

HISTORY OF IDSA LYME GUIDELINES INVESTIGATION			
RED = IDSA Lyme Guideline Authors			
DATE	EVENT	PARTICIPANTS	NOTES
11-1-06	<b>IDSA 2006 Lyme Treatment Guidelines published</b>	Authors: <b>Wormser</b> (chair) <b>Nadelman</b> <b>Dattwyler</b> <b>Klempner</b> <b>Shapiro</b> <b>Steere</b> <b>Halperin</b> <b>Krause</b> <b>Dumler</b> <b>Bakken</b> <b>Strle</b> <b>Stanek</b> <b>Bockenstedt</b> <b>Fish</b>	<p>IDSA Guidelines: <a href="http://www.idsociety.org/lymedisease.htm">http://www.idsociety.org/lymedisease.htm</a></p> <p>Summary of changes that ILADS Lyme clinicians and patient advocates would like to make to the IDSA guidelines: <a href="http://www.lymedisease.org/news/lymepolicywonk/204.html">http://www.lymedisease.org/news/lymepolicywonk/204.html</a></p> <ul style="list-style-type: none"> <li>—Lab tests are too insensitive to be required for diagnosis of Lyme disease.</li> <li>—Evidence of persistent Lyme infection exists in animals and humans.</li> <li>—Restrictive treatment duration recommendations are inappropriate given the high failure rates of the treatment protocols in the guidelines for early, late and arthritic Lyme disease. On an intent-to-treat analysis—the treatment failures range from 5 to 40% for early Lyme and exceed 65% for late Lyme.</li> <li>—The prophylactic recommendation in the guidelines is not only ineffective, but may actually harm patients by abrogating their immune response.</li> <li>—There is no evidence to support the definition of Post-Lyme Disease Syndrome advanced in the guidelines or to limit treatment to patients whose health is not restored under the IDSA 21-day treatment protocols.</li> <li>—Despite assertions to the contrary, treatment studies cited in the IDSA guidelines do not support its recommendation not to retreat patients who remain ill after the short term treatment. The treatment studies cited are either too statistically flawed to be relied on (Klempner) or, when properly interpreted, actually support retreatment of patients (Fallon and Klempner).</li> <li>—Specific language in the guidelines is inaccurate and misleading. Examples of this include, the statements that there is no evidence of persistence, that the vast majority of patients are seropositive, or that persistent symptoms are no more than the “aches and pains of daily living.”</li> </ul>
11-16-06	<b>CT Atty General Blumenthal launches an investigation into conflicts of interest of IDSA Lyme guidelines authors.</b>		<p>Investigation summary: <a href="http://www.lymedisease.org/news/lymepolicywonk/15.html">http://www.lymedisease.org/news/lymepolicywonk/15.html</a></p> <p>Investigation ruling: <a href="http://www.ct.gov/AG/cwp/view.asp?a=2795&amp;q=414284">http://www.ct.gov/AG/cwp/view.asp?a=2795&amp;q=414284</a></p>
3-2007	Halperin writes Lyme section of <i>Dana Guide to Brain Health</i> (May 2007)	<b>Halperin</b>	<p>Excerpts:</p> <p>“Lyme disease does not cause psychiatric problems any more than any other comparable chronic illness.”</p> <p>“Treatment for Lyme disease is highly effective. Early in the disease, a course of oral antibiotics for three to four weeks results in a cure for about 95 percent of infected people.”</p> <p>“...there are no data to indicate that routine treatment for any period longer than four weeks is either necessary or reasonable.”</p> <p><a href="http://www.dana.org/news/brainhealth/detail.aspx?id=9832">http://www.dana.org/news/brainhealth/detail.aspx?id=9832</a></p>
5-6-2007	Krause medical lecture at “Emerging Clinical Issues in Infectious Diseases 2007 22nd Annual Spring Symposium”	<b>Krause</b>	<p>Emerging Tick-Borne Infections: Lyme Disease, Babesiosis and Human Granulocytic Anaplasmosis <a href="http://www.med.yale.edu/eph/faculty/krausecv.pdf">http://www.med.yale.edu/eph/faculty/krausecv.pdf</a></p>
7-3-2007	Halperin is lead author of <i>Neurology</i> journal’s “Treatment of nervous	<b>Halperin</b> (chair) <b>Shapiro</b> <b>Logigian</b>	<p>Neurology. 2007 Jul 3;69(1):91-102. Epub 2007 May 23. <a href="http://www.neurology.org/cgi/rapidpdf/01.wnl.0000265517.66976.28v1.pdf">http://www.neurology.org/cgi/rapidpdf/01.wnl.0000265517.66976.28v1.pdf</a></p> <p>A press statement from Blumenthal at the time said there were “improper links” between the Neurology panel and the IDSA</p>

	system Lyme disease”	Belman Dotevall <b>Wormser</b> Krupp Gronseth Bever Jr.	panel, including the overlap of chairmen and development timelines, which he said constituted “a violation of IDSA’s conflicts of interest policy.” He said the resulting guidelines “not only reached the same conclusions regarding the non-existence of chronic Lyme disease, [but] their reasoning at times used strikingly similar language.”
10-2007	Wormser, Shapiro repackage IDSA guidelines into NEJM article, <i>A critical appraisal of “chronic Lyme disease”</i>	Feder Johnson (CDC) O’Connell (UK) <b>Shapiro</b> <b>Wormser</b>	<i>A critical appraisal of “chronic Lyme disease”, New Engl J Med 2007;357:1422-30.</i> This article reviews the investigation, diagnosis and management of patients with longstanding infection, patients with continuing symptoms following treated Lyme disease and the misdiagnosis of “chronic Lyme disease” in patients who have other conditions. <a href="http://content.nejm.org/cgi/content/full/357/14/1422">http://content.nejm.org/cgi/content/full/357/14/1422</a> .  IDSA author <b>Klempner</b> is a NEJM Associate Editor at the time of publication.
10-2007	Gary Wormser awarded IDSA’s 2007 Society Citation.	<b>Wormser</b>	“a bold champion for rational, evidence-based medicine”
11-2007	Steere gives Grand Rounds Lyme lecture at Univ. of Michigan, televised	<b>Steere</b>	Grand Rounds: Lyme Disease and Its Treatment <a href="http://michiganchannel.org/search.php?searchVar=yng&amp;type=k">http://michiganchannel.org/search.php?searchVar=yng&amp;type=k</a>
12-13-2007	Steere gives Grand Rounds Lyme lectures at Univ. of Washington (Dec. 2007)	<b>Steere</b>	“What is Lyme Disease?” 20th Annual William M. M. Kirby Award Lecture <a href="http://mailman2.u.washington.edu/pipermail/medgrdrnds/2007-November/000016.html">http://mailman2.u.washington.edu/pipermail/medgrdrnds/2007-November/000016.html</a>
2007	Krause gives medical school lecture at Tufts Univ.	<b>Krause</b>	“Tick immunity and tick-borne infection” <a href="http://www.med.yale.edu/eph/faculty/krausecv.pdf">http://www.med.yale.edu/eph/faculty/krausecv.pdf</a>
2007	Krause gives featured talk, Eastern Society of Pediatric Research. Philadelphia.	<b>Krause</b>	“Development of a novel vaccine for prevention of tick-borne infections.” <a href="http://www.med.yale.edu/eph/faculty/krausecv.pdf">http://www.med.yale.edu/eph/faculty/krausecv.pdf</a>
3-6-2008	Steere writes Lyme chapter in <i>Harrison’s Principles of Internal Medicine</i>	<b>Steere</b>	<i>Harrison’s Principles of Internal Medicine</i> is an American textbook of internal medicine. First published in 1950, it is presently in its seventeenth edition (published in February 2008). Although it is aimed at all members of the medical profession, it is mainly used by internists and junior doctors in this field, as well as medical students.
5-1-2008	<b>IDSA settles with CT AG: Compromised guidelines must be re-reviewed</b>		The CT AG ruling requires IDSA to review its Lyme guidelines with conflict-free panel, and rewrite them if necessary. <a href="http://www.ct.gov/AG/cwp/view.asp?a=2795&amp;q=414284">http://www.ct.gov/AG/cwp/view.asp?a=2795&amp;q=414284</a>
5-11-2008	Steere gives Ohio Wesleyan’s graduation commencement speech	<b>Steere</b>	Speech Excerpt: “Over the past several decades, a Lyme disease counterculture has emerged that has ascribed a range of puzzling and poorly understood illnesses to this tick-borne infection... Diagnostic tests based on scientific studies fail to show evidence of Lyme disease in most of these patients. Additionally, 5 studies of pain and fatigue syndromes following Lyme disease reported that placebo treatment with a sugar pill gave similar results as long-term antibiotics. If you ignore scientific reality, if you twist it, if you wish for a particular answer, you will miss Mars and drift in space. Physicians, like myself, have said “scientific evidence does not support giving antibiotics for years for Lyme disease.” They have been denounced, threatened, and harassed.” <a href="http://commencement.owu.edu/pdfs/20080511-steere.pdf">http://commencement.owu.edu/pdfs/20080511-steere.pdf</a>
5-16-2008	Halperin gives talk at SUNY Buffalo	<b>Halperin</b>	“Lyme Disease: Facts and Myths.” Huang Lecture <a href="http://www.buffalo.edu/ubreporter/archives/vol39/vol39n31/vol39n31.pdf">http://www.buffalo.edu/ubreporter/archives/vol39/vol39n31/vol39n31.pdf</a>
6-2008	Halperin writes Nervous System Lyme Disease chapter of <i>Infectious Disease Clinics of North America</i>	<b>Halperin</b>	<i>Infectious Disease Clinics of North America</i> - Volume 22, Issue 2 (June 2008) Each issue of <i>Infectious Disease Clinics</i> reviews new diagnostic and management techniques for a single clinical problem--and makes them simple to apply. Its concise, comprehensive, and its editors and authors are respected experts. <a href="http://www.mdconsult.com/das/article/body/177687694-">http://www.mdconsult.com/das/article/body/177687694-</a>

	available online on MDConsult		2/jorg=clinics&source=&sp=20629703&sid=0/N/640184/1.html?issn=0891-5520#S0891552007001262
	Aguero-Rosenfeld writes Lyme Disease: Laboratory Issueschapter of <i>Infectious Disease Clinics of North America</i> available online on MDConsult	Aguero-Rosenfeld (works for <b>Wormser</b> )	Infectious Disease Clinics of North America - Volume 22, Issue 2 (June 2008) Each issue of <i>Infectious Disease Clinics</i> reviews new diagnostic and management techniques for a single clinical problem--and makes them simple to apply. Its concise, comprehensive, and its editors and authors are respected experts. <a href="http://www.mdconsult.com/das/article/body/177687694-2/jorg=clinics&amp;source=&amp;sp=20629699&amp;sid=0/N/640180/1.html?issn=0891-5520#h07001225010206">http://www.mdconsult.com/das/article/body/177687694-2/jorg=clinics&amp;source=&amp;sp=20629699&amp;sid=0/N/640180/1.html?issn=0891-5520#h07001225010206</a>
6-19-2008	Wormser gives Westchester Medical Primary Care Talk	<b>Wormser</b>	Westchester Medical Primary Care Talk: What's New in Tick-Borne Infections in the Lower Hudson Valley <a href="http://www.nymc.edu/fammed/08_FMConf.pdf">http://www.nymc.edu/fammed/08_FMConf.pdf</a>
9-2008	Halperin writes article in <i>Neuropathy News</i>	<b>Halperin</b>	Lyme Disease and Neuropathy "Although there is a lot of controversy about the treatment of Lyme disease, 2-4 week antibiotic regimens are highly effective, particularly in peripheral neuropathies... Like virtually every other known bacterial infection, Lyme disease can be treated with antibiotics." <a href="http://www.neuropathy.org/site/DocServer/Issue_31_Sept08_.pdf?docID=1661">http://www.neuropathy.org/site/DocServer/Issue_31_Sept08_.pdf?docID=1661</a>
9-19-2008	Wormser gives CBC Infectious Diseases Board Review Course	<b>Wormser</b>	Wormser presentations: <b>Lyme Disease: An Overview:</b> What do you need to know about pathogenesis, diagnosis, treatment, and prevention? <b>Ticks, Lice, Mites, and the Diseases:</b> They Transmit Recognition, diagnosis, and management of Rocky Mountain and other spotted fevers, human monocytic ehrlichiosis and granulocytic anaplasmosis, tularemia, relapsing fever, and babesiosis. Center for Bio-Medical Communication. (Speakers are paid expenses and an honoraria of \$1,500-\$3,000 depending on experience.) <a href="https://www.idboardreview.com/Faculty/">https://www.idboardreview.com/Faculty/</a> <a href="https://www.idboardreview.com/documents/Infectious%20Disease%20Broch08--6-20FINAL.pdf">https://www.idboardreview.com/documents/Infectious%20Disease%20Broch08--6-20FINAL.pdf</a>
10-1-2008	Fish Lyme lectures at Univ. of Florida (2008)	<b>Fish</b>	Excerpts: --No culture-confirmed cases of Lyme in the south, including Florida --Patient advocacy groups are spreading disinformation --No Lyme cases in Montana --No congenital transmission of Lyme (referring to activist poster) --Lyme is a curable disease; even disseminated disease responds to 30 days of antibiotics. It's rare for the disease to persist for more than a few years. --"There is a lot of bogus serology for Lyme in the south." --Lyme is easy to culture <a href="https://www.epi.ufl.edu/other/video/oct1.html">https://www.epi.ufl.edu/other/video/oct1.html</a> <a href="http://www.oceanaheraldjournal.com/news.php?story_id=31100&amp;storysize=4">http://www.oceanaheraldjournal.com/news.php?story_id=31100&amp;storysize=4</a>
1-28-2009	Halperin medical school lecture at Columbia University	<b>Halperin</b>	Department of Neurology Grand Rounds: "Why is nervous system Lyme disease such a headache?" The Neurological Institute of New York at Columbia University
2-18-2009	Shapiro Lyme lecture at UC Berkeley medical school	<b>Shapiro</b>	<b>Lyme Disease: The Truth about Ticks</b> Excerpts: Substantial evidence that there is no such thing as "chronic Lyme disease." Politicization of science (akin to creationism vs. evolution issue) Summary Points: --Medically unexplained symptoms are common --Cognitive behavior therapy is an effective treatment --Associated pathology is rare and seldom missed, whereas psychiatric diagnoses are common and often missed" (No honorarium) <a href="http://events.berkeley.edu/?event_ID=15791&amp;date=2009-02-18&amp;tab=lectures">http://events.berkeley.edu/?event_ID=15791&amp;date=2009-02-18&amp;tab=lectures</a>
3-22-2009	Steere gives medical school Lyme lecture at Univ. of	<b>Steere</b>	<a href="http://medschool.umaryland.edu/buzz/March_2009.pdf">http://medschool.umaryland.edu/buzz/March_2009.pdf</a>

	Maryland		
4-1-2009	IDSA publishes a free physician continuing education course on Lyme disease	Authors: <b>Halperin</b>  Working Group: <b>Wormser</b> <b>Steere</b> <b>Shapiro</b> <b>Fish</b> Mead (CDC)	IDSA CME Case Study Course for the Clinical Assessment, Treatment, and Prevention of Lyme Disease. The CDC immediately posted a highly visible link to it from their main Lyme website, along with a link to the 2006 IDSA guidelines. Of all the nationally notifiable diseases, the IDSA guidelines are the ONLY third party set of treatment guidelines that are featured on a CDC disease website. <a href="http://lymecourse.idsociety.org/LDCSC/Default.aspx">http://lymecourse.idsociety.org/LDCSC/Default.aspx</a>
4-14-2009	Halperin writes Lyme section of MedLink	<b>Halperin</b>	<a href="http://www.medlink.com/medlinkcontent.asp">http://www.medlink.com/medlinkcontent.asp</a>
4-24-2009	Wormser gives Grand Rounds Lyme lecture at NY Methodist Hospital (2009)	<b>Wormser</b>	<a href="http://www.nym.org/upload/document/Department%20of%20Medicine%20Grand%20Rounds.xls">http://www.nym.org/upload/document/Department%20of%20Medicine%20Grand%20Rounds.xls</a> (accessed 5-21-09)
5-30-2009	Shapiro CME Pediatrics course on Lyme at UC San Francisco	<b>Shapiro</b>	<b>Lyme Disease: The Truth about Ticks</b> Excerpts: Substantial evidence that there is no such thing as "chronic Lyme disease." Politicization of science (akin to creationism vs. evolution issue) Summary Points: --Medically unexplained symptoms are common --Cognitive behavior therapy is an effective treatment --Associated pathology is rare and seldom missed, whereas psychiatric diagnoses are common and often missed" <a href="http://www.ucsfme.com/2009/slides/MPD09001/21ShapiroLyme.pdf">http://www.ucsfme.com/2009/slides/MPD09001/21ShapiroLyme.pdf</a>
6-29-2009	Wormser gives Grand Rounds lecture at Bassett Healthcare in NY (2009)	<b>Wormser</b>	<a href="http://www.bassett.org/edu/weeklycalendar.cfm?weekid=325">http://www.bassett.org/edu/weeklycalendar.cfm?weekid=325</a> (accessed 5-21-09)
7-30-2009	IDSA Lyme Guidelines hearing held in D.C.		IDSA Hearing Summary <a href="http://underourskin.com/blog/?p=250">http://underourskin.com/blog/?p=250</a>
8-31-2009	Wormser teaches Infectious Disease Board Review Course (2009) Faculty, National Infectious Diseases	Faculty: <b>Wormser</b>  Co-director: David Gilbert	Wormser presentation: <b>Lyme Disease: An Overview:</b> What do you need to know about pathogenesis, diagnosis, treatment, and prevention? Disclosures: Will discuss commercial products and/or services; <b>No commercial interest or affiliation;</b> Will discuss off-label or investigative product use. Center for Bio-Medical Communication. (ID faculty are paid expenses and an honoraria of \$1,500-\$3,000 depending on experience.) <a href="https://www.idboardreview.com/Faculty/">https://www.idboardreview.com/Faculty/</a>
9-2009	Steere is section editor of the Lyme chapter in <i>UptoDate-Wolters-Kluwer Health</i> medical advice website (2009)	<b>Steere</b>	Excerpt: The term "chronic" Lyme disease is not technically correct as there is no evidence that the bacteria can survive after appropriate antibiotic treatment. There is no evidence that antibiotics improve post-Lyme disease symptoms. <a href="http://www.uptodate.com/patients/content/topic.do?topicKey=~3gC42m88uw9_uc&amp;selectedTitle=1~139&amp;source=search_result">http://www.uptodate.com/patients/content/topic.do?topicKey=~3gC42m88uw9_uc&amp;selectedTitle=1~139&amp;source=search_result</a>
10-29-2009	IDSA Annual Conference lectures by Wormser, Dumler, Steere, Beard (CDC)	<b>Wormser</b> <b>Steere</b> <b>Dumler</b>	--What's New in Tick-Borne Infections and their Diagnosis? (Dumler, Wormser) CME credits --Why is There No Vaccine for Lyme Disease? (Plotkin: Penn, Sanofi Pasteur, Wormser) --Relationship Between OspA and Lyme Arthritis (Steere) --The CDC View on a Lyme Disease Vaccine (Beard) --New Approaches to a Lyme Disease Vaccine (Ian Livey, PhD; Baxter) --A New Lyme Disease Vaccine is a Priority (Plotkin: U of Penn, Sanofi Pasteur)

			<p><b>Wormser</b> disclosures:</p> <p><b>Baxter Vaccine</b> (Consultant on upcoming Lyme vaccine)<sup>1</sup>  <b>GlaxoSmithKline Vaccine</b> (Consultant on Lyme vaccine)<sup>2</sup>  <b>Immunetics Tests</b> (Research support on vaccine-compatible C6 ELISA test)<sup>3</sup>  <b>Bio-Rad</b> (Lyme test research grant)<sup>4</sup>  <b>Biopeptides</b> (Research grant, OspA Lyme diagnostics company, possible consultant)<sup>5</sup>  <b>DiaSorin</b>: (Research grant, C6 test)<sup>6</sup>  <b>Merck</b> (Lecture fees)<sup>7</sup>  <b>AstraZeneca</b> (Lecture fees)<sup>8</sup>  <b>Pfizer</b> (Lecture fees, antibiotic research for tick-borne ehrlichia)<sup>9</sup>  <b>Connaught Vaccine</b> (Ran vaccine trials, \$1.5M for 2yrs)<sup>10, 11</sup></p> <p><b>Steere</b> disclosures:</p> <p><b>GlaxoSmithKline</b> (Consultant on European OspA vaccine)  <b>Baxter</b> (Consultant on upcoming vaccine)<sup>12</sup>  <b>Novartis</b> (Paid lecturer for mfr of Lyme arthritis painkiller, Prexige, &gt;\$10,000. honorarium for writing arthritis chapter)<sup>13, 14</sup>  <b>Viramed</b> (Research grant for Lyme test kits)<sup>15</sup>  <b>SmithKline Vaccine</b> (Lead investigator vaccine trials, represented before FDA)<sup>16</sup>  <b>Connaught</b> (Consulting on vaccine and represented before FDA)<sup>17</sup>  <b>MedImmune</b> (Consulting on vaccine, represented in front of FDA)  <b>Imugen</b> (Consultant for OspA-less western blot test, success hinges on success of OspA vaccine)</p>
--	--	--	--

Please send corrections and additions to krisnewby@comcast.net.

<sup>1</sup> **Wormser GP** et al. Self-disclosure of potential conflicts listed in *The Clinical Assessment, Treatment, and Prevention of Lyme Disease*. IDSA Guidelines. 2006.

<sup>2</sup> **Wormser GP**. Self-disclosed conflict in article Clinical practice. v. N Engl J Med. 2006; 354(26): 2794-801.

<sup>3</sup> **Wormser GP** et al. Self-disclosure of potential conflicts listed in *The Clinical Assessment, Treatment, and Prevention of Lyme Disease*. IDSA Guidelines. 2006.

<sup>4</sup> Self-disclosure. "A Critical Appraisal of Chronic Lyme Disease." N Engl J Med 357;14. Oct. 4, 2007. www.NEJM.org.

<sup>5</sup> Self-disclosure. "A Critical Appraisal of Chronic Lyme Disease." N Engl J Med 357;14. Oct. 4, 2007. www.NEJM.org.

<sup>6</sup> **Wormser GP**. Self disclosure. IDSA CME Case Study Course for the Clinical Assessment, Treatment, and Prevention of Lyme Disease. April 2009. www.lymecourse.idsociety.org

<sup>7</sup> Self-disclosure. "A Critical Appraisal of Chronic Lyme Disease." N Engl J Med 357;14. Oct. 4, 2007. www.NEJM.org.

<sup>8</sup> Self-disclosure. "A Critical Appraisal of Chronic Lyme Disease." N Engl J Med 357;14. Oct. 4, 2007. www.NEJM.org.

<sup>9</sup> **Wormser GP**. Self disclosure. **Antimicrobial susceptibility of Ehrlichia phagocytophila**. [Antimicrob Agents Chemother](#). 2001 Mar;45(3):786-8.

<sup>10</sup> **Lyme Disease Association**. Conflicts of Interest in Lyme Disease: Laboratory Testing, Vaccination, and Treatment Guidelines. 2001.

<http://www.lymediseaseassociation.org/ConflictReport.pdf/>. Accessed 1-21-07.

<sup>11</sup> **Wormser GP, Nowakowski J, Nadelman RB**, Schwartz I, McKenna D, Holmgren D, Aguerro-Rosenfeld M. Efficacy of an OspA vaccine preparation for prevention of Lyme disease in New York State. *Infection*. 1998 Jul-Aug;26(4):208-12. **1,634 patients enrolled**.

<sup>12</sup> **Abbott A**. Steere self-disclosure in article Uphill struggle. *Nature*. February 2, 2006, 439: 524-25

<sup>13</sup> **Steere, AC**. Case 11-2007. A 59-year-old man with neck pain, weakness in the arms, and cranial-nerve palsies. (Diagnosis: Neuroborreliosis) [N Engl J Med](#). 2007 Apr 12;356(15):1561-70. Self-disclosure of honorarium (>\$10,000) from Novartis, mfr of arthritis painkiller, Prexige, a company that benefits from the symptoms of under-treated Lyme disease. Also, <http://www3.interscience.wiley.com/cgi-bin/abstract/114203642/ABSTRACT?CRETRY=1&SRETRY=0>. Accessed 6-26-07.

<sup>14</sup> **Steere, AC**. Self-disclosure. 2007 IDSA Annual Meeting presentation, "Lyme Disease: When Symptoms Don't Improve."

<sup>15</sup> Self-disclosure. "A Critical Appraisal of Chronic Lyme Disease." N Engl J Med 357;14. Oct. 4, 2007. www.NEJM.org.

<sup>16</sup> **Lyme Disease Association**. Conflicts of Interest in Lyme Disease: Laboratory Testing, Vaccination, and Treatment Guidelines. 2001.

<http://www.lymediseaseassociation.org/ConflictReport.pdf>. Accessed

<sup>17</sup> **Steere, AC**. Disclosure in transcript. First formal meeting of the FDA's Vaccine and Related Biological Products Advisory Committee (VRBPAC). 6-7-94. (Need to find URL.)