

















uon a	nd/or Detection	on of Be	orrelia burgdo	orferi	
ick an	d Mice Popula	ations i	n B.C. (1993 -	- 1996	
	Tick		Mice		
Year	Culture Positive	Total	Culture Positive	Total	
1993	21	3218	2	321	
1994	12	2543	16	1360	
1995	5	3178	7	888	
1996	2	1117	0	197	
	40	10056	25	2766	





	Door Mi	co in Bl	~
	Deel Mil		0
Year	Total Mice Sera Tested	IFA Positive	WB Positi
2005	33	5	0
2005	34	4	1
2005	34	8	3
2005	17	2	1
2007	46	15	1
3.66%	164	34	6





















e for Disease Control

Results

- 81 confirmed cases
- 44.1% male and 55.9% female
- Average age 48.7 and median age 52.5 years
- Range 4-88 years
- 42% were infected outside of BC – Primarily Europe and Eastern USA







BC Centre fo	or Disease Control		_					
	Con	npai	rison	to	high	and	d low	1
endemic areas								
	British Col	umbia	Washington	1 State	Californ	nia	Connect	icut
Year	Cases	Rate*	Cases	Rate*	Cases	Rate*	Cases	Rate*
1997	3	0.1	10	0.2	-	0.5	2297	70
1998	6	0.2	7	0.1	-	0.4	3434	104
1999	5	0.1	14	0.2	-	0.4	3213	98
2000	14	0.3	9	0.2	-	0.3	3773	111
2001	6	0.1	9	0.2	95	0.3	3597	106
2002	6	0.1	12	0.2	97	0.3	4631	136
2003	7	0.2	7	0.1	86	0.2	1403	41
2004	4	0.1	14	0.2	48	0.1	1348	40
2005	4	0.1	13	0.2	95	0.3	1810	53
2006	14	0.3	8	0.1	85	0.2	1788	53
2007	15	0.3	12	0.2	75	0.2	3058	90
2008	9	0.2	23	0.3	74	0.2	3896	114
	Avg. Rate	0.19	Avg. Rate	0.19	Avg. Rate	0.26	Avg. Rate	84.43



Physicians Awareness Survey 2008

- Sent out to all family physicians and pediatricians, internal medicine specialists with a practice address in BC
- · 81% of respondents were Family Physicians
- In practice for an average 21 years and saw average 122 patients/week
- · Geographically representative of MDs in BC



BC Centre for Discase Control encode of Mandea And	SH
 148 respondents recalled diagnosing 221 cases of LD in 2007 (range 0-5) Only 13 cases were reported to public 	
health in 2007	
• Overall knowledge score: 73% (8.7/12) for FD and 75% (9.0/12) specialists	

		Family Physicians	Specialists 1
EM rash is diagnosed in < 60% of patients	True	60.9%	
	False	25.4%	28.2
	Don't know	13.8%	15.7
The physical-exam finding	True	26.1%	28.3
of EM alone is enough to diagnose Lyme	False	64.0%	58.6
disease	Don't know	9.8%	13.2
What is the name of the	Ixodes pacificus	1.8%	.,
infectious agent that causes Lyme disease?	Borrelia burdorferi	98.2%	99.0
	Treponema pallidum	.0%	.0
	Babesia microti	.0%	.3
What is the incubation	1-12 days	17.3%	20.4
period from tick bite to EM rash?	3-30 days	64.8%	56.5
	10-65 days	17.9%	23.1

BC. Centre for Disease Centred LD Knowledge					
		Family Physicians	Specialists		
Which one of the following	Rocky Mountain Spotted Fever	62.9%	54.4%		
diseases may be transmitted concurrently	Anaplasmosis	10.1%	15.2%		
with Lyme disease?	Chagas Disease	.9%	1.7%		
	Tickborne Relapsing Fever	26.2%	28.7%		
Is Lyme disease a reportable	Yes	58.5%	65.8%		
disease in BC?	No	6.3%	5.3%		
	Don't know	35.1%	28.9%		
When is testing for Lyme	When patient presents with EM	37.1%	32.8%		
disease most appropriate?	When patient has a history of tick bite but is asymptomatic	9.0%	4.7%		
	On initial presentation with follow up testing in 2 weeks	50.0%	57.3%		
	Testing is not necessary	3.9%	5.1%		
If a patient presents with EM	Yes	79.0%	76.6%		
and the initial lab test is negative, should they be	No	6.8%	8.9%		
retested 2 weeks later?	Not sure	14.2%	14.5%		







BE Center for Disease Control Case 1: answer	0
 Correct answer: 1 Physician diagnosed Erythema Migrans is sufficient to establish a diagnosis of Lyme Disease (given potential exposure history and area of exposure); 	
 Serologic confirmation is not necessary and could lead to delays in diagnosis and treatment due to false-negative EIA in early LD 	































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