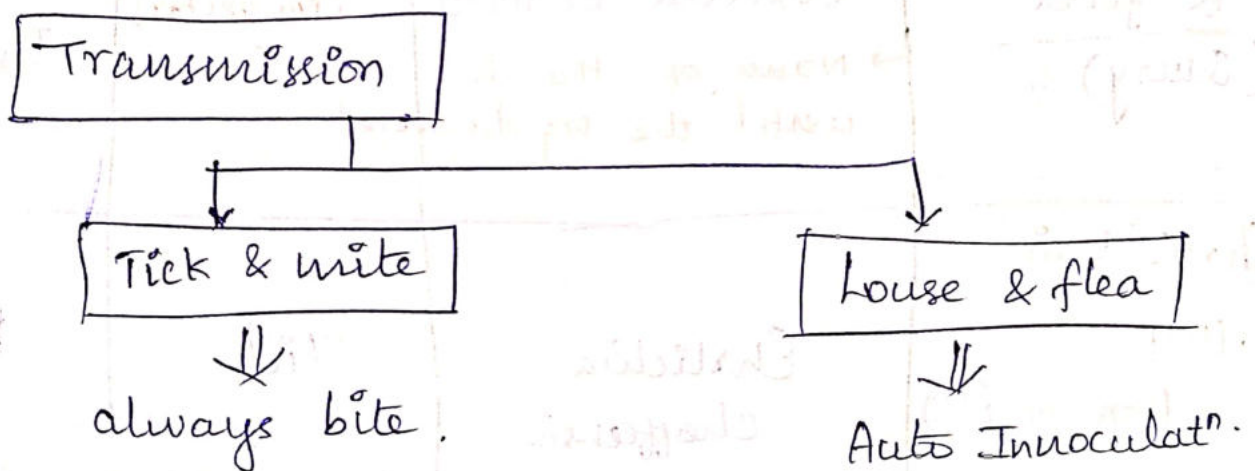
* Adult form of Trombiculid mite $\Rightarrow$ Don't bite

* Larval " " " " $\Rightarrow$ bites.

$\searrow$ aka **Chiggers** That's why Scrub Typhus is aka chiggerosis.

* Indian tick typhus has the word "typhus"
it is a spotted fever group.

Its aka **Mediterranean Spotted fever** ~~Boutonne fever~~



Culture: Non Cultivable.

(Tissue Culture → McCoy & Hela Cell lines)

EXCEPTION - Bartonella

↓
Cultivable on Blood Agar

Weil Felix's Test → ⊕ve for All ③ Ag's.
(OxK, Ox2, Ox19)

Ds caused by Coxiella, Ehrlichia & Bartonella

Disease	Organism	Vector	Transmission
i) <u>'Q' fever</u> (Query).	Coxiella Burnetti → Name of the ds until the org. discovered	(No vector)	Inhalation
Ehrlichiosis			
ii) HME (Human Monocytic Eh.)	Ehrlichia Chaffeensis	Tick	bite.
iii) HGE (Human Granulocytic Eh.)	Ehrlichia ewingii.	tick	bite
iv) Trench fever (5 days fever).	Bartonella quintana	Louse	Autoinnoculation
v) Oraya fever [Carrión's ds]	Bartonella bacilliformis	Sandfly	bite
vi) Cat scratch ds.	Bartonella henselae.	(No vector).	Cat scratch (or) Cat bite