UNITED STATES DISTRICT COURT
MIDDLE DISTRICT OF FLORIDA

NAVY SEAL 1, United States Navy, NAVY SEAL 2, United States Navy, EOD OFFICER, United States Navy, SENIOR CHIEF PETTY OFFICER, United States Navy, CHAPLAIN, United States Navy, LIEUTENANT COLONEL 1, United States Marine Corps, LIEUTENANT COLONEL 2, United States Marine Corps, MAJOR, United States Marine Corps, SECOND LIEUTENANT, United States Marine Corps, CAPTAIN, United States Marine Corps, ARMY RANGER, United States Army, LANCE CORPORAL 1, United States Marine Corps, LANCE CORPORAL 2, United States Marine Corps, MAJOR, UNITED STATES AIR FORCE, NATIONAL GUARDSMAN, Virginia Army National Guard, COAST GUARD LIEUTENANT, United States Coast Guard, COLONEL, United States Army, TECHNICAL SERGEANT, United States Air Force, DEFENSE DEPARTMENT CONTRACTOR, United States Department of Defense, FEDERAL CIVILIAN ENGINEER CONTRACTOR, FEDERAL CIVILIAN CONTRACTOR EMPLOYER, FEDERAL NUCLEAR CONTRACTOR EMPLOYEE, DEPARTMENT OF ENERGY CIVILIAN NUCLEAR TECH, for themselves and all others similarly situated, Plaintiffs, v. JOSEPH R. BIDEN, in his official capacity as President of the United States, LLOYD AUSTIN, in his official capacity as Secretary of the United States Department of Defense, and ALEJANDRO MAYORKAS, in his official capacity as Secretary of the Department of Homeland Security, Defendants.	Case No. _____

DECLARATION OF DR. PETER MCCULLOUGH, MD, MPH IN SUPPORT OF PLAINTIFFS' PETITION FOR PRELIMINARY INJUNCTION

I, Dr. Peter McCullough, do hereby declare as follows:

1. I am over eighteen years of age, and I am not suffering under any mental disability and am competent to give this sworn declaration. I am able to read and write and to give this declaration voluntarily and on my own free will and accord. No one has used any threats, force, pressure, or intimidation to make me sign this affidavit. I understand that I am swearing or affirming under oath to the truthfulness of the claims made in this affidavit under penalties of perjury; that I have read these statements in this affidavit; and these statements are my understanding of the facts and that my opinion provided is based on a reasonable degree of medical certainty. I am working on this case Pro Bono; and have not been paid by anyone to provide this opinion. I am providing this declaration as I have serious, grave concerns for these municipal workers and the public-at-large.

2. I have personal knowledge and understanding of these matters and I make this affidavit in support of the truth of the contents contained herein. In short: I believe within a reasonable degree of medical certainty that the COVID-19 vaccine(s) are not safe generally. It is my belief based on a reasonable degree of medical certainty that the vaccine could cause the death of the Plaintiffs. I believe within a reasonable degree of medical certainty that the data upon which the City of

Gainesville has based its mandate upon is flawed and/or inaccurate; and imposing this vaccine is not only dangerous and could cause harm to the Plaintiffs, but to the public-at-large who depend on first responders and critical infrastructure workers. In support, I submit the following for the Court's consideration:

3. Attached to this Declaration as **EXHIBIT 1** is my Curriculum Vitae. After receiving a bachelor's degree from Baylor University, I completed my medical degree as an Alpha Omega Alpha graduate from the University of Texas Southwestern Medical School in Dallas. I went on to complete my internal medicine residency at the University of Washington in Seattle, a cardiology fellowship including service as Chief Fellow at William Beaumont Hospital, and a master's degree in public health in the field of epidemiology at The University of Michigan. I am board certified in internal medicine and cardiovascular disease and hold an additional certification in clinical lipidology, and previously echocardiography. I participate in the maintenance of certification programs by the American Board of Internal Medicine for both Internal Medicine and Cardiovascular Diseases. I am an active scholar in medicine with roles as an author, editor-in-chief of a peer-reviewed journals, editorialist, and reviewer at dozens of major medical journals and textbooks.

4. I have led clinical, education, research, and program operations at major academic centers (Henry Ford Hospital, Oakland University William Beaumont

School of Medicine) as well as academically oriented community health systems. I spearheaded the clinical development of in vitro natriuretic peptide and neutrophil gelatinase associated lipocalin assays in diagnosis, prognosis, and management of heart and kidney disease now used worldwide. I also led the first clinical study demonstrating the relationship between severity of acute kidney injury and mortality after myocardial infarction. I have contributed to the understanding of the epidemiology of chronic heart and kidney disease through many manuscripts from the Kidney Early Evaluation Program Annual Data Report published in the American Journal of Kidney Disease and participated in clinical trial design and execution in cardiorenal applications of acute kidney injury, hypertension, acute coronary syndromes, heart failure, and chronic cardiorenal syndromes. I participated in event adjudication (involved attribution of cause of death) in trials of acute coronary syndromes, chronic kidney disease, heart failure, and data safety and monitoring of antidiabetic agents, renal therapeutics, hematology products, and gastrointestinal treatments. I have served as the chairman or as a member of over 20 randomized trials of drugs, devices, and clinical strategies. Sponsors have included pharmaceutical manufacturers, biotechnology companies, and the National Institutes of Health.

5. I frequently lecture and advise on internal medicine, nephrology, and cardiology to leading institutions worldwide. I am recognized by my peers for my

work on the role of chronic kidney disease as a cardiovascular risk state. I have over 1,000 related scientific publications, including the "Interface between Renal Disease and Cardiovascular Illness" in *Braunwald's Heart Disease Textbook*. My works have appeared in the *New England Journal of Medicine*, *Journal of the American Medical Association*, and other top-tier journals worldwide. I am a senior associate editor of the *American Journal of Cardiology*. I have testified before the U.S. Senate Committee on Homeland Security and Governmental Affairs, the U.S. Food and Drug Administration Cardiorenal Advisory Panel and its U.S. Congressional Oversight Committee, The New Hampshire Senate, the Colorado House of Commons, and the Texas Senate Committee on Health and Human Services. I am a Fellow of the American College of Cardiology, the American Heart Association, the American College of Physicians, the American College of Chest Physicians, the National Lipid Association, the Cardiorenal Society of America, and the National Kidney Foundation; and I am also a Diplomate of the American Board of Clinical Lipidology. In 2013, I was honored with the International Vicenza Award for Critical Care Nephrology for my contribution and dedication to the emerging problem of cardiorenal syndromes. I am a founding member of Cardiorenal Society of America, an organization dedicated to bringing together cardiologists and nephrologists and engage in research, improved quality of care, and community outreach to patients with both heart and kidney disease. I am the current President of the Cardiorenal

Society of America, an expert organization dedicated to advancing research and clinical care for patients who have combined heart and kidney disease. I am the former Editor-in-Chief of *Cardiorenal Medicine*, a primary research journal listed by the National Library of Medicine which is the only publication with a primary focus on research concerning patients with combined heart and kidney disease. Finally, I am the Editor-in-Chief of Reviews in Cardiovascular Medicine, a widely read journal that publishes reviews on contemporary topics in cardiology and is also listed by the National Library of Medicine.

6. Since the outset of the pandemic, I have been a leader in the medical response to the COVID-19 disaster and have published "Pathophysiological Basis and Rationale for Early Outpatient Treatment of SARS-CoV-2 (COVID-19) Infection," the first synthesis of sequenced multidrug treatment of ambulatory patients infected with SARS-CoV-2 in the American Journal of Medicine and updated in *Reviews in Cardiovascular Medicine*. I have 47 peer-reviewed publications on the COVID-19 infection cited in the National Library of Medicine. Through a window to public policymakers, I have contributed extensively on issues surrounding the COVID-19 crisis in a series of OPED's for *The Hill* in 2020. Starting in 2021, I publish a weekly contribution on *America Out Loud, The McCullough Report.* I testified on the SARS-CoV-2 outbreak in the U.S. Senate Committee on Homeland Security and Governmental Affairs on November 19,

2020. I testified on lessons learned from the pandemic response in the Texas Senate Committee on Health and Human Services on March 10, 2021, and on early treatment of COVID-19 at the Colorado General Assembly on March 31, 2021. Additionally, I testified in the New Hampshire Senate on legislation concerning the investigational COVID-19 vaccine on April 14, 2020. My expertise on the SARS-CoV-2 infection and COVID-19 syndrome, like that of infectious disease specialists, is approximately 18 months old with the review of hundreds of manuscripts and with the care of many patients with acute COVID-19, post-COVID-19 long-hauler syndromes, and COVID-19 vaccine injury syndromes including neurologic damage, myocarditis, and a variety of other internal medicine problems that have occurred after the mRNA and adenoviral DNA COVID-19 vaccines. I have formed my opinions in close communications with many clinicians around the world based on in part our collective clinical experience with acute and convalescent COVID-19 cases as well as closely following the preprint and published literature on the outbreak. I have specifically reviewed key published rare cases and reports concerning the possible recurrence of SARS- CoV-2 in patients who have survived an initial episode of COVID-19 illness. See attached Curriculum Vitae.

As to my Expert Opinion

7. The CDC recently reported the lowest number of cases since March of 2020 (the beginning of the COVID-19 pandemic). Sam Baker & Andrew

Witherspoon, COVID-19 cases hit lowest point in U.S. since pandemic began, AXIOS (June 3, 2021),[1]

8. Further, according to my research, herd immunity is calculated by a specific formula, as follows: ((CC*6) + V + (.15*P)) ÷ P = HIN.

CC= COVID-19 cases
in the state 6= the
current CDC multiplier
V= number of vaccinated in the state
15% = the number of people in a given state that will not get COVID-19 P=Population of a state
HIN=Herd Immunity Totals

By this method of calculation, the United States has achieved herd immunity meaning that the total of this calculation exceeds 100%. As vaccines continue to fail, we can expect cases of COVID-19 and the meaning of herd immunity applies to spread. Despite expected incidents and prevalent cases, my opinion is that spread will be minimized and there will be no more large outbreak curves as the country experienced in November through early January before the advent of widely deployed early treatment protocols. Because the randomized trials of all COVID-19 vaccines revealed < 1% absolute risk reductions, and the recent observation of widespread failure of COVID-19 vaccines in countries such as Israel which has a substantial population vaccinated early the pandemic, we can expect more vaccine

[1] https://www.axios.com/coronavirus-cases-infections-vaccines-success-fa7673a1-0582- 4e69-aefb-3b5170268048.html

failures in the United States and no fundamental impact of mass vaccination on the epidemic curves.

Table 1: COVID-19 Deaths by Age Group in the U.S. as of June 27, 2021: Source: https://COVID-19.cdc.gov/COVID-19-data-tracker/#demographics

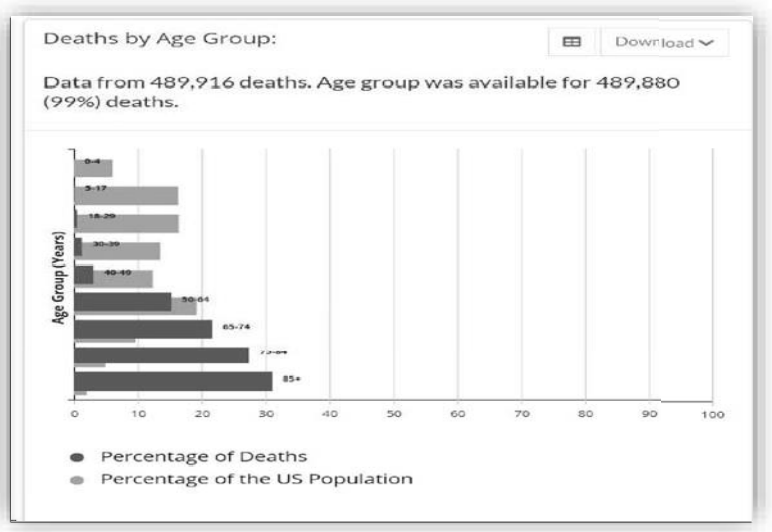


Table 2: COVID-19 Rate Ratios by Age.[2]

[2]https://www.cdc.gov/coronavirus/2019-ncov/COVID-19-data/investigations-discovery/hospitalizationdeath-by-age.html

Risk for COVID-19 Infection, Hospitalization, and Death By Age Group

Updated June 24, 2021 Print

Rate ratios compared to 18- to 29-year-olds[1]

	0-4 years old	5-17 years old	18-29 years old	30-39 years old	40-49 years old	50-64 years old	65-74 years old	75-84 years old	85+ years old
Cases[2]	<1x	1x	Reference group	1x	1x	1x	1x	1x	1x
Hospitalization[3]	<1x	<1x	Reference group	2x	2x	4x	6x	9x	15x
Death[4]	<1x	<1x	Reference group	4x	10x	35x	95x	230x	610x

All rates are relative to the 18- to 29-year-old age category. This group was selected as the reference group because it has accounted for the largest cumulative number of COVID-19 cases compared to other age groups. Sample interpretation: Compared with 18- to 29-year-olds, the rate of death is four times higher in 30- to 39-year-olds, and 610 times higher in those who are 85 years and older. (In the table, a rate of 1x indicates no difference compared to the 18- to 29-year-old age category.)

9. There is negligible risk for adults younger than the age of 60. For example, for each 18-29-year-old that dies from COVID-19, four 30-39 year old individuals die, ten 40-49-year-olds, thirty-five 50-64-year-olds die, ninety-five 65-74-year-olds die, 230 75-84-year-olds die, and 610 over 85 years of age die. See Table 2.

10. In my expert medical opinion, the epidemic spread of COVID-19, like all other respiratory viruses, notably influenza, is driven by symptomatic persons; asymptomatic spread is trivial and inconsequential.

11. A meta-analysis of contact tracing studies published in The Journal of the American Medical Association showed asymptomatic COVID-19 spread was negligible at 0.7%. Zachary J. Madewell, Ph.D.; Yang Yang, Ph.D.; Ira M. Longini Jr, Ph.D.; M. Elizabeth Halloran, MD, DSc; Natalie E. Dean, Ph.D., Household

Transmission of SARS-CoV-2: A Systematic Review and Meta-analysis, JAMA Network Open.[3] Accordingly, a rational and ethical prevention measure to reduce the spread of COVID-19 is a simple requirement, as part of formal policies, that persons with active symptomatic, febrile (feverish) respiratory illnesses, like COVID-19, should isolate themselves. Indeed, during the H1N1 influenza A pandemic, fully open, unmasked college campuses were advised by federal health officials, "Flu-stricken college students should stay out of circulation" and "if they can't avoid contact they need to wear surgical masks."[4]

Advances in COVID-19 Treatments

12. Even if the virus is contracted, the treatment of the infection has improved tremendously since the advent of COVID-19. Studies have shown several different treatment methods, which have proven effective. A combination of medications, supported by the Association of American Physicians and Surgeons, for a minimum of five days and acutely administered supplements used for the initial ambulatory patient with suspected and or confirmed COVID-19 (moderate or greater probability) has proven effective. Brian C Procter, Casey Ross, Vanessa Pickard, Erica Smith, Cortney Hanson, Peter A McCullough, Clinical outcomes after early

[3] https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2774102 (last visited June 20, 2021).
[4] Great Falls Tribune, Advice: Flu-stricken college students should stay out of circulation, August 21, 2009, page 5, section A, available at https://www.newspapers.com/image/243611045

ambulatory multidrug therapy for high-risk SARS-CoV-2 (COVID-19) infection,[5] summarized in Table 3 below. This approach has resulted in an ~85% reduction in hospitalization and death in high-risk individuals presenting with COVID-19[6]:

Table 3: COVID-19 Treatments

Agent (drug)	Rationale
Zinc	Inhibits SARS-CoV-2 RNA synthesis
Hydroxychloroquine 200 mg po bid	Inhibits endosomal transfer of virions, anti-inflammatory
Ivermectin (200 mcg/kg) usual dose	Attenuates importin á/â-mediated nuclear12 mg po qd x 3 days transport of SARS-CoV-2 into nucleus
Azithromycin 250 mg po bid	Covers respiratory bacterial pathogens insecondary infection
Doxycycline 100 mg po bid	Covers respiratory bacterial pathogens in secondary infection
Inhaled budesonide, Dexamethasone 8 mg IM	Treats cytokine storm
Folate, thiamine, vitamin B-12	Reduce tissue oxidative stress
Intravenous fluid	Intravascular volume expansion

13. I, along with my colleagues, conducted the study referenced in paragraph 23, which evaluated patients between the ages of 12 and 89 years. The average age was 50.5 and 61.6% were women. The study found that primary care physicians can

[5] Reviews in Cardiovascular Medicine (December 30, 2021), available at https://rcm.imrpress.com/EN/10.31083/j.rcm.2020.04.260 (last visited June 26, 2021)
[6] https://ijirms.in/index.php/ijirms/article/view/1100

treat COVID-19 patients resulting in rates of hospitalization and death. The study showed that administration of the medicines and supplements shown in Table 3 produces a less than 2% chance of facing hospitalization or death among high-risk adults (age over 50 with medical problems). As this study was done with mainly higher-risk patients at the peak of the pandemic, this is a highly successful treatment plan and just one of the many new treatments that have been used in the last year including those admitted for COVID-19 which are covered in the NIH COVID-19 Guidelines. Id.; see also National Institutes of Health, Therapeutic Management of Adults With COVID-19 (Updated May 24, 2021), https://www.COVID-1919treatmentguidelines.nih.gov/management/therapeutic- management/ (last visited June 21, 2021).

14. Treatment has improved so drastically for COVID-19 that according to the CDC AH Provisional COVID-19 Death Counts by Age, there were no deaths in Colorado for the 0-17 age group in 2020 or 2021. This is evidence of less virulent strains of SARS-CoV- 2 and better treatment and less risk for students and a generally lowered virulence for the SARS-CoV-2 strains as the pandemic progresses over time.

15. In my expert medical opinion, the combination of lowering COVID-19 rates, achievement of herd immunity, and the drastically improved treatment options make the Emergency Use Authorization for the investigational COVID-19 vaccine

sponsored by the US FDA and CDC, unreasonable from a scientific and medical perspective.

COVID-19 Vaccine Research and Development

16. The COVID-19 genetic vaccines (Pfizer, Moderna, J&J) skipped testing for genotoxicity, mutagenicity, teratogenicity, and oncogenicity. In other words, it is unknown whether or not these products will change human genetic material, cause birth defects, reduce fertility, or cause cancer.

17. The Pfizer, Moderna, and JNJ vaccines are considered "genetic vaccines", or vaccines produced from gene therapy molecular platforms which according to US FDA regulatory guidance are classified as gene delivery therapies and should be under a 15-year regulatory cycle with annual visits for safety evaluation by the research sponsors. FDA. Food and Drug Administration. (Long Term Follow-up After Administration of Human Gene Therapy Products. Guidance for Industry.[7]

18. The FDA has "advised sponsors to observe subjects for delayed adverse events for as long as 15 years following exposure to the investigational gene therapy product, specifying that the long-term follow-up observation should include a minimum of five years of annual examinations, followed by ten years of annual

[7] FDA-2018-D-2173. 2020. Accessed July 13, 2021, at https://www.fda.gov/regulatory-information/search-fda-guidance- documents/long-term-follow-after-administration-human-gene-therapy-products

queries of study subjects, either in person or by questionnaire." (emphasis added) Thus, the administration of the Moderna, Pfizer, and JNJ vaccines should not be undertaken without the proper consent and arrangements for long-term follow-up which are currently not offered in the US. (See, EUA briefing documents for commitments as to follow up: Moderna , Pfizer , J&J). They have a dangerous mechanism of action in that they all cause the body to make an uncontrolled quantity of the pathogenic wild-type spike protein from the SARS-CoV-2 virus for at least two weeks probably a longer period based on the late emergence of vaccine injury reports. This is unlike all other vaccines where there is a set amount of antigen or live-attenuated virus. This means for Pfizer, Moderna, and J&J vaccines it is not predictable among patients who will produce more or less of the spike protein. The Pfizer, Moderna, and JNJ vaccines because they are different, are expected to produce different libraries of limited antibodies to the now extinct wild-type spike protein. We know the spike protein produced by the vaccines is obsolete because the 17th UK Technical Report on SARS-CoV-2 Variants issued June 25, 2021, and the CDC June 19, 2021, Variant Report both indicate the SARS-CoV-2 wild type virus to which all the vaccines were developed is now extinct.[8]

[8] https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/1001354/Variants_of_Concern_VOC_Technical_Briefing_17.pdf; https://COVID-19.cdc.gov/COVID-19-datatracker/?CDC_AA_refVal=https%3A%2F%2Fwww.cdc.gov%2Fcoronavirus%2F2019ncov%2Fcases-updates%2Fvariant-proportions.html#variant-proportions

The spike protein itself has been demonstrated to injure vital organs such as the brain, heart, lungs, as well as damage blood vessels and directly cause blood clots. Additionally, because these vaccines infect cells within these organs, the generation of spike protein within heart and brain cells, in particular, causes the body's own immune system to attach to these organs. This is abundantly apparent with the burgeoning number of cases of myocarditis or heart inflammation among individuals below age 30 years.

Because the US FDA and CDC have offered no interpretation of overall safety of the COVID-19 vaccines according to the manufacturer or as a group, nor have they offered methods of risk mitigation for these serious adverse effects which can lead to permanent disability or death, no one should be pressured, coerced, receive the threat or reprisal, or be mandated to receive one of these investigational products against their will. Because the vaccine centers, CDC, FDA, and the vaccine manufacturers ask for the vaccine recipient to grant indemnification on the consent form before injection, all injuries incurred by the person are at their own cost which can be prohibitive depending on the needed procedures, hospitalizations, rehabilitation, and medications.

19. In general, it is never good clinical practice to widely utilize novel biological products in populations that have not been tested in registrational trials. For COVID-19 vaccines, this includes COVID-19 survivors, those with prior

suspected COVID-19 infection, those with positive SARS-CoV-2 serologies, pregnant women, and women of childbearing potential who cannot assure contraception.

20. It is never good research practice to perform a large-scale clinical investigation without the necessary structure to ensure the safety and protection of human subjects. These structures include a critical event committee, data safety monitoring board, and human ethics committee. These groups in large studies work to objectively assess the safety of the investigational product and research integrity. The goal is mitigating risk and protecting human subjects. It is my understanding that the COVID-19 vaccine program is sponsored by the CDC and FDA and has none of these safety structures in place. It is my assessment, that the COVID-19 clinical investigation has provided no meaningful risk mitigation for subjects (restricting groups, a special assessment of side effects, follow-up visits, or changes in the protocol to ensure or improve the safety of the program).

COVID-19 Vaccine Risks

21. The COVID-19 public vaccination program operated by the CDC and the FDA is a clinical investigation and under no circumstance can any person receive pressure, coercion, or threat of reprisal on their free choice of participation. Violation of this principle of autonomy by any entity constitutes reckless endangerment with a reasonable expectation of causing personal injury resulting in damages.

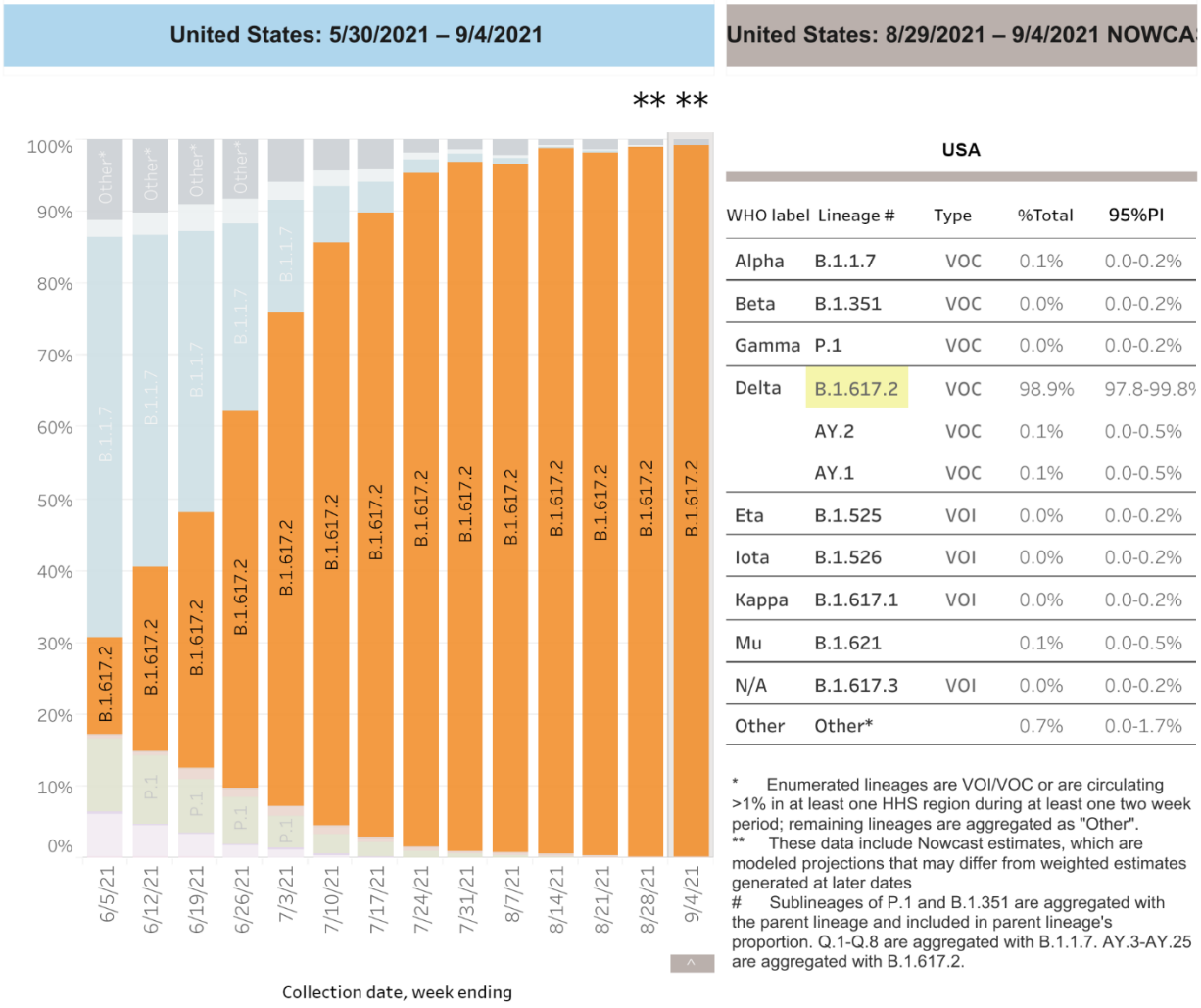
22. The current COVID-19 vaccines are not sufficiently protective against contracting COVID-19 to support its use beyond the current voluntary participation in the CDC- sponsored program. A total of 10,262 SARS-CoV-2 vaccine breakthrough infections had been reported from 46 U.S. states and territories as of April 30, 2021. Among these cases, 6,446 (63%) occurred in females, and the median patient age was 58 years (interquartile range = 40–74 years). Based on preliminary data, 2,725 (27%) vaccine breakthrough infections were asymptomatic, 995 (10%) patients were known to be hospitalized, and 160 (2%) patients died. Among the 995 hospitalized patients, 289 (29%) were asymptomatic or hospitalized for a reason unrelated to COVID-19. The median age of patients who died was 82 years (interquartile range = 71–89 years); 28 (18%) decedents were asymptomatic or died from a cause unrelated to COVID-19. Sequence data were available from 555 (5%) reported cases, 356 (64%) of which were identified as SARS-CoV-2 variants of concern, including B.1.1.7 (199; 56%), B.1.429 (88; 25%), B.1.427 (28; 8%), P.1 (28; 8%), and B.1.351 (13; 4%). None of these variants are encoded in the RNA or DNA of the current COVID-19 vaccines. In response to these numerous reports, the CDC announced on May 1, 2021, that community breakthrough cases would no longer be reported to the public and only those vaccine failure cases requiring hospitalization will be reported, presumably on the CDC website[9] This

[9] (https://www.cdc.gov/mmwr/volumes/70/wr/mm7021e3.htm).

overt asymmetric reporting will create the false picture of only unvaccinated individuals developing COVID-19 when in reality patients who are fully vaccinated will be contracting breakthrough infections except for those vaccinated individuals who were previously immune from prior COVID-19 infection.

23. The Delta variant of SARS-CoV-2 accounts for the 98.9% of present cases in the United Kingdom, Israel, and the United States.[10] (Because of progressive mutation of the spike protein, the virus has achieved an immune escape from the COVID-19 vaccines with the most obvious example being Israel where indiscriminate vaccination achieved 80% immunization rates. *See* Table 4.

[10] (https://covid.cdc.gov/covid-data-tracker/#variant-proportions)



24. This has promoted the emergence of the Delta variant as the dominant strain and because it is not adequately covered by the Pfizer COVID-19 vaccine, >80% of Israeli COVID- 19 cases have occurred in persons fully vaccinated. This confirms the failure of the vaccines against COVID-19.

Table 4: Israel Confirmed Cases, Vaccinated vs. Unvaccinated Source: https://datadashboard.health.gov.il/COVID-19019/general

25. In the SARS-CoV-2 variants of concern and variants under investigation

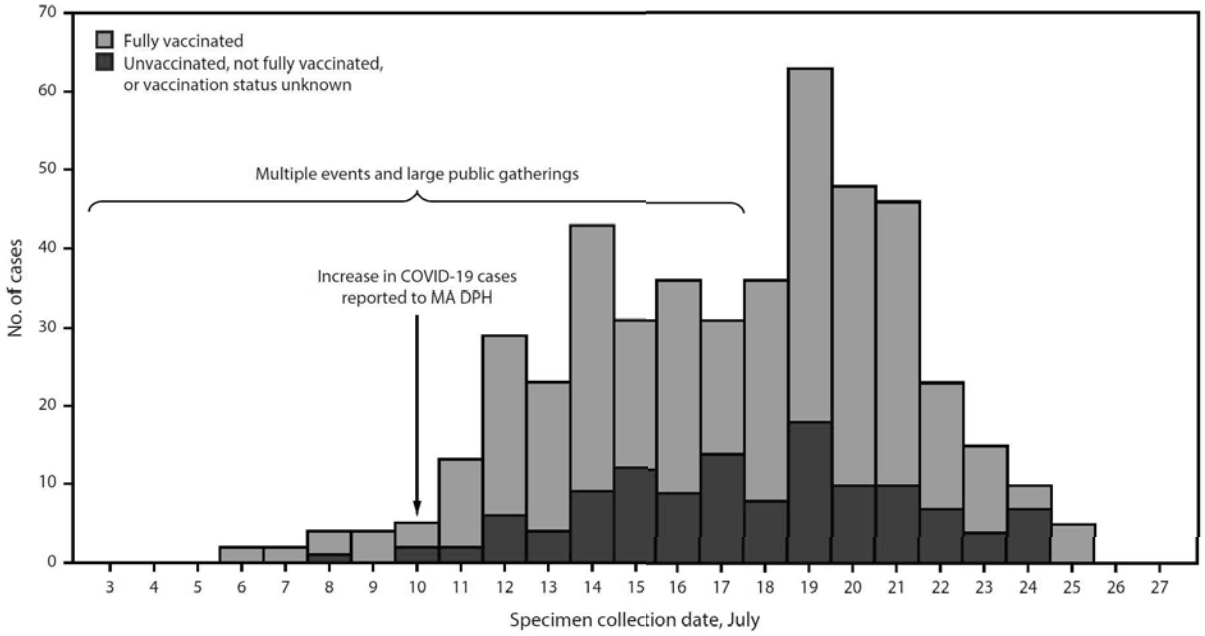
in England Technical briefing 17 25 June 2021, 92,056 cases had the Delta variant and 50/7235 fully vaccinated and 44/53,822 of the unvaccinated died. This indicates that the fully vaccinated who contract the Delta variant have an 8.6-fold increased risk for death, (95% CI 5.73-12.91), $p < 0.0001$, as compared to those who chose to remain unvaccinated.[11]

26. The CDC has published a report titled: "Outbreak of SARS-CoV-2 Infections, Including COVID-19 Vaccine Breakthrough Infections, Associated with Large Public Gatherings — Barnstable County, Massachusetts, July 2021" demonstrating complete failure of the COVID-19 in controlled spread of SARS-CoV-2 in congregate settings. My interpretation of this report is that the vaccines are not sufficiently effective to make the elective, investigation vaccine recommended for use beyond individual preference.[12]

[11] https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/1001354/Variants_of_Concern_VOC_Technical_Briefing_17.pdf

[12] https://www.cdc.gov/mmwr/volumes/70/wr/pdfs/mm7031e2-H.pdf

FIGURE 1. SARS-CoV-2 infections (N = 469) associated with large public gatherings, by date of specimen collection and vaccination status* — Barnstable County, Massachusetts, July 2021



Abbreviation: MA DPH = Massachusetts Department of Public Health.
* Fully vaccinated was defined as ≥14 days after completion of state immunization registry–documented COVID-19 vaccination as recommended by the Advisory Committee on Immunization Practices.

27. In 1990, the Vaccine Adverse Event Reporting System ("VAERS") was established as a national early warning system to detect possible safety problems in U.S. licensed vaccines. VAERS is a passive reporting system, meaning it relies on individuals to voluntarily send in reports of their experiences to the CDC and FDA. VAERS is useful in detecting unusual or unexpected patterns of adverse event reporting that might indicate a possible safety problem with a vaccine.

28. The total safety reports in VAERS for all vaccines per year up to 2019 was 16,320. The total safety reports in VAERS for COVID-19 Vaccines alone through October 1, 2021, is 778,683. Based on VAERS as of October 1, 2021, there

were 16,310 COVID-19 vaccine deaths reported and 75,605 hospitalizations reported for the COVID-19 vaccines (Pfizer, Moderna, JNJ). By comparison, from 1999, until December 31, 2019, VAERS received 3167 death reports (158 per year) adult death reports for all vaccines combined. Thus, the COVID-19 mass vaccination is associated with at least a 39-fold increase in annualized vaccine deaths reported to VAERS

29. COVID-19 vaccine adverse events account for 98% of all vaccine-related AEs from December 2020 through the present in VAERS.

30. The COVID-19 vaccines are not safe for general use and cannot be deployed indiscriminately or supported, recommended, or mandated among any group.

31. There are emerging trends showing that the vaccine is especially risky for those 12- 29 in my expert medical opinion with complications in the cardiovascular, neurological, hematologic, and immune systems. (See, Rose J, et al). Increasingly the medical community is acknowledging the possible risks and side effects including myocarditis, Bell's Palsy, Pulmonary Embolus, Pulmonary Immunopathology, and severe allergic reaction causing anaphylactic shock. See Chien-Te Tseng, Elena Sbrana, Naoko Iwata- Yoshikawa, Patrick C Newman, Tania Garron, Robert L Atmar, Clarence J Peters, Robert B Couch, Immunization with SARS coronavirus vaccines leads to pulmonary immunopathology on challenge

with the SARS virus, https://pubmed.ncbi.nlm.nih.gov/22536382/ (last visited June 21, 2021); Centers for Disease Control and Prevention, Allergic Reactions Including Anaphylaxis After Receipt of the First Dose of Pfizer-BioNTech COVID-19 Vaccine—United States, December 14– 23, 2020 (Jan 15, 2021).[13]

32. The Centers for Disease Control has held emergency meetings on this issue and the medical community is responding to the crisis. It is known that myocarditis causes injury to heart muscle cells and may result in permanent heart damage resulting in heart failure, arrhythmias, and cardiac death. These conditions could call for a lifetime need for multiple medications, implantable cardio defibrillators, and heart transplantation. Heart failure has a five-year 50% survival and would markedly reduce the lifespan of a child or young adult who develops this complication after vaccine-induced myocarditis (ref McCullough PA Reach Study).

33. COVID-19 vaccine-induced myocarditis has a predilection for young males below age 30 years. The Centers for Disease Control has held emergency meetings on this issue and the medical community is responding to the crisis and the US FDA has issued a warning on the Pfizer and Moderna vaccines for myocarditis. In the cases reviewed by the CDC and FDA, 90% of children with COVID-19 induced myocarditis developed symptoms and clinical findings sufficiently severe to warrant hospitalization. Because this risk is not predictable and the early reports

[13] https://www.cdc.gov/mmwr/volumes/70/wr/mm7002e1.htm (last visited June 26, 2021).

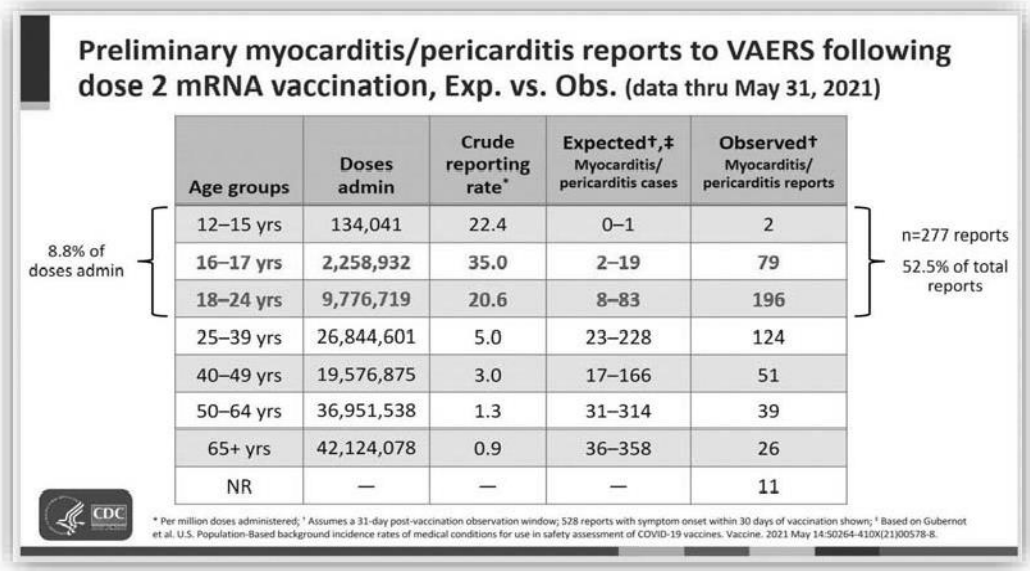
may represent just the tip of the iceberg, no individual under age 30 under any set of circumstances should feel obliged to take this risk with the current genetic vaccines particularly the Pfizer and Moderna products. https://www.fda.gov/news-events/press-announcements/coronavirus-COVID-19-update- june-25-2021.

34. Multiple recent studies and news reports detail people 18-29 dying from myocarditis after receiving the COVID-19 vaccine. According to the CDC, 475 cases of pericarditis and myocarditis have been identified in vaccinated citizens aged 30 and younger. See FDA, Vaccines and Related Biological Products Advisory Committee June 10, 2021, Meeting Presentation.[14]

35. The FDA found that people 12-24 account for 8.8% of the vaccines administrated, but 52% of the cases of myocarditis and pericarditis were reported. Id.

[14] https://www.fda.gov/media/150054/download#page=17 (last visited June 21, 2021).

Table 5: VAERS Report



Preliminary myocarditis/pericarditis reports to VAERS following dose 2 mRNA vaccination, Exp. vs. Obs. (data thru May 31, 2021)

Age groups	Doses admin	Crude reporting rate*	Expected†,‡ Myocarditis/ pericarditis cases	Observed† Myocarditis/ pericarditis reports
12–15 yrs	134,041	22.4	0–1	2
16–17 yrs	2,258,932	35.0	2–19	79
18–24 yrs	9,776,719	20.6	8–83	196
25–39 yrs	26,844,601	5.0	23–228	124
40–49 yrs	19,576,875	3.0	17–166	51
50–64 yrs	36,951,538	1.3	31–314	39
65+ yrs	42,124,078	0.9	36–358	26
NR	—	—	—	11

8.8% of doses admin

n=277 reports

52.5% of total reports

CDC

* Per million doses administered; † Assumes a 31-day post-vaccination observation window; 528 reports with symptom onset within 30 days of vaccination shown; ‡ Based on Gubernot et al. U.S. Population-Based background incidence rates of medical conditions for use in safety assessment of COVID-19 vaccines. Vaccine. 2021 May 14:S0264-410X(21)00578-8.

36. Further, the CDC just announced that the vaccine is "likely linked" to myocarditis. Advisory Board, CDC panel reports 'likely association' of heart inflammation and mRNA COVID-19 vaccines in young people, (June 24, 2021).[15].

37. The CDC recently released data stating that there have been 267 cases of myocarditis or pericarditis reported after receiving one dose of the COVID-19 vaccines and 827 reported cases after two doses through June 11. There are 132 additional cases where the number of doses received is unknown. Id. There have been 2466 reported cases of myocarditis that have occurred, and the median age is thirty.[16]

[15] https://www.advisory.com/daily- briefing/2021/06/24/heart-inflammation.
[16] Id. https://www.openvaers.com/COVID-19-data (accessed July 17, 2021)

38. On June 23, 2021, Dr. Matthew Oster, who serves on President Joe Biden's CDC COVID-19 Task Force, stated in a PowerPoint presentation that the mRNA vaccines are causing myocarditis in "young men aged 16-30," adding, "It does appear that mRNA vaccines may be a new trigger for Myocarditis." See Matthew Oster, Overview of Myocarditis and Pericardits: ACP COVID-19 Vaccines Work Group June 23, 2021[17]

39. On June 29, 2021, the Defense Health Agency (DHA) published a report in the *Journal of the American Medical Association Cardiology* (JAMA) entitled, "Myocarditis Following Immunization with mRNA COVID-19 Vaccines in Members of the U.S. Military."[18] The study reports that previously healthy service members have developed myocarditis, a severe and life-threatening inflammation of the heart, within an average of just four days of receiving their first shot of either the Pfizer-BioNTech or the Moderna vaccine.

40. I have seen and examined adolescent patients with post-COVID-19 myocarditis which typically occurs two days after the injection, most frequently after the second injection of mRNA products (Pfizer, Moderna). The clinical manifestations can be chest pain, signs and symptoms of heart failure, and

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[17] https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2021-06/02-COVID-Oster-508.pdf (last visited October 12, 2021); see also https://nypost.com/2021/06/23/covid-19-vaccines-from-pfizer-moderna-likely-linked-to-rare-heart-condition-cdc-panel/

[18] https://jamanetwork.com/journals/jamacardiology/fullarticle/2781601 (last visited October 12, 2021)

arrhythmias. The diagnosis usually requires a clinical or hospital encounter, 12-lead electrocardiogram, blood tests including cardiac troponin (test for heart muscle damage), ECG monitoring, and cardiac imaging with echocardiography or cardiac magnetic resonance imaging. Given the risks for either manifest or future left ventricular dysfunction, patients are commonly prescribed heart failure medications (beta-blockers, renin-angiotensin system, inhibitors), and aspirin. More complicated patients require diuretics and anticoagulants. For post- COVID-19 vaccine myocarditis, I follow current position papers on the topic and restrict physical activity and continue medications for approximately three months before blood biomarkers and cardiac imaging are reassessed. If there is concurrent pericarditis, non-steroidal anti-inflammatory agents and colchicine may additionally be prescribed. Multiple medical studies are starting to come out detailing this problem.[19] Acute myocarditis can lead to sudden death.

[19] See, e.g., Tommaso D'Angelo MD, Antonino Cattafi MD, Maria Ludovica Carerj MD, Christian Booz MD, Giorgio Ascenti MD, Giuseppe Cicero MD, Alfredo Blandino MD. Silvio Mazziotti MD, Myocarditis after SARS-CoV-2 Vaccination: A Vaccine-induced Reaction?, Pre-proof, Canadian Journal of Cardiology, https://www.onlinecjc.ca/article/S0828-282X(21)00286-5/fulltext (last visited June 26, 2021); Jeffrey Heller, Israel sees probable link between Pfizer vaccine and myocarditis cases (June 2, 2021), https://www.reuters.com/world/middle-east/israel-sees-probable-link-between-pfizer-vaccine-small-number-myoca rditis-cases-2021-06-01/(last visited June 26, 2021); Tschöpe C, Cooper LT, Torre-Amione G, Van Linthout S. Management of Myocarditis-Related Cardiomyopathy in Adults. Circ Res. 2019 May 24;124(11):1568-1583. doi: 10.1161/CIRCRESAHA.118.313578. PMID: 31120823. Caforio AL, Pankuweit S, Arbustini E, Basso C, Gimeno- Blanes J, Felix SB, Fu M, Heliö T, Heymans S, Jahns R, Klingel K, Linhart A, Maisch B, McKenna W, Mogensen J, Pinto YM, Ristic A, Schultheiss HP, Seggewiss H, Tavazzi L, Thiene G, Yilmaz A, Charron P, Elliott PM; European Society of Cardiology Working Group on Myocardial and Pericardial

The US FDA has given an update on the JNJ vaccine concerning the risk of cerebral venous sinus thrombosis and thrombosis with thrombocytopenia in women ages 18-48 associated with low platelet counts death.. This complication causes a variety of stroke-likesyndromes that can involve the cranial nerves, vision, and coordination. Blood clots in the venous sinuses of the brain are difficult to remove surgically and require blood thinners sometimes with only partial recovery. In some cases, special glasses are required to correct vision and these young adults can be expected to miss considerable time away from school undergoing neurological rehabilitation. Because this risk is not predictable no woman under age 48 under any set of circumstances should feel obliged to take this risk with the JNJ vaccine. Such catastrophic neurologic thrombotic events could occur in first responders or critical infrastructure employees while on duty. https://www.fda.gov/news-events/press-announcements/joint-cdc-and-fda-statement-johnson-johnson-COVID-19-vaccine.

41. Additionally, the US FDA has an additional warning for Guillen-Barre Syndrome or ascending paralysis for the JNJ vaccine which is not predictable and

Diseases. Current state of knowledge on aetiology, diagnosis, management, and therapy of myocarditis: a position statement of the European Society of Cardiology Working Group on Myocardial and Pericardial Diseases. Eur Heart J. 2013 Sep;34(33):2636-48, 2648a- 2648d. doi: 10.1093/eurheartj/eht210. Epub 2013 Jul 3. PMID: 23824828

when it occurs can result in ascending paralysis, respiratory failure, the need for critical care, and death. Not all cases completely resolve, and some vaccine victims may require long term mechanical ventilation, or become quadra- or paraplegics. Prolonged neurological rehabilitation is commonly required, and this will call for time away from school and studies for those children injured from the JNJ vaccine with Guillen-Barre Syndrome. This syndrome is unpredictable and could occur in a critical worker while on duty and thus potentially harming others (passengers, coworkers, etc). https://www.fda.gov/media/150723/download.

42. The vaccine is also far less safe than previous vaccines like the meningococcal meningitis vaccine that is typically required on college campuses which in 2019 recorded zero deaths. The COVID-19 vaccines since their EUA approval on May 10, 2021, have already claimed the lives of 15 children and 79 young individuals under age 30 (VAERS).

43. For example, the VAERS (Vaccine Adverse Event Reporting System) data from the CDC shows, for 18-29-year-olds, there have been no deaths from the meningococcal vaccine from 1999 – 2019.[20]

44. The main side effects people reported from the meningitis vaccine are

[20] See, United States Department of Health and Human Services (DHHS), Public Health Service (PHS), Centers for Disease Control (CDC)/Food and Drug Administration (FDA), Vaccine Adverse Reporting System (VAERS) 1990 - 06/11/2021, CDC WONDER On-line Database. Accessed at https://wonder.cdc.gov/vaers.html on June 23, 2021, 1:43:33 PM, ("Query Criteria"), Attached as Exhibit C.

headache, injection site pain, nausea, chills, and a fever, and even these were limited as no more than fifteen of each were reported. Id. The student population and their parents, in general, accept the requirements for meningococcal vaccination because the vaccines are safe, effective, and do not pose a risk of death, unlike the COVID-19 vaccines.

45. In the brief time the COVID-19 vaccines have been available, there have been many more serious symptoms and even a death of a healthy 13-year-old boy. (See Nationwide VAERS COVID-19 Vaccine Data through June 18, 2021, attached as **EXHIBIT 2**). Further, milder side effects from the vaccine include changes in hormone and menstrual cycles in women, fever, swelling at the injection site, etc.[21].

46. At the time of this report, the CDC/FDA as the US public vaccine sponsors have yet to present to America a comprehensive COVID-19 vaccine safety report according to manufacturer, region, and patient categories who have volunteered for vaccination. Likewise, there has been no comprehensive report on vaccine efficacy particularly in the present era of the Delta variant.

47. Recent studies from Tess Lawrie, MBBS, PhD, a highly respected

[21] Jill Seladi-Schulman, Ph.D., Can COVID-19 or the COVID-19 Vaccine Affect Your Period? (May 25, 2021), https://www.healthline.com/health/menstruation/can-COVID-19-affect-your-period#COVID-19-and-men%20strual-cycles (last visited June 26, 2021); Rachael K. Raw, Clive Kelly, Jon Rees, Caroline Wroe, David R. Chadwick, Previous COVID-19 infection but not Long-COVID-19 is associated with increased adverse events following BNT162b2/Pfizer vaccination, (pre-print) https://www.medrxiv.org/content/10.1101/2021.04.15.21252192v1 (last visited June 26, 2021)

evidence-based professional, on the UK's equivalent of the VAERS systems concluded that the vaccines were unsafe for use in humans due to the extensive side effects they are causing. Tess Lawrie, Re. Urgent preliminary report of Yellow Card data up to 26th May 2021, (June 9, 2021), http://www.skirsch.com/COVID-19/TessLawrieYellowCardAnalysis.pdf

Risks of COVID-19 Vaccines for Those Recovered from COVID-19

48. There is recent research on the fact that the COVID-19 vaccine is dangerous for those who have already had COVID-19 and have recovered with inferred robust, complete, and durable immunity. These patients were excluded from the FDA-approved clinical trials performed by Pfizer, Moderna, and J&J. From these trials the safety profile was unknown when the products for approved for Emergency Use Authorization in 2020. There has been no study demonstrating clinical benefit with COVID-19 vaccination in those who have well documented or even suspected prior COVID-19 illness.

49. A medical study of United Kingdom healthcare workers who had already had COVID-19 and then received the vaccine found that they suffered higher rates of side effects than the average population.[22].

50. The test group experienced more moderate to severe symptoms than the

[22] Rachel K. Raw, et al., Previous COVID-19 infection but not Long-COVID-19 is associated with increased adverse events following BNT162b2/Pfizer vaccination, medRxiv (preprint), https://www.medrxiv.org/content/10.1101/2021.04.15.21252192v1 (last visited June 21, 2021)

study group that did not previously have COVID-19. Id. The symptoms included fever, fatigue, myalgia-arthralgia, and lymphadenopathy. Id. Raw found that in 974 individuals who received the BNT162b2/Pfizer vaccine, those with a prior history of SARS-CoV-2 or those who had positive antibodies at baseline had a higher rate of vaccine reactions than those who were COVID-19 naive. Id.

51. Mathioudakis et al. reported that in 2020 patients who underwent vaccination with either mRNA-based or vector-based COVID-19 vaccines, COVID-19-recovered patients who were needlessly vaccinated had higher rates of vaccine reactions.

52. Krammer et al. reported on 231 volunteers for COVID-19 vaccination, 83 of whom had positive SARS-CoV-2 antibodies at the time of immunization. The authors found: "Vaccine recipients with preexisting immunity experience systemic side effects with a significantly higher frequency than antibody naïve vaccines (e.g., fatigue, headache, chills, fever, muscle or joint pains, in order of decreasing frequency, $P < 0.001$ for all listed symptoms, Fisher's exact test, two-sided)."[23]

Natural Immunity to COVID-19

53. To my knowledge, there are no trustworthy studies that demonstrate the clinical benefit of COVID-19 vaccination in COVID-19 survivors or those with

[23] (https://www.medrxiv.org/content/10.1101/2021.01.29.21250653v1).

suspected COVID-19 illness or subclinical disease who have laboratory evidence of prior infection.

54. It is my opinion that SARS-CoV-2 causes an infection in humans that results in robust, complete, and durable immunity, and is superior to vaccine immunity which by comparison has demonstrated massive failure including over 10,000 well-documented vaccine failure cases as reported by the CDC before tracking was stopped on May 31, 2021. There are no studies demonstrating the clinical benefit of COVID-19 vaccination in COVID-19 survivors and there are three studies demonstrating harm in such individuals. Thus, it is my opinion that the COVID-19 vaccination is contraindicated in COVID-19 survivors many of whom may be in the student population.

55. Multiple laboratory studies conducted by highly respected U.S. and European academic research groups have reported that convalescent mildly or severely infected COVID-19 patients who are unvaccinated can have greater virus-neutralizing immunity— especially more versatile, long-enduring T- cell immunity—relative to vaccinated individuals who were never infected.[24].

[24] See Athina Kilpeläinen, et al., Highly functional Cellular Immunity in SARS-CoV-2 Non-Seroconvertors is associated with immune protection, bioRxiv (pre-print), https://www.biorxiv.org/content/10.1101/2021.05.04.438781v1 (last visited June 26, 2021); Tongcui Ma, et al., Protracted yet coordinated differentiation of long-lived SARS- CoV-2-specific CD8+ T cells during COVID-19 convalescence, bioRxiv (pre-print), https://www.biorxiv.org/content/10.1101/2021.04.28.441880v1 (last visited June 26, 2021); Claudia Gonzalez, et al., Live virus neutralisation testing in convalescent patients and subjects vaccinated against 19A, 20B, 20I/501Y.V1 and 20H/501Y.V2 isolates of SARS-CoV-2, medRxiv

56. Cleveland Clinic studied their employees for the effects of natural immunity in unvaccinated people.[25] They found zero SARS-CoV-2 reinfections during a 5-month follow-up among n=1359 infected employees who were naturally immune remained unvaccinated and concluded such persons are "unlikely to benefit from COVID-19 vaccination." Among those who were vaccinated, unlike the naturally immune, there were vaccine failure or breakthrough cases of COVID-19. Id.

57. An analysis by Murchu et al demonstrated in 615,777 individuals which included well-documented COVID-19 as well as subclinical infections with positive serologies, there was a negligible incidence (<1%) of COVID-19 over the long term. Murchu found no evidence of waning immunity over time suggesting no possibility that future vaccination would be indicated for any reason.

(pre-print), https://www.medrxiv.org/ content/10.1101/2021.05.11.21256578vl (last visited June 21, 2021); Carmen Camara, et al. Differential effects of the second SARS-CoV-2 mRNA vaccine dose on T cell immunity in naïve and COVID-19 recovered individuals, bioRxiv (pre-print), https://www.biorxiv.org/content/10.1101/2021.03.22.436441v1 (last visited June 26, 2021); Ellie N. Ivanova, et al., Discrete immune response signature to SARS-CoV-2 mRNA vaccination versus infection, medRxiv (pre-print), https://www.medrxiv.org/content/10.1101/2021.04.20.21255677v1 (last visited June 26, 2021); Catherine J. Reynolds, et al, Prior SARS-CoV-2 infection rescues B and T cell responses to variants after first vaccine dose, (pre-print), https://pubmed.ncbi.nlm.nih.gov/33931567/ (last visited June 21, 2021); Yair Goldberg, et al., Protection of previous SARS-CoV-2 infection is similar to that of BNT162b2 vaccine protection: A three-month nationwide experience from Israel, medRxiv (pre-print), https://www.medrxiv.org/content/10.1101/2021.04.20.21255670vl (last visited 06/2621)

[25] Nabin K. Shrestha, Patrick C. Burke, Amy S. Nowacki, Paul Terpeluk, Steven M. Gordon, Necessity of COVID-19 vaccination in previously infected individuals, medRxiv (pre-print), https://www.medrxiv.org/content/10.1101/2021.06.01.21258176v2 (last visited June 21, 2021).

https://onlinelibrary.wiley.com/doi/10.1002/rmv.2260.

58. A recently published article in Nature reported that prior infection induces long- lived bone marrow plasma cells which means the antibodies to prevent reinfection of COVID-19 are long-lasting.[26]

CONCLUSION

In my expert medical opinion which is and is within a reasonable degree of medical certainty, despite the current Delta variant outbreak, the increasing likelihood of herd immunity to COVID-19, the low risk to children and adolescents of serious complications or death due to COVID-19, the negligible risk of asymptomatic spread of COVID-19, the vastly improved COVID-19 treatments currently available all make the risks inherent in COVID-19 significantly lower than they were in 2020.

It is my expert medical opinion that the COVID-19 vaccines are progressively losing efficacy over the prevention of COVID-19 and in widely vaccinated countries (Israel, Iceland, Singapore) up to 80% of COVID-19 cases have been previously vaccinated implying the vaccines have become obsolete with antigenic escape or resistance to variants (e.g. Delta) that have evolved to infect persons who were vaccinated against the now extinct wild-type SARS-CoV-2 strain.

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[26] Jackson S. Turner et. al. SARS-CoV-2 infection induces long- lived bone marrow plasma cells in humans, (May 24, 2021) https://www.nature.com/articles/s41586-021-03647-4

It is my expert medical opinion that it is not good research or clinical practice to widely utilize novel biologic therapy (mRNA, adenoviral DNA COVID-19 vaccines) in populations where there is no information generated from the registrational trials with the FDA, specifically COVID-19 survivors, suspected COVID-19-recovered, pregnant or women who could become pregnant at any time after investigational vaccines. In my expert medical opinion, the risks associated with the investigational COVID-19 vaccines far outweigh any theoretical benefits, are not minor or unserious, and many of those risks are unknown or have not been adequately quantified nor has the duration of their consequences been evaluated or is calculable. Therefore, in my expert medical opinion, the Emergency Use Authorization and mandatory administration of COVID-19 vaccines creates an unethical, unreasonable, clinically unjustified, unsafe, and unnecessary risk to the Plaintiffs. Likewise, in my medical expert opinion, the mandatory administration of COVID-19 vaccines in municipal employees creates unnecessary risk to the employees and other citizens who rely on first responders and other critical infrastructure workers.

I declare under penalty of perjury of the laws of the United States and the State of Florida that the foregoing statements are true and correct.

Dated: 13th day of October, 2021:

/s/ Peter McCullough 13-OCT-2021

EXHIBIT 1

Tuesday, October 6, 2021

CURRICULUM VITAE

PETER A. McCULLOUGH, MD, MPH, FACC, FCCP, FAHA, FNKF, FNLA, FCRSA

Business

HeartPlace
3409 Worth Street, #500
Dallas TX 75246
Desk: 214-841-2000
Cell: 248-444-6905
e-mail: PeterAMcCullough@gmail.com

Home 5231 Richard Avenue
Dallas, TX 75206

Birth date December 29, 1962
Birthplace Buffalo, NY, USA

EDUCATION

1) Certificate of Graduate Liberal Arts Studies: Southern Methodist University, December 17, 2016, principal faculty Dr. Anthony Picchioni, PhD, Adjunct Professor in Human Development, P.O. Box 750181, Dallas, TX 75275, 214-768-3417, www.smu.edu
   - Graduated with Honor

2) Master of Public Health: University of Michigan School of Public Health, August 19, 1994, Dean Noreen M. Clark, PhD, 109 Observatory Street, Ann Arbor, MI 48109-2029, phone 734-764-5454, www.sph.umich.edu
   - Major: General Epidemiology

3) Doctor of Medicine: University of Texas Southwestern Medical School, June 4, 1988, Dean Bryan M. Williams, MD, 5323 Harry Hines Boulevard, Dallas, TX 75235-9070, 214-648-3111, http://www.utsouthwestern.edu/education/medical-school/
   - Clinical year rank of 1 in 199, overall rank in class of 12 in 199
   - Alpha Omega Alpha Texas Gamma Chapter, installed March 17, 1988

4) Bachelor of Science: Baylor University, May 18, 1984, Chancellor Abner McCall, PhD, Office of the Registrar, Waco, TX 76798-7056, 254-710-1181, http://www.baylor.edu/
   - Double-major: Biology and Psychology
   - Graduated with Honor, degree rank of 29 in 131, university rank of 127 in 1,152

- Alpha Lambda Delta Freshman Honorary, installed March 19, 1981

POSTGRADUATE TRAINING

1) Cardiovascular Diseases Fellowship: William Beaumont Hospital (WBH) (presently Oakland University William Beaumont School of Medicine), Division of Cardiology, 3601 W. Thirteen Mile Rd, Royal Oak, MI 48073, 248-551-4198, 7-1-94 to 6-30-97, Chief Cardiovascular Fellow for 1996-97, William W. O'Neill, MD, Program Director and Division Chief

2) Internal Medicine Residency: University of Washington School of Medicine, Department of Internal Medicine, 1959 NE Pacific, Seattle, WA 98195, (206) 543-3239, 3-year traditional track, 7-1-88 to 6-30-91, James F. Wallace, MD, Program Director, Paul G. Ramsey, MD, Chairman of Medicine

PROFESSIONAL EXPERIENCE

HeartPlace , 3409 Worth Street, Suite 500, Dallas TX 75246, March 1, 2021.

Positions Held: 1) Attending Physician

Baylor Scott and White Health, Baylor Health Care System, Baylor University Medical Center (BUMC), Baylor Heart and Vascular Institute, Baylor Jack and Jane Hamilton Heart and Vascular Hospital, Dallas TX, Texas A & M University College of Medicine, Department of Medicine, Division of Cardiology, Baylor Heart and Vascular Institute, 621 N. Hall St., #H030, Dallas, TX 75226, February 3, 2014 to February 25, 2021. Cardiovascular Governance Council, Kevin Wheelan, MD, Cardiology Division Chief and Chief Medical Officer, Heart Institute Office (214) 820-7500

Positions Previously Held:

1) Professor in the Principal Faculty, Non-Tenure Track in the Department of Internal Medicine, Texas A & M University Health Sciences Center (2016-2021)
2) Chief of Cardiovascular Research (2014-2021)
3) Program Director, BUMC Cardiovascular Diseases Fellowship Program (2014-2021)
4) Vice Chief, BUMC Internal Medicine (2016-2021)

St. John Providence Health System, Providence Park Heart Institute, Department of Medicine, Cardiology Section, 47601 Grand River Avenue, Suite B-125, Novi, MI 48374, September 1, 2010 to July 19, 2013. Department of Medicine Chair, Anibal Drelichman, MD: 248-849-3152, Cardiology Section Chief: Shukri David, MD, 248-465-5955

Positions Previously Held:

1) Chief Academic and Scientific Officer (Academic Dean Equivalent), St. John Providence Health System, (2010 to 2013)
2) Medical Director, Clinical Lipidology, Department of Medicine, Cardiology Section (2010 to 2013)

William Beaumont Hospital, Department of Internal Medicine, Divisions of Nutrition and Preventive Medicine, Department of Cardiology, 3601 West Thirteen Mile Road, Royal Oak, MI 48073, October 1, 2002 to 2010. Department of Medicine Chair: Michael A. Maddens, M.D., 248-551-0622, Department of Cardiology Chair: David E. Haines, M.D., 248-858-0404

Oakland University William Beaumont School of Medicine, 472 O'Dowd Hall
2200 N. Squirrel, Rochester, MI 48309, Robert Folberg, MD, Medical School Dean, Kenneth Hightower, PhD, Dean of Allied Health Sciences, 248-370-3562. Clinical Professor of Health Sciences and Medicine (2007 to 2010)

Positions Previously Held:

1) Consultant Cardiologist and Chief, Division of Nutrition and Preventive Medicine (2002 to 2010), Department of Internal Medicine
2) Medical Director, Preventive Cardiology (2002 to 2010)
3) Medical Director, Lipid Apheresis Program (2007 to 2010)
4) Medical Director, Weight Control Center (2002-2005)

University of Missouri-Kansas City (UMKC) School of Medicine, Truman Medical Center, Department of Medicine, Cardiology Section, 2301 Holmes St., Kansas City, MO 64108. August 18, 2000-September 30, 2002. Department of Medicine Chair: George R. Reisz, M.D, 816-556-3450

Positions Previously Held:

1) Associate Professor of Medicine (Tenure Track) and Cardiology Section Chief (2000-2002)

Henry Ford Health System (HFHS), Henry Ford Heart and Vascular Institute, 2799 W. Grand Blvd., K-14, Detroit, MI 48202, July 1, 1997 to August 16, 2000. Cardiovascular Division Head: W. Douglas Weaver, M.D, 800-653-6568

Positions Previously Held:

1) Assistant Professor of Medicine (Tenure Track), Case Western Reserve University School of Medicine, and HFHVI Senior Staff Cardiologist
Medical Director, Preventive Cardiology, 1999-2000
2) Program Director, Cardiovascular Diseases Fellowship Training Program, 1999-2000
3) Director of Cardiovascular Informatics Section, 1997-2000
4) Associate Director of the Center for Clinical Effectiveness, 1997-99

5) Associate Director of the Cardiovascular Diseases Fellowship Program, 1998-99

Emergency Physicians Medical Group, PC, 2000 Green Road, Suite 300, Ann Arbor, MI 48105, 800-466-3764. Emergency medicine attending at Mission Health McPherson Hospital, Howell, 1991-1997; Oakwood Beyer Hospital Center, Ypsilanti 1991-1997, and Mercy Hospital, Grayling 1991-1992

Positions Previously Held:

1) Associate Member
2) Washtenaw County Human Services Deputy Medical Examiner, 1995-1996

Mercy Internal Medicine Associates, 308 Michigan Avenue, Grayling, MI 49738, Mercy Hospital-Grayling, 1100 Michigan Avenue, Grayling, MI 49738, 517-348-5461. Internal medicine attending at Mercy Hospital, Grayling, MI, 1991-1992

Positions Previously Held:

1) Coronary Care Unit Director
2) Physician Director of Cardiopulmonary Services

SPECIAL TRAINING

1) The Healthcare Forum Cardiovascular Health Fellowship, 1998-99
2) American Heart Association (AHA), 23rd 10-Day U.S. Seminar on the Epidemiology and Prevention of Cardiovascular Disease, July-August, 1997
3) University of Michigan Summer Session in Epidemiology, 1997-99
4) Stanford University Course on Medical Informatics, Palo Alto, CA, June, 1997
5) Current Practice of Vascular Ultrasound 3-Day Course, Chicago, IL, April, 1997
6) Advanced Pacemaker Concepts Course, CPI, Inc., Lansing, MI, 1995
7) Pacesetter Comprehensive Pacemaker 4-Day Course, Santa Fe, NM, 1997
8) Medtronic Bakken Education Tutorial and Medtronic Applied Physiological Research Laboratory Lead Implantation Training and Biventricular Implantation Training (2 sessions), Minneapolis, MN, 2001-2002
9) 2004 ASCeXAM Review Course, American Society of Echocardiography, San Francisco, CA, April 22-24, 2004
10) National Lipid Association Masters Course in Clinical Lipidology, Hilton Head, SC, August 21-23, 2008

CERTIFICATION AND LICENSURE

1) Licensed in the State of Washington 1988-1997 (#MD00027562), Michigan expires January 31, 2022 (#4301058147), and New York 1992 to present (#189283 inactive status), Missouri 2000-2002 (#2000165365 inactive status) and Texas expires May 31, 2022 (#P9222)

2) FLEX passed April 4, 1990, State of Washington, Department of Health, Board of Medical Examiners
3) Diplomate, American Board of Internal Medicine, Candidate #136084, September, 25, 1991, recertified May 1, 2001, recertified June 10, 2011, recertified April 6, 2021, valid through 2031, 510 Walnut Street, Suite 1700, Philadelphia, PA 19106-3699
4) Diplomate, American Board of Internal Medicine, Cardiovascular Diseases Subspecialty, Candidate #136084, November, 1997, valid through 2007, recertified October 1, 2007, valid through 2017, recertified September 28, 2017, valid through 2027, 510 Walnut Street, Suite 1700, Philadelphia, PA 19106-3699
5) Diplomate, American Board of Clinical Lipidology, September 27, 2008, 6816 Southpoint Parkway, Suite 1000, Jacksonville, FL 32216. Fellow, National Lipid Association
6) National Board of Echocardiography (NBE), Examination of Special Competence in Adult Echocardiography, 2004-2014 expired
7) Diplomate, American Board of Forensic Examiners, July 16, 1996, no expiration date

RECOGNITION

Teaching:

1. Henry Ford Hospital, 1999 Chief Medical Resident's Best Teacher Award

Research:

1. Chest Foundation Young Investigator Award 2001, Philadelphia, PA, November 7, 2001, President's International Awards Ceremony

2. National Kidney Foundation (NKF) of Michigan, Innovations in Health Care Award Finalist 2008, East Lansing, MI, April 17, 2008

3. American College of Cardiology (ACC) Simon Dack Award for Scholarly Excellence by the Journal of the American College of Cardiology, March 5, 2009

4. 11th International Vicenza Award in Critical Care Nephrology, International Renal Research Institute, Vicenza, Italy, June 11, 2013

Postgraduate:

1. Founding Fellow, Cardiorenal Society of America, March 2016
2. Fellow, National Lipid Association, January, 2013
3. Fellow, National Kidney Foundation, January, 2012
4. Fellow, American College of Chest Physicians, February, 2001
5. Fellow, American College of Physicians, January, 2001 to September, 2021
6. Fellow, American College of Cardiology, February, 1999

AFFILIATIONS

1) Alpha Omega Alpha, National Honor Medical Society, 1988 to present

2) American College of Emergency Physicians, Member, 1992-1994
3) American College of Forensic Examiners, Member 1996 to present
4) AHA, Council on Epidemiology and Prevention, 1995 to present
5) AHA, Grassroots Network, 1998-2000.
6) Central Society for Clinical Research, Member, 1999-2000
7) Council on Geriatric Cardiology, Member 1996-1997
8) Michigan Chapter of the ACC, Chair, Annual Cardiology Board Review, 1999-2000
9) Michigan State Medical Society, Member, 1997-2000, 2004 to 2009
10) The American Medical Informatics Association, 1997-2000
11) The Health Forum, Charter Cardiovascular Health Charter Alumni Representative, 1998 to 2002
12) Cardiorenal Society of America, Founding Executive Board Member, 2013 to present, Vice President 2014-2016, President 2016 to present
13) Dallas County Medical Society, 2014 to present
14) Texas Medical Association, 2014 to present
15) Baylor Alumni Association, 2015 to present
16) New York Academy of Sciences, 2016 to present
17) Truth for Health Foundation, Founding Executive Board Member, Chief Medical Advisor, 2021 to present

EDITORIAL RESPONSIBILITIES

1) *Advances in Chronic Kidney Disease,* Editorial Board Member, 2003-present. [referenced through Elsevier Bibliographic Database, EMBASE/Excerpta Medica, MEDLINE]
2) *American Journal of Cardiology,* Associate Editor, 2014 to present
3) *American Journal of Kidney Disease,* [referenced through Elsevier Bibliographic Database, EMBASE/Excerpta Medica, MEDLINE] Associate Editor, 2006 to 2019, Guest Editor, 2011, 2012
4) *Arquivos Brasileiros de Cardiologia*, International Editorial Board, 2006 to present
5) *Biocritique*, Editorial Board, 2001 to 2013, www.biocritique.com
6) *Blood Purification, Editorial Board 2018 to present*
7) *Cardiovascular Clinician,* Editorial Board, 2011 to 2013, internet site, CARDIOVASCULARClinician.com™
8) *Cardiovascular Diagnosis and Therapy (CDT),* Editorial Board *(*Print ISSN: 2223-3652; Online ISSN: 2223-3660, 2012 to present
9) *Cardiovascular Innovations and Applications (CVIA),* Editorial Board 2015 to present
10) *Cardiorenal Medicine,* Associate Editor, 2016-2017, Editor-in-Chief 2018 to 2021
11) *Circulation,* Editorial Board, 2016 to present
12) *Circulation Heart Failure,* Editorial Board, 2008 to present, Associate Editor, 2008 to 2016, Guest Editor 2010, 2011, 2012
13) *Clinical Exercise Physiology,* Clinical Consultant to the Editorial Board, 1998-2002.
14) *Cochrane Renal Group Module*, 2008, Editorial Contributor, Centre for Kidney Research, The Children's Hospital at Westmead, Westmead NSW, Australia

15) *Expert Review of Cardiovascular Therapy*, Editorial Advisory Panel, 2002 to present, www.future-drugs.com

16) *Journal of the American College of Cardiology,* Editorial Consultant, 2003-present. "Elite Reviewer" Recognition, 2004, 2005, 2006, 2007, 2008, 2011, 2014, 2016 (DeMaria AN. The elite reviewer. J Am Coll Cardiol 2003;41(1):157-8.)

17) *Journal of Geriatric Cardiology,* Editorial Board Member, 2003-present. The Institute of Geriatric Cardiology, Chinese PLA Hospital, Beijing. [Joint China-U.S.A. publication]

18) *Journal of Biorepository Science for Applied Medicine,* Honorary Editorial Board, 2012 to 2018

19) *Journal of Clinical & Experimental Cardiology*, OMICS Publishing Group, Open Access, CrossRef, PubMed, DOAJ, Index Copernicus, Scientific Commons, EBSCO, 2010 to 2017

20) *Journal of Diabetes & Metabolism,* OMICS Publishing Group, Open Access, 2010 to 2017

21) *Journal of Interventional Cardiology,* "News and Views", Section Editor, 2000-2003. Editorial Board Member, 2003 to present

22) Journal of Nephrology and Therapeutics, Editorial Board, OMICS Publishing Group, Editorial Board, 2010 to 2017

23) *Reviews in Cardiovascular Medicine, MedReviews, LLC,* www.medreviews.com "Cardiorenal Function," Section Editor, 2001-2002, Associate Editor, 2003-2009, Co-Editor, 2009 to present

24) The American College of Cardiology Foundation ACCEL Audio Journal, Editorial Board 2008 to present

25) The Open Atherosclerosis & Thrombosis Journal, [referenced through Bentham Open, PubMed, Google and Google Scholar] Editorial Board, 2008 to 2012

26) The Open Heart Failure Journal, [referenced through Bentham Open, PubMed, Google and Google Scholar] Editorial Board, 2008 to 2010

27) Therapy, [referenced through Elsevier Bibliographic Database, EMBASE/Excerpta Medica, MEDLINE], Editorial Board, 2008 to 2010

Manuscript Reviewer

1) *Advances in Chronic Kidney Disease,* 2004 to present (18)
2) *Advances in Medical Sciences*, 2012 to present (2)
3) *Advances in Therapy,* 2008 to present (1).
4) *American Family Physician,* 2004 to present (2)
5) *American Journal of Cardiovascular Drugs*, 2002 to present. (2)
6) *American Heart Journal (AHJ),* 1998 to present (22)
7) *American Journal of Cardiology (AJC),* 1999 to present (60)
8) *American Journal of Human Biology,* 2014 to present (1)
9) *American Journal of Hypertension,* 2011 to present (1)
10) *American Journal of Kidney Diseases (AJKD),* 2002 to present (30)
11) *American Journal of Medicine (AJM)*, 1997 to present (7)
12) *American Journal of the Medical Sciences (AJMS),* 2006 to present (3)
13) *American Journal of Nephrology,* 2004 to present (24)
14) *American Journal of Physiology: Renal Physiology,* 2006 to present (2)

15) *American Journal of Transplantation,* 2004 to present (1)
16) *Annals of Epidemiology,* 2004 to present (1)
17) *Annals of Internal Medicine,* 2008 to present (3)
18) *Annals of Noninvasive Electrocardiology,* 2009 to present (1)
19) *Antimicrobial Agents and Chemotherapy,* 2020 to present (1)
20) *Archives of Internal Medicine,* 2004 to present (2)
21) *Archives of Pathology and Laboratory Medicine,* 2007 to present (1)
22) *Arteriosclerosis, Thrombosis, and Vascular Biology,* 2010 to present (2)
23) *Autonomic Neuroscience: Basic and Clinical,* 2007 to present (1)
24) *BUMC Proceedings,* 2012 to present (3)
25) *Biochemia Medica,* 2012 to present (1)
26) *Biomed Central (BMC) Medical Imaging,* 2010 to present (1)
27) *Blood Purification,* 2010 to present (2)
28) *BMC Medicine,* 2007 to present (1)
29) *BMC Nephrology,* 2011 to present (1)
30) *BMJ Clinical Evidence,* 2008 to present (1)
31) *British Medical Journal (BMJ)*, 2009 to present (1)
32) *Canadian Medical Association Journal (CMAJ),* 2006 to present (3)
33) *Cardiac Failure Review,* 2015 to present (1)
34) *Cardiology,* 2007 to present (1)
35) *Cardiorenal Medicine;* 2013 to present (10)
36) *Cardiovascular Innovations and Applications,* 2016 to present (1)
37) *Cardiovascular Therapeutics,* 2010 to present (1)
38) *Catheterization and Cardiovascular Interventions*, 2000 to present (6)
39) *Chest,* 2000 to present (6)
40) *Circulation*, 1998 to present (100)
41) *Circulation Cardiovascular Interventions,* 2012 to present (1)
42) *Circulation Cardiovascular Quality and Outcomes,* 2010 to present (1)
43) *Circulation Heart Failure,* 2009 to present (4)
44) *Circulation Imaging,* 2012 to present (1)
45) *Cleveland Clinic Journal of Medicine,* 2008 to present (1)
46) *Clinica Chimica Acta,* 2013 (1)
47) *Clinical Cardiology,* 2001 (3)
48) *Clinical Chemistry and Laboratory Medicine,* 2010 to present (2)
49) *Clinical Exercise Physiology,* 2000-2002 (4)
50) *Clinical Journal of the American Society of Nephrology* 2008 to present (3)
51) *Clinical Kidney Journal*, 2012 to present (1)
52) *Clinical Medicine and Research,* 2008 to present (1)
53) *Clinical Nephrology,* 2008 to present (2)
54) *Clinical Physiology and Functional Imaging,* 2010 to present (1)
55) *Clinical Researcher*, 2002 to present (1)
56) *Clinics,* 2010 to present (1)
57) *Cochrane Collaboration,*2009 to present (2)
58) *Congestive Heart Failure,* 2005 to present (4)

59) *Coronary Artery Disease,* 2005 to present (1)
60) *Critical Care Medicine,* 2008 to present (2)
61) *Current Medical Research and Opinion,* 2005 to present (1)
62) *Diabetes Care,* 2011 to present (2)
63) *Diabetes and Vascular Disease Research*, 2011 to present (1)
64) *Diabetes, Obesity, and Metabolism,* 2019 to present (1)
65) *Diabetic Medicine,* 2008 to present (1)
66) *Drug Benefit Trends,* 1999 (1)
67) *Drugs,* 2000 (2)
68) *European Heart Journal*, 1995 (12)
69) *European Journal of Cardiovascular Prevention and Rehabilitation*, 2006 (1)
70) *European Journal of Heart Failure,* 2012 (4)
71) *Expert Opinion on Pharmacotherapy,* 2003 to present (3)
72) *Expert Opinion Therapeutic Patents,* 2004 to present (1)
73) *Expert Review of Cardiovascular Therapy,* 2008 to present (2)
74) *Global Heart*, 2012 (1)
75) *Heart,* 2004 (2)
76) *Heart and Vessels,* 2007 (2)
77) *Hemodialysis International* 2013 (2)
78) *Internal Medicine Journal (Australasia),* 2009 to present (1)

79) International Journal of Infectious Diseases 2020 to present (2)
80) *International Journal of Nephrology,* 2010 to present (2)
81) *Journal of Biomarkers,* 2013 (1)
82) *Journal of Geriatric Cardiology,* 2017 (1)
83) *International Journal of Infectious Diseases,* 2021 to present (3)
84) *Journal of Internal Medicine,* 2009 to present (1)
85) *Journal of Interventional Cardiology (JIC)*, 1996 to present (9)
86) *Journal of the American College of Cardiology (JACC)*, 1998 to present (228)
87) *Journal of the American College of Cardiology: Heart Failure (JACC Heart Fail)*, 2014 to present (12)
88) *Journal of the American College of Cardiology: Imaging (JACC Imag)*, 2014 to present (6)
89) *Journal of the American College of Cardiology: Interventions (JACC Interv)*, 2010 to present (10)
90) *Journal of the American Medical Association (JAMA),* 2002 to present (60)
91) *Journal of the American Medical Association Cardiology (JAMA Cardiology),* 2016 to present (20)
92) *Journal of the American Society of Echocardiography (JASE)*, 2009 to present (1)
93) *Journal of the American Society of Nephrology (JASN)* 2005 to present (14)
94) *Journal of Cardiac Failure,* 2003 to present (10)
95) *Journal of Clinical Outcomes Management*, 2011 to present (1)
96) *Journal of Critical Care,* 2011, to present (1)
97) *Journal of General Internal Medicine,* 2008 to present (1)
98) *Journal of Human Hypertension,* 2010 to present (1)

99) *Journal of Inherited Metabolic Disease,* 2014 to present (2)
100) *Journal of Lipid Research,* 2010 to present (1)
101) *Journal of Managed Care,* 2004 to present (1)
102) *Journal of Physiology and Pathophysiology*, 2009 to present (1)
103) *Kidney and High Blood Pressure Research,* 2008 to present (1)
104) *Kidney International,* 2004 to present (8)
105) *Medical Science Monitor,* 2008 to present (1)
106) *Medicine & Science in Sports and Exercise,* 2005 to present (3)
107) *Nature Clinical Practice Cardiovascular Medicine*, 2004 to present (4)
108) *Nature Clinical Practice Nephrology*, 2008 to present (1)
109) *Nature Reviews Nephrology,* 2009 to present (3)
110) *Nephron,* 2005 to present (1)
111) *Nephrology,* 2009 to present (1)
112) *Nephrology, Dialysis, and Transplantation,* 2005 to present (7)
113) *New England Journal of Medicine,* 2006 to present (8)
114) *Pharmacological Research (Italy),* 1999 (1)
115) *Pharmaceutical Sciences,* 2011 (1)
116) *PLoS Medicine,* 2005 (1)
117) *PLOS ONE,* 2013 (1)
118) *Prehospital Emergency Care*, 2015 (1)
119) *Preventive Medicine,* 2008 (1)
120) *Rejuvenation Research,* 2007 (1)
121) *Renal Failure*, 2011 (2)
122) *The Lancet,* 1999 to present (11)
123) *The Lancet Diabetes,* 2013 to present (5)
124) *The Lancet Global Health,* 2015 to present (2)

Major Meeting Abstract Grader

1) ACC Scientific Sessions 2001 to present (10)
2) ACC I2 Summit, 2006 to present (2)
3) American Diabetes Association, 2008 to present (13)
4) AHA Scientific Sessions, 1997 to present (8)
5) American Medical Informatics Association, Annual Symposium, 1998-2001 (3)
6) International Academy of Cardiology World Congress on Heart Disease, Academy of Cardiology Annual Scientific Sessions—Mechanisms and Management, 2002-present (3)
7) Transcatheter Therapeutics (TCT), 2004 (1)

Grant Reviewer

1. National Medical Research Council, Singapore, 2003-2004
2. National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases, Special Emphasis Panel/Initial Review Group 2006/01 ZDK1 GRB-9, 2005

3. National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases, Special Emphasis Review Group, 1 R01 DK070033-01A2, 2006
4. National Institutes of Health, National Heart Lung and Blood Institute, Study Section, ZHL1 CSR-H (M1), March 6-7, 2006, Heart Failure Network
5. Diabetes UK, The British Diabetic Association, Macleod House, 10 Parkway, London NW1 7AA. December 24, 2008
6. National Institutes of Health National Institute of Diabetes and Digestive and Kidney Diseases, Special Review Panel, Chronic Renal Insufficiency Cohort Study (CRIC) and A Prospective Cohort Study of Kidney Disease in Children (CKiD) Study, February 23-25, 2012, March 6, 2013
7. National Institutes of Health National Institute of Diabetes and Digestive and Kidney Diseases, Special Review Panel, ZDK1 GRB-7 (O3)S in response to PAR-DK-09-247: Ancillary Studies to Major Ongoing Clinical Research Studies to Advance Areas of Scientific Interest within the Mission of the NIDDK (R01), July 11, 2012
8. Alberta Innovates Health Solutions Collaborative Research & Innovation Opportunities (CRIO) Grant Review, September, 2012
9. Health Research Board of Ireland, Health Research Awards, 2013
10. National Institutes of Health National Institute of Diabetes and Digestive and Kidney Diseases 2017/01 ZRG1 DKUS-R (55) Study Section 2016

Guidelines Reviewer

1. Kidney Disease Improving Global Outcome (KDIGO) Guidelines Review
    a. Prevention, Diagnosis, Evaluation and Treatment of Hepatitis C in Chronic Kidney Disease, Published April, 2008
    b. Diagnosis, Evaluation, Prevention and Treatment of Chronic Kidney Disease related Mineral and Bone Disorders (CKD-MBD), Published August, 2009
    c. Acute Kidney Injury (AKI), published March, 2012

CLINICAL TRIAL AND STUDY RESPONSIBILITIES

Overall Study Responsibilities: Steering and Executive Committees

1) Study Principal Investigator, Medicine vs Angiography for Thrombolytic Exclusion Patients (M.A.T.E.), 1994-1997, (multicenter, U.S., randomized controlled trial [RCT]). Status: closed.

2) Study Principal Investigator, The Resource Utilization Among Congestive Heart Failure Study (R.E.A.C.H.), 1998-2000, (single-center, prospective cohort study). Status: closed.

3) Study Principal Investigator, The Asthma, Beta-Agonists, and Congestive Heart Failure Study, (A.B.C.H.F.), 1998-1999, (single-center, case-control study). Status: closed.

4) Study Co-Principal Investigator, The Prevention of Radiocontrast Induced Nephropathy Clinical Evaluation (P.R.I.N.C.E.) Study, 1995-1998, (single-center, RCT). Status: closed.

5) Study Co-Principal Investigator, BNP Multinational Study, Principal Investigator, Alan Maisel, MD, Biosite Diagnostics, Inc., 2000-2006, (multicenter, international, prospective cohort study). Status: closed.

6) Study Co-Investigator, Prophylactic Oral Amiodarone Compared to Placebo for Prevention of Atrial Fibrillation Following Coronary Artery Bypass Graft Surgery (P.A.P.A.C.A.B.G.), 1996-1998, (single-center, RCT). Status: closed.

7) Study Co-Investigator, Rapid Early Bedside Markers of Myocardial Injury, 1998-1999, HFHS and Biosite Diagnostics, Inc. (prospective cohort study). Status: closed.

8) Member, Steering Committee, Clinical Study Protocol No. 2000-025: A Phase IIIb, Multicenter, Randomized, Double-Blind, Placebo-Controlled Study to Determine the Safety, Efficacy, and Tolerability of Fenoldopam Mesylate in Subjects Undergoing Interventional Cardiology Procedures (CONTRAST), William W. O'Neill, MD and Gregg Stone, MD, Co-Principal Investigators, Abbott Laboratories, Inc., 2000-2003 (multicenter, US, RCT). Status: closed.

9) Chair, National Steering Committee, Kidney Early Evaluation Program (KEEP) NKF, Member 2000-2005, Co-Chair 2005-2010, Chair 2010-present (multicenter, U.S., prospective cohort study). Annual budget ~$1,325,198 (2009), ~$1,233,832 (2010), ~$1,614,953.00 (2011), ~$989,500 (2012), ~$1,217,000 (2013). Status: inactive.

10) Member, Steering Committee, Protocol No. 704.351 Evaluation of Synergy between Natrecor and Furosemide on Renal and Neurohormone Responses in Chronic Heart Failure: A Phase IV Study, Scios Inc., 2003-2005 (multicenter, U.S., randomized cross-over trial). Status: closed.

11) Member, Steering Committee, Protocol No. CCIB002FUS12. A Multicenter, Double-blind, Randomized, Parallel Group Study to Evaluate the Effects of Lotrel and Lotensin HCT on Microalbuminuria in Mild to Moderate Hypertensive Subjects with Type 2 Diabetes Mellitus, Novartis Pharmaceuticals, Inc., 2003-2006. Status: closed.

12) Rotating Executive Committee Principal Investigator Member, NIH HF-ACTION Trial (Exercise Training Program to Improve Clinical Outcomes in Individuals With Congestive Heart Failure), HL63747 01A2, 2006-2009. Principal Investigator, David Whellan, MD, status: closed.

13) Overall Study Principal Investigator, Neutrophil Gelatinase-Associated Lipocalin: A Novel Blood Marker for Risk of Developing Contrast Induced Nephropathy (ENCINO), multicenter, prospective, blinded cohort study, 2006-2009, status: closed.

14) Member, Steering Committee, VA NEPHRON-D: Diabetes iN Nephropathy Study, 2008 to 2013, trial stopped early for safety cardiovascular and acute kidney safety concerns in angiotensin converting enzyme inhibitor plus losartan arm, status: closed.

15) Member, External Expert Panel, National Institutes of Health, National Institute of Digestive and Diabetes and Kidney Diseases, Chronic Renal Insufficiency Cohort Study, status open, 2010 to present.

16) Member, Optimal Medical Management Subcommittee, National Institutes of Health, National Heart Lung and Blood Institute, International Study of Comparative Health Effectiveness with Medical and Invasive Approaches (ISCHEMIA), status: open, 2011 to present.

17) Member, Steering Committee, National Institutes of Health, National Heart Lung and Blood Institute, International Study of Comparative Health Effectiveness with Medical and Invasive Approaches (ISCHEMIA) in patients with Chronic Kidney Disease (ISCHEMIA-CKD), status: open, 2012 to present.

18) Member, Steering Committee, Thrasos Innovation, Inc, A Phase II Multi-Center, Parallel-Group, Randomized, Double Blind, Proof-of-Concept, Adaptive Study Investigating the Safety and Efficacy of THR-184 Administered via Intravenous Infusion in Patients at Increased Risk of Developing Cardiac Surgery Associated-Acute Kidney Injury (CSA-AKI), status: closed, 2012 to 2015.

19) Overall Principal Investigator, AbbVie, Inc, Clinical Study Protocol M13-796, A Phase 2b, Randomized, Double-Blind, Placebo-Controlled, Safety and Efficacy Trial of Multiple Dosing Regimens of ABT-719 for the Prevention of Acute Kidney Injury in Subjects Undergoing High Risk Cardiac Surgery, status: closed, 2013 to 2014.

20) Overall Principal Investigator, Bioporto, Inc, The NGAL Test™ As An Aid in the risk assessment for AKI stage II and III in an Intensive Care Population, status: open 2017 to present.

21) Member, Global Expert Panel, Novo Nordisk, Inc, A Research Study to See How Semaglutide Works Compared to Placebo in People With Type 2 Diabetes and Chronic Kidney Disease (FLOW), status: open.

Overall Study Responsibilities: Endpoint Committees

1) Member, Critical Endpoints Committee, Treat Angina with Aggrastat and Determine Cost of Therapy with an Invasive or Conservative Strategy, TACTICS-TIMI 18 (Protocol 019-00), 1998-2000, (multicenter, international, RCT). Status: closed

2) Member, Study Endpoints Committee, A Phase II, Escalation Trial of Vasoflux™ in Patients Undergoing Thrombolysis with Streptokinase for Acute Myocardial Infarction, Protocol CLN-P-V18-07001, Parexel International Corporation,1998, (multicenter, international, RCT). Status: closed

3) Member, Safety Endpoint Evaluation Committee, A Phase III, Single-Blind Controlled Study to Evaluate the Clinical Effects of a Hemoglobin-based Oxygen Carrier (HBOC-210) Given as a Transfusion Alternative in Patients Undergoing Orthopedic Surgery. (Protocol HEM-0115), Biopure Corporation with Quintiles, Inc., Clinical Event and Adjudication Services, 2000-2001. (multicenter, international, RCT). Status: closed

4) Member, Critical Endpoints Committee, Cerivastatin Heart Outcomes in Renal Disease: Understanding Survival (C.H.O.R.U.S.), Barry Brenner, MD and William F. Keane, MD, Co-Principal Investigators, Bayer Inc., 2000-2003 (multicenter, international, RCT). Status: study terminated early due to drug withdrawal from market

5) Member, Clinical Events Classification Committee, Correction of Hemoglobin and Outcomes in Renal Insufficiency (CHOIR), Ajay Singh, MD, Donal Reddan, MBBS, Principal Investigators, Ortho Biotech Inc., 2001-2004 (multicenter, international, RCT). Status: closed

6) Member, Critical Endpoint Committee, A Randomised, Double-blind, Parallel Group, Phase 3, Efficacy and Safety Study of AZD6140 (Ticagrelor) Compared with Clopidogrel for Prevention of Vascular Events in Patients with Non-ST or ST Elevation Acute Coronary Syndromes (ACS) [PLATO – A Study of PLATelet inhibition and Patient Outcomes.], AstraZeneca, Inc., Duke Clinical Research Institute, 2008, status: closed

7) Chair, Clinical Endpoints Committee, Alere San Diego, Inc, Alere Prospective Blinded Study of a Novel Troponin Assay (PEARL), status: closed 2015

8) Chair, Adjudication Committee, Myeloperoxidase In the Diagnosis of Acute coronary Syndromes (MIDAS) study, Alere, Inc., status: closed 2012

9) Independent Endpoint Adjudicator, BioPorto Diagnostics, The NGAL test as an aid for the Diagnosis of AKI in an Intensive Care Population, Code of the Study: KLIN 12-005, status closed, 2015

10) Independent Endpoint Adjudicator, Ischemix, Inc., Safety and Efficacy of CMX-2043 for Protection of the Heart and Kidneys in Subjects Undergoing Coronary Angiography (CARIN), status: closed 2016

11) Chair, Data Adjudication Committee, Estimating versus Measuring Plasma Volume and Kidney Function in Acute Decompensated Congestive Heart Failure, Eudra-CT Number 2018-002638-18, Sponsor: Charite-Unversitatsmedizin Berlin, FAST Biomedical, Inc, 2018-present

Overall Study Responsibilities: Data Safety Monitoring Committees

1) Member, External Advisory Committee/Data Safety Monitoring Board, National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases, Polycystic Kidney Disease (PKD) Clinical Trials Network HALT-PKD Trial, Robert Schrier, MD, Principal Investigator, Committee Chair: William Henrich, MD, 2004-2008, Data Safety Monitoring Board, status: closed 2014

2) Chairman, Data Safety Monitoring Committee, Clinical Trials Program CS0011-A-U301, Daiichi Sankyo Pharma Development (DSPD) CS-011, Seven Core Trials of Rivoglitazone in Type 2 Diabetes: 1) A 26-week placebo-controlled trial of 1.0 and 1.5 mg rivoglitazone vs. 45 mg pioglitazone, as monotherapy in type 2 diabetics (CS0011-A-U301); 2) A 26-week placebo-controlled trial of 0.5, 1.0 and 1.5 mg rivoglitazone vs. 15, 30 and 45 mg pioglitazone, as monotherapy in type 2 diabetics (CS0011-A-U302); 3) A 26-week placebo-controlled trial of 1.0 and 1.5 mg rivoglitazone vs. 45 mg pioglitazone, in type 2 diabetics on metformin therapy, followed by a 26-week pioglitazone-controlled continuation period (CS0011-A-U303); 4) A 26-week placebo-controlled trial of 0.5 and 1.0 rivoglitazone vs. 30 mg pioglitazone, in type 2 diabetics on sulfonylureas therapy, followed by a 26-week pioglitazone-controlled continuation period (CS0011-A-U304); 5) A 26-week placebo-controlled trial of 0.5 and 1.0 mg rivoglitazone vs. 15 mg pioglitazone in type 2 diabetics on insulin therapy (CS0011-A-U305); 6) A long-term (12-24 months) randomized, general efficacy and safety study of rivoglitazone vs. pioglitazone, as monotherapy or add-on therapy, in type 2 diabetics (CS0011-A-U306); 7) A 26-week placebo-controlled trial of rivoglitazone and metformin, in type 2 diabetics (CS0011-A-U307), USFDA Special Protocol Assessment Agreement granted, status: closed, 2009 trials program terminated

3) Member, Data Safety Monitoring Committee, A Multicenter, Randomized, Double-Blind, Placebo-Controlled Study to Evaluate Cardiovascular Outcomes Following Treatment with Alogliptin in Addition to Standard of Care in Subjects with Type 2 Diabetes and Acute Coronary Syndrome SYR322_402, EXAMINE Trial Takeda Global Research and Development Center, Inc. (US) Takeda Global Research and Development Centre, Ltd. (Europe), status: 2009 trial stopped early for non-inferiority but futility on superiority outcome

4) Chair, Data Safety Monitoring Committee, Protocol D9120C00019, A randomised, double-blind, placebo controlled, multi-centre phase IIb dose finding study to assess the effect on GERD symptoms, safety and tolerability during four weeks treatment with AZD3355 in doses 60 mg, 120 mg, 180 mg and 240 mg bid as add-on treatment to a PPI in patients with GERD that are partial responders to PPI treatment, AstraZeneca, status: closed 2009, trials program terminated for safety

5) Member, Data Safety Monitoring Committee, Protocols: AMAG-FER-IDA-301, A Phase III, Randomized, Double-Blind, Placebo-Controlled Trial of Ferumoxytol for the Treatment of Iron Deficiency Anemia, Protocol: AMAG-FER-IDA-302, A Phase III, Randomized, Open-Label, Active Controlled Trial Comparing Ferumoxytol with Iron Sucrose for the Treatment of Iron Deficiency Anemia, Protocol: AMAG-FER-IDA-303, A Phase III, Open-Label Extension, Trial of the Safety and Efficacy of Ferumoxytol for the Episodic Treatment of Iron Deficiency Anemia, AMAG Pharmaceuticals, Inc., status: closed 2010, trial completed in 2013 without safety concerns

6) Chair, Independent Data Monitoring Committee, Protocol 402-C-0903 Bardoxolone Methyl Evaluation in Patients with Chronic Kidney Disease and Type 2 Diabetes: the Occurrence of Renal Events (BEACON), Reata Pharmaceuticals, Inc., status: trial stopped in 2012 early for cardiovascular and mortality safety concerns

7) Member, Independent Safety Council, Affymax Inc and Takeda Pharmaceutical Co., Omontys (peginesatide), status: closed, post-marketing surveillance led to voluntary drug withdrawal from market in 2013 for serious and fatal allergic reactions

8) Chair, Independent Data Monitoring Committee, AbbVie, Inc, Clinical Study Protocol M11-352 A Randomized, Multicountry, Multicenter, Double Blind, Parallel, Placebo-Controlled Study of the Effects of Atrasentan on Renal Outcomes in Subjects with Type 2 Diabetes and Nephropathy SONAR: Study Of Diabetic Nephropathy with Atrasentan, status closed 2018

9) Chair, Independent Data Monitoring Committee, AbbVie, Inc., Clinical Study Protocol M13-958 A Phase 2b, Randomized, Double-Blind, Placebo-Controlled, Safety and Efficacy Trial of Multiple Dosing Regimens of ABT-719 for the Prevention of Acute Kidney Injury in Subjects Undergoing High Risk Major Surgery, status: closed 2015

10) Member, Data Monitoring Committee, Akebia Therapeutics, Inc., AKB-6548-CI-0007, Phase 2b Randomized, Double-Blind, Placebo-Controlled Study to Assess the Pharmacodynamic Response, Safety, and Tolerability to 20 Weeks of Oral Dosing of AKB-6548 in Subjects with Anemia Secondary to Chronic Kidney Disease (CKD), GFR Categories G3a-G5 (Stages 3, 4, and 5) (Pre-Dialysis), status: closed 2015

11) Member, Study Monitoring Team, Akebia Therapeutics, Inc., AKB-6548-CI-0011, Phase 2a Open-Label Study to Assess the Efficacy, Safety, and Tolerability of AKB-6548 in Subjects with Anemia Secondary to End Stage Renal Disease (ESRD), Undergoing Chronic Hemodialysis, status: closed 2016

12) Member, Data Monitoring Committee, Merck, Inc., Pfizer, Inc, Clinical Trials Program, Ertugliflozin (MK-8835/PF-04971729) Phase 2 and Phase 3 Development Program, status closed, 2012 to 2020

13) Member, Steering Committee, Medtronic, Inc., Monitoring in Dialysis, status: closed 2016

14) Member, Data Safety and Monitoring Board, St. Jude Medical, EnligHTN IV Multi-center, randomized, single-blind, sham controlled clinical investigation of renal denervation for uncontrolled hypertension, status: 2013 trial terminated before recruitment started

15) Chair, Data Safety Monitoring Board, Neumedicines, Inc., A Phase 2, Single-Dose, Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Safety, Tolerability, Pharmacokinetics, and Pharmacodynamics of HemaMax™ (rHuIL-12) in Healthy Subjects, status: closed 2016

16) Chair, Data Safety Monitoring Board, Reata Pharmaceuticals, Inc., A Phase 2 Study of the Safety, Efficacy, and Pharmacodynamics of RTA 408 in the Treatment of Friedreich's Ataxia, 2014 to 2019, status: closed

17) Chair, Data Safety Monitoring Board, Reata Pharmaceuticals, Inc., A Phase 2 Study of the Safety, Efficacy, and Pharmacodynamics of RTA 408 in the Treatment of Mitochondrial Myopathy, 2015 to 2019, status: closed

18) Member, Patient Safety Review Committee, Reata Pharmaceuticals, Inc, A dose-ranging study of the efficacy and safety of Bardoxolone Methyl in patients with pulmonary arterial hypertension (402-C-1302), 2014 to 2018, status: closed

19) Chair, Data Safety Monitoring Board, Reata Pharmaceuticals, Inc., A Study of the Efficacy and Safety of Bardoxolone Methyl in Patients with Connective Tissue Disease-Associated Pulmonary Arterial Hypertension (CATALYST), 2016 to present, status: closed

20) Chair, Data Safety Monitoring Board, Reata Pharmaceuticals, Inc., A Phase 2/3 of Efficacy and Safety of Bardoxolone Methyl in Patients with Alport Syndrome (CARDINAL), 2017 to present, status: closed

21) Chair, Data Safety Monitoring Board, Sanfit, Inc., A double-blind, randomised, placebo-controlled study to assess the effect of SNF472 on progression of cardiovascular calcification on top of standard of care in end-stage-renal-disease (ESRD) patients on haemodialysis (HD) SNFCT2015-05, 2017 to 2019, status: closed

22) Chair, Data Monitoring Committee, Renew Research, KAI Research, A Randomized Pivotal Study of RenewTM NCP-5 for the Treatment of Mild Cognitive Impairment due to Alzheimer's Disease or Mild Dementia of the Alzheimer's Type, 2018 to present, status: closed

23) Chair, Data Safety Monitoring Committee, Sanofi, Inc, Multicenter, randomized, double-blind, placebo-controlled two stage study to characterize the efficacy, safety, tolerability and pharmacokinetics of GZ/SAR402671 in patients at risk of rapidly progressive Autosomal

Dominant Polycystic Kidney Disease (ADPKD) STUDY NUMBER: EFC15392 STUDY NAME: SAVE-PKD COMPOUND: GZ/SAR402671, 2018 to present, status: open

24) Chair, Data Safety Monitoring Board, National Institutes of Health, National Heart, Lung and Blood Institute R34 NHLBI Clinical Trial Pilot Studies (R34) Reducing Arrhythmia in Dialysis by Adjusting the Rx Electrolytes/Ultrafiltration (RADAR), David Charytan, MD, PI, 2019 to present, status: open

25) Chair, Data Safety Monitoring Board, GZ402671 EFC15392 Multicenter, randomized, double-blind, placebo-controlled two stage study to characterize the efficacy, safety, tolerability and pharmacokinetics of GZ/SAR402671 in patients at risk of rapidly progressive Autosomal Dominant Polycystic Kidney Disease (ADPKD), Sanofi, status: open

26) Chair, Data Safety Monitoring Board, MEDI3506, Trials Portfolio, D9182C00001 A Phase 2 Randomized, Double-blinded, Placebo-controlled Study to Evaluate the Efficacy and Safety of MEDI3506 in Adult Subjects with Moderate-to-severe Atopic Dermatitis; D9181C00001 A Phase II, Randomised, Double-blind, Placebo-controlled Study to Assess the Efficacy and Safety of MEDI3506 in Adult Participants with Uncontrolled Moderate-to-severe Asthma; D9180C00002 A Phase II, Randomized, Double-blind, Placebo-controlled Study to Assess the Efficacy, Safety and Tolerability of MEDI3506 in Participants with Moderate to Severe Chronic Obstructive Pulmonary Disease and Chronic Bronchitis (FRONTIER 4); D9183C00001 A Phase 2b Randomized, Double-blind, Placebo-controlled, Study to Evaluate the Efficacy and Safety of MEDI3506 in Subjects with Diabetic Kidney Disease, Axio Inc, A Cytel Company, status: open

GRANT AWARDS

Original Research Grants

G1) London JF (PI), Bis KG, Juni JE, Wilke N, DiCarli MF, Shetty AN, **McCullough PA**, Timmis GC. Magnetic Resonance vs. Positron Emission Tomography for the Detection of Myocardial Viability. Bracco Diagnostics Inc./SCA&I Grant, $25,000 (WBH RC-453), 1997-98. Additional WBH Research Institute Mini-grant, $5,000 (WBH Grant #RC-748). Level of involvement: author of the variable definitions, endpoints, and data analysis sections, 0% FTE. Status: closed 1998

G2) **McCullough PA** (PI), Shah S, Noor H, Marks KR, McCabe KB, Zong L, McCord J, Khoury N, Ulcickas-Yood M, Ward RE. Diagnostic Accuracy of an Emergency Department Clinical Decision Unit in the Evaluation of Chest Pain. HFHS Small Projects Fund $10,000 (HFHS Grant #A30785), 0% FTE. Status: closed 1997

G3) Keteyian SJ (Co-PI), **McCullough PA** (Co-PI), Brawner CA, Rosman HS, Stein P, Weaver WD. A Prospective Study of Case Identification and Triage of Patients Eligible for Cardiac

Rehabilitation. Merck & Co., U.S. Human Health, $30,000 (HFHS Grant #E18037), 3% FTE. Status: closed 1998

G4) **McCullough PA.** Novel Methods for Identifying High-Risk Patients for Subsequent Cardiovascular Events. Merck & Co., U.S. Human Health, $20,000 (HFHS Grant #M1060), 0% FTE. Status: closed 1998

G5) **McCullough PA.** Cardiovascular Informatics Development Award. Pfizer, Inc., $10,000 (HFHS Grant #E60022), 0% FTE. Status: closed 1998

G6) **McCullough PA,** Yee J, Soman S, Sallach J, Borzak S, Foreback C, Monaghan K, Tisdale JE, Bailey E, Bola P, Chase G, Marks KR, Weaver WD. A Prospective Dose-Ranging Trial of Folic Acid to Reduce Total Homocyst(e)ine Levels in Patients with End-Stage Renal Disease Undergoing Hemodialysis. HFHS Project Development Fund $10,000 (HFHS Grant #A20003), 0% FTE. Status: closed 1999

G7) **McCullough PA.** NuStep Recumbent Cross Trainer Product Development Pilot Study, NuStep, Inc., (single center, prospective pilot study), $12,500.00, (WBH Grant #RC- 08-94847). Status: closed 2005

G8) **McCullough PA,** Secondary Analyses from the PRINCE Trial, (single center data analysis), $20,000, PLC Medical, Inc., (WBH #RC 08-94851) Status: closed 2005

G9) **McCullough PA**, Sullivan RA. A Systematic Review of Vascular Calcification in Patients with Chronic Kidney Disease and End-Stage Renal Disease, 2002-2003, Braintree Labs, Inc., $40,000, 25% FTE (WBH Grant #RC 08-94833) Status: closed 2003

G10) Pasas SA, Davies MI, **McCullough PA.** Determination of Protein-bound Homocysteine in Human Plasma using Capillary Electrophoresis with Electrochemical Detection in Patients with Chronic Kidney Disease, 2003-2004, AHA Predoctoral Fellowship Program (Pasas), $38,000, 15% FTE (UMKC Grant #). Status: closed 2003

G11) Collins AC, Gladstone E, Robitscher JW, **McCullough PA**, Klag M, Narva A, Gilberston D for the NKF. Demonstration project: state-based screening for chronic kidney disease. Response to CDC-RFA-DP06-004, demonstration project for identifying individuals at high-risk for CKD in the US. Centers for Disease Control, $1,199,609, 12% FTE Status: closed 2007

G12) **McCullough PA**, Principal Investigator. Neutrophil Gelatinase-Associated Lipocalin (NGAL): A Novel Blood Marker for Risk of Developing Contrast-Induced Nephropathy (ENCINO). Biosite/Inovise, Inc., $229,000.00 (WBH #RC-94862), 0% FTE Status: closed 2009

G13) Agrawal V, Barnes M, **McCullough PA.** Evaluation of CKD awareness in medical residents. WBH intramural mini-grant R/C# 98662, $10,000.00, 0% FTE Status: closed 2008

G14) **McCullough PA,** overall Principal Investigator transferred to Zalesin K. FDA Investigational New Drug Exemption (INDE) #060672. A Prospective, Randomized, Placebo-Controlled, Parallel-Group, Pilot Trial of Paricalcitol in the Treatment of Hyperparathyroidism in Patients after Roux-en-Y Gastric Bypass Surgery with Chronic Kidney Disease, Abbott Laboratories, Inc., $496,600.00 (WBH #RC-90290), 0% FTE Status: closed 2009

G15) **McCullough PA**, overall Principal Investigator transferred to Miller WM, FDA INDE #107750. Investigator Initiated Study. A Prospective, Double-Blind, Randomized, Parallel Group, Placebo-Controlled Trial of Aliskiren versus Placebo in Non-Diabetic, Normotensive Obese Patients with Microalbuminuria, Novartis, Inc., $339,400.00 (WBH #RC-90345), Status: closed 2010

G16) **McCullough PA,** overall Principal Investigator. Investigator Initiated Study, FDA Investigational New Drug (IND) #74707. A Phase 2, randomized, double-blind, placebo-controlled trial, to assess the efficacy and safety of deferiprone in the reduction of markers of contrast-induced acute oxidative kidney injury. Cormedix, Inc, $857,745 (includes $101,442 for Beaumont Research Coordinating Center). Study centers included Providence Hospital and Medical Center Southfield, St. John Hospital and Medical Center, Detroit, Northern Michigan Hospitals, Petoskey, MI, St. Vincent's Hospital, Indianapolis, IN, Fairfield Cardiac Cath Labs, LLC, Fairfield, OH, Oklahoma Heart Hospital, Oklahoma City, OK, Ohio Health Research Institute, Columbus, OH, Mercy St. Vincent Hospital, Toledo, OH, Status: closed 2011

G17) **McCullough PA,** overall study Principal Investigator, A Prospective Randomized Parallel-Group Controlled Trial of Multiple Blood Biomarkers in the Personalized Management of Chronic Heart Failure, Baylor IRB 014-252, Baylor Foundation, 2014, $78,639.20, status: closed 2016.

G18) **McCullough PA**, overall study Principal Investigator, Baylor Hypertrophic Cardiomyopathy Program Development Project: Time-resolved, 3D phase contrast magnetic resonance imaging (MRI) (4D Flow) and Advanced Strain Rate Echocardiography in Patients with Hypertrophic Cardiomyopathy, Baylor IRB 014-175, Baylor Foundation, 2014, $100,000.00, status: open

G19) **McCullough PA,** overall study Principal Investigator, Preventive Cardiology Registry: Role of Proprotein Convertase Subtilisin/kexin type 9 (PCSK9) and Other Catabolic Determinants in Hypercholesterolemia in Patients with Suspected Heterozygous Familial Hypercholesterolemia Baylor IRB 014-122, Baylor Foundation, $3,100.00, status: closed 2014

G20) **McCullough PA,** overall study Principal Investigator and Study Chairman, Investigator Initiated Trial, "A Prospective, Double-blind, Placebo Controlled, Parallel Group,

Randomized Trial of Extended Release Exenatide versus Placebo in Diabetic Patients with Type 4 Cardiorenal Syndrome: EXTEND-CRS", D5551L00004/ISSEXEN0013, FDA IND 123200, Baylor IRB 014-149, AstraZeneca, 2014, $1,597,901.93, status: open

G21) **McCullough PA**, overall study Principal Investigator, Iso-osmolar Contrast and the Timing of Coronary Angiography in the Multivariate Risk for Cardiac Surgery Associated with Acute Kidney Injury and Major Adverse Renal and Cardiac Events (MARCE), Baylor IRB 014-096, GE Healthcare, Inc, 2015, $145,885.00, status open

G22) **McCullough PA**, overall study Principal Investigator, Timing of coronary angiography and multivariate risk for cardiac surgery associated acute kidney injury and major adverse renal and cardiac events (MARCE), Baylor IRB 014-096, Baylor Foundation, $8,100.00, status: closed 2016

G23) Mendez J, **McCullough PA**, et al, co-investigator, Assessment of Multiple Blood Biomarkers in Patients with Advanced Heart Failure Undergoing Evaluation for Cardiac Transplantation and Mechanical Circulatory Support, Baylor IRB 014-300, Critical Diagnostics, Inc, $10,400.00, status: closed 2016

G24) Bottiglieri, T, **McCullough PA**, et al, co-investigator, Urinary 11dhTxB2 response to acetylsalicylic acid (aspirin) in cardiovascular disease progression and adverse outcomes, Baylor IRB 008-230, Corgenix, Inc., $99,087.00, status: closed 2016

G25) Schussler JM, Vasudevan A, **McCullough PA**, co-investigator, Clinical outcomes and metabolomic and damage associated molecular patterns of acute kidney injury in patients undergoing percutaneous coronary intervention via the radial versus femoral artery approach, Baylor IRB 014-299, Baylor Health Care System Foundation, $61,416.00, status: closed 2018

G26) Tecson K, **McCullough PA**, coinvestigator, Contribution of Chronic Kidney Disease and Acute Kidney Injury to Heart Failure Outcomes, Baylor IRB 015-296, Baylor Health Care System Foundation, $43,424.60, status: open

G27) Vasudevan A, **McCullough PA**, coinvestigator, Burden of Cardiovascular Events Follow Percutaneous Coronary Intervention, Baylor IRB 015-297, Baylor Health Care System Foundation, $40,000.00, status: closed 2018

G28) Tecson, K, **McCullough PA**, Therapeutic Intensity of Lipid Lowering Therapy in Response to Recurrent Cardiovascular Events, Baylor IRB 017-106, Amgen, Inc., $249,990.00 status: open

G29) **McCullough PA**, Principal Investigator, A Case Finding Study of Familial Chylomicronemia, Akcea Pharmaceuticals, $10,000.00, status: closed 2017

G30) **McCullough PA**, Bottiglieri T, Tecson K. Baylor Foundation $49,923.80. Identifying metabolomic profiles among genetically confirmed familial hypercholesterolemia, dyslipidemia without familial hypercholesterolemia, and healthy controls, status start-up 2019

Site Principal Investigator Contracts

G1) Jafri S, **McCullough PA**, and the WATCH Investigators. Warfarin and Antiplatelet Therapy in Chronic Heart Failure, (W.A.T.C.H.) Field Center, Veterans Administration Cooperative Studies Program and Sanofi Pharmaceuticals, $36,000.00 (HFHS Grant #B51008) status: closed 2000

G2) Jafri S, **McCullough PA**, and the CHARM Investigators. Candesartan Cilexetil (Candesartan) in Heart Failure Assessment of Reduction in Mortality and Morbidity (C.H.A.R.M.) Field Center, 1999-2000, Astra Pharmaceuticals, $56,000.00 (HFHS Grant #E09045) status: closed 2000

G3) Schuger C, **McCullough PA**, and the MADIT Investigators. Multicenter Automatic Defibrillator Implantation Trial II (M.A.D.I.T.-II), Guidant Corporation/Cardiac Pacemakers (CPI), $96,000 (HFHS Grant #G10087) status: closed 2000

G4) Schuger C, **McCullough PA**, and the MIRACLE Investigators. Multicenter InSync Randomized Clinical Evaluation (M.I.R.A.C.L.E.), Medtronic Inc., $195,000, (HFHS Grant #G12006) status: closed 2000

G5) **McCullough PA,** Shetty A, Soman S and the CHORUS Investigators. Cerivastatin Heart Outcomes in Renal Disease: Understanding Survival (C.H.O.R.U.S.), Barry Brenner, MD and William F. Keane, MD, Co-Principal Investigators, Bayer Inc., 2000-2003 (RCT), Clinical Site Contract, Bayer Pharmaceuticals, $266,875.00 10% FTE (HFHS Grant #E05046) status: closed 2000

G6) **McCullough PA,** Manley HJ and the CHORUS Investigators. Cerivastatin Heart Outcomes in Renal Disease: Understanding Survival (C.H.O.R.U.S.), Barry Brenner, MD and William F. Keane, MD, Co-Principal Investigators, Bayer Inc., 2000-2003 (RCT), Clinical Site Contract, Bayer Pharmaceuticals, $279,000 10% FTE (UMKC Grant #E05046) status: closed 2001

G7) Nowak R, McCord J, **McCullough PA** and the BNP Investigators. Breathing Not Properly Study (B.N.P. Multinational Study), Alan Maisel, MD, and Peter A. McCullough, MD, MPH, Co-Principal Investigators, Biosite Diagnostics, Inc., (prospective cohort study) Field Center Contract, Biosite Diagnostics, Inc., $180,000.00 (HFHS Site), $500,000.00, 0% FTE (HFHS Grant #E03005) status: closed 2001

G8) Ehrman JK, **McCullough PA.** A Prospective Randomized Trial of a Personal Health Assistant in the Secondary Prevention of Heart Disease. Merck, Inc., $220,961.00, 7% FTE (HFHS Grant #E41010) status: closed 2002

G9) **McCullough PA** and the CORC Investigators. Kansas City Cardiomyopathy Questionnaire Interpretability Study, John A. Spertus, MD, MPH, Principal Investigator, Cardiovascular Outcomes Research Consortium (C.O.R.C.), 2001 (multicenter, U.S., prospective cohort study), $21,400.00, status: closed 2002

G10) **McCullough PA**, Rutherford BD, and the OAT Investigators. Occluded Artery Trial, Judith Hochman, MD, and Gervasio Lamas, MD, Co-Principal Investigators, National Institutes of Health, National Heart Lung and Blood Institute, $54,000.00. 0% FTE (UMKC Grant #K531122) status: closed 2002

G11) **McCullough PA** site Principal Investigator and National Executive Committee Member. Rapid Emergency Department Heart Failure Outpatient Trial, Biosite Diagnostics, $21,000. 0% FTE (UMKC Grant #K531130) status: closed 2002

G12) **McCullough PA** site Principal Investigator. African-American Heart Failure Trial (AHEFT). A Placebo-Controlled Trial of BiDil added to Standard Therapy in African American Patients with Heart Failure, NitroMed, Inc., $20,000.00 (UMKC Proposal #9722, TMC Grant #261231) status: closed 2002

G13) **McCullough PA** and the IMAGING Investigators for Cardiology Clinical Studies, LLC. Investigation of Myocardial Gated SPECT Imaging as Initial Strategy in Heart Failure: The IMAGING in Heart Failure Trial, Dupont Pharmaceuticals Inc., $20,000.00 (UMKC Proposal #9825, UMKC Grant #KG001278) status: closed 2002

G14) **McCullough PA**, site Principal Investigator, and Ad Hoc Executive Committee Member. Heart Failure and a Controlled Trial Investigating Outcomes of Exercise Training. National Institutes of Health, National Heart, Lung, and Blood Institute, subcontracted through the Duke Clinical Research Institute, $665,000, (NIH Grant #1 U01 HL63747 01A2, WBH Grant # RC 08-94837, Site #301) status: closed 2005

G15) **McCullough PA**, site Principal Investigator, and Executive Committee Member. Protocol No. 704.351 Evaluation of Synergy between Natrecor and Furosemide on Renal and Neurohormone Responses in Chronic Heart Failure: A Phase IV Study, Scios Inc., 2003 (multicenter, U.S., randomized cross-over trial), $105,447.50, (WBH Grant # RC 08-94836) status: closed 2005

G16) **McCullough PA,** site Principal Investigator and National Co-Principal Investigator. Protocol No. CCIB002FUS12. A Multicenter, Double-blind, Randomized, Parallel Group Study to Evaluate the Effects of Lotrel and Lotensin HCT on Microalbuminuria in Mild to

Moderate Hypertensive Subjects with Type 2 Diabetes Mellitus, Novartis Inc., (multicenter, U.S., randomized trial), $63,649.90, (WBH Grant #RC 08-94838) status: closed 2006

G17) **McCullough PA,** and the ACCOMPLISH Investigators. Protocol No. CCIB002.12301. Avoiding Cardiovascular Events through Combination Therapy in Patients Living with Systolic Hypertension, Novartis, Inc., 2003 (multicenter, multinational, randomized trial) $159,241.00, (WBH Grant #RC 08-94844) status: closed 2006

G18) **McCullough PA**, site Principal Investigator. Efficacy of Vasopressin Antagonism in Heart Failure: Outcome Study with Tolvaptan, Protocol #156-03-236, IND #50,533, Otsuka Maryland Research Institute, (multicenter, international, randomized trial), $210,750.00, (WBH Grant #RC 08-94842 changed to #RC 08-94849) status: closed 2005

G19) **McCullough PA,** site Principal Investigator. A Multicenter, Double-Blind, Randomized, Parallel Group, 6-week Study to Evaluate the Efficacy and Safety of Ezetimibe/Simvastatin Combination versus Atorvastatin in Patients with Hypercholesterolemia, Protocol #051/EZT544, Merck, Inc., (multicenter, U.S., randomized trial), $18,840.00, (WBH Grant #RC 08-94843) status: closed 2006

G20) **McCullough PA,** site Principal Investigator, A multicenter, double-bind randomized, parallel-group study to compare the effect of 24 weeks treatment with LAF237 (50 mg qd or bid) to placebo as add-on therapy in patients with type 2 diabetes inadequately controlled with metformin monotherapy. Novartis Pharmaceuticals, Inc., (multicenter, U.S., randomized trial), $30,700.00, (WBH Grant #RC 08-94845) status: closed 2007

G21) **McCullough PA,** site Principal Investigator. A multicenter, double-bind randomized, parallel-group study to compare the effect of 24 weeks treatment with LAF237 (50 mg qd or bid) to placebo as add-on therapy to pioglitazone 45 mg qd in patients with type 2 diabetes inadequately controlled with thiazolidinediones monotherapy. Novartis Pharmaceuticals, Inc., (multicenter, U.S., phase III randomized trial) $30,700.00, (WBH Grant #RC 08-94846) status: closed 2006

G22) **McCullough PA,** site Principal Investigator. An 8-week, randomized, double-blind, parallel group, multicenter placebo and active controlled disease escalation study to evaluate the safety and efficacy of aliskiren in patients with hypertension, $47,100.00 (WBH #RC 08- 94852) status: closed 2007

G23) **McCullough PA,** site Principal Investigator. A randomized, double-blind study to compare the durability of glucose lowering and preservation of pancreatic beta-cell function of rosiglitazone monotherapy compared to metformin or glyburide/glibenclamide in patients with drug naïve, recently diagnosed type 2 diabetes, $140,100.00, Novartis Pharmaceuticals (WBH #RC 08-94849) status: closed 2008

G24) **McCullough PA,** site Principal Investigator. A multicenter, randomized, double-blind factorial study of the co-administration of MK-0431 and metformin in patients with type 2 diabetes who have inadequate glycemic control, $36,735.00, Merck Research Laboratories (WBH #RC 08-94853) status: closed 2008

G25) **McCullough PA**, site Principal Investigator. Multicenter, Randomized, Double-Blind Study to Evaluate the Efficacy & Safety of Ezetimibe/Simvastatin and Niacin Co-Administered in Patients with type IIa or Type IIb Hyperlipidemia, $46,960.00, Merck Research Laboratories, MRK-091, (WBH #RC 08-94854) status: closed 2008

G26) **McCullough PA,** site Principal Investigator. A Multi-Center, Randomized, Double-Blind, factorial Design study to evaluate the lipid-altering efficacy & safety of MK-0524B Combination Tablet in Patients with Primary Hypercholesterolemia or Mixed Hyperlipidemia $40,849.00, Merck Research Laboratories, MRK-022. (WBH #RC 08-94855) status: closed 2007

G27) **McCullough PA,** site investigator. An 8-week, multicenter, randomized, double-blind, parallel-group study to evaluate the efficacy and safety of the combination of valsartan/HCTZ/amlodipine compared to valsartan/HCTZ, valsartan/amlodipine, and HCTZ/amlodipine in patients with moderate to severe hypertension, $43,500.00, Novartis Pharmaceuticals (WBH #RC 08-94857) status: closed 2007

G28) **McCullough PA,** site Principal Investigator. A multicenter randomized, double-blind parallel arm, 6-week study to evaluate the efficacy and safety of ezetimibe/simvastatin versus atorvastatin in patients with metabolic syndrome and hypercholesterolemia at high risk for coronary heart disease, $32,010.00. Merck Research Laboratories (WBH #RC 08-94861) status: closed 2008

G29) **McCullough PA,** site Principal Investigator. A multicenter, randomized, double-blind study to evaluate the safety and efficacy of the initial therapy with coadministration of sitagliptin and pioglitazone in patients with type 2 diabetes mellitus, $24,036.00, Merck Research Laboratories, MRK-064 (WBH #RC 08-94860) status: closed 2008

G30) Dixon, SD, site PI, **McCullough PA**, Multinational Executive Committee. RENAL GUARD Pilot Trial. PLC Medical Systems, $37,610.00 (WBH #RC- 90771) status: closed 2008

G31) **McCullough, PA**, site Principal Investigator, A multi-center, randomized, double-blind, placebo and active controlled, parallel group, dose range study to evaluate the efficacy and safety of LCZ696 comparatively to valsartan, and to evaluate AHU377 to placebo after 8-week treatment in patients with essential hypertension. Novartis, Inc., $31,965.28. (WBH #RC-94863) status: closed 2008

G32) **McCullough PA,** site Principal Investigator. Paricalcitol capsules benefits in renal failure induced cardiac morbidity in subjects with chronic kidney disease stage 3b/4,

(PRIMO Abbott Laboratories, ABT-M-10-030, $157,992.00, (WBH #RC-94864) status: closed 2008

G33) **McCullough PA,** site Principal Investigator. A randomized, double-blind, parallel group study to evaluate the effects of high-dose statin therapy on fluorodeoxyglucose (FDG) uptake in arteries of patients with atherosclerotic vascular disease. Merck Research Laboratories, MRK-081, $86,994.00 (WBH #RC 08-90223) status: closed 2008

G34) **McCullough PA,** site Principal Investigator. Patient registry for the Liposorber LA-15 system. Kaneka, Inc., $7,515.00, (WBH #RC-90877) status: closed 2009

G35) **McCullough PA,** site Principal Investigator. A 30-week multicenter, randomized, double-blind. Parallel-group study of the combination of ABT-335 and Rosuvastatin compared to rosuvastatin monotherapy in dyslipidemic subjects with stage 3 chronic kidney disease, Abbott M10-313, $128,544.00, (WBH #RC-90212) status: closed 2009

G36) **McCullough PA,** site Principal Investigator. A multicenter, randomized open label, active-comparator controlled study to assess the efficacy, safety, and tolerability of taspoglutide compared to exenatide in patients with type 2 diabetes mellitus inadequately controlled with metformin, thiazolidinedione, or a combination of both, Roche BC 21625, $72,012.50, (WBC #RC-90245) status: closed 2010

G37) **McCullough PA,** site Principal Investigator. A multicenter, randomized double-blind, placebo-controlled study to assess the efficacy, safety, and tolerability of taspoglutide compared to placebo in obese patients with type 2 diabetes mellitus inadequately controlled with metformin monotherapy, Roche BC 22092, $38,387.50, (WBH #RC-90258) status: closed 2009

G38) **McCullough PA,** site Principal Investigator. A safety and efficacy trial evaluating the use of apixaban for the extended treatment of deep vein thrombosis and pulmonary embolism, Bristol Myers Squibb-Pfizer CV185057, $173,750.00, (WBH #RC-90288) status: closed 2009

G39) **McCullough PA,** site Principal Investigator. A phase 3, active (warfarin) controlled, randomized, double-blind, parallel arm study to evaluate efficacy and safety of apixaban in preventing stroke and systemic embolism in subjects with nonvalvular atrial fibrillation, Bristol Myers Squibb-Pfizer CV1805030, $173,750.00, (WBH #RC-90275) status: 2009

G40) **McCullough PA,** site Principal Investigator. Treatment of Preserved Cardiac Function Heart Failure with an Aldosterone Antagonist Trial (TOPCAT), National Institutes of Health, National Heart, Lung, and Blood Institute, subcontracted through the New England Research Institutes, Inc., $86,250.00, (WBH #RC-90267) status: closed 2010

G41) **McCullough PA,** site Principal Investigator. An 8-week, randomized, double-blind, parallel group, multicenter, forced titration study to evaluate the efficacy and safety of aliskiren plus HCTZ verus aliskiren monotherapy in metabolic syndrome patients with stage 2 hypertension, Novartis, Inc., $107,362.44 (WBH #RC-90277) status: closed 2009

G42) **McCullough PA**, site Principal Investigator, Astute SAPPHIRE AST-111, Evaluation of Novel Biomarkers from Acutely Ill Patients at Risk for Acute Kidney Injury, Astute Medical, Inc, San Diego, CA, $23,195.50 status: closed 2012

G43) **McCullough PA**, site Principal Investigator, protocol number 156-10-292 titled "An Observational Prospective Registry to Identify Demographic and Clinical Characteristics of Patients Hospitalized with Euvolemic and Hypervolemic Hyponatremia and Assess the Comparative Effectiveness of Available Treatments and the Impact on Resource Utilization. Otsuka Inc., $21,262.60 status: initial contract fulfilled, reopened under extension and registry completed in 2013

G44) **McCullough PA**, site Principal Investigator, PROspective Multicenter Imaging Study for Evaluation of Chest Pain (PROMISE) Study, National Heart, Lung, and Blood Institute (NHLBI), Pamela Douglas, MD, Principal Investigator Clinical Coordinating Center, Duke Clinical Research Institute, $17,000.00 status: closed 2012

G45) **McCullough PA**, site Principal Investigator, ACZ885M/Canakinumab Clinical Trial Protocol CACZ885M2301 A randomized, double-blind, placebo-controlled, event-driven trial of quarterly subcutaneous canakinumab in the prevention of recurrent cardiovascular events among stable post-myocardial infarction patients with elevated hsCRP. Novartis, Inc., 2011 $279,223.00 status: closed 2015

G46) **McCullough PA**, site Principal Investigator, AN-CVD2233 Evaluation of the Safety and Efficacy of Short-term A-002 (Varespladib) Treatment in Subjects with Acute Coronary Syndromes (VISTA-16) Anthera Pharmaceuticals, Inc., 2011 $72,600.00 status: closed 2011

G47) **McCullough PA**, site Principal Investigator, BC22140A Cardiovascular outcomes study to evaluate the potential of aleglitazar to reduce cardiovascular risk in patients with a recent acute coronary syndrome (ACS) event and type 2 diabetes mellitus (T2D), F. Hoffmann-La Roche Ltd, $307,500.00 status: closed 2012

G48) **McCullough PA**, site Principal Investigator, A Double-blind, Randomized, Placebo-controlled, Multicenter Study (Phase 2) to Evaluate the Safety and Efficacy of IV Infusion Treatment with Omecamtiv Mecarbil in Subjects with Left Ventricular Systolic Dysfunction Hospitalized for Acute Heart Failure (Protocol 20100754), Amgen, Inc, 253,464.00 status: closed 2012

G49) **McCullough PA**, site Principal Investigator, MB102-073 A Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Phase 3 Trial to Evaluate the Safety and

Efficacy of Dapagliflozin in Subjects with Type 2 Diabetes with Inadequately Controlled Hypertension on an Angiotensin-Converting Enzyme Inhibitor (ACEI) or Angiotensin Receptor Blocker (ARB), Bristol-Myers Squibb Research and Development, 2011 $34,115.00 status: closed 2012

G50) **McCullough PA,** site Principal Investigator, MB102-077 A Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Phase 3 Trial to Evaluate the Safety and Efficacy of Dapagliflozin in Subjects with Type 2 Diabetes with inadequately controlled hypertension treated with an Angiotensin-Converting Enzyme Inhibitor (ACEI) or Angiotensin Receptor Blocker (ARB) and an additional Antihypertensive medication, Bristol-Myers Squibb Research and Development, $34,115.00 status: closed 2011

G51) **McCullough PA**, site Principal Investigator, ABT M11350 RADAR: Reducing Residual Albuminuria in Subjects with Diabetes and Nephropathy with AtRasentan – A Phase 2b, Prospective, Randomized, Double-Blind, Placebo-Controlled Trial to Evaluate Safety and Efficacy, Abbott Laboratories, $188,377.00 status: closed 2012

G52) **McCullough PA**, site Principal Investigator, PEGASUS TIMI 54 trial, A Randomized, Double-Blind, Placebo Controlled, Parallel Group, Multinational Trial, to Assess the Prevention of Thrombotic Events with Ticagrelor Compared to Placebo on a Background of Acetyl Salicylic Acid (ASA) Therapy in Patients with History of Myocardial Infarction, AstraZeneca, 2011 $98,530.00 status: transferred to PI Marcel Zughaib, MD

G53) **McCullough PA**, site Principal Investigator, A Double-blind, Randomized, Placebo-controlled, Multicenter Study Assessing the Impact of Additional LDL-Cholesterol Reduction on Major Cardiovascular Events When AMG 145 is Used in Combination with Statin Therapy in Patients with Clinically Evident Cardiovascular Disease AMG 145 Amgen Protocol Number 20110118 EudraCT number 2012-001398-97, Amgen, Inc., $1,732,062.80 status: closed 2016

G54) **McCullough PA,** site Principal Investigator, A single-blind, multi-site trial of the dietary supplement anatabine (RCP006) to determine the effects on peripheral markers of inflammation in patients with elevated levels of C-reactive protein (CRP). Roskamp Institute Protocol Number RI-11-01, $6700.00 status: closed 2012

G55) **McCullough PA**, site Principal Investigator, Long-term safety and tolerability of REGN727/SAR236553 in high cardiovascular risk patients with hypercholesterolemia not adequately controlled with their lipid modifying therapy: a randomized, double-blind, placebo-controlled study LTS11717 Sanofi Aventis, $252,000.00 status: closed 2013

G56) **McCullough PA**, site Principal Investigator, Assessment of Clinical Effects of Cholesteryl Ester Transfer Protein Inhibition with Evacetrapib in Patients at a High Risk for Vascular Outcomes – the ACCELERATE Study, protocol I1V-MC-EIAN, Eli Lilly, $421,202.00 status: closed 2014

G57) **McCullough PA,** site Principal Investigator, AEGR-733-025, LOWER: Lomitapide Observational Worldwide Evaluation Registry, Aegerion, Inc., 2014, $23,478.00 status: open

G58) **McCullough PA**, site Principal Investigator, The Evaluation Of PF-04950615 (RN316), In Reducing the Occurrence of Major Cardiovascular Events in High Risk Subjects (SPIRE-1), Pfizer, Inc., $145,343.90 status: closed 2016

G59) **McCullough PA**, site Principal Investigator, The Evaluation Of PF-04950615 (RN316) In Reducing the Occurrence of Major Cardiovascular Events in High Risk Subjects (SPIRE-2), Pfizer, Inc., $145,343.90 status: closed 2016

G60) **McCullough PA,** site Principal Investigator, Long Term Observational Study in Patients with Homozygous Familial Hypercholesterolemia Treated with Kynamaro™, Genzyme-Sanofi, Inc., $61,260.00 status: closed 2018

G61) **McCullough PA**, site Principal Investigator, CUP14366, Alirocumab (SAR236553) Expanded Access Program for the Treatment of Severe Hypercholesteremia Not Controlled with Maximal Tolerated Dose of Lipid Lowering Therapy Administered According to Standard of Care, Sanofi-Regeneron, Inc., 2015 $8,500.00 status: closed 2015

G62) **McCullough PA,** site Principal Investigator, Aspirin Dosing: A Patient-Centric Trial Assessing Benefits and Long-term Effectiveness (ADAPTABLE), Patient-Centered Outcomes Research Institute, 2015 $29,400.00 status: open

G63) **McCullough PA**, site Principal Investigator, Assessment of Heart Failure using Condition-Specific Impact Assessments (PROMIS), Patient-Centered Outcomes Research Institute, 2015 $81,840.00 status: 2017 status: closed

G64) **McCullough PA**, site Principal Investigator, A Randomized Parallel-Group, Placebo-Controlled, Double-Blind, Event-Driven, Multi-Center Pivotal Phase III Clinical Outcome Trial of Efficacy and Safety of the Oral sGC Stimulator Vericiguat in Subjects With Heart Failure With Reduced Ejection Fraction (HFrEF) - VerICiguaT Global Study in Subjects With Heart Failure With Reduced Ejection Fraction (VICTORIA), Merck, Inc, 2017 $878,163.90 status: closed

G65) **McCullough PA**, site Principal Investigator, A phase III randomised, double-blind trial to evaluate efficacy and safety of once daily empagliflozin 10 mg compared to placebo, in patients with chronic Heart Failure with preserved Ejection Fraction (HFpEF), EMPEROR-PRESERVED, Boehringer-Ingleheim, 2017 $170,099.00, status: open

G66) **McCullough PA**, site Principal Investigator, A phase III randomised, double-blind trial to evaluate efficacy and safety of once daily empagliflozin 10 mg compared to placebo, in

patients with chronic Heart Failure with preserved Ejection Fraction (HFpEF), EMPEROR-REDUCED, Boehringer-Ingleheim, 2017 $170,099.00, status: open

G67) Schiffmann R, **McCullough PA** Sub-Investigator, 014-097 PB-102-F03 (Sponsor - Protalix - PRX-102 1mg/kg q 2 weeks) A Multi Center Extension Study of PRX-102 Administered by Intravenous Infusions Every 2 Weeks for 60 Months to Adult Fabry Patients, status: open

G68) Schiffmann R, **McCullough PA** Sub-Investigator, 014-288 AT1001-042 (Sponsor - Amicus - oral drug - chaperone) An Open-Label Extension Study to Evaluate the Long-Term Safety and Efficacy of Migalastat Hydrochloride Monotherapy in Subjects with Fabry Disease, status: closed.

G69) Schiffmann R, **McCullough PA** Sub-Investigator, 016-153 PB-102-F20 (Sponsor - Protalix - BLINDED - ERT PRX-102 or Fabrazyme 1mg/kg q 2 weeks) A Randomized, Double blind, Active Control Study of the Safety and Efficacy of PRX-102 compared to Agalsidase Beta on Renal Function in Patients with Fabry Disease Previously Treated with Agalsidase Beta – Study Number PB-102-F20, status: open

G70) Schiffmann R, **McCullough PA** Sub-Investigator, 017-189 PB-102-F50 (Sponsor - Protalix - PRX-102 infusion - 2mg/kg monthly) A Phase 3, Open Label, Switch Over Study to Assess the Safety, Efficacy and Pharmacokinetics of pengunigalsidase alfa (PRX-102) 2 mg/kg Administered by Intravenous Infusion Every 4 Weeks for 52 weeks in Patients with Fabry Disease Currently Treated with Enzyme Replacement Therapy: Fabrazyme® (agalsidase beta) or Replagal (agalsidase alfa), status: open

G71) Schiffmann R, **McCullough PA** 018-150 MODIFY (Sponsor - Idorsia - oral drug - substrate reduction) A multicenter, double-blind, randomized, placebo controlled, parallel-group study to determine the efficacy and safety of lucerastat oral monotherapy in adult subjects with Fabry disease, status: open

G72) **McCullough PA**, site Principal Investigator, A Randomized, Double-blind, Placebo-controlled, Parallel-group Multicenter Study to Evaluate the Effects of Sotagliflozin on Clinical Outcomes in Hemodynamically Stable Patients with Type 2 Diabetes Post Worsening Heart Failure (SAR 439954), Sanofi US Services, Inc, $214,600.00, 2019, status: open

G73) **McCullough PA**, site Sub-Investigator, A Randomized, Double-blind, Placebo-controlled, Parallel-group Study to Evaluate the Safety and Efficacy of Alirocumab in Patients with Homozygous Familial Hypercholesterolemia (R727-CL-1628), Regeneron Pharmaceuticals, Inc, $143,503.00, 2019, status: closed

G74) **McCullough PA**, site Sub-Investigator, A Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Evaluate the Efficacy and Safety of Evinacumab in

Patients with Homozygous Familial Hypercholesterolemia (R1500-CL-1629) Regeneron Pharmaceuticals, Inc, $143,503.00, 2019, status: closed

G75) **McCullough PA**, site Sub-Investigator, An Open-Label Study to Evaluate the Long-Term Efficacy and Safety of Evinacumab in Patients with Homozygous Familial Hypercholesterolemia (R1500-CL-1719) Regeneron Pharmaceuticals, Inc, $65,317.44, 2019, status: open

G76) Bottiglieri T, Tecson K, **McCullough PA**, Identifying metabolomic profiles among genetically confirmed familial hypercholesterolemia, dyslipidemia without familial hypercholesterolemia, and healthy controls, Baylor Health Care System Foundation, $49,293.80, 2020 status: open

G77) **McCullough PA**, Wheelan KE. BSWRI—Overall Principal Investigator, 001 A prospective clinical study of hydroxychloroquine in the prevention of SARS-COV-2 (COVID-19) infection in health care workers after high-risk exposures, FDA IND 149293, Baylor Health Care System Foundation, $506,506.00, 2020 status: open

G78) **McCullough PA**, Site Investigator, 4D-310-C001 entitled “An Open-label, Phase 1/2 Trial of Gene Therapy 4D-310 in Adult Males with Fabry Disease” 4D Molecular Therapeutics, Inc, $101,210.85, 2020 status: open

G79) **McCullough PA,** Site Investigator, TQJ230, Assessing the Impact of Lipoprotein (a) Lowering With TQJ230 on Major Cardiovascular Events in Patients With CVD (Lp(a)HORIZON) Novartis Pharmaceuticals Corporation, $3,475,000.00, 2020 status open

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A13) **McCullough PA**, Tobin KJ, Kahn JK, O'Neill WW, Thompson RJ. Prediction of In-hospital Survival after Sudden Cardiac Death: Derivation and Validation of a Clinical Model. J Am Coll Cardiol 1998;31:485A [poster].

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Invited Non-Peer Reviewed Works

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INVITED LECTURES: NATIONAL AND INTERNATIONAL FORUMS

L1) "The Role of Triage Angiography in Acute Coronary Syndromes." Advances in Interventional Cardiology. WBH and the University of Maryland, Aruba, April, 1997.

L2) "New Understandings of Anticoagulation During Unstable Angina." Co-Chair, American College of Cardiology 47th Annual Scientific Session, Atlanta, Georgia, March 30, 1998.

L3) National Library of Medicine: The Emerging Health Information Infrastructure '99. "Electronic Outcomes", Washington, D.C., April 28, 1999.

L4) Kansas City Southwest Clinical Society, 77th Annual Clinical Conference, Overland Park, Kansas: "Cardiac-Renal Risk: Incorporating Scientific Evidence into Your Practice," October 29, 1999.

L5) The Health Forum, Best Practices, Chicago, Illinois. "Overview of Cardiovascular Health Fellowship," December 9, 1999.

L6) AHA Scientific Conference on Existing Databases: Do They Hold Answers to Clinical Questions in Geriatric Cardiovascular Disease and Stroke? "Resource Utilization Among Congestive Heart Failure (R.E.A.C.H.) Database Overview," Washington, DC, January 27, 2000.

L7) Health Forum Cardiovascular Health Fellowship Retreat: "Cardiovascular Risk and Health," Colorado Springs, CO, July 20, 2000.

L8) Third Annual Center for Health Futures Advisory Board Meeting: "Congestive Heart Failure," La Jolla, CA, August 24, 2000.

L9) Health Forum ACT Learning Collaborative Meeting: "Bridging Clinical, Community, and Population Health Strategies," St. Joseph, MO, September 20, 2000.

L10) "Renal Disease as an Independent Risk Factor for Cardiovascular Disease in Diabetes," The Nexus of Cardiovascular and Renal Disease, Duke Clinical Research Institute, Tyson's Corner, VA, November 4, 2000.

L11) "Atherosclerosis and Heart Disease," Winter Scientific Seminar, Missouri Society of the American College of Osteopathic Physicians, Kansas City, MO, January 27, 2001.

L12) "Routine vs Selective Intervention in Acute Coronary Syndromes," Tenth Annual Cardiovascular Conference at Beaver Creek, Colorado, WBH and Duke University, February 14, 2001.

L13) "Intervention in the Patient with Renal Insufficiency," Tenth Annual Cardiovascular Conference at Beaver Creek, Colorado, WBH and Duke University, February 16, 2001.

L14) "The Epidemic of Cardiovascular Disease and Cardiorenal Risk," The Nexus of Cardiovascular and Renal Disease, Duke Clinical Research Institute, Tyson's Corner, VA, February 24, 2001.

L15) "Cardiovascular Risk in Chronic Kidney Disease: Cardiorenal Risk," Symposium on Cardio-renal Consequences of Angiotensin II, Insights from AII Blockade, NKF Spring Clinical Meeting, Orlando, FL, April 18, 2001.

L16) Plenary Session: "Cardiac Emergencies and Cardiac Critical Care," American College of Chest Physicians, CHEST 2001, Philadelphia, PA, November 5, 2001.

L17) "Cardiorenal Risk," The 33rd Annual ACC Cardiovascular Conference at Snowmass, Snowmass, Colorado, January 18, 2002.

L18) "Epidemiology of Diabetes and Its Cardiovascular Risk" Eleventh Annual Cardiovascular Conference at Beaver Creek, Colorado, WBH and Duke University, February 14, 2002.

L19) "Late-Breaking Clinical Trials II: A Prospective, Blinded Trial of B-Type Natriuretic Peptide as a Diagnostic Test for the Emergency Diagnosis of Heart Failure: The Breathing Not Properly (BNP) Multinational Study," March 19, 2002, 51st Annual Scientific Session of the American College of Cardiology, Atlanta, GA.

L20) "Scope of Cardiovascular Complications in Patients with Kidney Disease." Plenary Session III: Reversing Cardiovascular Complications in Patients with Kidney Disease. International Society on Hypertension in Blacks: 17th International Interdisciplinary Conference on Hypertension and Related Risk Factors in Ethnic Populations, Miami, FL, June 11, 2002.

L21) "Epidemiology: Renal—Chronic Kidney Disease." Atherosclerotic Vascular Disease Conference, AHA, Boston, MA, July 8, 2002.

L22) "B-type Natriuretic Peptide Should be a Part of the Diagnostic Evaluation of Heart Failure: Implications from the Breathing Not Properly (BNP) Multinational Study" International Academy of Cardiology 8th World Congress on Heart Failure—Mechanisms and Management, Washington, DC, July 15, 2002.

L23) "Epidemiology and Physiology of Radiocontrast Nephropathy and its Impact on Outcomes" Prevent the Event Transcatheter Therapeutics 2002 Satellite Symposium, Washington, DC, September 26, 2002.

L24) "Calcification or 'Phosphication'—Controversies of Calcium Phosphate Deposition: Invited Lecture: Coronary Calcification: A Predictor of Future Events or a Marker of Plaque Stability? American Society of Nephrology 2002 Annual Scientific Sessions Satellite Symposium, Philadelphia, PA, November 1, 2002.

L25) "Renal Insufficiency and Clinical Outcome" Cardiovascular Seminar, AHA Scientific Sessions, Chicago, IL, November 18, 2002.

L26) "Role of BNP in the Diagnosis of Heart Failure" ACC 34th Annual Cardiovascular Conference at Snowmass, CO, January 14, 2003.

L27) "Managing the Patient with Combined Heart and Renal Failure—the Importance of Anemia" ACC 34th Annual Cardiovascular Conference at Snowmass, CO, January 14, 2003.

L28) "The Emerging Healthcare Crisis of Obesity," Twelfth Annual Cardiovascular Conference at Beaver Creek, CO, February 10, 2003.

L29) "BNP in the Management of Heart Failure," Twelfth Annual Cardiovascular Conference at Beaver Creek, CO, February 11, 2003.

L30) "Contrast Nephropathy: Can it be Eliminated," Twelfth Annual Cardiovascular Conference at Beaver Creek, CO, February 13, 2003.

L31) "How Subtle Degrees of Renal Dysfunction Work as a Cardiac Risk Factor" First Cardiovascular Prevention Symposium: Updates and New Guidelines. AHA, Puerto Rico Chapter, San Juan, PR, March 22, 2003.

L32) "What Is the Incremental Diagnostic Value of B-Type Natriuretic Peptide in Heart Failure?" Symposium. American College of Cardiology Scientific Sessions, 2003, Chicago, IL, April 1, 2003.

L33) "Heart Failure Insights From Ejection Fraction" Session Co-Chair. Oral Contributions. American College of Cardiology Scientific Sessions, 2003, Chicago, IL, April 1, 2003.

L34) "Chronic Renal Insufficiency as a Vascular Risk Factor" 14th Annual Scientific Sessions of the Society for Vascular Biology and Medicine, Chicago, IL, June 7, 2003.

L35) "Phosphate Control and Calcification from a Cardiologist's Perspective" World Congress of Nephrology Satellite Symposium, Berlin, Germany, June 12, 2003.

L36) "Renal Disease is a Risk Factor for Cardiovascular Disease" ACC 29th Annual Tutorials in the Tetons 2003: Update in Cardiovascular Disease, August 25-27. 2003.

L37) "Diagnosis of Congestive Heart Failure: Is BNP Needed in Every Case?" ACC 29th Annual Tutorials in the Tetons 2003: Update in Cardiovascular Disease, August 25-27. 2003.

L38) "How to Treat Combined Heart and Renal Failure with Hypertension" ACC 29th Annual Tutorials in the Tetons 2003: Update in Cardiovascular Disease, August 25-27. 2003.

L39) "Which Agents Prevent Contrast-Induced Nephropathy?" European Society of Cardiology 2003 Symposium: Managing Patients at Risk for Contrast-Induced Nephropathy, Vienna, Austria, September 2, 2003.

L40) "Epidemiology of Contrast Nephropathy" Symposium Chair for "A Contrast in Risk: Radiographic Imaging in the Renally Compromised Patient", Satellite Symposium at the Transcatheter and Therapeutics Scientific Meeting, Washington, DC, September 17, 2003.

L41) "Update on Cardiovascular Risk Reduction in Acute Coronary Syndrome Patients" 14th Annual Great Wall International Congress of Cardiology, Beijing, China, October 10-13, 2003.

L42) "Renal Function and Dysfunction in Coronary Arteriography" 14th Annual Great Wall International Congress of Cardiology, Beijing, China, October 10-13, 2003.

L43) "Interventional Cardiology 2003: Bench to Bedside and Beyond, Session III: Contrast Nephropathy: Separating the Hype from the Data. Antagonist: Contrast Nephropathy Can be Prevented." AHA Scientific Sessions 2003, November 9, 2003, Orlando, FL.

L44) "Reversing Diabetes and Its Consequences: Pipe Dream or Reality?" The 35th Annual Cardiovascular Conference at Snowmass, ACC, Snowmass, CO, January 12-16, 2004.

L45) "Refining the Use of B-type Natriuretic Peptide as a Diagnostic Test in Clinical Practice" The 35th Annual Cardiovascular Conference at Snowmass, ACC, Snowmass, CO, January 12-16, 2004.

L46) "Practical Management of Obesity for the Cardiologist: The Future of Dietary Management and Bariatric Surgery" The 35th Annual Cardiovascular Conference at Snowmass, ACC, Snowmass, CO, January 12-16, 2004.

L47) "Update from the Hypertension World: JNC 7—What's New and How Will it Influence Practice?" Thirteenth Annual Cardiovascular Conference at Beaver Creek, Colorado, WBH and Duke University, February 9-13, 2003

L48) "The Lethal Couplet" Thirteenth Annual Cardiovascular Conference at Beaver Creek, Colorado, WBH and Duke University, February 9-13, 2003

L49) "BNP to Differentiate Between Cardiac and Extracardiac Sources of Dyspnea" 33rd Critical Care Congress, Society of Critical Care Medicine, Orlando, Florida, February 23, 2004.

L50) "BNP Testing: Is It Ready for In-Hospital Monitoring of Therapy?" Point-of-Care Symposium, American College of Cardiology Scientific Sessions 2004, New Orleans, LA, March 8, 2004.

L51) "Role of Brain Natriuretic Peptide Levels in Diagnosis" Natriuretic Peptides Symposium, American College of Cardiology Scientific Sessions 2004, New Orleans, LA, March 8, 2004.

L52) "Renal Insufficiency and the Heart" Symposium Co-Chair, American College of Cardiology Scientific Sessions 2004, New Orleans, LA, March 9, 2004.

L53) "Renal Insufficiency and Bypass Surgery" Renal Insufficiency and the Heart Symposium, American College of Cardiology Scientific Sessions 2004, New Orleans, LA, March 9, 2004.

L54) "Causes and Consequences of Contrast-Induced Nephropathy and other Major Adverse Coronary Events" Contrast-Induced Nephropathy: Addressing the Needs of the High Risk Patient. A Satellite Symposium to the American College of Cardiology Scientific Sessions 2004, New Orleans, LA, March 9, 2004.

L55) "Chronic Kidney Disease as a Cardiovascular Risk Factor" 2nd Annual Scientific Symposium, AHA of Puerto Rico, San Juan, PR, March 13, 2004

L56) "Modern use of Angiotensin Receptor Blockade in Cardiovascular Disease" 2nd Annual Scientific Symposium, AHA of Puerto Rico, San Juan, PR, March 13, 2004

L57) "Chronic Kidney Disease and Cardiovascular Disease" Satellite Symposium: Impact of Anemia Correction in Cardiovascular Patients, American Society of Hypertension Annual Scientific Session, New York, NY, May 22, 2004.

L58) "Contrast-Induced Nephropathy—Clinical Anomaly or Reality" Satellite Symposium: Selecting Contrast Media - Implications for Patient outcomes, EuroPCR 2004, Paris, France, May 26, 2004.

L59) "Contrast Nephropathy" Intervention 2004. American College of Cardiology Nationwide Symposium, CNN Center, Atlanta, GA, June 2, 2004.

L60) "Technical Issues in Selection of the BNP Assay" Satellite Symposium of the American Association of Clinical Chemistry, Los Angeles, CA, July 28, 2004.

L61) "B-type Natriuretic Peptide in Clinical Practice" New Development in Cardiac Biomarkers for Detection and Management of Cardiovascular Diseases, EBAC Accredited Educational Programme, in conjunction with the European Society of Cardiology 2004 Annual Congress, Munich, Germany, August 30, 2004.

L62) "Hot Topics: Renal Disease and Contrast Nephropathy—Implications for the PCI Patient" Session Moderator, Transcatheter Cardiovascular Therapeutics 2004, September 27, 2004.

L63) "Definition and Pathophysiology of Contrast Nephropathy", "Hot Topics: Renal Disease and Contrast Nephropathy—Implications for the PCI Patient" Transcatheter Cardiovascular Therapeutics 2004, September 27, 2004.

L64) "Use of BNP in Clinical Practice" "Hot Topics: Clinical Utility of Biomarkers" Transcatheter Cardiovascular Therapeutics 2004, September 28, 2004.

L65) "Contrast Media, Renal Insufficiency, and Radiocontrast Nephropathy" Introduction to Cardiac Catheterization and Indications for Percutaneous Interventions, 7th Annual Interventional Cardiology Self Assessment and Review Course, Transcatheter Cardiovascular Therapeutics 2004, September 29, 2004.

L66) "Body Weight—Optimal Targets and How Good are We in Getting There" "Drug Combinations for Cardiovascular Disease" Duke Clinical Research Institute and U.S. Food and Drug Administration Think Tank, Washington, DC, October 8, 2004.

L67) "Does Coronary Calcification Imply Plaque Instability?" Managing Cardiovascular and Calcium/Phosphorus Complications of CKD. Official Luncheon Symposium, Renal Week 2004, American Society of Nephrology, St. Louis, MO, October 20, 2004.

L68) "B-type Natriuretic Peptide in the Diagnosis of Acute Heart Failure," New Advances in the Diagnosis and Management of Acute Decompensated Heart Failure, Satellite Symposium to the AHA Scientific Sessions 2004, New Orleans, LA, November 8, 2004.

L69) "Oportunidades para Aprimoramento no Tratamiento da Insuficiencia Cardiaca," 3rd Congresso Brasileiro de Insuficiencia Cardiaca, II Simposio Luso-Brasileiro de Insufiencia Cardiaca, I Encontró Multiporfissional em Insuficiencia Cardiaca, II Simposio Latinoamericano de Insuficiencia Cardiaca, (Portugese) Salvador, Bahía, Brasil, November 25-27, 2004.

L70) "Peptideo Natriuretico Intravenoso-Perspectivas para Emprego na IC Descompensada," 3rd Congresso Brasileiro de Insuficiencia Cardiaca, II Simposio Luso-Brasileiro de Insufiencia Cardiaca, I Encontro Multiprofissional em Insuficiencia Cardiaca, II Simposio Latinoamericano de Insuficiencia Cardiaca, (Portugese) Salvador, Bahia, Brasil, November 25-27, 2004.

L71) "Nesiritide (Peptideo Natriuretico Intravenoso) uma Nova Arma no Tratamento da IC Grave e Decompensada," 3rd Congresso Brasileiro de Insuficiencia Cardiaca, II Simposio Luso-Brasileiro de Insufiencia Cardiaca, I Encontro Multiporfissional em Insuficiencia Cardiaca, II Simposio Latinoamericano de Insuficiencia Cardiaca, (Portuguese) Salvador, Bahia, Brasil, November 25-27, 2004.

L72) "Conferenca Magna (Keynote Address): The Cardiorenal Intersection: Crossroads to the Future," 3rd Congresso Brasileiro de Insuficiencia Cardiaca, II Simposio Luso-Brasileiro de Insufiencia Cardiaca, I Encontro Multiporfissional em Insuficiencia Cardiaca, II Simposio Latinoamericano de Insuficiencia Cardiaca, (Portuguese) Salvador, Bahia, Brasil, November 25-27, 2004.

L73) "Practical Use of BNP in the Diagnosis and Management of Heart Failure" Medical Grand Rounds, Olathe Regional Medical Center, Olathe, KS, December 3, 2004.

L74) "Management of Heart and Renal Failure" The 36th Annual Cardiovascular Conference at Snowmass, ACC, Snowmass, CO, January 18, 2005.

L75) "Contrast-Induced Nephropathy" The 36th Annual Cardiovascular Conference at Snowmass, ACC, Snowmass, CO, January 18, 2005.

L76) "Combined Heart and Kidney Failure" Cardiovascular Conference at Snowmass, Aspen, CO, January 18, 2005.

L77) "Practice Strategies and Protocols to Reduce Renal Complications" PCI: Understanding and Managing In-Hospital Cardiac and Renal Complications, 3rd European Summit, Chantily, France, February 11, 2005.

L78) "HDL Cholesterol: A Powerful New Therapeutic Target" 14th (Conference Chair) Annual Cardiovascular Conference at Beaver Creek, Beaver Creek, CO, February 14, 2005.

L79) "BNP-ology, is the Enthusiasm Warranted?" (Conference Chair) 14th Annual Cardiovascular Conference at Beaver Creek, Beaver Creek, CO, February 15, 2005.

L80) "Anticoagulation for Atrial Fibrillation: Can Warfarin be Replaced?" (Conference Chair) 14th Annual Cardiovascular Conference at Beaver Creek, Beaver Creek, CO, February 18, 2005.

L81) "New Multimarker Strategies in the Diagnosis of Acute Coronary Syndromes" Satellite Symposium to the 54th Annual American College of Cardiology Scientific Sessions 2005, Orlando, FL, March 7, 2005.

L82) "Effect of Lowering LDL Level on Progression of Vascular Calcification" Reducing the Burden of Cardiovascular Calcification in Chronic Kidney Disease, Satellite Symposium to the Renal Physicians Association Annual Meeting, Washington, DC, March 20, 2005.

L83) "Why Chronic Kidney disease is a CVD risk factor: Practical Implications in the Care of Cardiovascular Patients" Cardiology Grand Rounds, Clinical Science Institute, Galway, Ireland, UK, May 5, 2005.

L84) "Clinical Application of B-type Natriuretic Peptide Levels in the Care of Cardiovascular Patients" EuroLab 2005, Glasgow, Scotland, UK, May 9, 2005.

L85) "Anemia Is a Cardiovascular Risk Factor in Patients With Diabetic Nephropathy" The Kidney is a Key Link between Diabetes and Cardiovascular Disease: Managing Risk; Satellite Symposia to the Annual Scientific Sessions of the American Association of Clinical Endocrinology, Washington, DC, May 18, 2005.

L86) "CIN: Emerging Trends in Identifying and Managing the At-risk Patient" Cardiovascular and Interventional Radiology Society of Europe (CIRSE) 2005, Nice, France, September 13, 2005.

L87) "Recent Advances in Cardiac Markers and their Clinical Role in Cardiovascular Disease: Update of the BNP Consensus Panel Statements and Cost Effectiveness of BNP Testing" Turning Science into Caring Programme, Abbott European Laboratory Symposium, Wiesbaden-Delkenheim, Germany, October 14, 2005.

L88) "Epidemiology and Prevention of Contrast Nephropathy" Transcatheter Therapeutics Annual Scientific Sessions, Washington, DC, October 19, 2005.

L89) "BNP—What Does it All Mean?" Heart Failure 2005: What to Do for the Failing Left Ventricle" AHA Symposium in Conjunction with the 2005 Scientific Sessions, Dallas, TX, November 11, 2005.

L90) "How to Use Cardiac Biomarkers in Heart Failure" 2005 Annual Scientific Sessions of the AHA, Dallas, TX, November 14, 2005, broadcasted nationally as "Best of Sessions 2005 on Wednesday, November 30 from 1:00-2:30PM EST"

L91) "Chronic Kidney Disease as a Cardiovascular Risk State: Practical Management for the Cardiologist" St. Vincent's Hospital, University of British Columbia, Distinguished Speakers in Cardiovascular Medicine, 2005-2006, Vancouver, BC, Canada, December, 1, 2005.

L92) "Anemia, Chronic Kidney Disease, and Cardiovascular Disease: Diagnosis, Prognosis, and Treatment. Nephrology Grand Rounds, University of British Columbia, St. Vincent's Hospital, Vancouver, BC, Canada, December 2, 2005.

L93) "The Deadly Triangle of Anemia, Kidney and Heart Disease: Implications for Treatment and Management" 37th Annual Cardiovascular Conference at Snowmass, January 20, 2006, Snowmass, CO.

L94) "Anemia in Cardiovascular Patients: Diagnosis, Prognosis, and Therapy." AHA, Prevention VIII Conference: Kidney Disease, Hypertension, and Cardiovascular Disease, January 27, 2006, Orlando, FL.

L95) "Update on Bariatric Surgery" (Conference Chair) 15th Annual Cardiovascular Conference at Beaver Creek, Beaver Creek, CO, February 17, 2006.

L96) "Multimarker Approach to Chest Pain." Satellite Symposium to the Annual Scientific Sessions of the American College of Cardiology, March 11, 2006, Atlanta, GA.

L97) " Preventing Contrast Nephropathy: What Works?" American College of Cardiology Annual Scientific Sessions (ACC.06 and the i2 Summit 2006), March 14, 2006, Atlanta, GA.

L98) "Consensus statements on strategies to reduce the risk of CIN." Satellite Symposium Society for Cardiac Angiography and Intervention 29th Annual Scientific Sessions (Symposium Chair): Consensus Statements on Contrast-Induced Nephropathy (CIN): Report of an International, Multidisciplinary Panel, Chicago, IL, May 11, 2006.

L99) "Contrast-induced nephropathy: identifying and managing the patient at risk." Euro PCR 2006 Satellite Symposium: The Underestimated Impact of Contrast Media on Patient Outcomes in PCI (Symposium Chair), Paris, France, May 27, 2006.

L100) "Debate: Acute Decompensated Heart Failure--Biomarker will suffice" 17th Annual Scientific Sessions of the American Society of Echocardiography, Baltimore, MD, June 6, 2006.

L101) "Heart and Kidney: Clinical Impact of Contrast Media" Update on Cardiovascular Disease 2006, Casa Di Cura Montevergine, Napoli Castel Dell'Ovo, Naples, Italy, June 19, 2006.

L102) "Cardiovascular Disease in CKD: Where Does Calcium Fit In?" Satellite Symposia: Current Strategies for the Management of Hyperphosphatemia in End-Stage Renal Disease. European Renal Association/European Dialysis and Transplantation Association Annual Scientific Meeting, Glasgow, Scotland, July 17, 2006.

L103) "Applications of BNP in Cardiovascular Disease" Satellite Symposia: New and Evolving Markers for Cardiovascular Disease: Myeloperoxidase (MPO) and BNP. American Association of Clinical Chemistry Annual Meeting, Chicago, IL, July 26, 2006.

L104) "Clinical Applications of B-type Natriuretic Peptide Testing" Clinical Biochemistry Satellite Symposium: The Role of Biochemical Markers in Clinical Cardiology, Sponsored by the Australasian Association of Clinical Biochemists at the 54th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Canberra, Australia, August 4, 2006.

L105) "Update on BNP in the Management of Heart Failure" 54th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Canberra, Australia, August 6, 2006.

L106) "Update on BNP in the Management of Heart Failure" Cardiology Grand Rounds, Royal North Shore Hospital, Sydney, Australia, August 7, 2006.

L107) "Contrast-Induced Nephropathy: Identifying and Managing the Patient at Risk" Advances in Contrast-Enhanced Imaging: Improving Outcomes and Reducing Risks of Iodinated Contrast (Chairman), a CME Satellite Symposium at the Transcatheter Therapeutics 2006 Conference, Washington, DC, October 24, 2006.

L108) "Cardiorenal Syndrome: Etiology, Therapy, and Prognosis" Unresolved Issues in Heart Failure, Cardiovascular Seminars, 2006 Annual Scientific Sessions of the AHA, Chicago, IL, November 14, 2006

L109) "Prevention and Management of CAD in CKD" Coronary Artery Disease in CKD: Updating the Pathophysiology and Management. Official Symposium of the American Society of Nephrology, Sand Diego, CA, November 16, 2006.

L110) "Pharmacologic Prevention of Sudden Death in Dialysis Patients" Sudden Death in Hemodialysis Patients: Towards Prevention. American Society of Nephrology Renal Week 2007, San Diego, CA, November 17, 2006.

L111) "Contrast Nephropathy: Finding Consensus on a Rational Approach" Radiology Grand Rounds, Hôpital Notre-Dame, University of Montreal, Canada, November 23, 2006.

L112) "Contrast Nephropathy: Finding Consensus on a Rational Approach" Radiology Grand Rounds, Hôpital St-Luc, University of Montreal, Canada, November 23, 2006.

L113) "Cardiorenal Syndrome and Anemia" 3rd Annual Heart Failure University (HFU) Cardiovascular Fellows Program, Los Angeles, CA, December 2, 2006.

L114) "Implications of Age-Related Decline in Renal Function" 16th Annual Cardiovascular Conference at Beaver Creek, Beaver Creek, CO, February 12, 2007.

L115) "Using BNP in Your Practice: Pearls and Pitfalls" 16th Annual Cardiovascular Conference at Beaver Creek, Beaver Creek, CO, February 15, 2007.

L116) "Consensus Panel Findings on Contrast Nephropathy" 16th Annual Cardiovascular Conference at Beaver Creek, Beaver Creek, CO, February 16, 2007.

L117) "Measuring BNP in ACS," American College of Cardiology Scientific Sessions Satellite Symposium, "ACS & Biomarkers: From Molecules to Patient Management", New Orleans, LA, March 24, 2007.

L118) "Anemia Correction and CVD Trials" "Ask the Experts" clinicaltrialresults.org, American College of Cardiology Scientific Sessions, New Orleans, LA, March 26, 2007.

L119) "CKD and CVD: Interaction and Risk Factors", Kidney Disease: The Unrecognized Silent Killer, NKF 2007 Scientific Meetings, Orlando, FL, April 11, 2007.

L120) "Contrast-Induced Nephropathy: A Meta-Analyses of the Renal Safety of Iodixanol" Special Lecture for the Radiological Society of the Republic of China, National Yang-Ming University, School of Medicine, Taipei, Taiwan, May 4, 2007.

L121) "Contrast-Induced Nephropathy: A Meta-Analyses of the Renal Safety of Iodixanol" Annual Meeting of Kaohsiung Society of Radiology, Chang Gung Memorial Hospital, Kaohsiung Hsien, Taiwan, May 5, 2007.

L122) "Meta-Analyses of the Renal Safety of Iodixanol", Plenary Session, 15th Annual Scientific Congress of the Hong Kong College of Cardiology, Hong Kong, SAR, May 6, 2007.

L123) "Contrast-Induced Nephropathy: A Meta-Analyses of the Renal Safety of Iodixanol" Cardiology Special Lecture, 12th Department of Cardiology, Beijing AnZhen Hospital, Beijing, Peoples Republic of China, May 7, 2007.

L124) "Prevention of CIN during PCI in Diabetic Patients: Proposal of a Guideline" (Prevencion del Fracaso Renal Inducido por Contraste en Pacientes Diabeticos Sometidos a Intervencionismo Coronario: Propestuesta de un Protocolo Actuacion), Optimizacion del Tratamiento de Revascularizacion Percutanea en Pacientes Diabeticos, TEAM (Terapia Endovascular & Miocardica), Hospital del Mar, Barcelona, Spain, May 11, 2007.

L125) "Acute Kidney Injury from Iodinated Contrast: Findings from an International Panel," Hungarian Society of Cardiology Annual Scientific Meeting (Magyar Kardiologusok Tarsasaga Tudomanyos Kongresszusa) Balatonfured, Hungary, May 12, 2007.

L126) "Which Types and Which Amount of Physical Activities to Achieve and Maintain a Healthy Body Weight?" 4th Metabolic Syndrome, Type II Diabetes, and Atherosclerosis Congress (MSDA), 2007, Lisbon, Portugal, May 19, 2007.

L127) "The Role of BNP in Patients with Shortness of Breath," Laboratory Diagnostic Technologies for Patients with Shortness of Breath, Satellite Symposium to the American Association of Clinical Chemistry Annual Scientific Meeting, San Diego, CA, July 18, 2007.

L128) "Acute Kidney Injury after Contrast: A Serious Problem by Any Name", Hemodynamics, Electrolytes, Acute Kidney Injury: Novel Considerations in Contrast Selection, Transcatheter Cardiovascular Therapeutics 2007 Annual Meeting Satellite Symposium, Washington, DC, October 23, 2007.

L129) "Vascular Calcification: Myth versus Realty: A Cardiologist's Perspective," Changing Paradigms: Evolving Bone and Mineral Metabolism Treatment in CKD, An American Society of Nephrology 2007 Official Symposia, San Francisco, CA, November 3, 2007.

L130) "Contrast-Induced Nephropathy" Cardiology Grand Rounds, Auckland City Hospital, Auckland, New Zealand, November 22, 2007.

L131) "Practical Use of Natriuretic Peptides in Cardiovascular Disease" North Shore Hospital- Waitemata Health, Takapuna, Auckland, New Zealand, November 22, 2007.

L132) "Practical Use of Natriuretic Peptides in Cardiovascular Disease" Waikato Hospital, Hamilton, New Zealand, November 23, 2007.

L133) "Practical Use of Natriuretic Peptides in Cardiovascular Disease" Wakefield Hospital, Adelaide, Australia, November 23, 2007.

L134) "Clinical Utilization of Cardiac Troponin and Natriuretic Peptides in ACS and CHF" Satellite Symposium to Australasian Emergency Meeting (ACEM), Gold Coast, Brisbane, Australia, November 27, 2007.

L135) "Clinical Utilisation of Cardiac Troponin and Natriuretic Peptides in ACS and CHF: Part 1: Congestive Heart Failure, Part 2: Acute Coronary Syndrome, Part 3: Cardio-Renal Syndrome, Kuala Lumpur, Malaysia, November 29, 2007.

L136) "Multimarker Strategies in the Management of Cardiovascular Emergencies," YMCA for Dr. H.F.Ho, Queen Elizabeth Hospital, Hong Kong, SAR, November 30, 2007.

L137) "Practical Management of Cardiovascular Disease in Patients with Kidney Disease" Williamsburg, Virginia for the 34th Annual Williamsburg Conference on Heart Disease, Williamsburg, VA, December 3, 2007.

L138) "New Cardiovascular Drugs" 17th Annual Cardiovascular Conference at Beaver Creek" Avon, CO, February 12, 2008.

L139) "New Insights into Atherosclerosis and Global CVD Risk," 17th Annual Cardiovascular Conference at Beaver Creek" Avon, CO, February 12, 2008.

L140) "Plenary 2 : Mini-Symposia: Acute Kidney Injury (AKI): Pathophysiology: Contrast Nephropathy: Epidemiology and Prognosis" 13th Annual International Conference on Continuous Renal Replacement Therapies, San Diego, CA, February 28, 2008.

L141) "Heart Failure and Cardio-Renal Syndrome 1: Pathophysiology" 13th Annual International Conference on Continuous Renal Replacement Therapies, San Diego, CA, February 29, 2008.

L142) "Hemodynamic Monitoring: Principles and Practice" 13th Annual International Conference on Continuous Renal Replacement Therapies, San Diego, CA, February 29, 2008.

L143) "Cardiovascular Calcification, Potential Strategies in Minimizing Cardiovascular Disease in CKD", Satellite Symposia at the 57th ACC Annual Scientific Sessions, Chicago, IL, March 30, 2008.

L144) "Emergency Evaluation of Chest Pain: Building a Better Mousetrap" Olathe Medical Center Annual Heartbeat Symposium, Olathe, KS, April 4, 2007.

L145) "Interventions and CVD Interactions in Diabetics with Proteinuria" Satellite Symposia (Chairman) Chronic Kidney Disease Interventions: Improving CKD and CVD Outcomes" NKF Clinical Meeting 2008, Dallas, TX, April 5, 2008.

L146) "Shifting Paradigms in PCI: Controversial Issues in High-Risk Patients" International Symposium (Chairman), Barcelona, Spain, April 10, 2008.

L147) "Success in Identifying Heart Failure" Satellite Symposia "Managing CVD: What Every Internist Needs to Know" Annual Scientific Sessions of the American College of Physicians, Washington, DC, May 14, 2008.

L148) "Cardiovascular Calcification in Patients with Chronic Kidney Disease" Satellite Symposia "Cardiovascular Disease in CKD: Strategies for Minimizing Mortality" Annual Scientific Sessions of the American College of Physicians, Washington, DC, May 15, 2008.

L149) "Clinical Trial Designs in Contrast Induced Acute Kidney Injury," Third Annual AKIN Conference on Research Initiatives in AKI, Bethesda, MD, June 10-12, 2008.

L150) "Neutrophil Gelatinase Associated Lipocalin (NGAL)" on Behalf of Inverness Medical, Third Annual AKIN Conference on Research Initiatives in AKI, Bethesda, MD, June 10-12, 2008.

L151) "Practical Strategies to Manage Contrast-induced Acute Kidney Injury (CI-AKI): The Evidence and the Controversy" Radiological Society of Taiwan, Taipei, Taiwan, July 17, 2008.

L152) "Practical Strategies to Manage Contrast-induced Acute Kidney Injury (CI-AKI): The Evidence and the Controversy" Radiological Society of Taiwan, Kaushiung, Taiwan, July 18, 2008.

L153) "Practical Strategies to Manage Contrast-induced Acute Kidney Injury (CI-AKI): The Evidence and the Controversy" Contrast-Induced Nephropathy Symposium, Professor Yalin Han, MD, Chairwoman of Military Cardiology Society of China, Shenyang, China, July 20, 2008.

L154) Cardiology Teaching Rounds, with Professor Runlin Gao, Beijing Fuwai Hospital, Beijing, China, July 21, 2008.

L155) Cardiology Teaching Rounds, with Professor Yujie Zhou, Beijing Anzhen Hospital, Beijing, China, July 21, 2008.

L156) Cardiology Teaching Rounds with Professor Yundai Chen, General Hospital of Military, Peoples Liberation Army, Beijing, China, July 21, 2008.

L157) "Practical Strategies to Manage Contrast-induced Acute Kidney Injury (CI-AKI): The Evidence and the Controversy" Contrast-Induced Nephropathy Symposium, Contrast-Induced Nephropathy Symposium, Professor Runlin Gao, Chairman of Chinese Cardiology Society, Beijing, China, July 22, 2008.K

L158) "New Insights on Accelerated Vascular Calcification in Patients with Kidney Disease" Plenary Session: Ischemic Heart Disease/Risk Assessment/New Treatment Strategies"

International Academy of Cardiology 14th World Congress on Heart Disease, Annual Scientific Sessions, Toronto, Ontario, Canada, July 29, 2008.

L159) "Cardiorenal Syndrome: the Diagnostic Value of Brain Natriuretic Peptide and Neutrophil Gelatinase Associated-Lipocalin in Interventional Cardiology," Cardiovascular Biomarkers which Enhance Clinical Practice in Emergency Medicine and Cardiology: the State of the Art for Markers of Necrosis, Hemodynamic Stress and Cardiorenal Syndrome, Satellite Symposium to the European Society of Cardiology Annual Scientific Sessions, Munich, Germany, September 2, 2008.

L160) "Diagnosis and Management of Diabetes, Hypertension, and Acute Dyspnea," 2008 CVD and CKD Intersection Consensus Conference, Chicago, IL, September 26, 2008.

L161) "Chronic Kidney Disease and Contrast Nephropathy (Contrast-Induced Acute Kidney Injury [CI-AKI]): From Prognostic Scores to the Latest Preventive Strategies" Complex Patients, Complex Lesions, 20th Annual Transcatheter Therapeutics Conference, Washington, DC, October 14, 2008.

L162) "Chronic Kidney Disease: a CHD Risk Equivalent" 2008 Cardiometabolic Health Congress, Harvard Medical School, Boston, MA, October 19, 2008.

L163) "Hyperphosphatemia as a Cardiovascular Risk Factor" Nephrology Conference, The Ottawa Hospital, Ottawa, Ontario, Canada, October 28, 2008.

L164) "Cardiovascular Calcification in Patients with Chronic Kidney Disease" Nephrology Division-Wide Conference, The Ottawa Hospital, Ottawa, Ontario, Canada, October 28, 2008.

L165) "Hyperphosphatemia and CVD Risk," Management of Hyperphosphatemia Across the Continuum of CKD, American Society of Nephrology Satellite Symposium, Philadelphia, PA, November 8, 2008.

L166) "Cardiovascular Calcification" Nephrology Grand Rounds, Humber River Regional Hospital, Toronto, Ontario, Canada, December 9, 2009.

L167) "Cardiovascular Calcification" Nephrology Grand Rounds, St. Joseph's Hospital, Toronto, Ontario, Canada, December 9, 2009.

L168) "Critical Concepts in the Progression of Atherosclerosis" 18th Annual Cardiovascular Conference at Beaver Creek, Beaver Creek, CO, February 9, 2009.

L169) "New Molecular Targets in the Treatment of Atherosclerosis" 18th Annual Cardiovascular Conference at Beaver Creek, Beaver Creek, CO, February 9, 2009.

L170) "Sudden Cardiac Death in Patients with Renal Disease" 18th Annual Cardiovascular Conference at Beaver Creek, Beaver Creek, CO, February 12, 2009.

L171) "Cardiovascular and Renal Implications of Contrast Media" Radiology Grand Rounds, The Kingston Hospital, Queens University School of Medicine, Kingston, Ontario, Canada, March 3, 2009.

L172) "Recent Evidence into the Pathophysiology of Cardiovascular Calcification in Chronic Kidney Disease," NKF Symposium 2009 Spring Clinical Meetings, "Exploring Recent Evidence Related to Cardiovascular Calcification and Chronic Kidney Disease", Nashville, TN, March 27, 2009.

L173) "Chronic Kidney Disease: Implications For Patients With CAD" Managing the High Risk Coronary Patient, I2 Summit, American College of Cardiology Annual Scientific Sessions, Orlando, FL, March 30, 2009.

L174) "BNP and Cardiovascular Disease" Cardiology Grand Rounds, Hospital PróCardíaco, Rio deJaniero, Brasil, April 14, 2009.

L175) "Acute Cardiac Effects of Marathon Running" Special Guest Lecture, CLINIMEX - Clínica de Medicina do Exercício, Rio deJaniero, Brasil, April 14, 2009.

L176) "Interface entre doenca renal e cardiovascular: o rim mata o coracao ou o coracao mata o rim? Da para evitar esse extermino?" Terapeutica Cardiovascular International, Hospital Espanhol, Salvador, Brasil, April 17, 2009.

L177) "A angiotomografia coronaria deve ser empregada em todo paciente com do toracica de risco baixo-moderado?" Terapeutica Cardiovascular International, Hospital Espanhol, Salvador, Brasil, April 17, 2009.

L178) "Conferencia Internacional: Opportunidades para aperfeicoar o tratamento da insuficiencia cardiaca avancada/descompensada" Terapeutica Cardiovascular International, Hospital Espanhol, Salvador, Brasil, April 17, 2009.

L179) "Invasive Versus Non-invasive Coronary Angiography: Guidelines for Achieving Optimal Outcomes" Annual Scientific Sessions of the Society for Cardiac Angiography and Intervention, Las Vegas, NV, May 7, 2009.

L180) "Cardiorenal Syndrome" Moderator, American Society of Nephrology Annual Scientific Sessions, Renal Week 2009, San Diego, CA, October 29, 2009.

L181) "The Creatinine Changes: Now What?" Cardiorenal Syndromes, Annual Scientific Sessions, AHA, Orlando, FL, November 16, 2009.

L182) "Cardiorenal Syndromes: Strategies for Success" 19th Annual Cardiovascular Conference at Beaver Creek, Avon, CO, February 6-11, 2010.

L183) "Cardiomyopathy of Obesity" 19th Annual Cardiovascular Conference at Beaver Creek, Avon, CO, February 6-11, 2010.

L184) "Why Does Atherosclerosis Calcify: Clinical Implications" 19th Annual Cardiovascular Conference at Beaver Creek, Avon, CO, February 6-11, 2010.

L185) "Prevention Trials in AKI" 15th International Conference on Continuous Renal Replacement Therapies (CRRT: 2010) Scientific Meeting, Del Coronado, CA, February 24, 2010.

L186) "Cardiology Trials" 15th International Conference on Continuous Renal Replacement Therapies (CRRT: 2010) Scientific Meeting, Del Coronado, CA, February 24, 2010.

L187) "Contrast Nephropathy: Prevention and Management" 15th International Conference on Continuous Renal Replacement Therapies (CRRT: 2010) Scientific Meeting, Del Coronado, CA, February 26, 2010.

L188) "Lipoprotein-Associated Phospholipase A2 (Control#: 4599)" Symposium: Do New Markers & Genomics Enhance Risk Prediction? Annual Scientific Sessions of the ACC, Atlanta, GA, March 15, 2010.

L189) "New Insights Into the Role of Heart-Kidney Interactions in the Cardiorenal Syndrome" (Control#: 16660) Symposium: Recognition and Management of the Cardiorenal Syndrome in Advanced Heart Failure, Annual Scientific Sessions of the American College of Cardiology, Atlanta, GA, March 15, 2010.

L190) "B-Type Natriuretic Peptides in Cardiorenal Syndromes" 5th Annual Turning Science into Caring Symposium, Wiesbaden, Germany, March 25, 2010.

L191) "CKD and CVD Interaction in KEEP" KEEP Update: the Common Soil of CKD and CVD, NKF Spring Clinical Meetings, Orlando, FL, April 16, 2010.

L192) "Cardio Renal Intersection, Crossroads to the Future - Novel Coronary Risk Factors" NKF Spring Clinical Meetings, Orlando, FL, April 16, 2010.

L193) "Diagnostic Workup of suspected heart disease in CKD" NKF Spring Clinical Meetings, Orlando, FL, April 17, 2010.

L194) "BNP: Beyond Heart Failure (BNP más allá de la insuficiencia cardiaca)", XIX Chile 2010 Congreso Latinoamericano de Bioquimica Clinica, XVI Congreso Chileno de Quimica

Clinica, Biomarcadores en Enfermedades Cario-Renales COLABIOCLI 2010, Santiago del Chile, April 21, 2010.

L195) "Prevention of Cardiorenal Syndromes", 19th International Vicenza Course on Critical Care Nephrology, Vicenza, Italy, June 10, 2010.

L196) "La Pandemia de la Obesidad: Que podemos hacer aquí y ahora" "Importancia de la Evaluación previa y el monitoreo cardiaco en rehabilitación cardiaca" "Ergoespirometria: Diagnostico e implicaciones terapéuticas," Sociedad Columbiana de Cardiologica y Ciruga Cardiovacular Fundacion Columbiana del Corazon Comite de Prevencion y Rebabilitacion Cardiovascular Dia Mundial del Corazon, Santa Marta, Columbia, September 25, 2010.

L197) "CKD: A CHD Equivalent" 2010 Cardiometabolic Health Congress (CMHC), Boston MA, October 22, 2010.

L198) "Treatment Disparities in Patients with Acute Coronary Syndromes and Kidney Disease" AHA Scientific Sessions 2010, Chicago, IL, November 13, 2010.

L199) "Integration of Advanced Information Technology into Nephrology Practice" Moderator, at the American Society of Nephrology, Denver, CO, November 21, 2010.

L200) "Cardiorenal Syndromes" Special Lecture, Mansoura Nephrology and Urology Center, Mansoura, Egypt, November 29, 2010.

L201) "Neutrophil Gelatinase Associated Lipocalin." Al Mokhtabar Laboratories, Cairo, Egypt, December 1, 2010.

L202) "Cardiorenal Syndromes" ACC Williamsburg Conference, Williamsburg, VA, December 5, 2010.

L203) "Micronutrients and Cardiorenal Disease: Insights into Novel Assessments and Treatment" 13th International Conference on Dialysis, Advances in CKD 2011, Miami, FL, January 26, 2011.

L204) "Managing High Risk Patients in a i2 Spotlight entitled Cardiac Care Team Spotlight: Approaches for CAD Management" American College of Cardiology 60th Annual Scientific Session and i2 Summit 2011, April 2, 2011, in New Orleans, LA.

L205) "Lipid Management in Patients with Renal Insufficiency in a ACC Symposium entitled Lipid Management in Special Populations" American College of Cardiology 60th Annual Scientific Session and i2 Summit 2011, April 2, 2011, in New Orleans, LA.

L206) "KEEP Symposium 2011: KEEP A New Longitudinal Dimension for a New Decade" NKF Spring Clinical Meetings, April 29, 2011, Las Vegas, NV.

L207) "Disparities of Treatment for ACS and Heart Failure in CKD Patients" 20th International Vicenza Course on Hemodialysis and CKD, June 8, 2011, Vicenza, Italy.

L208) "AKI: Can We Prevent It?" 20th International Vicenza Course on Hemodialysis and CKD, June 9, 2011, Vicenza, Italy.

L209) "Measuring Natriuretic Peptides in Acute Coronary Syndromes" American Association of Clinical Chemistry Annual Meeting, Atlanta, GA, July 26, 2011.

L210) "Biomarkers in Stable Angina and Microvascular Dysfunction", Emerging Role of Biomarkers in Cardiorenal Syndrome and Acute Coronary Syndrome: Diagnosis Stratification and Management, Siena Italy, September 2, 2011.

L211) "Cardiorenal Syndrome Definition and Scope: Cardiac Perspective" 28th National Congress of Nephrology, Hypertension, Dialysis, and Transplantation, Antalya, Turkey, October 20, 2011.

L212) "Targeted Hypertension Management for Optimal Cardiorenal Outcomes" 28th National Congress of Nephrology, Hypertension, Dialysis, and Transplantation, Antalya, Turkey, October 22, 2011.

L213) "The KEEP Experience" 3rd International Symposium on Albuminuria – The Prognostic Role of Albuminuria: Impact on Kidney and Cardiovascular Outcomes, Groningen, Netherlands, December 1, 2011.

L214) "Cardiorenal Syndromes" Cardiology Guest Lecture, University of Chicago, Pritzker School of Medicine, Chicago, IL, January 18, 2012.

L215) "Diagnosis of Cardiovascular Disease in CKD" 14th international conference on dialysis, advances in CKD 2012, Palm, Harbor, FL, January 26, 2012

L216) "Acute Kidney Injury Guidelines" KDIGO Clinical Practice Conference: KDIGO Guidelines on Acute Kidney Injury, Glomerulonephritis, and Anemia, Shanghai, China, February 5, 2012

L217) "Galectin-3: A Novel Blood Test for the Evaluation and Management of Heart Failure" Cardiology Grand Rounds, University of Arkansas for Medical Sciences, Little Rock, Arkansas, February 8, 2012

L218) "Contrast-Induced Acute Kidney Injury" 17th Annual CRRT 2012, Acute Kidney Injury Controversies, Challenges, and Solutions, San Diego, CA February 15, 2012

L219) "Recent Trials in the Prevention of Contrast-Induced AKI: Importance of Emerging Biomarkers" 17th Annual CRRT 2012, Acute Kidney Injury Controversies, Challenges, and Solutions, San Diego, CA February 17, 2012

L220) "Role of Galectin-3 in Heart Failure" Joint American Association of Cardiologists of Indian Origin and ACC Dinner Symposium, American College of Cardiology Scientific Sessions 2012, Chicago, IL, March 25, 2012

L221) "Bariatric Surgery: A Cure for Obesity?" American College of Cardiology Scientific Sessions 2012, Joint Symposium of the American Association of Clinical Endocrinologists and the ACC: Cardiologists as Endocrinologists – Emerging Management of the Diabetic Patient, Chicago, IL, March 26, 2012

L222) "Practical Management of Obesity for the Cardiologist" 48th Annual Robert M. Jeresaty Cardiovascular Symposium, Hartford, CT, May 3, 2012

L223) "Prevention of Cardiovascular Events: Beyond Statins" 48th Annual Robert M. Jeresaty Cardiovascular Symposium, Hartford, CT, May 3, 2012

L224) "Contrast Media and Patient Safety: The Clinical Impact" Swiss Congress of Radiology, Zurich, Switzerland, May 31, 2012

L225) "Importance of Methodological Rigor in CI-AKI Meta-Analyses" 48th Congresso Nazionale Italian Society of Radiology (SIRM), Torino, Italy, June 2, 2012

L226) "Chronic Kidney Disease and Heart Failure" 2012 Cardiometabolic Health Congress (CMHC) Boston, MA, October 12, 2012

L227) "Chronic Kidney Disease and Acute Myocardial Infarction" CKD a Recipe for CVD Disaster, Kidney Week, American Society of Nephrology, San Diego, CA, October 30, 2012

L228) "Epidemiology and Pathophysiology of Coronary Artery Disease in Chronic Kidney Disease" Scientific Sessions 2012, AHA, Los Angeles, CA, November 5, 2012

L229) "The Cardiorenal Syndrome" Acute Dialysis Quality Initiative 11: Cardiorenal Syndromes, Venice, Italy, November 30, 2012

L230) "Cardiorenal Syndromes" Cardiology Grand Rounds, University of Missouri School of Medicine, Columbia, MO, December 20, 2012

L231) "Diagnosis and Management of Coronary Disease in Patients with Kidney Disease" Internal Medicine Grand Rounds, University of Missouri School of Medicine, Columbia, MO, December 20, 2012

L232) "The Hypertension Epidemic: Are We Any Further Ahead?" 22nd Annual Cardiovascular Conference at Beaver Creek, Avon, CO, February 9-16, 2013

L233) "Cardiorenal Syndromes: The Cardiac Perspective" Inaugural Cardio Renal Society of America (CRSA), 14th Annual Southwest Nephrology Conference (SWNC), Chandler, AZ, March 2, 2013

L234) "Managing Hyponatremia in Cardiorenal Syndromes" Satellite Symposia to the NKF Spring Clinical Meetings, Orlando, FL, April 3, 2013

L235) "Session Title: Debate: To Screen or Not to Screen for CKD--PRO? NKF Spring Clinical Meetings, Orlando, FL, April 5, 2013

L236) "Galectin-3: A Novel Biomarker for the Assessment and Management of Heart Failure" Heart Failure Conference, University of Pittsburgh Medical Center, Pittsburgh, PA, May 28, 2013

L237) "The Kidney in Heart Failure" 31st International Vicenza Course on Critical Care Nephrology, June 11-14, 2013, Vicenza, Italy

L238) "Contrast-Induced Acute Kidney Injury" 31st International Vicenza Course on Critical Care Nephrology, June 11-14, 2013, Vicenza, Italy

L239) "Novel Biomarkers in the Prognosis and Management of Heart Failure" BUMC Medicine Grand Rounds, August 20, 2013, Dallas, TX

L240) "Cardiorenal Syndromes: New Insights into Combined Heart and Kidney Failure" Cardiology Grand Rounds, University of Virginia Medical Center, August 26, 2013, Charlottesville, VA

L241) "Major Advances in the Treatment of Atherosclerosis: New Options for Patients with Familial Hypercholesterolemia and Those Intolerant to Conventional Lipid Lowering Therapy" Cardiology Update, University of Missouri School of Medicine, September 14, Columbia, MO

L242) "Keynote Address: Recent Advances in the Assessment of Acute Kidney Injury with Neutrophil Gelatinase Associated Lipocalin" 47th Brazilian Congress of Clinical Pathology and Laboratory Medicine, September 23, 2013, Sao Paulo, Brazil.

L243) "Advancements in Cardiometabolic Risk Assessment: Expert Analysis of Recent Evidence and Outcomes" 2013 Cardiometabolic Health Congress, October 2, 2013, Boston, MA.

L244) "Keynote Address: Cardiorenal Syndromes: New Insights to Patients with Combined Heart and Kidney Failure" Fourth Italian Great Network Congress, Focus on Innovation and Translational Research in Emergency Medicine, Sapienza Universita di Roma, October 14-18, 2013, Rome, Italy.

L245) "Practical Experience with Galectin-3" Fourth Italian Great Network Congress, Focus on Innovation and Translational Research in Emergency Medicine, Sapienza Universita di Roma, October 14-18, 2013, Rome, Italy.

L246) "Using Novel Biomarkers in the Assessment and Management of Heart Failure" Bon Secours Cardiovascular Conference, October 25, 2013, Williamsburg, VA

L247) "Detection and Consequences of Iron Deficiency Anemia in CKD Patients" Session Title: The Role of Iron in the Optimization of Anemia Management in CKD, American Society of Nephrology, Kidney Week, November 9, 2013, Atlanta, GA

L248) "Bench to Bedside: What Happens to the Physiologic Systems After an Acute Bout of High Intensity/Volume Exercise?" Session Title: Cardiovascular Seminar entitled Potential Cardiotoxicity of Extreme Endurance Exercise, Annual Scientific Sessions of the AHA, November, 20, 2013, Dallas, TX.

L249) "Atrasentan for the treatment of diabetic nephropathy: how to control the risk of heart failure?" Session Title: "Lessons Learned from First Post FDA Guidance Case Studies of Diabetes CV Outcomes Trials, 10th Global CardioVascular Clinical Trialists (CVCT) Forum, December 7, 2013, Paris, France.

L250) "Reflection: Biomarker-based modeling tools: safer drugs and faster development?" A workshop initiated by the TI-Pharma Escher project for academia, industry, and the European Medicines Agency, January 24, 2014, Amsterdam, the Netherlands.

L251) "Focus on lipids: HDL and Its Associated Lipoproteins in Cardiac and Renal Disease" Changing Paradigms in Acute Kidney Injury: From Mechanisms to Management Sponsored by UAB/UCSD O'Brien Center for AKI Research, 19th International Conference on Advances in Critical Care, CRRT 2014, International Society of Nephrology, Acute Kidney Injury Network, March 4-7, 2014, San Diego, CA.

L252) "Cardiac and Renal Fibrosis in Chronic Cardiorenal Syndromes" Targeting Recovery from Acute Kidney Injury:, 19th International Conference on Advances in Critical Care, CRRT 2014, International Society of Nephrology, Acute Kidney Injury Network, March 4-7, 2014, San Diego, CA.

L253) "Statins for AKI: Friend or Foe" Controversies in Critical Care Nephrology:, 19th International Conference on Advances in Critical Care, CRRT 2014, International Society of Nephrology, Acute Kidney Injury Network, March 4-7, 2014, San Diego, CA.

L254) "Managing Heart Failure and Cardiorenal Syndrome" Workshop, 19th International Conference on Advances in Critical Care, CRRT 2014, International Society of Nephrology, Acute Kidney Injury Network, March 4-7, 2014, San Diego, CA.

L255) "ST2: A Novel Biomarker in the Assessment and Management of Heart Failure" 2nd Annual Cardio Renal Society of America (CRSA), 15th Annual Southwest Nephrology Conference (SWNC), Ft. McDowell, AZ, March 8, 2014.

L256) "Cardiac and Renal Fibrosis in Chronic Cardiorenal Syndromes" 2nd Annual Cardio Renal Society of America (CRSA), 15th Annual Southwest Nephrology Conference (SWNC), Ft. McDowell, AZ, March 8, 2014.

L257) "New Approaches to the Management of Cardiorenal Syndromes" 2nd Annual Cardio Renal Society of America (CRSA), 15th Annual Southwest Nephrology Conference (SWNC), Ft. McDowell, AZ, March 8, 2014.

L258) "My New Favorite Biomarker: Galectin-3" 2014 UCSD Biomarkers in Clinical Practice Symposium, La Jolla, CA, April 5, 2014.

L259) "Changing Profile of Chronic Hyperkalemia" NKF Spring Clinical Meetings, Las Vegas, NV, April 24, 2014.

L260) "The Next Generation of Screening for Kidney Disease" NKF Spring Clinical Meetings, Las Vegas, NV, April 25, 2014.

L261) "Cardiorenal Syndromes" Cardiology, Diabetes & Nephrology at the Limits, Royal College of Physicians, London, UK, April 26, 2014.

L262) "Acute Cardiorenal Syndromes: New Insights into Combined Heart and Kidney Failure" Actual Problems of Extracorporeal Blood Purification in Intensive Care, Russian Scientific Society of Specialists in Extracorporeal Blood Purification, Bakoulev Scientific Center for Cardiovascular Surgery of the Russian Academy of Medical Sciences, Moscow, Russia, May 22, 2014.

L263) "Fibrosis in the Heart and Kidneys in the Pathogenesis of Chronic Cardiorenal Syndromes" Actual Problems of Extracorporeal Blood Purification in Intensive Care, Russian Scientific Society of Specialists in Extracorporeal Blood Purification, Bakoulev Scientific Center for Cardiovascular Surgery of the Russian Academy of Medical Sciences, Moscow, Russia, May 23, 2014.

L264) "Hyperkalemia: Old Foe with New Faces" 51st European Renal Association – European Dialysis and Transplantation Association Congress, Amsterdam, the Netherlands, June 2, 2014.

L265) "Contrast Induced Complications in the Cath Lab" Transcatheter Cardiovascular Therapeutics (TCT) Russia, Moscow, Russia, June 16, 2014.

L266) "The RAASi Debate: Should RAAS Continue with a Declining GFR?: Will the Path be Clearer" Co-Chair, European Society of Cardiology, Barcelona, Spain, August 31, 2014.

L267) "Novel Markers of Acute and Chronic Kidney Injury," Where Inflammation Meets Lipids: Broad Based Strategies for Risk Reduction, Cleveland Heart Labs, Cleveland, OH, September 12, 2014.

L268) "Advances in the Understanding of Acute and Chronic Cardiorenal Syndromes: Pathophysiological Crosstalk of Multiple Metabolic and Neurohormonal Systems" 41st Williamsburg Cardiovascular Conference, Williamsburg, VA, December 7, 2014.

L269) "CHADS, CHADS-VASc, HAS-BLED, What Does it Mean and How Do We Use It? Atrial Fibrillation Session, Dallas-Leipzig Valve 2104, Dallas, TX, December 11, 2014.

L270) "Soup-to-Nuts Renal Failure: Caring for the Patient with Kidney Injury" Society of Critical Care Medicine, Phoenix, AZ, January 19, 2015.

L271) "RAASi Optimization in Heart Failure" 2nd Annual Cardiorenal Society of America Meeting, Phoenix, AS, February 28, 2015.

L272) "Cardiac Surgery Associated Acute Kidney Injury" Association of Physician Assistants in Cardiac Surgery, Las Vegas, NV, March 3, 2015.

L273) "The Potassium Challenge in CKD: Managing Acute and Chronic Hyperkalemia: Novel Polymer-Based Potassium Binders: Clinical Evidence" NKF Spring Clinical Meetings, March 27, 2015.

L274) "KEEP Healthy: Insights into CKD Care" NKF Spring Clinical Meetings, March 28, 2015.

L275) "The Heart of the Matter" NKF Spring Clinical Meetings, March 28, 2015.

L276) "Literature Review: CVD" NKF Spring Clinical Meetings, March 28, 2015.

L277) "Biomarkers of Kidney and Heart Injury in Cardiorenal Syndrome" Cardionephrology 2015, Rome, Italy, April 16, 2015.

L278) "AKI after Acute Myocardial Infarction: Contrast, Organ Crosstalk and Complications" 33rd Vicenza Course on Critical Care Nephrology in Vicenza, Italy, June 9-12, 2015.

L279) "A New Mechanism of Action for Addressing Hyperkalemia: New Data on Non-Polymer Hyperkalemia Therapies" 33rd Vicenza Course on Critical Care Nephrology in Vicenza, Italy, June 9-12, 2015.

L280) "Lp-PLA2 as a marker of Vascular Inflammation and CHD Risk Assessment" Symposium: Advances in Laboratory Testing for Coronary Heart Disease; The New PLAC Test for Lp-PLA2 Activity, American Association of Clinical Chemistry Annual Meeting, Atlanta, GA, June 29, 2015.

L281) "Galectin-3 in the Prognosis and Management of Heart Failure" American Association of Clinical Chemistry Annual Meeting, Atlanta, GA, June 29, 2015.

L282) "Cardio-Renal Syndrome and Clinical Implications" AKI from Pathophysiology to Clinical Implications, Global Research on Acute Conditions Team (GREAT) Annual Meeting, Rome, Italy, September 5, 2015.

L283) "Lp-PLA2 and Testing for Primary Prevention Risk Assessment" 2015 Cardiometabolic Health Congress, Harvard Medical School, Boston, MA, October 22, 2015.

L284) "Heart and Kidney: a Dangerous Liaison" Comorbidities in Heart Failure: From Guidelines to Clinical Practice, 775 Anniversary University of Sienna, Sienna, Italy, October 29, 2015.

L285) "Role of BNP, Pro-BNP, and Elevated Left Ventricular Mass in Cardiorenal Syndrome" American Society of Nephrology Kidney Week, San Diego, CA, November 6, 2015.

L286) "How to Use Urine Thromboxane B2 to Select and Monitor Aspirin Therapy" Moderator, Scientific Sessions 2015, AHA, Orlando, FL, November 10, 2015.

L287) "Putting it All Together: How to Use Urine 11-Dehydrothromboxane B2 In Clinical Practice" Scientific Sessions 2015, AHA, Orlando, FL, November 10, 2015.

L288) "Neurogenic Orthostatic Hypotension" Moderator, Scientific Sessions 2015, AHA, Orlando, FL, November 10, 2015.

L289) "Cardiac Cachexia" Managing Disease Related Lean Body Mass Loss Through Clinical and Nutritional Interventions, The Sackler Institute for Nutrition Science The New York Academy of Sciences, New York, NY, December 4, 2015.

L290) "The Devastating Consequences of Systemic Hypertension and What To Do About It?" 42st Williamsburg Cardiovascular Conference, Williamsburg, VA, December 6-8, 2015.

L291) "The Impact and Management of Malnutrition in Patients with Heart Failure" Heart Failure University 2015, Conference Co-Chair, Los Angeles, CA, December 11-13, 2015.

L292) "Acute and Chronic Cardiovascular Effects of Hyperkalemia: New Insights Into Prevention and Clinical Management" Heart Failure University 2015, Conference Co-Chair, Los Angeles, CA, December 11-13, 2015.

L293) "Lipoic Acid in the Prevention of Acute Kidney Injury" 21st International Conference on Continuous Renal Replacement Therapies CRRT 2016, San Diego, CA, February 16-18, 2016.

L294) "Novel Approaches for Recognition and Management of Life Threatening Complications of AKI and CKD" 21st International Conference on Continuous Renal Replacement Therapies CRRT 2016, San Diego, CA, February 16-18, 2016.

L295) "Making Iodinated Contrast Less Nephrotoxic with Cyclodextrin" 21st International Conference on Continuous Renal Replacement Therapies CRRT 2016, San Diego, CA, February 16-18, 2016.

L296) "Cardiorenal Syndrome" 4th Annual Cardio-Renal Metabolic Conference, Cardiorenal Society of America, Phoenix, AZ, March 13, 2016.

L297) "Cardiorenal Syndromes Identification: Prevention and Management of CI-AKI" China Interventional Therapeutics (CIT), Beijing, Shanghai Zhong Shan Hospital, Shanghai, The 2nd Affiliated Hospital of Zhejiang University, Hangzhou, Xi Jing Hospital, Xi'an, Nanjing 1st Hospital, Nanjing, Peoples Republic of China, March 14-21, 2016.

L298) "Cardiorenal Syndromes" Keynote Address, Inaugural Cardio-Renal Connections Meeting, San Antonio, TX , April 16, 2016.

L299) "Galectin-3 in the Prognosis and Management of Heart Failure" American Association of Clinical Chemistry Annual Scientific Meeting, Philadelphia, PA, August 1, 2016.

L300) Hemodialysis University, "Is It Heart Failure or Fluid Overload?", Chicago, IL, September 10, 2016.

L301) "Novel Agents for the Treatment of Hyperkalemia" Heart Failure Society of America Annual Scientific Meeting, Orlando, FL, September 18, 2016.

L302) Symposium "Hyperkalemia in the Emergency Department: Updates on the Current Management of a Complex Condition." "Novel Agents for the Prevention and Treatment of Hyperkalemia" American College of Emergency Physicians Scientific Assembly, Las Vegas, NV, October 14, 2016

L303) Moderator "CVD in Patients with CKD: Update from the CRIC Study" Annual Scientific Sessions of the AHA, New Orleans, LA, November 13, 2016

L304) Program Chairman "A Night at the Museum: Inaugural Symposium of the Cardiorenal Society of America Transcending the Dinosaurs: Guiding AKI Prevention using next-gen biomarkers: Real World Experiences from modern practices" satellite Symposium at American Society of Nephrology Kidney Week, Field Museum, Chicago, IL, November 18, 2016

L305) "Pathobiologic Systems Involved in Cardiorenal Disease" 43rd Williamsburg Cardiovascular Conference, Williamsburg, VA, December 3-5, 2016

L306) "Cardiac Cachexia" Heart Failure University, MedReviews LLC, Los Angeles, CA, December 10, 2016

L307) "Is There a Role for Bariatric Surgery in Heart Failure Patients with Obesity?" Scientific Sessions 2017, American College of Cardiology , Washington, DC, March 18, 2017

L308) "Vascular and Cardiac Hypertrophy in Fabry Disease" 5th Annual Fabry Nephropathy Update, Mexico City, Mexico, April 26, 2017

L309) "Introduction to Cardiorenal Medicine" Cardiorenal University, Anaheim, CA, May 18, 2017

L310) "Sudden Death in End-Stage Renal Disease" Cardiorenal University, Anaheim, CA, May 18, 2017

L311) "Cardiorenal Syndromes and Heart Failure" Conference Chair, Disease Global Outcomes (KDIGO) Controversies Conference on Heart Failure in Chronic Kidney Disease, Athens, Greece, May 25-28, 2017

L312) "Vadadustat Does Not Prolong Corrected QT Interval In A Thorough QTC Study In Healthy Subjects" 54th ERA-EDTA Congress, Madrid, Spain, June 3-6, 2017

L313) "Cardiorenal Syndromes" 1st Annual Heart iN Diabetes: Where the Heart, Kidney, and Diabetes Meet in Clinical Practice, Philadelphia, PA, July 14-16, 2017

L314) "Cardiovascular Disease in Patients with Chronic Kidney Disease: A Serious Link" TOP 2017--Target Organ Protection Conference, Bangalore, India, August 11, 2017

L315) "Statin Therapy to Prevent Onset and Progression of Vascular Disease" TOP 2017--Target Organ Protection Conference, Bangalore, India, August 11, 2017

L316) "Keynote Address: Cardiorenal Society of America" 5th Annual Scientific Meeting of the Cardiorenal Society of America, Phoenix, AZ, October 6, 2017

L317) "Cardiovascular Benefits of Home Hemodialysis" Addressing Unmet Needs in Dialysis: Cardiovascular Care and Volume Control Symposium, Kidney Week 2017 American Society of Nephrology, New Orleans, LA, November 4, 2017

L318) "CIEDs in ESRD Patients: What Are the Long-Term Data?" Kidney Week 2017 American Society of Nephrology, New Orleans, LA, November 4, 2017

L319) "Cardiovascular Seminar Cardiorenal Syndrome: Who hurts who?" AHA Scientific Sessions 2017, Anaheim, CA, November 14, 2017

L320) "Cardiac and Renal Fibrosis in CRS" AHA Scientific Sessions 2017, Anaheim, CA, November 14, 2017

L321) Chair, Inaugural Cardiometabolic University and Nutrition Academy "The Skinny on Weight Loss: Practical Considerations for the Cardiovascular Specialist" MedReviews, Westlake, TX, December 1-3, 2017

L322) "Clinical Laboratory Advancements in Cardiometabolic Disease: Screening, Diagnosis, Prognosis, and Management" 44th Annual Williamsburg Conference on Heart Disease, Williamsburg, VA, December 4, 2017

L323) "The Skinny on Weight Loss: Practical Approaches for the Cardiovascular Specialist" Cardiometabolic University 2017, Conference Chair, Dallas, TX , December 1-3, 2017

L324) "Diagnosis, Evaluation, and Role of Biomarkers in Heart Failure" Heart Failure University 2017, Conference Co-Chair, Los Angeles, CA, December 10-12, 2017

L325) "Biomarkers of Kidney Dysfunction and Cardiorenal Syndrome" University of California at San Diego 14th Annual Biomarkers in Heart Failure and Acute Coronary Syndromes: Diagnosis, Treatment and Devices, San Diego, CA, March 2, 2018

L326) "What do I do to Prevent Contrast Induced Renal Injury" 23rd International Conference on Continuous Renal Replacement Therapies CRRT 2018, San Diego, CA, March 8, 2018

L327) "AKI in the patient with Cancer" 23rd International Conference on Continuous Renal Replacement Therapies CRRT 2018, San Diego, CA, March 8, 2018.

L328) "CKD-Related Anemia and Cardiac Complications" NKF Spring Clinical Meetings, Austin, TX April 14, 2018

L329) "Principles of Distributive Shock" Cardiorenal Society of America National Grand Rounds Series, Boston, MA, April 30, 2018

L330) "Biomarkers with More Muscle: Moving Beyond Serum Creatinine to Define Cardiorenal Syndrome in HF" Heart Failure Society of American Annual Scientific Sessions, Nashville, TN, September 15, 2018

L331) "Heart Failure in Cardiorenal Syndrome: Updates on Biomarkers" Cardiorenal Society of America Annual Scientific Meeting, Phoenix, AZ, October 6, 2018

L332) "Novel Approaches in Lowering LDL-C" Cardiorenal Society of America Annual Scientific Meeting, Phoenix, AZ, October 6, 2018

L333) "What Do We Know About Cardiorenal Physiology? An Overview" American Society of Nephrology Kidney Week, San Diego, CA, October 26, 2018

L334) "Prevention of Heart Failure: The Next Frontier" Cardiometabolic Health Conference, Boston, MA, October 27, 2018

L335) "AKI and Heart Failure: How to Manage Compared to the General Population" Cardiometabolic Health Conference, Boston, MA, October 27, 2018

L336) "SGLT-2 Inhibitors and Cardio-renal Outcomes: Mechanistic Role and Rationale for Treatment of Heart Failure" American Heart Association Annual Scientific Sessions, Chicago, IL, November 10, 2018

L337) "Obesity and Heart Disease" 44th Annual Williamsburg Conference on Heart Disease, Williamsburg, VA, December 4, 2018

L338) "Current Concepts in Hypertension Management" University of Texas Health Science Center, Tyler, TX, January 15, 2019

L339) "Managing the Heart Failure Patient with Worsening Renal Function (WRF)" 24th International Conference on Continuous Renal Replacement Therapies CRRT 2019, San Diego, CA, February 28, 2019

L340) "Cardiorenal Syndrome: What Have We Learned?" 24th International Conference on Continuous Renal Replacement Therapies CRRT 2019, San Diego, CA, February 28, 2019

L341) " Debate: Biomarker Guided Heart Failure Therapy: Con: Neuropeptides; ST2" 15th Annual USCD Biomarkers in Heart Failure and Acute Coronary Syndromes, Diagnosis, Treatment & Devices, La Jolla, CA March 1, 2019

L342) "Cardiorenal Syndromes" Cardionephrology Congress, Rome, March 12 to 14, 2019

L343) "Iron and Heart Failure" Cardiometabolic Health Congress West meeting in Phoenix, AZ on Saturday, May 4, 2019

L344) "Up to Date Management of Arrhythmias in Dialysis Patients" National Kidney Foundation Spring Clinical Meetings, May 11, 2019

L345) "Lipids in Chronic Kidney Disease" National Kidney Foundation Spring Clinical Meetings, May 11, 2019

L346) "Cardiorenal Syndromes" Helen Dunham Cardio-Renal Lecture and Cardiovascular Grand Rounds, Brigham and Women's Hospital, Boston, MA, May 23, 2019

L347) "Chronic Kidney Disease as a Cardiovascular Risk State" Helen Dunham Cardio-Renal Lecture and Cardiovascular Grand Rounds, Brigham and Women's Hospital, Boston, MA, May 23, 2019

L348) "Biomarkers and Assessment of Cardiac Function In Fabry Cardiomyopathy" 6th Update on Fabry Disease: Biomarkers, Progression and Treatment Opportunities, Prague, Czech Republic, May 26-28, 2019

L349) "Contrast-Induced Acute Kidney Injury" 37th Vicenza Course on AKI &CRRT, Vicenza, Italy, May, 28-30 2019

L350) "Cardiac Biomarkers in AKI" 37th Vicenza Course on AKI &CRRT, Vicenza, Italy, May, 28-30 2019

L351) "Risk Mitigation in the Cardiac Catheterization Laboratory" 37th Vicenza Course on AKI &CRRT, Vicenza, Italy, May, 28-30 2019

L352) "Pathophysiology and Current Concepts in Classification" Clinical Practice Clinical Science Track: Treatment of Cardiorenal Syndrome, American Heart Association Hypertension Scientific Sessions, New Orleans, LA, Sept 8, 2019

L353) "Cardiovascular Genetics" 44th Annual Williamsburg Conference on Heart Disease, Williamsburg, VA, December 9, 2019

L354) "Cardiorenal Syndromes" 17th World Congress on Insulin Resistance, Diabetes & Cardiovascular Disease (WCIRDC), Los Angeles, CA, December 4-7, 2019

L355) "Cardiorenal Syndromes" Internal Medicine Grand Rounds, Eastern Virginia College of Medicine, Norfolk, VA, February 19, 2020

L356) "Keynote Address: Prevention of Heart and Kidney Disease" Annual Cardio Renal Metabolic Conference, Cardiorenal Society of America, Phoenix, AZ March 6, 2020

L357) "Cardioprotective Effects of Antidiabetic Medications: Focus on Sodium-Glucose Transporter-2 Antagonists" Annual Cardio Renal Metabolic Conference, Cardiorenal Society of America, Phoenix, AZ March 7, 2020

L358) "Fabry Disease: A Unique Cardiorenal Model" Annual Cardio Renal Metabolic Conference, Cardiorenal Society of America, Phoenix, AZ March 7, 2020

L359) "Biomarkers in Heart and Kidney Disease: Practical Applications" Annual Cardio Renal Metabolic Conference, Cardiorenal Society of America, Phoenix, AZ March 7, 2020

L360) "Expert Briefing from ADA 2020 Select Sessions: Update on Heart Failure for the Diabetologist & Cardiorenal–Metabolic Axis in Diabetes" American Diabetes Association, June 14, 2020

L361) "CKD, CHD and Hyperkalaemia: Clinical Outcomes, Morbidity and Mortality" American College of Cardiology - American Society of Nephrology Masterclass September 11, 2020

L362) "RAASi Enabling in Cardiology Practice - Traditional vs New Potassium Binders; Potassium Binders for Treatment of Hyperkalaemia in HF" American College of Cardiology - American Society of Nephrology Masterclass September 11, 2020

L363) "Optimizing Transitions from Hospital to Home: Best Practices for Reducing Readmissions in Heart Failure" Hospital Management Summit, October 3, 2020.

L364) "Assessment and Management of Hyperkalemia in the Hospital Setting: Optimizing Patient Outcomes" Hospital Management Summit, October 3, 2020.

L365) "Navigating the Challenges of Cardio-Renal Syndrome" 7th Annual Kansas Cardiovascular Symposium, October 10, 2020

L366) "Management Considerations for Heart Failure in CKD" American Society of Nephrology Kidney Week 2020, October 24, 2020

L367) "Pathophysiologic Basis and Rationale for Early Ambulatory Treatment of SARS-CoV-2 (COVID-19), SciInov, November 2, 2020

L368) "CV and Renal Benefits with new anti-diabetes medications: Potential Mechanisms" CReDO Conferences Middle East North Africa (MENA) 2020, November 6, 2020

L369) "Consequences of Withholding GDMT for Heart Failure in CKD: One Step Forward, Two Steps Back" AHA 2020 November 16, 2020

L370) "Early Ambulatory Treatment for SARS-CoV-2 (COVID-19)" Early Outpatient Treatment: An Essential Part of a COVID-19 Solution. US. Senate Committee on Homeland Security and Governmental Affairs, Washington DC November 19, 2020

L371) "Pathophysiological Basis & Rationale for Early Outpatient Treatment of SARS-CoV-2 (COVID-19) Infection" 18th Annual World Congress Insulin Resistance Diabetes & Cardiovascular Disease, December 3, 2020

L372) "Early Ambulatory Therapy for COVID-19 and Update on Vaccine Safety" Heritage Foundation, Washington DC, June 23, 2021

L373) "Pathophysiological Basis and Clinical Rationale for Early Ambulatory Treatment of COVID-19" Question Everything Conference Lockdowns – Is Now the Time for a Better Solution?, London, UK, July 17, 2021

L374) "Pathophysiological Basis and Clinical Rationale for Early Ambulatory Treatment of COVID-19 and Update on Vaccine Safety" American Academy of Anti-Aging Medicine, Ann Arbor, MI, July 18, 2021

L375) "Keynote: Winning the War Against Therapeutic Nihilism and the Rush to Replace Trusted Treatments with Untested Novel Therapies" Association of American Physicians and Surgeons, AAPS 78th Annual Meeting, Sept. 30 to Oct. 2, 2021 – Pittsburgh, PA, October 2, 2021

INTERNAL COMMITTEE POSITIONS

1) Member, Henry Ford Medical Group Hypertension Control Committee, 1998.

2) Ranking Member and Presenter, HFHS Institutional Review Board, 1998-2000.

3) Member, HFHS Teaching and Education Committee, Co-Chair of the Research Subcommittee, 1999-2000

4) Member, HFHS Graduate Medical Education Committee, 1999-2000.

5) Member, HFHS, Internal Medicine Residency Selection Committee, 1998-2000.

6) Chair, HFHS, Cardiovascular Diseases Fellowship Program Selection Committee, 1999-2000.

7) Co-Chair, HFHS, Information Technology and Medical Records Committee, 1999-2000.

8) Member, HFHS Department of Internal Medicine, Research Committee, 1999-2000.

9) Member, UMKC Adult Health Sciences Institutional Review Board, 2001-2002

10) Member, UMKC, Cardiovascular Diseases Fellowship Program Selection Committee, 2000-2002

11) Member, Truman Medical Center (TMC) Information Technology Steering Committee, 2001-2002.

12) Member, WBH Diabetes Research Center Steering Committee, 2002-2003

13) Chairperson, WBH Staff Privileges Appeals Committee, March 31, 2004

14) Chairperson, WBH Search Committee for Medical Director of Transplantation Medicine, 2005-2006

15) WBH Research Institute Board of Governors, board member, 2007-2010

16) Oakland University William Beaumont School of Medicine, Medical Student Committee (founding) for development of Liaison Committee on Medical Education (LCME) application, 2007-2010

17) St. John Providence Health System Graduate Medical Education Steering Committee (Chair), 2010 to 2013

18) St. John Providence Health System Research Leaders Committee, Chair, 2010 to 2012; Co-Chair 2012 to 2013

19) Ascension Michigan Research Affinity Group, Chair, 2010 to 2012; Co-Chair 2012 to 2013

20) St. John Providence Health System Executive Committee, 2011 to 2013

21) St. John Providence Health System Guidelines Committee, 2012 to 2013

22) St. John Providence Health System Presidents Council, 2012 to 2013

23) St. John Providence Health System Electronic Medical Record Meaningful Use Steering Committee, 2013

24) BUMC Graduate Medical Education Committee, 2014 to present

25) BUMC Internal Medicine Residency Program Clinical Competency Committee, 2014 to 2021

26) BUMC Clinical Cardiology Fellowship Program Clinical Competency Committee, 2014 to 2021

27) BUMC Founding Member, Department of Molecular Pathology and Medicine, 2016 to 2021

28) BUMC Precision Medicine Executive Committee, 2016 to 2021

29) BUMC COVID-19 Therapeutic Task Force 2020

EXTERNAL COMMITTEE POSITIONS

1) Member, AHA National Women's Heart Disease and Stroke Campaign, Healthcare Provider Sub-Group, Dallas, TX, 1998-1999

2) Member, AHA, Chronic Coronary Disease in the Elderly National Database Planning Committee, Dallas, TX, 1998-2000

3) Chair, Michigan Chapter of the American College of Cardiology, Annual Mini-Board Review, 1999-2000

4) Member, Michigan Chapter of the American College of Cardiology, Annual Meeting Planning Committee, 1999-2000

5) Member, National Kidney Disease Outcomes Quality Initiative (K/DOQI) Clinical Practice Guidelines Committee on Chronic Kidney Disease, Andrew S. Levey, MD, Chair, 2001-2002

6) Member, K/DOQI Learning System (KLS)™ Advisory Board, NKF, New York, NY, 2003 to 2010

7) Member, International EECP Patient Registry Working Group, 2003-2008.

8) Counselor at large, Michigan Chapter of the American College of Cardiology, 2004-2006

9) Member, Planning Committee, AHA, Prevention VIII Conference: Kidney Disease, Hypertension, and Cardiovascular Disease, January 26-28, 2006, Orlando, FL

10) Chair, Contrast-Induced Nephropathy (CIN) Working Group Consensus Panel, (international, multispecialty, consensus panel with published findings) 2004-2006. Published in *Am J Cardiol* 2006 Vol 98(6)

11) Workgroup Member, Kidney Disease Improving Global Outcomes (KDIGO), United States Representative, Amsterdam, Netherlands, 2004, 2006

12) Member, Kidney Disease Improving Global Outcomes (KDIGO) Group for the development of Clinical Practice Guidelines for the Diagnosis, Evaluation, Prevention, and Treatment of Chronic Kidney Disease Related Mineral and Bone Disorders (CKD-MBD), Paris, France, 2007-2008

13) Board of Directors Member, Kidney Disease Improving Global Outcomes (KDIGO), United States Representative, Brussels, Belgium, 2007-2010

14) Workgroup Member, The Sixth International Acute Dialysis Quality Initiative (ADQI) Consensus Conference VI: Acute Kidney Injury in Cardiac Surgery, Vicenza, Italy May 27 – 28, 2007

15) Workgroup Leader, Prevention: The Seventh International Acute Dialysis Quality Initiative (ADQI) Consensus Conference VII: Cardiorenal Syndrome, Venice, Italy, September 4-5, 2008, with publication n *Nephrology, Dialysis, and Transplantation*, 2010.

16) Chairman, Natriuretic Peptide Testing in Acute Coronary Syndromes Consensus Panel, with published findings in *Reviews in Cardiovascular Medicine* 2010, Dallas, TX, March 2, 2010

17) Scientific Advisory Board, NKF, New York, NY, 2010 to present

18) Scientific Advisory Board, Cardiorenal Society of America, Phoenix, AZ, 2012 to present

19) Workgroup Member, "Cardiovascular Disease in CKD: What is it and what can we do about it?" Kidney Disease Improving Global Outcomes (KDIGO), October 29-31, 2010, London, England.

20) Chairman, "Cardio-Renal Syndromes II: from pathophysiology to therapy" Eleventh Consensus Conference Cardio-Renal Syndromes II November 30 – December 2, 2012, Venice, Italy.

21) Conference Co-Chair: "Kidney Disease Global Outcomes (KDIGO) Controversies Conference on Heart Failure in Chronic Kidney Disease", Athens, Greece, May 25-28, 2017

22) Chairman, "Cardiometabolic University", Dallas, TX, December 3-4, 2017

23) Chair, American Heart Association Council on the Kidney in Cardiovascular Disease and Council on Clinical Cardiology. Cardiorenal Syndrome: Classification, Pathophysiology, Diagnosis, and Treatment Strategies: A Scientific Statement From the American Heart Association, 2019

24) Committee Member, American College of Cardiology, Navigating Treatment Decisions for Patients with ASCVD and Multiple Comorbidities Committee, 2019-2020

25) Chief Medical Advisor, Truth for Health Foundation, Tucson AZ, 2021 to present

26) Advisory Board Member, TrialSite News, 2021 to present

27) National and International Advisor/Reviewer/Presenter/Contributor for 4D Molecular Therapies, ABC News, Abbott Laboratories, AbbVie, Advanced Health Media, Aegerion, Affymax, Akceia, Akebia, Alere North America, AMAG, Amersham, Amgen, Amylin, AntiSeptiscope, Aralez, Ardian, Adelyx, Arra Hitech, Astellas, AstraZeneca, Astute Medical, Atherotech, Axio, BG Medicine, Avenue Therapeutics, Aventyn, Back Bay Lifescience Advisors, Bayer, Biocritique, Bioexpertise, Biomarin, Bionest Partners, Bioporto, Biosite, Biostar, BioZ, Boehringer Ingelheim, Braintree Laboratories, Broeker, Bristol Myer Squibb, Cardiokine, Cardiorentis, Chapman and Priest, Charles River Associates, Chelsea Therapeutics, Chiesi USA, ClearView Healthcare Partners, Clinipace, Complexa, Connected Research and Consulting, CorMedix, Cornerstone Therapeutics, Corvidia, Covance, Critical Diagnostics, Cromsource, Crossover Technologies, Chrysalis BioTherapeutics, Cytopheryx, Cytel, DaVita, Daws, DeMatteo Monness, Diadexus, Daiichi Sankyo, Decision Resources, ECG Healthcare, Edwards Life Sciences, Elsevier, Espirion, F. Hoffmann-La Roche Ltd, Fast Biomedical, Fish and Richardson, LLC, Fisher Scientific, FlowMedica Inc, Frictionless Digital, Fresenius Medical Care, General Electric, Genzyme, Gerson Lehrman, Gilead, GVI Clinical Development Solutions, Health Law Partners, Healthspan DX, HealthSTAR Communications, Hershey, Hikari, Hogan Lovells, Hudson Global, ICON, Huff, Powell, and Bailey, LLC, IMC Press, Imidex, Impact Education, Instrumentation Laboratories, Intercept Pharmaceuticals, Intrinsic Life Sciences, Ischemix Technologies, Janssen, Jannsen, Johnson and Johnson, Jordan, KAI Research, Keryx, Ketchum, Inc, Knowledge Point 360, Kowa, Eli Lilly, LabCorp, Lewis Brisbois, Liberty Dialysis, Ligand, Lipocine, Litchfield Cavo, Luitpold Pharmaceuticals, Lundbeck, Maxaccess Managed Markets, MannKind, MEDACorp, MedEd Group, Medevera, Medical Exchange International, Medical Package, Medicines Company, Medicure Pharma, Inc., MedReviews, Medscape, Medtronic, Merck, Meridian 361 International Law Group, Meso Scale Diagnostics, Miller Tanner Associates, Mitsubishi, Nanomix, Nanosphere, Nabi Biopharmaceuticals, Navigant, NephroGenix, Neumedicines, Noorik GmbH, Norman, Hanson, and Detroy, LLC, Novartis, NovoNordisk, NxStage, Ortho Clinical Diagnostics, Osprey, Otsuka, Overcome, P-value Communications, Parexel, Pharmapprove, Pfizer, Phoenix Holdings, Physicians World, PLC Medical, Praetego, PriMed, Progenabiome, Quidel Corporation, Qualidigm, Quintiles, Reata, Reliant Pharmaceuticals, Renew Research, Relypsa, Repros Therapeutics, Roche Diagnostics, Rock Creek, Saferox, Saghmos Therapeutics, Salix, Sanfit, Sankyo, Sanofi, Sarepta Therapeutics, Scarritt Group, Sentinel Investment, Sloan Law Firm, Sphingotec, Spectracell, St. Jude Medical, Strataca Systems, Statprobe, Sunshine Heart, Synageva, Takeda, Tasly, TheHill, Thrasos, TrialSiteNews, Trinity, Triptych Health Partners, US Medical Management, Vasomedical, Verrow, Vindico, Visiting Physicians Association, Vitalmetrix, Vivus, Watermark, WebMD, ZS Pharma, Inc.

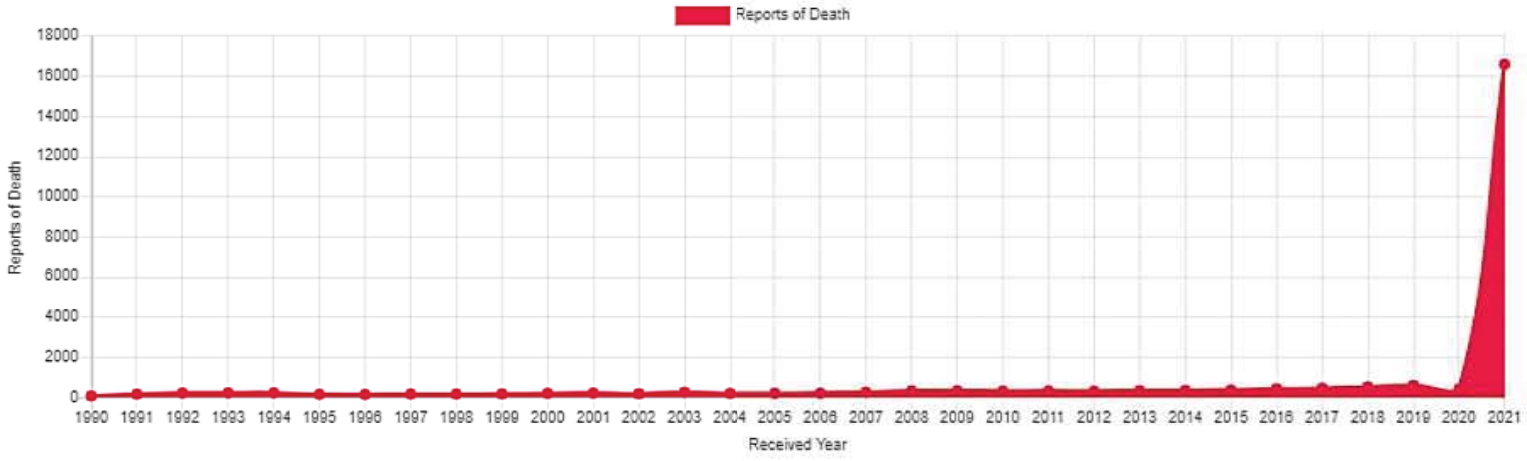
778,683 Reports
Through October 01, 2021

EXHIBIT 2

16,310 DEATHS	**75,605** HOSPITALIZATIONS	**87,814** URGENT CARE
121,305 DOCTOR OFFICE VISITS	**7,141** ANAPHYLAXIS	**9,446** BELL'S PALSY

2,415 Miscarriages	**7,868** Heart Attacks	**6,812** Myocarditis/Pericarditis	**20,789** Permanently Disabled
3,620 Thrombocytopenia/ Low Platelet	**17,619** Life Threatening	**28,168** Severe Allergic Reaction	**8,153** Shingles

All Deaths Reported to VAERS by Year



VAERS COVID Vaccine Reports of Deaths by Days to Onset-All Ages