

LDA
Lyme Disease Action
www.LymeDiseaseAction.org.uk

The Explore Project

@LymeAction
@PearsLDA

LDA Aim of the project

We know that-

- Some genuine cases have -ve serology
- Immunoblots tested on European patients
- England is unlike Europe: *B. garinii* > *B. afzelii*
- Viramed does not include *B.garinii* antigens

We wanted to gather some evidence to test our views - to educate ourselves

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LDA Who we asked

20 people

- 2 ill untreated
- 13 treated, varying degrees of illness
- Healthy controls:
 - 2 past LB
 - 1 maybe a treated EM many years ago
 - 2 never LB

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LDA What we planned

Arranged with Innatoss Laboratories, in the Netherlands, to test blood samples:

- EUROIMMUN IgM & IgG ELISA
- Immunetics C6 EIA
- IgM and IgG Immunoblots from
 - EUROIMMUN
 - Mikrogen
 - Viramed
- Ceres Nanotrap urine antigen test

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LDA What we did

LDA:

- Selected patients
- Drew up agreements and explanations
- Project plan for deliveries of tubes, payments etc
- Letter to brief GPs

Patients:

- Negotiated with GPs
- Booked couriers
- Arranged blood tests
- Despatched samples

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LDA Results: 2 examples

Euroimmun IgG	Euroimmun IgM	C6	Blot	pos / neg	p100	VlsE Ba	VlsE Bg	VlsE diffl	Lip Ba	Lip Bg	p58 Ba	p58 Bg	p43 rec	p41	p30	+19 More bands
175	17	0.0	IgG Mikr	+	2.6		0.1		0.9						2.1	
			IgG Euro	+		+	+	+	+	+					+	
			IgG Vira	+												
			IgM Mikr	X												
			IgM Euro	b												
			IgM Vira	+												
12	4	0.3	IgG Mikr	-											0.4	
			IgG Euro	+		+										
			IgG Vira	b				+								
			IgM Mikr	X												
			IgM Euro	-												
			IgM Vira	-												

Legend:
 - = negative
 = borderline
 + = positive, with value if noted
 = band in blot negative, with value if noted

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LDA		Results	
No. tested	Blot	No. pos	No. b'line
20	IgG Euro	3	0
20	IgG Mikr	2	1
20	IgG Vira	1	3
6	IgM Euro	0	4
4	IgM Mikr	1	0
20	IgM Vira	7	0

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LDA		Results	
<ul style="list-style-type: none"> Definite past LB (previous NHS +ve): <ul style="list-style-type: none"> Asymptomatic: negative blots Symptomatic: 1 pos, 1 neg Healthy "never" LB <ul style="list-style-type: none"> 1 had borderline C6 & sub threshold VlsE Every person, except 1, had a reactive IgG p41 The urine antigen test proved not to be useful in European patients 			

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LDA		Probable conclusions	
<ul style="list-style-type: none"> Viramed blots no less sensitive than others People will <i>not</i> always remain positive, particularly if treated early and effectively Symptomatic patients seem to be those with continuing positive serology 			

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LDA		Thanks to -	
<ul style="list-style-type: none"> The 20 patients Innatoss Laboratories The GPs 			

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