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**List of 13 possible causes of atrial fibrillation (AF) by leading institute do not include Lyme disease. However, in majority of ECGs of AF, we often find various degree of Borrelia Burgdorferi (BB) infection of the heart with increase in ANP and cardiac troponin I from analysis of ECGs. It is possible to detect and treat these abnormalities before AF develops**

According to the currently available lists of possible causes of Atrial Fibrillation (A F), none of them mention Lyme disease, Borrelia Burgdorferi (B B) infection. Using very high sensitivity of Electromagnetic Field (EMF) Resonance Phenomenon between 2 identical molecules with identical weight, we can detect almost any molecules or infection including B B. Spirochete infection non-invasively from chest wall or recoded electrocardiograms (ECGs). The B B infections are often found in ECGs corresponding to SA-node area, right atrium, left atrium, etc. This non-invasive, sensitive method of detecting different molecules or specific cancer tissues was given US Patent in 1993. When we examine ECG of A.F, we found in majority of recoded ECGs, various degrees of B B infection exist at SA-node area, right atrium and left atrium. However, small degree of B B infection such as less than 1000ng we do not find A F. When degree of infection increased over 2000 or 3000ng and only when ANP (atrial natriuretic peptide) significantly increased over 150~200ng at where B B infection is significantly increased, they often develop A F. When there was A F, due to B B there was always very significant increase in ANP and cardiac troponin I (while in normal heart ANP is less than 10ng) and increased cardiac troponin I with decrease in Vitamin D3 and Taurine. It is well known that ANP is released from atrial muscle and it has function of reducing blood pressure as well as increasing excretion of sodium from kidney. Our study indicates significantly high percentage of various degrees of B B infection were detected in ECG showing presence of A F. Therefore, even when the patient does not have A F by non-invasively examining the degree of infection of Borrelia Burgdorferi Spirochete and abnormal increased ANP at atriums, we may be able to prevent development of atrial fibrillation since it indicates high probability of development of atrial fibrillation. For eliminating B B infection of heart, commonly used doxycycline often have some problem for various reasons, more effective result can be obtained by combined use of optimal doses of vitamin D3 or taurine and amoxicillin average 3 times a day, since vitamin D3 was found to have excellent urinary excreting effect of virus, bacteria and fungi as one of 7 unique beneficial effects.

### Biography

Yoshiaki Omura received Oncological Residency training at Cancer Institute of Columbia University & Doctor of Science Degree through research on Pharma-co-Electro-Physiology of Single Cardiac Cells *in-vivo* and *in-vitro* from Columbia University. He researched EMF Resonance phenomenon between 2 identical molecules for non-invasive detection of molecules, at Graduate Experimental Physics Dept., Columbia University, for which he received U.S. patent. He is also the creator of Bi-Digital O-Ring Test. He published over 270 original research articles, many chapters, & 9 books. He is currently Adjunct Prof. of Family & Community Medicine, New York Medical College; President & Prof. of Int'l College of Acupuncture and Electro-Therapeutics, NY; Editor in Chief, Acupuncture & Electro-Therapeutics Research, Int'l Journal of Integrative Medicine, (indexed by 17 major int'l Indexing Periodicals); Formerly, he was also Adjunct Prof. or Visiting Prof. in Universities in USA, France, Italy, Ukraine, Japan, Korea, & China.

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