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### Lyme Disease Prevention in Western Connecticut

Tyler Oe University of Vermont

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# Lyme Disease Prevention in Western Connecticut

Tyler Oe

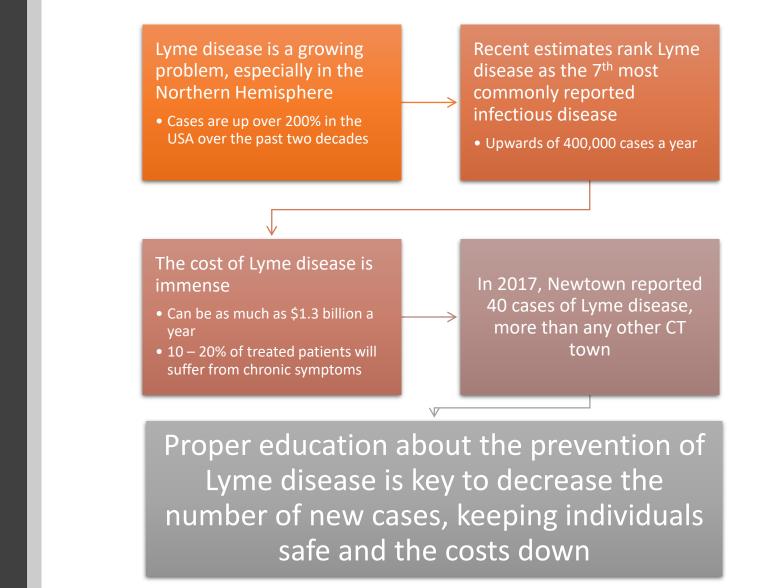
Larner College of Medicine at UVM – Family Medicine Clerkship

Newtown Primary Care

June 2018

# The problem? Lyme Disease

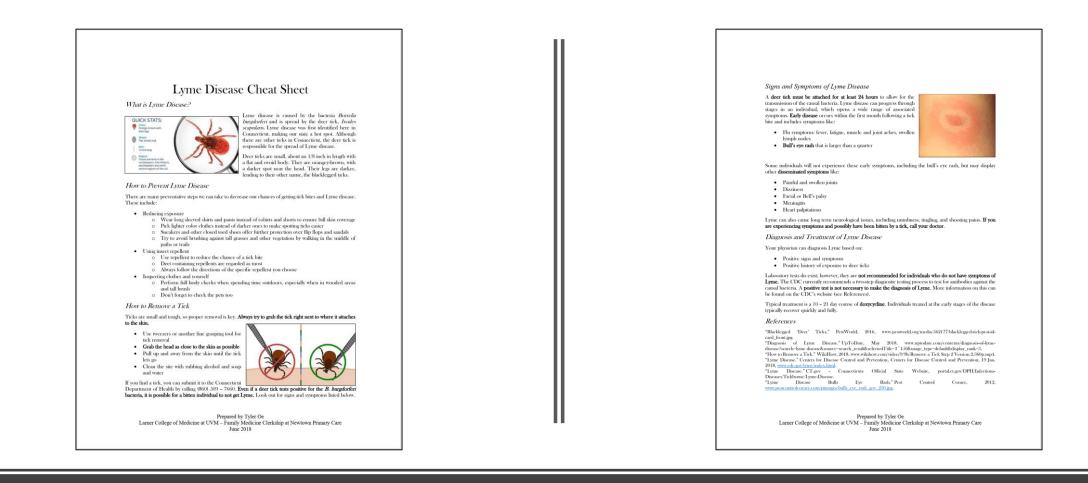
Lyme disease is caused by the bacteria *Borrelia burgdorferi* and is spread by *Ixodes scapularis*, the deer tick Lyme disease can cause a systemic infection that is mostly responsive to antibiotic therap The goal is to increase the awareness of Lyme disease and to educate patients on the proper preventative techniques to decrease the chances of being bit by a tick Lyme Disease is Costly; proper identification is necessary



# What does the Office Think?

"Lyme can be debilitating. People are constantly struggling to get the right care. Patients can definitely be better educated about Lyme disease. Also, more information on Babesiosis would be beneficial. All of these different tick-borne diseases can be complex." *Amy Ricketts, CMA* 

"There's a lot of conflicting information out there about Lyme disease. Sometimes it feels like we are taking shots in the dark when it comes to diagonosing and treating. The understanding of Lyme is still in its infancy." Hannah Fishchetto CMA



# Intervention and Methodology

### Results

The handout was given to the office as an additional resource on Lyme



Patients interested in more information will be referred to the handout to exercise preventative measures

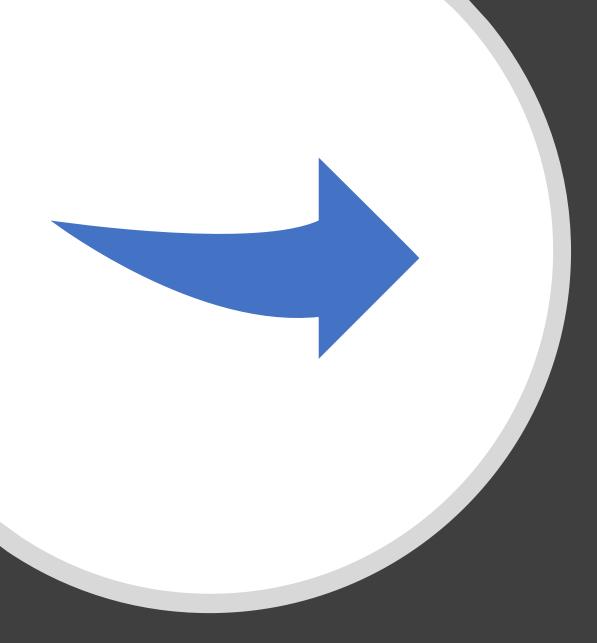
### Evaluation of a Lyme Disease Handout

We can establish the effectiveness of prevention techniques by cross referencing the amount of Lyme cases reported from one year to the next

A questionnaire could have been employed before the handout to pre-assess the patients' understanding of Lyme disease and the steps they can take to protect themselves

Patients can self report to their provider if they found the handout beneficial in their understanding of Lyme disease

Limitations: short time frame, abridged information on Lyme, undiagnosed cases of Lyme



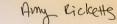
## Recommendations

- All patients with a significant environmental exposure should be made aware of the dangers of Lyme and should be directed to the handout for further information
- Integration into the patient portal will allow for more streamlined dissemination of the handout
- The handout should also be hung up in the exam rooms during the months of peak Lyme to provide even further exposure to the ways a patient can protect themselves



- Adrion, Emily R., et al. "Health Care Costs, Utilization and Patterns of Care Following Lyme Disease." *Plos One*, vol. 10, no. 2, Apr. 2015, doi:10.1371/journal.pone.0116767.
- CT Department of Public Health. (2017). *Lyme Disease Cases and Rate by Town and County 2017* [PDF File]. Retrieved from https://portal.ct.gov/-/media/Departments-and-Agencies/DPH/dph/infectious\_diseases/lyme/stats/CTLDStats2017.pdf?la=en.
- "Diagnosis of Lyme Disease." UpToDate, May 2018, www.uptodate.com/contents/diagnosis-of-lyme-disease?search=lyme disease&source=search\_result&selectedTitle=3~150&usage\_type=default&display\_rank=3.
- "Lyme Disease." Centers for Disease Control and Prevention, Centers for Disease Control and Prevention, 19 Jan. 2018, <a href="http://www.cdc.gov/lyme/index.html">www.cdc.gov/lyme/index.html</a>.
- "Lyme Disease." CT.gov Connecticuts Official State Website, portal.ct.gov/DPH/Infectious-Diseases/Tickborne/Lyme-Disease.
- Zhang, Xinzhi, et al. "Economic Impact of Lyme Disease." *Emerging Infectious Diseases*, vol. 12, no. 4, 2006, pp. 653–660., doi:10.3201/eid1204.050602.

### Consent



### Written Project:

Students are required to submit a 10-slide PowerPoint summarizing their community project at the end of their clerkship. The first nine slides should summarize the community project and should be uploaded to ScholarWorks separately from page 10. Slide 10 will state the following: Thank you for agreeing to be interviewed. This project is a requirement for the Family Medicine clerkship. It will be stored on the Dana Library ScholarWorks website. Your name will be attached to your interview and you may be cited directly or indirectly in subsequent unpublished or published work. The interviewer affirms that he/she has explained the nature and purpose of this project. The interviewee affirms that he/she has consented to this interview

If not consenting as above: please add the interviewee names here for the department of Family Medicine information only. Name:

If you received informed consent, please upload page 10 as a separate document entitled: "Name of Project/Interview Consent Form". If an informed consent was not received, please do not upload the consent page to ScholarWorks. However, you should include the consent page when submitting your PowerPoint to the Family Medicine Department.

These projects must be submitted electronically to the Clerkship Coordinator, Luke Hebert, at Luke.Hebert@med.uvm.edu no later than the morning of the final day, prior to sitting for the exam. Late projects receive an automatic 5 point deduction prior to faculty

### Hannah fischetto

### Written Project:

Students are required to submit a 10-slide PowerPoint summarizing their community project at the end of their clerkship. The first nine slides should summarize the community project and should be uploaded to ScholarWorks separately from page 10. Slide 10 will state the following: Thank you for agreeing to be interviewed. This project is a requirement for the Family Medicine clerkship. It will be stored on the Dana Library ScholarWorks website. Your name will be attached to your interview and you may be cited directly or indirectly in subsequent unpublished or published work. The interviewer affirms that he/she has explained the nature and purpose of this project. The interviewee affirms that he/she has consented to this interview.

### Yes /No

If not consenting as above: please add the interviewee names here for the department of Family Medicine information only. Name:

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