

2) BORRELIA

m/c patho. sps → *Borrelia burgdorferi*, *B. recurrentis* & *B. vincenti*

C/F : (i) *Lyme's ds* (vector : Ixodes Tick).

* migratory Annular Rashes

appears at one site
then disapp. & reappears
at other site

Bull's eye pattern



* These rashes are aka *Erythema migrans*

(ii) Epidemic Relapsing Fever
↓
Borrelia recurrentis
Fever
(vector : Louse).

Note:

Epidemic Relapsing fever	Endemic Relapsing fever
* Vector : Louse.	Vector : Tick
* Causative Org: <i>Borrelia recurrentis</i>	Other sps. of <i>Borrelia</i> .

* causes Vincent's Angina (misnomer),

↓
Necrotising Gingivostomatitis

Summary:

Borrelia

B. burgdorferi

↓
Lyme's ds.

B. recurrentis

↓
Epidemic
relapsing
fever.

B. vincentii

↓
Vincent's
Angina

Δsis:

(i) Microscopy

→ Same as Treponema

(ii) Culture

selective media: Modified Kelley's media

m/c patho sps → *Leptospira interrogans*

C/F : Leptospirosis (or) Weil's ds *

* mostly ~~asymptomatic~~ Asymptomatic.

* involves

(i) RES $\xrightarrow{\#}$ HSM (Hepato Spleno Megaly).
(Reticulo Endo. Sys).

(ii)  $\xrightarrow{\#}$ Renal failure *

Note:

zoonotic ds:

Rats Urine $\xrightarrow[\text{CONTACT}]{\text{DIRECT/INDIRECT}}$ Humans

Note:

i)

<u>Weil's ds</u> ↓ Leptospirosis.	<u>Weil's fBlx</u> Rxn ↓ used for Δ ^{se} Rickettsia
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ii)

Leptospirosis.	Brucellosis.
* Zoonotic ds. (Rats urine).	* Zoonotic ds. (cattle).
* RES → HSM ⊕  → kidney failure	* RES → HSM ⊕ musculoskeletal system

Δ ser:

(i) Microscopy → same as *Treponema*

(ii) Culture:

selective media: EMJH [↑] broth [↑] Liq. culture

