VI. ΛΟΙΜΩΞΕΙΣ ΣΕ ΚΑΤΑΥΛΥΣΜΟΥΣ ΠΡΟΣΦΥΓΩΝ

- * ΕΞΑΝΘΗΜΑΤΙΚΟΣ ΤΥΦΟΣ
- * ΥΠΟΤΡΟΠΙΑΖΩΝ ΠΥΡΕΤΟΣ

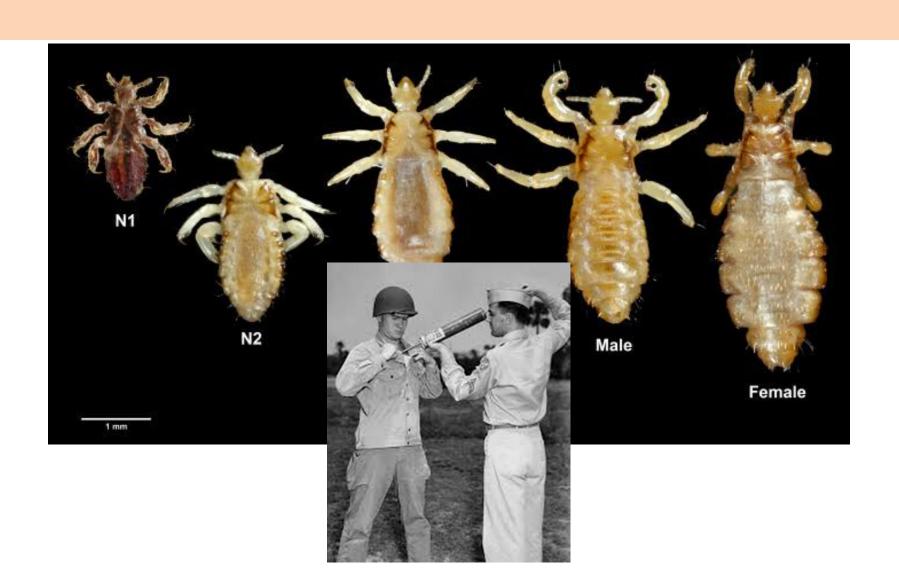


<u>ΕΙΣΑΓΩΓΗ ΣΤΗ</u> <u>ΜΕΘ</u>

Κώμα Υπερπυρεξία ARDS ΔΙΑΡΡΟΙΑ

ΨΕΙΡΑ (Pediculosis and Pthiriasis) ΕΞΑΝΘΗΜΑΤΙΚΟΣ ΤΥΦΟΣ

Typhus Fever – Rickettsia prowazekii



* Εξανθηματικός Τύφος Epidemic louse-borne typhus



<u>Jail Fever</u> (Epidemic Typhus)

Outbreak in Burundi

* Εξανθηματικός Τύφος Epidemic louse-borne typhus

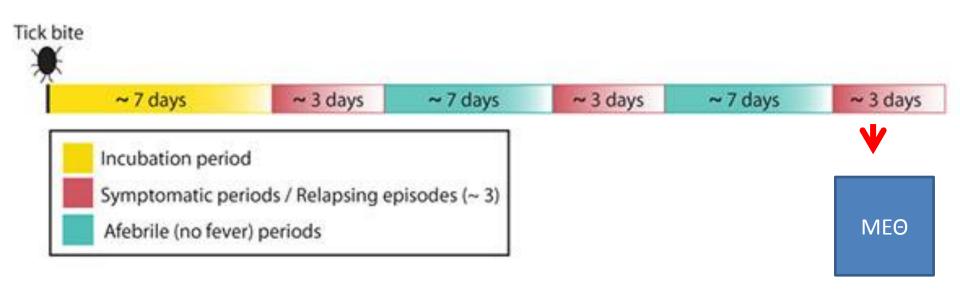
Geographical distribution

- In recent years, most outbreaks have taken place in <u>Burundi, Ethiopia and Rwanda.</u>
- Typhus fever occurs in conditions of overcrowding and poor hygiene, such as in prisons and refugee camps.

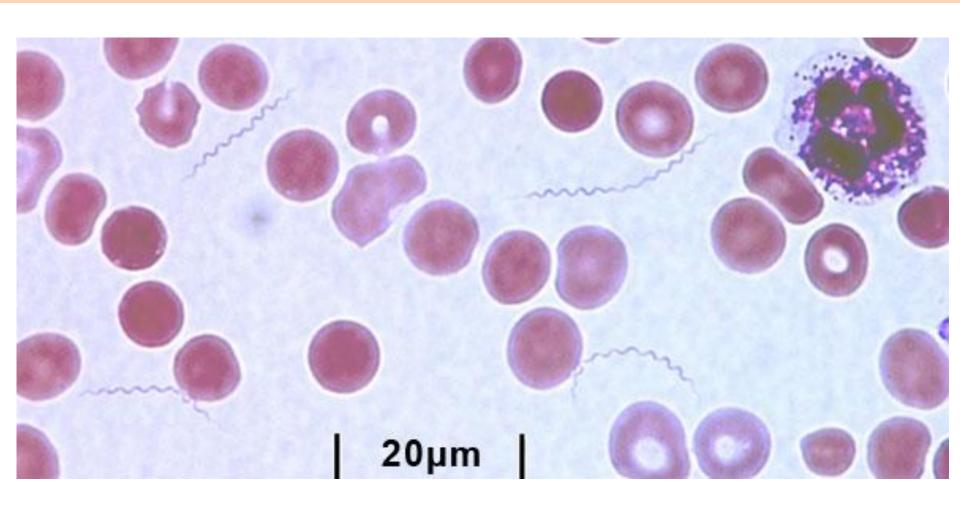
* ΥΠΟΤΡΟΠΙΑΖΩΝ ΠΥΡΕΤΟΣ Louse-borne relapsing fever (LBRF)

- Relapsing fever is bacterial infection characterized by recurring episodes of <u>fever</u>, <u>headache</u>, <u>muscle</u> and joint aches, and nausea.
- It is caused by certain species of *Borrelia* spirochetes
- Louse-borne relapsing fever is transmitted by the human body louse and is generally restricted to refugee settings in developing regions of the world.

* ΥΠΟΤΡΟΠΙΑΖΩΝ ΠΥΡΕΤΟΣ Louse-borne relapsing fever (LBRF)



* ΥΠΟΤΡΟΠΙΑΖΩΝ ΠΥΡΕΤΟΣ Louse-borne relapsing fever (LBRF



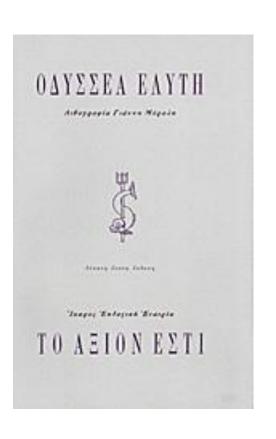
* ΥΠΟΤΡΟΠΙΑΖΩΝ ΠΥΡΕΤΟΣ Louse-borne Relapsing Fever (LBRF)



* ΥΠΟΤΡΟΠΙΑΖΩΝ ΠΥΡΕΤΟΣ Louse-borne Relapsing Fever (LBRF)

- •
- LBRF outbreaks most commonly occur in conditions of overcrowding and social disruption.
- Between 1919 and 1923, 13 million cases resulting in 5 million deaths occurred in the social upheaval that overtook Russia and eastern Europe.
- During World War II, a million cases occurred in North Africa.
- Today, LBRF causes sporadic illness and outbreaks in sub-Saharan Africa, particularly in regions affected by war and in refugee camps. LBRF is commonly found in Ethiopia, Sudan, Eritrea, and Somalia.
- Illness can be severe, with mortality of 30 to 70% in outbreaks

ΟΔΥΣΣΕΑ ΕΛΥΤΗ : ΤΟ ΑΞΙΟΝ ΕΣΤΙ Η πορεία προς το μετώπο - 1964



.....Καὶ τὶς λίγες φορὲς ὅπου κάναμε στάση νὰ ξεκουραστοῦμε, μήτε ποὺ ἀλλάζαμε κουβέντα, μονάχα σοβαροί κι ἀμίλητοι, φέγγοντας μ' ἕνα μικρὸ δαδί, μίαμία ἐμοιραζόμασταν τὴ σταφίδα.

"Η φορὲς πάλι, ἂν ἦταν βολετό, λύναμε βιαστικὰ τὰ ροῦχα καὶ ξυνόμασταν μὲ λύσσα ὧρες πολλές, <u>ὅσο νὰ τρέξουν τὰ αἵματα.</u>

Τι μας εἶχε ἀνέβει ἡ ψεῖρα ὡς τὸ λαιμό, κι ἦταν αὐτό πιο κι ἀπ' τὴν κούραση ἀνυπόφερτο...

* ΥΠΟΤΡΟΠΙΑΖΩΝ ΠΥΡΕΤΟΣ LBRF

- Patients with LBRF usually present with non-specific symptoms such as high fever, headache or pain in other parts of the body.
- Hence, presentation of LBRF may resemble many other serious infections such as
- malaria,
- viral haemorrhagic fever,
- leptospirosis, typhus,
- meningococcal meningitis or
- typhoid fever
- In addition, co-infection with malaria is common although not detected in our patient

* ΥΠΟΤΡΟΠΙΑΖΩΝ ΠΥΡΕΤΟΣ LOUSE-BORNE RELAPSING FEVER —

GERMANY: ASYLUM SEEKERS

- With symptom onset between 17 Jul 2015 and 31 Aug 2015, 11 cases of Louse-borne-relapsing fever (LBRF) caused by _Borrelia recurrentis_ have been diagnosed in Germany –
- among asylum seekers/refugees from Horn-of-Africa countries (Eritrea, Ethiopia, Somalia).

Eurosurveillance 2015

LOUSE-BORNE RELAPSING FEVER - GERMANY : ASYLUM SEEKERS

it seems very likely that lice bearing _B.
 recurrentis_ are currently being transmitted among migrants in camps in Libya.



SWITZERLAND

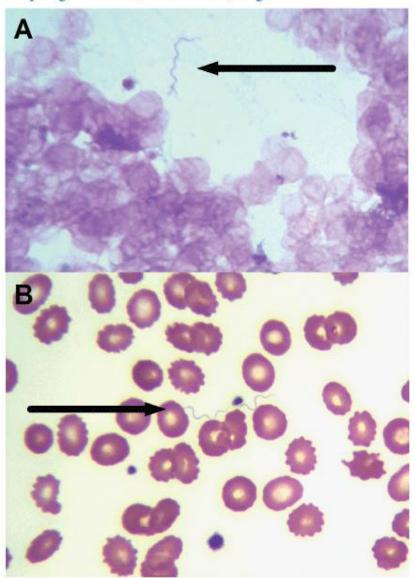
* ΥΠΟΤΡΟΠΙΑΖΩΝ ΠΥΡΕΤΟΣ

LOUSE-BORNE RELAPSING FEVER (BORRELIA RECURRENTIS) IN AN ERITREAN REFUGEE ARRIVING IN SWITZERLAND, AUGUST 2015

Eurosurveillance, Volume 20, Issue 32, 13 August 2015

FIGURE 2

Microscopic detection of spirochetes in blood, louse-borne relapsing fever case, Switzerland, August 2015



Panel A: Giemsa pH 7.2, stained thick film, 1,000-fold magnification.

Panel B: May-Grünwald Giemsa (MGG)-stained blood smear, 1,000fold magnification. Given the poor hygienic conditions and crowding on the way to Europe that might facilitate spread of *B. recurrentis* via body lice, we expect that cases of LBRF will be diagnosed more frequently in Europe.

Microscopic detection of spirochetes in blood, louse-borne relapsing fever case, Switzerland, August 2015

Caring for the Wave of Refugees in Munich

- Conditions not normally seen today in developed countries included louseborne relapsing fever
- (one patient required intensive care treatment, intubation, and vasopressor support
- Caring for the Wave of Refugees in Munich

Thomas Nicolai,



October 22, 2015



VI. ΛΟΙΜΩΞΕΙΣ ΣΕ ΚΑΤΑΥΛΥΣΜΟΥΣ ΠΡΟΣΦΥΓΩΝ ΕΞΑΝΘΗΜΑΤΙΚΟΣ ΤΥΦΟΣ ΥΠΟΤΡΟΠΙΑΖΩΝ ΠΥΡΕΤΟΣ

<u>ΟΔΗΓΙΑ</u>

 we consider screening arriving refugees for lice useful in order to prevent spreading of louse-borne diseases in refugee camps.
 ECDC 2015

LOUSE-BORNE RELAPSING FEVER - ITALY: ASYLUM SEEKERS, POSSIBLE LOCAL TRANSMISSION

We report 5 cases of LRF in refugees to Italy from East Africa that occurred during 2015.

Lucchini A, Lipani F, Costa C, et al:

Louse-borne relapsing fever among East African Refugees, Italy, 2015.

Emerg Infect Dis. 2016;

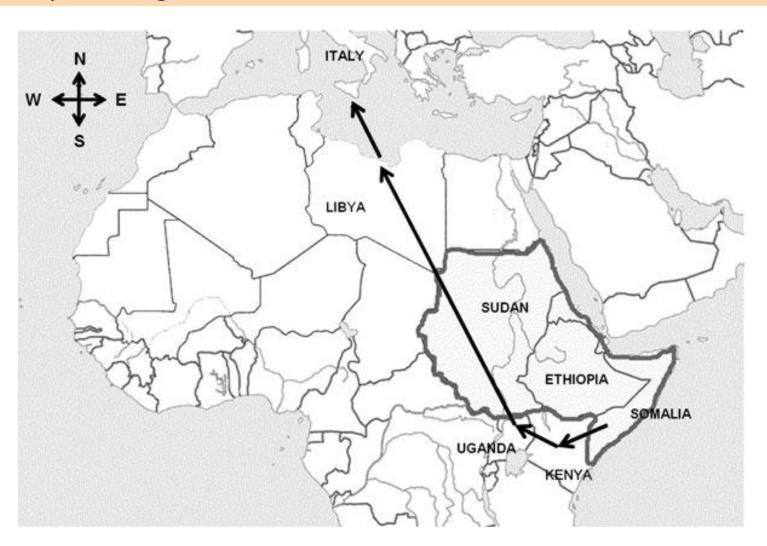
22(2); DOI: 10.3201/eid2202.151768

LOUSE-BORNE RELAPSING FEVER - ITALY: ASYLUM SEEKERS, POSSIBLE LOCAL TRANSMISSION

- All patients were transferred to the Infectious Disease Hospital in Torino for further assessment.
- LRF was suspected, and the patients were treated with either doxycycline alone or doxycycline plus ceftriaxone.
- Patients 1 and 5 showed an acute febrile reaction after the 1st antimicrobial dose: symptoms were compatible with a Jarisch-Herxheimer reaction (JHR)

Route (arrows) followed by refugees from Somalia to Libya, where they boarded a boat to Sicily.

Gray shading indicates Borrelia recurrentis—endemic countries.



LOUSE-BORNE RELAPSING FEVER - ITALY: ASYLUM SEEKERS, POSSIBLE LOCAL TRANSMISSION

- No lice were found on the patients or on their clothes
- patient 5 had skin lesions caused by scratching.
- Our findings confirm the possibility of local transmission of LRF caused by _B. recurrentis .

United Nations High Commissioner for Refugees (UNHCR)

- civil war in Syria has left 12.2 million people in need of humanitarian assistance.
- More than 7 million Syrians are internally displaced and over 4 million are registered as refugees living outside the country.
- Deteriorating security in Afghanistan, Libya and Yemen, as well as dire living conditions for refugees in Lebanon and Jordan, have also increased the number of people seeking safe haven in the European Union.

the 2.8-square-mile Zaatari refugee camp in northern Jordan near the border with Syria, which provides shelter to around **100,000 Syrian refugees.**

ΤΥΦΟΕΙΔΗΣ ΠΥΡΕΤΟΣ ΧΟΛΕΡΑ ΠΟΛΙΟΜΥΕΛΙΤΙΔΑ ΙΛΑΡΑ ΓΡΙΠΗ

ΠΙΘΑΝΕΣ ΕΠΙΔΗΜΙΕΣ ΣΕ ΣΤΡΑΤΟΠΕΔΑ ΣΥΓΚΕΝΤΡΩΣΗΣ ΠΡΟΣΦΥΓΩΝ UNHCR 2015



ΤΥΦΟΕΙΔΗΣ ΠΥΡΕΤΟΣ - SYRIA : (DAMASCUS) REFUGEE CAMP

- The United Nations has called for access to Yarmouk in the Syrian capital.
- The total number of typhoid cases in the camp reached 90 on Tue 22 Sep 2015,
 UNRWA [United Nations Relief and Works Agency

XOΛΕΡΑ: IRAQ, WHO

- As of 8 Oct 2015, a total of 1263 laboratoryconfirmed cases of _Vibrio cholera_ O1 Inaba were reported.
- These cases were reported from at least 15 governorates of the country.
- Babylon (469 cases),
- Baghdad (304 cases),
- Qadisiyyah (146 cases),
- Muthanna (155 cases)

CHOLERA, UPDATE: IRAQ, WHO OCTOBER 2015

- release oral cholera vaccine from the global stock.
- WHO has deployed a team of international experts under the Global Outbreak Alert and Response Network (GOARN)
- request for additional international support for cholera response.

VI. ΛΟΙΜΩΞΕΙΣ ΣΕ <u>ΚΑΤΑΥΛΥΣΜΟΥΣ ΠΡΟΣΦΥΓΩΝ</u>

Εκτίμηση κινδύνου

Αντίκτυπο / πιθανότητα	Υψηλή	Β Πιθανόν	C Δυνατόν	D Μη πιθανό
11-12: Καταστροφικές	A11-A12	B11-B12	C11-C12	D11-D12
8 -10: Κριτικής σημασίας	A8-A10	B8-B10	C8-C10	D8-D10
5 - 7: Σοβαρές	A5-A7	B5-B7	C5-C7	D5-D7
3 - 4: Οριακές	A3-A4	B3-B4	C3-C4	D3-D4

VI. ΛΟΙΜΩΞΕΙΣ ΣΕ <u>ΚΑΤΑΥΛΥΣΜΟΥΣ ΠΡΟΣΦΥΓΩΝ</u>

Εκτίμηση κινδύνου ποιος ο κινδύνος -**ΒΑΘΜΟΛΟΓΗΣΗ ΕΠΙΠΤΩΣΕΩΝ**

Αντίκτυπο / πιθανότητα	Α Υψηλή	Β Πιθανόν	C Δυνατόν	D Μη πιθανό
11-12: Καταστροφικές	A11-A12	B11-B12	C11-C12	D11-D12
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5 - 7: Σοβαρές	A5-A7	B5-B7	C5-C7	D5-D7
3 - 4: Οριακές	A3-A4	B3-B4	C3-C4	D3-D4