Title: FMTVDM: Quantification of Tissue Differences and Treatment Monitoring.

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Abstract (250-300 word limit)

Nuclear imaging has previously been limited to visual interpretation of qualitative images resulting in a 35% error rate. FMTVDM is the First “quantitative” method which can differentiate between tissue types using (1) TFM for verifying nuclear camera accuracy for quantitative analysis and (2) Enhanced differentiation of tissue based upon regional blood flow and mitochondria metabolic function. As such FMTVDM can “quantitatively” differentiate between calcium/dead tissue, normal tissue, inflammatory tissue, pre-cancers and cancer. Given the “quantification” of FMTVDM, it is also able to determine if treatment has been effective or if treatment should be changed. The primary information to date has been for Breast Cancer; however, the patent and copyrights cover all cancers, vascular disease and methods of measuring nuclear isotopes including but not limited to SPECT and PET imaging.

Biography (100-150 word limit)

Dr. Richard M. Fleming was born and raised in Iowa and is a "Kennedy Kid" receiving advanced scientific training through this program he received a formal education in Calculus and Particle Physics. He has received degrees in Physics, Biology, Chemistry and Psychology graduating second in his class, attended the University of Iowa College of Medicine graduating with High Honors; 1 of 17 Honors IM. He completed his law degree receiving class award for memorandum of law. While at Iowa he participated in human research, studying sodium and hypertension by measuring nerve conduction differentiating parasympathetic vs sympathetic responses. He completed internship, residency and a Cardiology fellowship in Houston where he published several papers on QCA, diets and heart disease and trained in Nuclear Cardiology including both SPECT & PET. He is one of three "certified" in PET imaging following a one year course of study on anti-matter. He continued his investigation into the cause of heart disease and is the author and copyright holder of "Inflammation and Heart Disease," has been on The Today Show, MSNBC & 20/20. In 2005 he moved to the West Coast to help teach and train young physicians. His investigations have unmasked errors in the currently employed methods of detecting heart disease and breast cancer and has copyrights in both fields with patents pending on several methods to "quantitatively" detect these diseases thereby decreasing deaths, costs, time and radiation with associated risk of future cancer risks. He is currently expanding the use of these methods in the U.S., Canada, Europe and Asia. He has been involved with several Administrations as they relate to health care. He has published three independent books, Edited a Medical Textbook, has published several chapters in Medical Textbooks, and has more than 60 peer reviewed papers published in

medical journals. He has presented more than 60 times in the U.S., Canada, Europe, the Mideast and Asia.



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