

Carlos E. Velasco, M.D., FACC, FACP

Curriculum Vitae

Present position-

Medical Director of Cardiology Quality Assurance and Peer Review, Baylor Heart and Vascular Hospital and Baylor University Medical Center,
Vice Chair, Internal Review Board of Human Research Studies, Baylor Health Care System,
Core Faculty, Baylor University Medical Center,
Clinical Professor of Medicine, Texas A&M College of Medicine
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Date of birth: September 3, 1955

Education.-

Elementary and High School Education: Cristobal Colon School. Guayaquil, Ecuador.
January 9, 1973

Medical school: Universidad de Guayaquil School of Medicine. Guayaquil, Ecuador.
1973-1979.

Date of graduation: February 9, 1979.

Doctoral Thesis: Exercise-induced arrhythmia ("Universidad de Guayaquil Award" for the best doctoral thesis prior to receiving the Doctor of Medicine and Surgery degree).

Examinations-

ECFMG: October 3, 1981.

Visa Qualifying Examination (VQE): September 8-9, 1992.

FLEX: June, 1987.

Postgraduate training in Ecuador.-

Resident in Medicine at the "Hospital General de Latacunga." Latacunga, Ecuador.
March 1, 1979 - February 28, 1980.

Medicine Resident at the “Instituto Nacional de Cardiologia.” Guayaquil, Ecuador.
March 1, 1980 - February 28, 1982. Director: Alfredo Palacio, M.D.
Chief Medical Resident at the “Instituto Nacional de Cardiologia.” Guayaquil, Ecuador.
March 1, 1982 - February 28, 1983. Director: Alfredo Palacio, M.D.

Postgraduate training in the United States of America.-

Clinical Cardiology fellow at Baylor College of Medicine, Houston, TX. July 1, 1983 - June 30, 1985. Director: Robert Roberts, M.D.
Internal Medicine resident at Baylor College of Medicine, Houston, TX. July 1985 - June 30, 1988. Director: Anthony Gotto, M.D.
Clinical Cardiology fellow at Vanderbilt University, Nashville, TN. July 1, 1988 - June 30, 1990. Director: Gottlieb Friesenger, M.D.
Interventional Cardiology fellow at Vanderbilt University, Nashville, TN. July 1, 1990 - June 30, 1991. Director: Rose Marie Robertson, M.D.

Board certification.-

Diplomate in Internal Medicine, American Board of Internal Medicine, September 15, 1988.
Diplomate in Cardiovascular diseases, American Board of Internal Medicine, November 6, 1991. Recertification: November, 2001. Second recertification: November 13, 2012.
Diplomate in Interventional Cardiology, American Board of Internal Medicine, November 3, 1999. Recertification: October 20, 2009. Second recertification: October, 2019.

Medical license.-

Texas: active. J3254
Previous medical licenses: Tennessee, Colorado, Kentucky.
UPIN: G03370. NPI: 1013955319

Previous professional positions.-

Assistant Professor of Medicine, The University of Texas Southwestern Medical School at Dallas. September 1, 1991 - July 30, 1995.
Director, Coronary Care Unit, and Associate director, cardiac catheterization laboratory, Dallas Veterans Affairs Medical Center. Dallas, TX. September 1, 1991 - July 30, 1995.
Director, Experimental ischemia laboratory. Dallas Veterans Affairs Medical Center. September 1, 1991-July 30, 1995.
Interventional Cardiologist. Cardiac catheterization laboratory, Dallas Veterans Affairs Medical Center. Dallas, TX. October 2002- September 2004.
Interventional Cardiologist. Cardiac catheterization laboratory, Dallas Veterans Affairs Medical Center. Dallas, TX. October 2006-August 2008.

Awards and honors.-

Recognition in the fourth, fifth, and sixth years of medical school. Universidad de Guayaquil. 1979.
Recipient of the “Universidad de Guayaquil Award” for the best doctoral thesis prior to receiving the Doctor of Medicine and Surgery degree.
Physicians Recognition Award of the American Medical Association.
ACC/Bristol Laboratories Affiliate Travel Award for 1991.

Lyndon Baines Johnson Research Award of the American Heart Association, Texas Affiliate, 1994.

Honor Guest of the city of Las Delicias, Estado de Cihuahua, Mexico. 5/13/2005.

Honor Guest of the city of Guayaquil, Ecuador. August 3, 2007.

Consultant Cardiologist, Cardiology Division, Luis Vernaza Hospital. Guayaquil, Ecuador. February 12, 2009-present.

Recognition Award for "Permanent Contribution" to the Luis Vernaza Hospital (not-for-profit Hospital). Guayaquil, Ecuador. October 16, 2009.

Honor Guest of the city of Guayaquil, Ecuador. October 21, 2011.

Honorary member, Sociedad Ecuatoriana de Aterosclerosis y Endotelio. August 17, 2013.

Ad Honorem Attending Physician, Luis Vernaza Hospital, Guayaquil, Ecuador. July 21, 2016-present.

Best Doctors in America. 2011-2012-2013-2014-2015-2016-2017-2018.

Honor Guest of the city of Guayaquil, Ecuador. July 19, 2017.

Recognition of the Sociedad Ecuatoriana de Cardiología for "your trajectory, academic commitment, and support of the growth of the Cardiology of Ecuador." 55 Jornadas Internacionales de Cardiología. Sociedad Ecuatoriana de Cardiología and Universidad de Especialidades Espiritu Santo. Guayaquil, Ecuador. 11/23/2019.

Teaching experience.-

Ad honorem instructor of Physical Examination, Universidad de Guayaquil, 1979.

Assistant Professor of Medicine, The University of Texas Southwestern Medical Center at Dallas. September 1, 1991 - July 30, 1995.

Advanced Cardiac Life Support Affiliate Faculty of the American Heart Association. February 1, 1995 - 2002.

Attending physician, Baylor University Medical Center, Dallas, TX. October 30, 1995 - present.

Attending physician, Baylor Heart and Vascular Hospital, Dallas, Texas, USA. March 2002-present.

Attending physician, Luis Vernaza Hospital, Guayaquil, Ecuador. January 2009-present.

Clinical Professor of Medicine, Texas A&M Health Science Center College of Medicine. May 8, 2013-present.

Internal Medicine and Cardiology Core Faculty, Baylor University Medical Center. Dallas, Texas. November 1, 2014-present.

Cardiovascular Disease Fellowship Core Faculty. Baylor Heart and Vascular Hospital. Dallas, Texas.

Chair, Clinical Competency Committee, Cardiology Fellowship Program, Baylor University Medical Center and Baylor Heart and Vascular Hospital. Dallas, Texas. May 1, 2018-present.

Education - Journals.-

Assistant Editor, The American Journal of Cardiology. 7/1996-2/2010.

Associate Editor, Revista Costarricense de Cardiología. 6/2001-2010.

Scientific reviewer for Circulation, American Journal of Cardiology, Journal of Intensive Care, Chest, The American Journal of Physiology (Heart and Circulatory Physiology), Journal of Neuroendocrinology, Baylor University Medical Center Proceedings, Reviews in Cardiovascular Medicine, British Medical Journal, Clinical

Medical Reviews and Case Reports, Journal of Clinical Medicine, International Journal of Molecular Sciences, Biomolecules Journal, Journal of Cardiology and Cardiovascular Medicine, Medicina, Clinical Cardiology, International Journal of Environmental Research and Public Health, Signa Vitae.

Contributor: Cardiology Board Certification Review Guide. Interventional Cardiology. Published by the American College of Cardiology. 8/1999.

Clinical Relevance reviewer for the American Board of Internal Medicine, Interventional Cardiology Board examination. 9/2006-present.

Member of the editorial panel: EC Pulmonology and Respiratory Medicine Journal. 3/2017 – present.

Member of the Editorial Board of the Baylor University Medical Center Proceedings. June 1, 2018-present.

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Member of the CardioSurve research panel. American College of Cardiology. 11/2019-present.

Hospital affiliations.-

Clinical (admission, consultation and procedures) privileges at Baylor University Medical Center, Baylor Heart and Vascular Hospital, Baylor Institute of Rehabilitation, Baylor Specialty Hospital, and the Dallas Veterans Administration Medical Center.

Professional organizations.-

Fellow, American College of Cardiology.

Fellow, American College of Physicians.

Member, Society for Cardiac Angiography and Interventions.

Member, American Heart Association.

Member, Dallas County Medical Society.

Member, Texas Medical Association.

Member, Ecuadorean Scientific Community.

Member, Benemerita Sociedad Medicoquirurgica del Guayas, Ecuador.

Honorary member, Sociedad Ecuatoriana de Aterosclerosis y Endotelio. August, 2013.

Institutional activities.-

Chairman, CCU/MICU committee, Dallas Veterans Administration Medical Center. 1991-1995.

Director, Advanced Cardiac Life Support program, Dallas Veterans Administration Medical Center. 1992-1995.

Member, U.T. Southwestern Emergency Medical Services Admission-Readmission committee. 1992-2006.

Chairman, CCU-ICU Quality Improvement Committee, Dallas Veterans Administration Medical Center. 1993-1995.

Member, Animal Studies Subcommittee, Dallas Veterans Administration Medical Center. 1993-1995.

Member, Internal Review Board of Human Research Studies. Baylor University Medical Center, 8/1998-present.

Member, Cardiology Quality Assurance Committee. Baylor University Medical Center, Dallas, Texas. 7/1997-8/1999.

Chairman, Cardiology Quality Assurance Committee. Baylor University Medical Center and Baylor Heart and Vascular Hospital, 9/1998-present.

Member, Pain Management Committee. Baylor University Medical Center, 4/2000-8/2008.

Director, Advanced Cardiac Life Support program, Baylor Heart and Vascular Hospital. 2002-2008.

Vice Chair, Internal Review Board of Human Research Studies, Baylor University Medical center, Baylor Heart and Vascular Hospital, and Baylor Health Care System. Dallas, Texas. April 1, 2013-present.

Member, Cardiothoracic Surgery Phase of Care Mortality Analysis Committee (POCMA.) Baylor University Medical Center. Dallas, Texas. March 2014-present.

Coordinator, Mortality and Morbidity Cardiology Conference. Baylor University Medical Center and Baylor Heart and Vascular Hospital. Dallas, Texas. 2016-present.

Member, Professional Standards Executive Committee (PSEC), Baylor University Medical Center and Baylor Heart and Vascular Hospital. Dallas, Texas. 2022-present.

Research grants awarded-

American Heart Association Texas Affiliate, Grants-in-Aid. 1992-1994.

American Heart Association Texas Affiliate, Grants-in-Aid. 1994-1996.

Publications-

1. Palacio A, **Velasco CE**, Fernandez A, Intriago R, Santos E, Peña E, Brown A. Echocardiographic diagnosis of bacterial endocarditis. *Revista de Higiene y Medicina Tropical* 1977; 30: 397-301.
2. Palacio A, Fernandez A, Santos E, Peña E, Brown A, **Velasco CE**. Exercise stress testing in ischemic heart disease. *Tribuna Médica* 1978; 3:29-35
3. Palacio A, **Velasco CE**, Intriago R, Fernandez A, Santos E, Peña E. Arrhythmias and exercise stress testing. *Revista Argentina de Cardiología* 1979; 47:461-7.
4. Palacio A, Fernandez A, Nuñez C, **Velasco CE**, Peña E, Brown A. Rupture of chordae tendineae: echocardiographic diagnosis. *Anales de Medicina y Cirugía* 1979; 2:304-8.
5. Palacio A, Fernandez A, **Velasco CE**, Intriago R, Peña E, Santos E. Corrected transposition of the great vessels: electrocardiographic diagnosis. *Anales de Medicina y Cirugía* 1979; 2:279-282.
6. Palacio A, Fernandez A, Santos E, Peña E, Velasco CE. Fibrilacion auricular Paroxystica: Cardioversion con Marcapaso Intraesofagico. *Tribuna Medica* 1979;2:25-27.
7. **Velasco CE**, Peña E. Echocardiographic diagnosis of intracardiac masses. *Boletin Ecuatoriano de Cardiología*. 1981; 1:1-4.

8. Palacio A, **Velasco CE**, Santos E, Peña E. Echocardiographic diagnosis of ruptured sinus of Valsalva. *Ultrasonidos* 1982; 1:43-6.
9. **Velasco CE**, Palacio A. New concepts in Wolf-Parkinson-White syndrome. *Boletin Ecuatoriano de Cardiologia* 1982; 2:14-17.
10. **Velasco CE**, Peña E, Santos E, Palacio A. Echocardiographic findings in patients with chronic renal failure. *Boletin Ecuatoriano de Cardiologia* 1983; 3:34-8.
11. Bechman K, **Velasco CE**, Krafchek, J, Lin H, Magro S, Wyndham CRC. Significant variability in the mode of ventricular tachycardia induction and its implications for the interpretation of acute drug testing. *Am Heart J* 1988; 2:5-9.
12. **Velasco CE**, Byrd B. Diagnostic methods in right ventricular infarction. *Journal of Cardiovascular Imaging* 1989; 2:5-9.
13. Shawl F, **Velasco CE**, Goldbaum P, Forman M. Effects of coronary angioplasty on electrocardiographic changes and outcome in patients with unstable angina secondary to left anterior descending disease. *J Am Coll Cardiol* 1990;16:325-31.
14. **Velasco CE**, Forman M. Role of adenosine in the treatment of myocardial stunning. *Journal of Cardiovascular Drugs and Therapy*, 1991; 5:901-908.
15. **Velasco CE**, Turner M, Cobb MA, Virmani R, Forman MB. Myocardial reperfusion injury in the canine model after 40 minutes of ischemia: after intracoronary adenosine. *Am Heart J*, 1991; 111:1561-1570.
16. **Velasco CE**, Kerins D, Howe D, Tanaka S, Fitzgerald D, Forman MB. Effects of intravenous adenosine on tissue-type plasminogen activator pharmacokinetics in humans. *Coronary Artery Disease* 1991; 2: 1069-1075.
17. **Velasco CE**. Cardiovascular significance of Endothelium-Derived Vasoactive Factors. *Critical Care Medicine* 1992; 20:154-155 (Book Review).
18. Forman MB, **Velasco CE**, Vitola JV, Jackson EK. Salvage of ischemic myocardium following reperfusion with adenosine. *Coronary Artery Disease* 1992; 3:1135-1144.
19. Forman MB, **Velasco CE**, Jackson E. Adenosine attenuates reperfusion injury following regional myocardial ischemia. *Cardiovasc Res* 1993; 27:9-17.
20. **Velasco CE**, Jackson E, Morrow J, Vitola JV, Inagami T, Forman MB. Intravenous adenosine suppresses cardiac release of endothelin after myocardial ischemia and reperfusion. *Cardiovasc Res* 1993; 27: 121-128.

21. **Velasco CE**, Turner M, Inagami T, Atkinson B, Virmani R, Jackson E, Murray J, Forman MB. Reperfusion enhances the local release of endothelin after regional myocardial ischemia. *Am Heart J* 1994; 128:441-51.
22. Grayburn P, Erikson J, Escobar J, Womack L, **Velasco CE**. Peripheral Intravenous Myocardial Contrast Echocardiography Using a 2% Dodecafluoropentane Emulsion: Hemodynamics, Regional Myocardial Blood Flow, and Identification of Myocardial Risk Area and Infarct Size in the Canine Model of ischemia. *J Am Coll of Cardiol* 1995; 26: 1340-7.
23. deFilippi C, Willett D, Irani W, Eichhorn E, **Velasco CE**, Grayburn P. Comparison of Myocardial Contrast Echocardiography and Low-Dose Dobutamine Stress Echocardiography in Predicting Recovery of Left Ventricular Function After Coronary Revascularization in Chronic Ischemic Heart Disease. *Circulation* 1995; 92: 2863-68.
24. Erikson J, **Velasco CE**. Endothelin-1 and ischemic preconditioning. *American Heart Journal* 1996; 132: 84-90. [http://dx.doi.org/10.1016/S0002-8703\(96\)90394-4](http://dx.doi.org/10.1016/S0002-8703(96)90394-4)
25. **Velasco CE**. Contributor. In Popma JJ, Garratt K, Kuntz RE, Prpic R, eds. *ACC Cardiology Board Certification Review Guide for Interventional Cardiology*. Bethesda, Md: American College of Cardiology, 1999.
26. Forman MB, Vitola JV, **Velasco CE**, Murray JJ, Dubey RK, Jackson EK. Sustained Reduction in Myocardial Reperfusion Injury with an Adenosine Receptor Antagonist: Possible Role of the Neutrophil Chemoattractant Response. *J Pharmacol Exp Ther* 2000; 292: 929- 938.
27. Roberts WC, **Velasco CE**, Ko JM, Matter GJ. Comparison of the quantity of calcific deposits in bovine pericardial bioprostheses in the Mitral and Aortic valve positions in the same patient late after double valve replacement. *J Thoracic and Cardiovascular Surgery*, 2009; 138: 1448-1450.
28. **Velasco CE**, Patel M, Mogollon J, Groden J, Stoler R. Acute myocardial infarction related to trauma. *Rev Cardiovasc Med*. 2015;16(4):261-264 doi: 10.3909/ricm0795
29. **Velasco CE**, Howard, C. Trouble on Both Sides; pulmonary embolism with pneumothorax. *Am J Med* 2017; 130:530-533. DOI: <http://dx.doi.org/10.1016/j.amjmed.2017.01.009>
30. Vasudevan A, Bottiglieri T , Tecson KM , Sathyamoorthy M, Schussler JM, **Velasco CE**, Lopez LR, Swift C, Peterson M , Bennett-Firmin J, Schiffmann R, McCullough PA. Residual Thromboxane activity and Oxidative Stress - Influence on Mortality in Patients with Stable Coronary Artery Disease, *Coronary Artery Disease* 2017; 28 (4), 287-293.

31. McCullough PA, Vasudevan A, Sathyamoorthy M, Schussler JM, **Velasco CE**, Lopez LR, Swift C, Peterson M, Bennett-Firmin J, Schiffmann R, Bottiglieri T. Urinary 11-Dehydro-Thromboxane B2 and Mortality in Patients with Stable Coronary Artery Disease. *Am J Cardiol* 2017, 119:972-977.
32. Howard C, **Velasco CE**, Roullard CP, Rafael A. Aorto-Right Atrial Fistula After Bentall Repair. *Proc Baylor Univ Med Cent* 2017; 30(3):301-302.
33. Vasudevan A, Schussler J, Won J, Ashcraft P, Bolanos I, Williams M, BS⁵, Bottiglieri T, **Velasco CE**, McCullough PA, Urinary Metabolites in Patients Undergoing Coronary Catheterization via the Radial versus Femoral Artery Approach. *Proc Baylor Univ Med Cent* 2017;30(4):404-409.
34. Vasudevan, A, Tecson KM, Bennett-Firmin J, Bottiglieri T, Lopez LR, Peterson M, Sathyamoorthy M, Schiffmann R, Schussler JM, Swift C, **Velasco CE**, McCullough PA. Prognostic value of Urinary 11-Dehydro-Thromboxane B2 for Mortality: a Cohort Study of Stable Coronary Artery Disease Patients Treated with Aspirin. *Catheter Cardiovas Interv* 2017 doi. 10.1002/ccd.27437
35. Tecson KM, Brown D, Choi JP, Feghali G, Gonzalez-Stawinski GV, Hamman BL, Hebler R, Lander S, Lima B, Potluri S, Schussler JM, Stoler R, **Velasco C**, McCullough PA. Major adverse Renal and Cardiac Events Following Coronary Angiography and Cardiac Surgery. *Ann Thorac Surg*. 2018;105:1724-39. Feb 2. pii:S0003-4975(18)30071-7. doi: 10.1016/j.athoracsur.2018.01.010. [Epub ahead of print] PubMed PMID: 29408241
36. **Velasco CE**, Hashemi H, Roullard CP, Machannaford J, Roberts WC. Asymptomatic Ascending Aorta Aneurysm with Severe Aortic Regurgitation Caused by Multiple Intimal-Medial Tears Unassociated with Aortic Dissection. *Am J Cardiol* 2018;121:668-669. DOI: <http://dx.doi.org/10.1016/j.amjcard.2017.12.001>
37. Mills B, Dishner E, **Velasco CE**. Acute Myocardial Infarction Triggered by Use of Synthetic Cannabis. *Proc Baylor Univ Med Cent* 2018;31:200-202. doi = {10.1080/08998280.2017.1416243}
38. Vasudevan A, Choi J, Feghali G, Lander S, Schussler JM, Stoler R, Vallabhan R, **Velasco CE**, McCullough PA. Event Dependence in the Analysis of Cardiovascular Readmissions Post Percutaneous Coronary Intervention. *Journal of Investigative Medicine* 2019;67:
39. Vasudevan A, Choi JW, Feghali GA, Kluger AY, Lander SR, Tecson K, Sathyamoorthy M, Schussler JM, Stoler RC, Vallabhan RC, **Velasco CE**, Yoon A, McCullough PA. First and Recurrent Events after Percutaneous Coronary Interventions: Implications for Survival Analysis. *Scandinavian Cardiovascular Journal*, 2019, DOI: [10.1080/14017431.2019.1645349](https://doi.org/10.1080/14017431.2019.1645349)
40. **Velasco CE**, Suarez N, Roullard CP, McCollough P, Roberts WC. (2020) Usefulness of coronary angiography in patients with left atrial myxoma, *Baylor*

University Medical Center Proceedings, 2020;33(4):529-531 DOI:
[10.1080/08998280.2020.1776024](https://doi.org/10.1080/08998280.2020.1776024)

41. Farzad A, Garrett J, **Velasco CE**. Spontaneous coronary artery dissection and acute myocardial infarction in women. Baylor University Medical Center Proceedings 2022;35(6):824-827.
42. Tecson KM, Wheelan KR, Brown D, Choi JW, Feghali G, Hamman BL, Hebel R, Lander SR, Meyer DM, Potluri S, Roberts C, Schussler JM, Stoler RC, **Velasco CE**, McCullough PA. A Preoperative Stay Lasting Three or More Days Increases the Risk of Major Adverse Renal and Cardiac Events. Submitted for publication.
43. **Velasco CE**, Berbarie R, Howard C, Roullard CP, McCullough PA, Jackson E. Endothelin in Acute Coronary Syndromes. Submitted for publication.
44. **Velasco CE**, Hashemi H. Left main stenosis after aortic dissection repair. Submitted for publication.
45. Tecson KM, Brown D, Choi JP, Dehmer GJ, Feghali G, Gonzalez-Stawinski GV, Hamman BL, Hebel R, Lander S, Lima B, Mack M, Potluri S, Schussler JM, Stoler R, **Velasco C**, McCullough PA. Coronary Angiography, Acute Kidney Injury, and the Timing of Cardiac Surgery: Major Adverse Cardio-Renal Events at 30 Days and One-Year. Submitted for publication.

Book Chapters-

1. **Velasco CE**. Two-dimensional echocardiography in ischemic heart disease. In: Palacio A, ed. Atlas of Two-Dimensional Echocardiography. First edition, New York: Yorke Medical Books, 1983: 143-156.
2. **Velasco CE**. Diagnosis of coronary artery disease with exercise in electrocardiography. In: Palacio A, ed. "Cardiopatía Isquémica." First edition, Guayaqui
3. I, Ecuador, 1986.
4. Forman MB, **Velasco CE**. Adenosine and myocardial stunning. In: Oppie L, ed. "Stunning, Hybernation, and Calcium." First edition, London, 1992

Abstracts-

1. **Velasco CE**, Fernandez A, Santos E, Peña E, Palacio A. Arrhythmias induced by exercise. XX Congreso Nacional y V Congreso Internacional de Medicina, Cirugía y Neumología. PAMA. October 24, 1979. Guayaquil, Ecuador.

2. Santos E, **Velasco CE**, Peña E, Palacio A. Systolic time intervals in hyperthyroidism. XX Congreso Nacional y V Congreso internacional de Medicina, Cirugia y Neumologia. PAMA. October 25, 1979. Guayaquil, Ecuador.
3. Peña E, **Velasco CE**, Santos E, Nunez C, Fuentes E, Palacio A. Biatrial Myxoma: echocardiographic diagnosis. XX Congreso Nacional y V Congreso Internacional de Medicina, Cirugia y Neumologia. PAMA. October 26, 1979. Guayaquil, Ecuador.
4. **Velasco CE**, Palacio A. Noninvasive techniques in the diagnosis and evaluation of cardiac patients. Primer Congreso de hospitales de la Junta de Beneficencia de Guayaquil y Cuartas Jornadas Nacionales de Endocrinologia. November 29, 1979. Guayaquil, Ecuador.
5. Palacio A, **Velasco CE**, Santos E, Peña E. Echocardiographic diagnosis of ruptured sinus of Valsalva. Primer Congreso de Hospitales de la Junta de Beneficencia de Guayaquil y Cuartas Jornadas Nacionales de Endocrinologia. November 29, 1979. Guayaquil, Ecuador.
6. Palacio A, **Velasco CE**, Santos E, Peña E. Calcule of mitral valve area in mitral stenosis with noninvasive procedures. XI Interamerican Congress of Cardiology, September 12, 1980, San Juan, Puerto Rico.
7. **Velasco CE**, Santos E, Peña E, Palacio A. Noninvasive assessment of Pulmonary Hypertension in mitral stenosis. XI Interamerican Congress of Cardiology, September 12, 1980, San Juan, Puerto Rico.
8. Palacio A, **Velasco CE**, Peña E, Santos E. Contrast echocardiography in the diagnosis of congenital heart disease with left-to-right shunt. XI Interamerican Congress of Cardiology, September 13, 1980, San Juan, Puerto Rico.
9. **Velasco CE**, Santos E, Peña E, Palacio A. Submaximal stress testing soon after myocardial infarction. IV Congreso Nacional y VII Jornadas Internacionales de Cardiologia. November 27, 1981. Quito, Ecuador.
10. **Velasco CE**, Peña E, Santos E, Palacio A. Echocardiographic diagnosis of intracavitary and epicardial tumors. IV Congreso Nacional y VII Jornadas Internacionales de Cardiologia. November 27, 1981. Quito, Ecuador.
11. Wyndham CRC, Krafchek J, Lin H, **Velasco CE**, Magro S. Improved prediction of outcome by serial Electrophysiologic tests on Amiodarone. *Circulation* 1985; 72:III-273.
12. **Velasco CE**, Beckman K, Krafckek J, Lin H, Magro S, Wyndham CRC. Significant variability in the induction of ventricular tachycardia. *J Am Coll Cardiol* 1986; 7:129A.

13. **Velasco CE**, Turner M, Pytaris C, Crawford J, Virmani R, Forman M. Limitation of reperfusion injury after 40 minutes of regional ischemia in the closed chest canine model with intracoronary adenosine. *J Am Coll Cardiol* 1990; 15:88A.
14. **Velasco CE**, Babbitt D, Virmani R, Vildibill H, Turner M, Forman M. Differential time course of ischemic and reperfusion injury in the closed chest canine model. *Circulation* 1990; 82:III-287.
15. **Velasco CE**, Kerins D, Howe D, Fitzgerald D, Forman M. The effect of intravenous adenosine on tissue plasminogen activator pharmacokinetics in man. *J Am Coll Cardiol* 1991; 17:284A.
16. **Velasco CE**, Atkinson J, Kondo T, Virmani R, Inagami T, Forman M. Enhanced local endothelin release contributes to no-reflow phenomenon in the canine model. *J Am Coll Cardiol* 1991; 17: 305A.
17. Forman M, Virmani R, **Velasco CE**. Role of adenosine in myocardial reperfusion injury. *J of Mol and Cell cardiol* 1991, 23: S.36.
18. **Velasco CE**, Marrow J, Inagami T, Virmani R, Forman M. Intravenous adenosine suppresses cardiac release of endothelin after myocardial ischemia/reperfusion. *Circulation* 1991; 84: II-264.
19. Forman MB, **Velasco CE**, Rigsby T, Vitola J, Jackson E, Murray J. Modulation of neutrophil function in vivo utilizing an adenosine receptor antagonist: a novel therapy for myocardial reperfusion injury. *J Am Coll Cardiol* 1993; 21: 85A.
20. **Velasco CE**, Yanagisawa M, Williamson J, Triana F. Local endothelin-1 production in the ischemic myocardium. *Circulation* 1993; 88: I-544.
21. **Velasco CE**, Yanagisawa M, Williamson J, Triana F. Cardioprotective action of endothelin-1 during ischemia. *Circulation* 1993; 88: I-544.
22. **Velasco CE**, Yanagisawa M. Endothelins protect the myocardium. *J Am Coll Cardiol* 1994, 23: 30A.
23. DeFillippi C, Willett D, Triana F, **Velasco CE**, Eichhorn E, Grayburn P. Concordance of myocardial contrast echocardiography and dobutamine stress echocardiography in evaluation of myocardial viability. *J Am Coll Cardiol* 1994, 23: 451A.
24. **Velasco CE**, Giaid A, Williamson J, Yanagisawa M. Myocardial ischemia and local endothelin-1 production. *European Heart J* 1994; 15 (suppl) :118.
25. **Velasco CE**, Yanagisawa M. Endothelin receptor antagonists increase infarct size. *European Heart J* 1994; 15 (suppl) :253.

26. Grayburn P, Erickson J, **Velasco CE**. Assessment of myocardial risk area and infarct size by peripheral intravenous injection of a new phase shift echo contrast agent. *Circulation* 1994; 90: 1555.
27. Erickson J, Grayburn P, Irani W, Escobar J, **Velasco CE**. Effect of a new phase shift echo contrast agent on myocardial blood flow and hemodynamics. *J Am Coll Cardiol* 1995; 19: 275A.
28. **Velasco CE**, Erikson J, Womack L. Effect of an endothelin receptor antagonist on regional myocardial ischemia. *The Journal of Heart Failure* 1995; 2: 704.
29. **Velasco CE**, Berbarie R, Jackson EK. Endothelins in Unstable Angina.
30. *Catheterization and Cardiovascular Interventions* 2007; 69: S13.
31. Vasudevan A, McCollough P, Sathimorty M, Shussler, J, **Velasco CE**, Lopez LR. Urinary 11-Dehydro-Thromboxane B2 and Mortality in Patients with Stable Coronary Artery Disease. To be presented at the 2016 Congress on Atherosclerotic Cardiovascular Disease Prevention. 9/17/2016. American Society for Preventive Cardiology
32. Tecson KM, Hamman B, Choi JW, Garg P, Olugbode OA, Schussler JM, Stoler RC, Vasudevan A, **Velasco CE**, McCullough PA. The effect of contrast-induced acute kidney injury in high risk patients undergoing cardiac surgery. *Circulation* 2016; 134 (Suppl 1).
33. Lopez LR, Vasudevan A, Sathyammorthy M, Schussler J, **Velasco CE**, Swift C, Schiffman R, Boittiglieri T, McCullough P. Relationship of platelet thromboxane inhibition by aspirin and all-cause mortality in patients with stable coronary artery disease. *Atherosclerosis* 2017;263: e31.

Invited Lectures.-

1. Sudden death in Coronary Artery Disease. Sociedad Medico Quirúrgica del Guayas. Guayaquil, Ecuador. 5/14/1986.
2. Endothelin-1 in Acute Myocardial Ischemia. Immunopharmaceutics. San Diego, California. 2/5/1992.
3. CPC: Aorto-caval fistula. Presented at the Dallas Veterans Administration Medical Center. Dallas, Texas. 4/1993.
4. CPC: Ischemic mitral regurgitation. Dallas Veterans Administration Medical Center. Dallas, Texas. 10/1993.
5. Endothelin and myocardial ischemia. Dallas Veterans Administration Medical Center Dallas, Texas. 1993.
6. Mechanisms of reperfusion injury. Cardiology Division. University of Texas Southwestern Medical Center. Dallas, Texas. 9/1993.

7. Pathophysiology and therapy of unstable angina. Internal Medicine Review Course. The University of Texas Southwestern Medical Center. Dallas, Texas. 9/1993.
8. Therapy of acute myocardial infarction. National Institute of Cardiology. Guayaquil, Ecuador. 7/15/1994.
9. New advances in the therapy of unstable angina. Social Security Hospital. Guayaquil, Ecuador. 7/16/1994.
10. CPC: AIDS myocarditis. Presented at the Dallas Veterans Administration Medical Center. Dallas, Texas. 1994.
11. Unstable angina. Cardiology Division. University of Texas Southwestern Medical Center. Dallas, Texas. 3/1994.
12. Stents and new devices for coronary intervention. Cardiology Division. University of Texas Southwestern Medical Center. Dallas, Texas. 5/1994.
13. New diagnostic procedures to define myocardial area at risk and area of necrosis. Cardiology Division. University of Texas Southwestern Medical Center. Dallas, Texas. 12/2/94.
14. Pathophysiology of acute myocardial ischemia. Dallas Veterans Administration Medical Center. Dallas, Texas. 1/27/95.
15. Stents and new devices for coronary intervention. Cardiology Department. The University of Texas Southwestern medical Center at Dallas. Dallas, Texas. 5/95.
16. Internal Medicine Grand Rounds: Myocardial viability. Baylor University Medical Center. 2/1996.
17. Therapy of Acute Myocardial Infarction. Sixth International Congress of Cardiology. Guayaquil-Ecuador. 6/26/1997.
18. Silent Myocardial Ischemia. Sixth International Congress of Cardiology. Guayaquil, Ecuador. 6/26/1997.
19. Assessment of Myocardial Viability. Second Annual Baylor Cardiovascular Institute Conference. Dallas, Texas. 10/3/1997.
20. Baylor University Medical Center Symposium: Indications and usage of anticoagulant therapy in the cardiac catheterization laboratory. 8/8/1998.
21. Current approach to myocardial revascularization. Hospital Mexico Americano, Guadalajara, Mexico. 2/18/1999.
22. Detection of myocardial viability: usefulness of flow markers. Hospital Mexico Americano, Guadalajara, México. 2/18/1999.
23. New advances in Interventional Cardiology. Colegio de Medicos y Cirujanos, San Jose, Costa Rica. 8/11/1999.
24. Therapy of Acute Myocardial Infarction. Sociedad Herediense de Medicina, Heredia, Costa Rica. 8/12/1999.
25. Pathophysiology and Therapy of Unstable Angina. Colegio de Médicos y Cirujanos, San José, Costa Rica. 4/3/2000.

26. First ACLS training course. Colegio de Médicos y Cirujanos, San José, Costa Rica. 4/17/2001.
27. Unstable angina. Centro Internacional de Medicina (CIMA) Hospital, Chiguagua, Mexico. 10/4/2001.
28. Pathophysiology of the acute coronary syndromes. Congreso de Cardiología. Chihuahua, Mexico. 10/5/2001.
29. Diabetes and heart disease. Congreso de Cardiología. Chihuahua, Mexico. 10/5/ 2001.
30. Acute Coronary Syndromes. Centro Internacional de Medicina (CIMA) Hospital, San José, Costa Rica. 4/17/2002.
31. Prevention of Coronary Artery Disease.. CIMA Hospital. San Jose, Costa Rica. 4/17/2002.
32. Pathophysiology of acute coronary syndromes. Baylor University Medical Center. Dallas, Texas. 9/4/2002.
33. Pathophysiology of acute coronary syndromes. Baylor University Medical Center. Dallas, Texas. 9/7/2003.
34. Coronary artery disease. Baylor Heart and Vascular Hospital. Dallas, Texas. 4/3/2004.
35. ST segment elevation myocardial infarction: pathophysiology and therapy. Baylor University Medical Center. Dallas, Texas. 9/16/2004.
36. New concepts in Acute Coronary Syndromes. XVII Congreso Annual, Colegio Estatal de Chihuahua A.C. Las Delicias, Mexico. 5/13/2005.
37. Interventional therapy of Coronary Artery Disease. XVII Congreso Anual, Colegio Estatal de Chihuahua A.C. Las Delicias, Mexico. 5/13/2005.
38. Arterial Closure Devices. Cardiovascular Symposium 2005. Dallas, Texas. 8/13/ 2005.
39. Acute coronary syndromes. Baylor University Medical Center. Dallas, Texas. 9/15/2005.
40. Pathophysiology of Acute Myocardial Infarction. VIII Congreso Ecuatoriano de Cuidados Intensivos. Quito, Ecuador. 11/11/2005.
41. Therapies to limit infarct size. VIII Congreso Ecuatoriano de Cuidados Intensivos. Quito, Ecuador. 11/11/2005.
42. PTCA in Acute Myocardial Infarction. VIII Congreso Ecuatoriano de Cuidados Intensivos. Quito, Ecuador. 11/11/2005.
43. Cardiogenic shock. VIII Congreso Ecuatoriano de Cuidados Intensivos. Quito, Ecuador. 11/11/2005.
44. Pathophysiology of ACS and STEMI. Baylor University Medical Center. Dallas, Texas. 9/10/2006.
45. Pathophysiology of Acute Coronary Syndromes and STEMI. 2007 Kendall Cardiovascular Symposium. Miami, Florida. 6/22/2007.

46. Cardiogenic shock. I Congreso Internacional de Aterosclerosis y Endotelio. Guayaquil, Ecuador. 8/2/2007.
47. Fibrinolysis in Acute Myocardial Infarction. I Congreso Internacional de Aterosclerosis y Endotelio. Guayaquil, Ecuador. 8/2/2007.
48. When to revascularize the patient with Coronary Artery Disease and Diabetes Mellitus. I Congreso Internacional de Aterosclerosis y Endotelio. Guayaquil, Ecuador. 8/3/2007.
49. Pathophysiology and Invasive Therapy of ST segment elevation myocardial infarction. Universidad Tecnológico de Monterrey. Monterrey, Mexico. 10/19/2007.
50. STEMI: pathophysiology and therapy. Baylor University Medical Center. Dallas, Texas. 9/4/2007.
51. Clinical Cardiology Cases. Sociedad de Atherosclerosis y endotelio. Guayaquil, Ecuador. 4/8/2008.
52. Treatment of Acute myocardial infarction. II Congreso Internacional de Aterosclerosis y Endotelio. Guayaquil, Ecuador. August 26, 2008.
53. Stable angina: medical therapy vs PTCA. II Congreso Internacional de Aterosclerosis y Endotelio. Guayaquil, Ecuador. 8/26/2008.
54. Events in Clinical Cardiology. Hospital Luis Vernaza. Guayaquil, Ecuador. 8/27/2008.
55. Therapy of acute coronary syndromes. Baylor University Medical Center. Dallas, Texas. 9/18/2008.
56. Revascularization strategies in chronic stable angina. III Congreso Internacional de Aterosclerosis y Endotelio. Guayaquil, Ecuador. 8/1/2009.
57. Antiplatelet agents in Acute Coronary Syndromes. III Congreso Internacional de Aterosclerosis y Endotelio. Guayaquil, Ecuador. 8/1/2009.
58. Controversies in coronary artery disease. III Congreso Internacional de Aterosclerosis y Endotelio. Guayaquil, Ecuador. 8/1/2009.
59. Invasive therapy of acute myocardial infarction. Baylor University Medical Center. Dallas, Texas. 6/4/2009.
60. Invasive therapy in STEMI. XXXIX Jornadas Internacionales de Cardiología. Sociedad Ecuatoriana de Cardiología. Guayaquil, Ecuador. 10/16/2009.
61. Cardiogenic shock in acute myocardial infarction. XXXIX Jornadas Internacionales de Cardiología. Sociedad Ecuatoriana de Cardiología. Guayaquil, Ecuador. October 16, 2009.
62. Evaluation and prognosis of patients with ischemic cardiomyopathy: round table. XXXIX Jornadas Internacionales de Cardiología. Sociedad Ecuatoriana de Cardiología. Guayaquil, Ecuador. 10/16/2009.
63. General Cardiology. Baylor University Medical Center. Dallas, Texas. 3/4/2010.
64. In the crossroads between Cardiology and Internal Medicine. Luis Vernaza Hospital. Guayaquil, Ecuador. 4/20/2010.

- 65.** Cardiology pearls. Universidad de Especialidades Espiritu Santo. Guayaquil, Ecuador. 9/9/2010.
- 66.** Pulmonary hipertensión. XLI Jornadas Internacionales de Cardiología. Sociedad Ecuatoriana de Cardiología. Guayaquil, Ecuador. 9/10/2010.
- 67.** Therapy of Acute ST segment elevation myocardial infarction. XLI Jornadas Internacionales de Cardiología. Sociedad Ecuatoriana de Cardiología. Guayaquil, Ecuador. 9/11/2010.
- 68.** Cardiology clinical-pathological correlation. XLI Jornadas Internacionales de Cardiología. Sociedad Ecuatoriana de Cardiología. Guayaquil, Ecuador. September 11, 2010.
- 69.** Evaluation of pulmonary hipertensión. Hospital Luis Vernaza, Sociedad Ecuatoriana de Cardiología and Sociedad de Atherosclerosis y Endotelio. Guayaquil, Ecuador. 9/21/2010.
- 70.** Pre-anesthesia evaluation for noncardiac surgery. XXI Sociedad de Anestesiología del Guayas and Universidad de Especialidades Espiritu Santo. Guayaquil, Ecuador. 9/22/2010.
- 71.** Arterial hipertensión in the perioperative period. XXI Sociedad de Anestesiología del Guayas and Universidad de Especialidades Espiritu Santo. Guayaquil, Ecuador. 9/22/2010.
- 72.** Arrhythmias and anesthesia. XXI Sociedad de Anestesiología del Guayas and Universidad de Especialidades Espiritu Santo. Guayaquil, Ecuador. 9/23/2010.
- 73.** Internal Medicine Grand Rounds: a Tale of Two Cardiology Cases. Baylor University Medical Center. Dallas, Texas. 10/5/2010.
- 74.** Hemodynamic evaluation of pulmonary hypertension. Baylor University Medical Center. Dallas, Texas. 3/3/2011.
- 75.** Acute Myocardial Infarction: beyond the first few hours. XLII Jornadas Internacionales de Cardiología. Guayaquil, Ecuador. 5/21/2011.
- 76.** Preoperative evaluation. XLII Jornadas Internacionales de Cardiología. Guayaquil, Ecuador. 5/21/2011.
- 77.** Controversies in stable angina therapy, a round table. IV Congreso Internacional de Aterosclerosis y Endotelio. Guayaquil, Ecuador. 6/8/2011.
- 78.** Guidelines for therapy of Acute S-T segment Myocardial Infarction. IV Congreso Internacional de Aterosclerosis y Endotelio. Guayaquil, Ecuador. 6/8/2011.
- 79.** Clinical cases: what will you do?. IV Congreso Internacional de Aterosclerosis y Endotelio. Guayaquil, Ecuador. 6/8/2011.
- 80.** Treatment of pulmonary embolism. XIII Congreso Nacional de Angiología y Cirugía Vascul. Guayaquil, Ecuador. 10/20/2011.
- 81.** Invasive therapy of acute ST segment elevation myocardial infarction. XIII Congreso Nacional de Angiología y Cirugía Vascul. Guayaquil, Ecuador. 10/21/2011.

- 82.** Stable coronary artery disease. XIII Congreso Nacional de Angiología y Cirugía Vascular. Guayaquil, Ecuador. 10/21/2011.
- 83.** Evaluation and therapy of acute aortic dissection. XIII Congreso Nacional de Angiología y Cirugía Vascular. Guayaquil, Ecuador. 10/21/2011.
- 84.** Complications, on-going risk assessment, and post-discharge care of ACS. American College of Cardiology ACS program. Baylor Heart and Vascular Hospital. Dallas, Texas. 12/7/2011.
- 85.** Cardiovascular Preoperative Evaluation For Non-cardiac Surgery. Baylor University Medical Center. Dallas, Texas. 3/1/2012.
- 86.** Risk of bleeding with antithrombotic therapy. American College of Cardiology Atrial Fibrillation program. Baylor Heart and Vascular Hospital. Dallas, Texas. 3/21/2012.
- 87.** Quality assurance in Cardiology. Medical Travel Congress. San Jose, Costa Rica. 4/24/2012.
- 88.** Fundamentals of Cardiology program. Baylor Heart and Vascular Hospital. Dallas, Texas. 11/28/2012.
- 89.** Basic concepts in Acute Coronary Syndromes. Luis Vernaza Hospital. Guayaquil, Ecuador. 1/29/2013.
- 90.** Differential diagnosis of Restrictive Cardiomyopathy and Constrictive Pericarditis. Baylor University Medical Center. Dallas, Texas. 5/2/2013.
- 91.** Ischemic cardiomyopathy. XXXI Congreso Internacional de Medicina, Cirugia y Especialidades. Luis Vernaza Hospital. Guayaquil, Ecuador. 7/15/2013.
- 92.** Antiplatelet agents in acute coronary syndromes. XXXI Congreso Internacional de Medicina, Cirugia y Especialidades. Luis Vernaza Hospital. Guayaquil, Ecuador. 7/15/2013.
- 93.** Acute coronary syndromes: round table. 46 Jornadas Internacionales de Cardiología. Guayaquil, Ecuador. 7/29/2013.
- 94.** Invasive therapy of acute S-T segment elevation myocardial infarction. 46 Jornadas Internacionales de Cardiología. Guayaquil, Ecuador. 7/29/2013.
- 95.** Computed tomography coronary angiography and prognosis on asymptomatic males. V Congreso Internacional de Aterosclerosis y Endotelio. Guayaquil, Ecuador. 8/17/2013.
- 96.** Preventive Cardiology. XVI Congreso Internacional Avances en Medicina. Hospital Civil Universidad de Guadalajara. Guadalajara, Mexico. 3/1/2014.
- 97.** Pathophysiology and Therapy of acute S-T segment elevation myocardial infarction. XVI Congreso Internacional Avances en Medicina. Hospital Civil Universidad de Guadalajara. Guadalajara, Mexico. 3/1/2014.
- 98.** Preventive Cardiology. Baylor University Medical Center. Dallas, Texas. 4/11/2014.
- 99.** Medical Quality Assurance. Hospital Luis Vernaza. Guayaquil, Ecuador. 6/13/2014.

100. Recent concepts in cardiovascular risk factors. XII Congress of the Latin American Society of Hypertension. Guayaquil, Ecuador. 10/17/2014.
101. New Concepts in Acute Myocardial Infarction. Segundo Congreso Internacional Médico Quirúrgico. Centro Cardiovascular Somer in Care. Medellín, Colombia. 12/4/2014.
102. Pericardial diseases and cardiac tumors. Baylor University Medical center. Dallas, Texas. 5/1/2015.
103. Acute coronary Syndromes. 48 Jornadas Internacionales de Cardiología. Sociedad Ecuatoriana de Cardiología Nucleo del Guayas. Guayaquil, Ecuador. 7/10/2015.
104. Cardiogenic shock due to acute myocardial infarction. 48 Jornadas Internacionales de Cardiología. Sociedad Ecuatoriana de Cardiología Nucleo del Guayas. Guayaquil, Ecuador. 7/10/2015.
105. Acute myocardial infarction: diagnosis and treatment. Hospital Luis Vernaza. Guayaquil, Ecuador. 8/14/2015.
106. Endothelial dysfunction: what the clinician needs to know. Sociedad Ecuatoriana de Aterosclerosis y Endotelio. Guayaquil, Ecuador. 8/15/2015.
107. Tumors of the Heart. Baylor Heart and Vascular Hospital and Baylor University Medical Center. Dallas, Texas. 4/18/2016.
108. Diseases of the pericardium. Baylor University Medical Center. Dallas, Texas. 5/27/2016.
109. Antiplatelet agents in Acute Coronary Syndromes, a roundtable. Sociedad Ecuatoriana de Aterosclerosis y Endotelio. Guayaquil, Ecuador. 8/16/2015.
110. Use of statins in primary and secondary prevention. XLIX Jornadas Internacionales de Cardiología. Guayaquil, Ecuador. 7/2/2016.
111. Challenges in ischemic heart disease. XLIX Jornadas Internacionales de Cardiología. Guayaquil, Ecuador. 7/2/2016.
112. Primary PCI for therapy of acute ST segment elevation myocardial infarction. Symposium Internacional de Medicina. Hospital Luis Vernaza. Guayaquil, Ecuador. 7/21/2016.
113. Quality improvement and performance measures in congestive heart failure. Symposium Internacional de Medicina. Hospital Luis Vernaza. Guayaquil, Ecuador. 7/21/2016.
114. Cardiology Grand Rounds: Microvascular obstruction, the “no-reflow” phenomenon. Baylor Heart and Vascular Hospital and Baylor University Medical Center. 11/21/2016.
115. ST segment elevation myocardial infarction and cardiogenic shock: when to transfer. Dallas-Leipzig Symposium 2017. Dallas, TX. 2/17/2017.
116. Stem cells in chronic ischemic cardiomyopathy. II International Meeting of Medicine, Surgery and Specialties. Hospital Luis Vernaza. Guayaquil, Ecuador. 7/19/2017.

117. Diabetes mellitus and coronary artery disease. VII Congreso Internacional de Aterosclerosis y Endotelio. Guayaquil, Ecuador. 8/5/2017.
118. Papel de FFR en la evaluación funcional de la enfermedad de arterias coronarias. XXII Congreso Ecuatoriano de Cardiología. Guayaquil, Ecuador. 10/14/2017.
119. Intervención coronaria percutánea vs cirugía de revascularización miocárdica como estrategias de revascularización. XXII Congreso Ecuatoriano de Cardiología. Guayaquil, Ecuador. 10/14/2017.
120. Indicadores de calidad en insuficiencia cardíaca. XXII Congreso Ecuatoriano de Cardiología. Guayaquil, Ecuador. 10/14/2017.
121. Dilemmas in Cardiology. Internal Medicine Department. Baylor University Medical Center. Dallas, Texas. 11/5/2017.
122. ECMO, ¿Lo necesitamos? 53 Jornadas Sociedad Ecuatoriana de Cardiología Nucleo Guayas, "Reunión de los Talentos." Guayaquil, Ecuador. 11/30/2018.
123. Novedades en el infarto agudo del miocardio con elevación del segmento S-T. 53 Jornadas Sociedad Ecuatoriana de Cardiología Nucleo Guayas, "Reunión de los Talentos." Guayaquil, Ecuador. 12/1/2018.
124. What did you do to succeed? Moderator, round table. 53 Jornadas Sociedad Ecuatoriana de Cardiología Nucleo Guayas, "Reunión de los Talentos." Guayaquil, Ecuador. 12/1/2018.
125. Hemodynamic support in Cardiogenic shock. V Jornadas Internacionales. Cardiocentro Manabí and Universidad de Especialidades Espíritu Santo. Manta, Ecuador. 7/13/2019.
126. PCI vs CABG in the treatment of coronary artery disease on patients with diabetes mellitus. VIII Congreso Internacional de Aterosclerosis y endotelio. Sociedad Ecuatoriana de Aterosclerosis y endotelio. Guayaquil, Ecuador. 8/4/2019.
127. Clinical Pearls. Universidad de Especialidades Espíritu Santo. Guayaquil, Ecuador. 8/5/2019.
128. Myocardial infarction without significant coronary artery disease (MINOCA). 55 Jornadas Internacionales de Cardiología. Sociedad Ecuatoriana de Cardiología and Universidad de Especialidades Espíritu Santo. Guayaquil, Ecuador. 11/23/2019.
129. Discussion with CAD experts: a roundtable. 55 Jornadas Internacionales de Cardiología. Sociedad Ecuatoriana de Cardiología and Universidad de Especialidades Espíritu Santo. Guayaquil, Ecuador. 11/23/2019.
130. Myocardial Infarction without obstructive coronary artery disease: MINOCA. Cardiology Grand Rounds. Baylor Heart and Vascular Hospital and Baylor University Medical Center. Dallas, Texas. 12/16/2019.

Other Activities.-

Member of the planning committee: Second Annual New Frontiers in Interventional Cardiology symposium. October 6, 1996. Dallas, TX.

Member of the planning committee: Third Annual New Frontiers in Interventional Cardiology symposium. October 4, 1997. Dallas, TX.

Member of the planning committee: Fourth Annual New Frontiers in Interventional Cardiology symposium. May 1, 1999.

Proctor, Extraction Atherectomy Device. 1996.

Proctor, Angiojet device. 1998.

Clinical advisor, Roche laboratories. 1997.

Expert opinion consultant for Blue Cross Blue Shield. 2000-present.

Previous research activities as local co-investigator.-

Extraction atherectomy in unstable angina. Baylor University Medical Center. Dallas, Texas. 1997-1999.

Percutaneous transmyocardial laser revascularization on patients with severe angina. Baylor University Medical Center. Dallas, Texas. 1998-1999.

Stem cells for intractable angina. Renew trial. Baylor Heart and Vascular Hospital. Dallas, Texas. 2012-2014.

Current and/or recent research work.-

Co-investigator, "A Phase II Randomized, Double Blind, Placebo Controlled Study to Evaluate the Safety and Efficacy of a Single Dose of JVS-100 Administered by Endomyocardial Injection to Cohorts of Adults with Ischemic Heart Failure." The STOP HF trial. Baylor Heart and Vascular Hospital. June, 2013-December, 2014.

Co-investigator, ixCell study, "A multicenter, randomized, double blind, placebo-controlled, parallel group study to evaluate the efficacy, safety and tolerability of transendocardial injection of Ixmyelocel-T in subjects with heart failure due to ischemic dilated cardiomyopathy." Baylor Heart and Vascular Hospital. March 2013-December 2014.

Local co-investigator, "a double blind, Randomized, Sham-procedure-controlled, Parallel-group Efficacy and Safety Study of Allogeneic Mesenchymal Precursor Cells (rexlemestrocel-L) in Patients with Chronic Heart Failure Due to Left Ventricular Systolic Dysfunction of Either Ischemic or Non-ischemic Etiology: DREAM HF-1. Baylor Heart and Vascular Hospital. 6/2016-present.

International Activities.-

Advisor for Quality Assurance and Improvement initiatives, Clinica Biblica Hospital, San Jose, Costa Rica. August 1999-present.

Advisor for Quality Assurance and Improvement initiatives, Luis Vernaza Hospital, Guayaquil, Ecuador. January 3, 2014-December, 2014.

Humanitarian work.-

Chihuahua, Mexico, 10/2001. Providing supplies for cardiac catheterization laboratory and general surgery suite.

San Jose, Costa Rica, 1999, 2001. Providing supplies for cardiac catheterization laboratory.

Guayaquil, Ecuador. Started in 1999. Since that time I have done 3 to 4 trips per year, usually taking donation supplies for the cardiac catheterization laboratory, the electrophysiology laboratory and the Intensive Care Unit. I provided the first ablation

unit for the Electrophysiology laboratory. Most recent work done at Luis Vernaza Hospital, Guayaquil, Ecuador 7/2017, including minimally invasive mitral valve repair and mitral valve replacement with a surgery team from Baylor Heart and Vascular Hospital.

Manuscripts in preparation.-

Takotsubo and GB (Archer).

Non-compactation and Chagas disease.

Community outreach.-

Editorial in El Universo, newspaper, Guayaquil, Ecuador. COVID-19 pandemic and vaccines. 1/2021.

Baylor Heart and Vascular podcast. Hispanic community, cardiovascular disease and COVID-19. 1/22/2021.