

Curriculum Vitae

Frank V. Aguirre, M.D., F.A.C.C.

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Springfield, Illinois, 62702
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Education:

June, 1973	Thomas Kelly High School Chicago, Illinois
May, 1977	Illinois Benedictine College Lisle, Illinois B.S., Biochemistry
May, 1980	Southern Illinois University Springfield, Illinois M.D.

Postgraduate Training:

July 1980-June 1981	Internship Rush-Presbyterian St. Luke's Medical Center Rush University Chicago, Illinois
July 1981-June 1982	Medicine Internship St. Louis University Hospital/Clinic St. Louis, Missouri
July 1982-June 1983	Internal Medicine Residency St. Louis University Hospital St. Louis, Missouri
July 1983-June 1984	Chief Resident - Internal Medicine St. Louis City Hospital St. Louis University Medical Service St. Louis, Missouri
July 1985-June 1988	Clinical Cardiology Fellowship
July 1986-June 1987	Chief Fellow St. Louis University Medical Center St. Louis, Missouri

July 1988-June 1989
Interventional Cardiology Fellow
St. Louis University Medical Center
St. Louis, Missouri

Faculty Appointments:

July 1984-June 1985
Instructor of Medicine
Department of Internal Medicine
St. Louis County Hospital
St. Louis University Medical Center
St. Louis, Missouri

July 1988-June 1989
Instructor of Medicine
Division of Cardiology
St. Louis University Medical Center
St. Louis, Missouri

July 1989-June 1994
Assistant Professor of Medicine
Division of Cardiology
St. Louis University Medical Center
St. Louis, Missouri

July 1994-Jan 1998
Associate Professor of Medicine (Tenure)
Division of Cardiology
Saint Louis University Health Sciences Center
St. Louis, Missouri

January 1999-Nov 2007
Clinical Associate Professor of Medicine
Southern Illinois University School of Medicine
Springfield, IL

November 2007-Present
Clinical Professor of Medicine
Southern Illinois School of Medicine
Springfield IL.

July 1989-1992
Associate Director, Coronary Care Unit
Saint Louis University Health Sciences Center
St. Louis, Missouri

February 1993-Jan 1998
Director, Coronary Care Unit
Saint Louis University Health Sciences Center
St. Louis, Missouri

July 1996-Jan 1998
Director, Interventional Cardiology
Saint Louis University Health Sciences Center
St. Louis, Missouri

January 1996-1998
Director, Mobile Cardiac Catheterization Laboratory
Carbondale Memorial Hospital
Carbondale, Illinois

July 2003-June 2004 Acting Chief, Division of Cardiology
Southern Illinois University School of Medicine
Springfield, IL

July 2004-Present Chief, Division of Cardiology
Southern Illinois University School of Medicine
Springfield, IL

Medical School Committees:

Jan 2002 – July 2006 Member, Springfield Committee for Research Involving
Human Subjects (SCRIHS); Institutional Review Board
Southern Illinois University School of Medicine
Springfield, IL

September 2005 – Present Member, Admissions Committee
Southern Illinois University School of Medicine
Springfield, IL 62794

July 2006 – Present Co-director, Cardio-Renal-Respiratory Curriculum
2nd year Medical Students
Southern Illinois University School of Medicine
Springfield, IL

Hospital Committees:

July 1989- Jan 1994 Member, Special Care Review Committee
Saint Louis University Health Sciences Center

July 1994-Jan 1999 Chairman, Special Care Review Committee
Saint Louis University Health Sciences Center
St. Louis, Missouri

July 1994-Jan 1999 Member, Quality Assurance Committee
Saint Louis University Health Sciences Center
St. Louis, Missouri

July 1995-July 1996 Member, Radiation Safety Committee
Saint Louis University Health Sciences Center
St. Louis, Missouri

July 1999 – Present Board Member, Prairie Education and Research
Cooperative (PERC research)
Springfield, IL

Jan 1999-January 2007 Member, Pharmacy and Therapeutics Committee
Memorial Medical Center
Springfield, IL

Feb 2002 – January 2007 Member, Medical Economics and Outcome
Memorial Medical Center
Springfield, IL

Feb 2003 –Present	Member, Credentials Committee Memorial Medical Center Springfield, IL
Feb 2003 –Jan 2007	Chairman, Credentials Committee Memorial Medical Center Springfield, IL
January 2007 – Present	President-Elect, Medical Staff Memorial Medical Center Springfield, IL
January 2007 – Present	Member, Strategic Planning and Development Committee Memorial Medical Center Springfield, IL
January 2007 – Present	Member, Quality and Safety Management Committee Memorial Medical Center Springfield, IL
January 2007 – Present	Member, Executive Committee Memorial Medical Center Springfield, IL
February 2007 – Present	Medical Executive Committee Memorial Medical Center Springfield, IL
February 2007 – Present	Nominating Committee Memorial Medical Center Springfield, IL
January 2009 - Present	President of Medical Staff Memorial Medical Center Springfield, IL

Facility Privileges

March 1998 - Present	Memorial Medical Center 701 N First Street Springfield, IL 62781
May 1999 – Present	St. John’s Hospital 800 E Carpenter Springfield, IL 62769
Jan 1998 – Present	St. Vincent’s Hospital 201 E Pleasant, Taylorville, IL 62568

01/98 to present Abraham Lincoln Memorial Hospital
315 Eighth Street
Lincoln, IL 62656

Awards:

1981 Intern of the Year Award
Rush-Presbyterian St. Luke's Medical Center
Chicago, Illinois

1982, 1983 Junior Student Teaching Award
Saint Louis University Health Sciences Center
St. Louis, Missouri

1986-1987 Cardiology Fellow of the Year Award
Saint Louis University Health Sciences Center
St. Louis, Missouri

2003 Alpha Omega Alpha Medical Honor Society

Board Certification:

December 1980 Federation Licensure Examination (FLEX)
#550927014

September 1984 American Board of Internal Medicine
#096452

November 1987 Cardiovascular Diseases
#096452

November 2000 Interventional Cardiology
096452

Licensure:

Missouri
Illinois
South Dakota (Inactive)

Professional Organizations:

Fellow American College of Cardiology
Fellow American Heart Association, Clinical Council of Cardiology
Fellow Society for Cardiac Angiography and Interventions
Member American College of Physicians
Member American Medical Association

GRANTS

- 7/87-1/88 **Co-Investigator:** "A double-blind clinical study comparing the hemodynamic and electrocardiographic effects of Hexabrix and renografin-76 in selective coronary arteriography". Mallinckrodt, Inc., St. Louis, Missouri
- 8/88 **Co-Investigator:** "Bypass Angioplasty Revascularization Investigation (BARI)". NHLBI.
- 6/89-1/90 **Principal Investigator:** "A double-blind clinical study comparing the effects of Benadryl and Benadryl plus Axid for use as a premedication in patients undergoing coronary angiography". Mallinckrodt, Inc., St. Louis, Missouri
- 6/89-6/91 **Co-Investigator:** "A randomized, phase III placebo-controlled survival study of oral milrinone in patients with severe heart failure". Sterling Research Group, Sterling Drug, Inc.
- 4/89-10/89 **Co-Investigator:** "A multicenter prospective randomized placebo-controlled trial of Activase and heparin in patients with unstable angina (UNSA Trial)". Genentech, Inc., South San Francisco, CA
- 4/89-10/89 **Co-Investigator:** "Heparin-aspirin reperfusion trial (HART)". Genentech, Inc., South San Francisco, CA
- 2/88-7/90 **Principal Investigator:** "A pilot trial of late thrombolysis and delayed revascularization in (late) myocardial infarction (TAMI VI)". Genentech, Inc., South San Francisco, CA
- 10/89-1/93 **Co-Investigator:** "Thrombolysis in myocardial ischemia (TIMI III)". National Heart, Lung, and Blood Institute.
- 4/90-7/91 **Principal Investigator:** "A randomized trial comparing 7E3 monoclonal antibody and placebo in the treatment of patients with abrupt closure during angioplasty". Centocor, Inc., Malvern, PA
- 4/90-7/91 **Principal Investigator:** "A phase II multicenter trial of monoclonal antibody 7E3 Fab in patients with acute myocardial infarction (TAMI VIII)". Centocor, Inc., Malvern, PA
- 8/91-8/92 **Co-Investigator:** "Multicenter American Research Trial with cilazapril after angioplasty to prevent transluminal coronary obstruction and restenosis". Hoffman-LaRoche
- 8/91-11/93 **Co-Investigator:** "Intracoronary stenting for acute occlusion after coronary balloon angioplasty and as a primary treatment for coronary occlusion disease". Cook, Inc.
- 8/91-12/92 **Co-Investigator:** "A multicenter, open-label, ascending dose, safety and tolerability trial to compare the effects of CGP-39393 and heparin when given in conjunction with recombinant tissue-type plasminogen activator to patients with acute transmural myocardial infarction (TIMI V)". Ciba-Giegy, Summit, NJ

- 10/91-11/93 **Principal Investigator:** COORDINATING CENTER "t-PA heparin duration trial". Genentech, Inc., South San Francisco, CA
- 1/92-11/92 **Principal Investigator:** "EPIC - A phase III double-blind, placebo-controlled multicenter study of chimeric 7E3 Fab in patients undergoing high risk coronary angioplasty". Centocor, Inc., Malvern PA
- 8/93-4/94 **Principal Investigator:** "Adjunctive intralesional delivery of tissue plasminogen activator and heparin during angioplasty in unstable angina (UTOPIA)". Genentech, Inc., South San Francisco, CA
- 6/93-6/94 **Principal Investigator:** "A multicenter double-blind, randomized study to compare the safety and efficacy of B68967 with heparin in patients with unstable angina undergoing percutaneous transluminal coronary angioplasty (PTCA)". Biogen, Inc. and Biogen, Ltd., Cambridge, MA
- 8/93-3/96 **Principal Investigator:** "A randomized, double-blind study to compare the efficacy and safety of fixed low doses of Coumadin™ plus aspirin to aspirin alone in the prevention of reinfarction, cardiovascular death, and stroke in post-myocardial infarction patients (CARS)". Dupont Merck Pharmaceutical Co., Wilmington, DE
- 4/92-4/93 **Co-Investigator:** "A multicenter, open-label safety and tolerability trial to compare the effects of CGP-39393 and heparin when given in conjunction with streptokinase to patients with acute transmural myocardial infarction (TIMI VI)". Ciba-Giegy, Summit, NJ
- 7/93-7/94 **Co-Investigator:** "Thrombolysis and thrombin inhibition in acute myocardial infarction (TIMI 9)". Ciba-Giegy, Summit, NJ
- 1/94-11/94 **Principal Investigator:** "A randomized, double-blind efficacy and safety evaluation of two dosing regimens of integrelin versus placebo for reducing the complications of coronary angioplasty (IMPACT II)". Cor Therapeutics, Inc., South San Francisco, CA
- 3/94 **Principal Investigator:** "A randomized, double-blind parallel study to investigate the safety and clinical efficacy of MK-383 versus heparin in patients with unstable angina (PRISM)". Merck Research Laboratories, West Point, PA
- 3/94-12/95 **Principal Investigator:** "A phase III, randomized, double-blind, placebo-controlled trial evaluating 30-day and 6-month clinical outcome following percutaneous coronary intervention in patients treated with c7E3 fab bolus plus 12-hour infusion given with either standard-dose weight-adjusted or low-dose weight-adjusted heparin (EPILOG)". Centocor, Inc., Malvern, PA
- 2/96 **Principal Investigator:** "A multicenter, randomized trial evaluating 30-day and 6-month clinical outcome with three different treatment strategies in patients undergoing percutaneous coronary intervention (The EPILOG stent sub-study)". Centocor, Inc., Malvern, PA.

- 9/95 **Principal Investigator:** "A randomized, double-blind evaluation of the efficacy and safety of two dosing regimens of Integrilin™ versus placebo for reducing mortality and myocardial (re)infarction in patients with unstable angina or non-Q wave myocardial infarction (PURSUIT)". Cor Therapeutics.
- 1/96 **Principal Investigator:** "A Global Unstable Angina Registry and Treatment Evaluation (GUARANTEE)". Eli Lilly, Inc.
- 4/96 **Principal Investigator:** "A randomized, double-blind evaluation of the effects of Integrilin versus placebo on ex vivo platelet aggregation and GP IIb/IIIa receptor occupancy in patients with unstable angina or non-Q wave myocardial infarction (PERIGEE): A sub-study within PURSUIT study". Cor Therapeutics.
- 4/96 **Principal Investigator:** "RAPPORT: ReoPro™ in Acute Myocardial Infarction and Primary PTCA Organization and Randomized Trial (Protocol #C7E3 Fab (LY 314366)". Eli Lilly.
- 7/96 **Principal Investigator:** "A Randomized Evaluation of the Pharmacodynamics and Safety of a Range of Dosing Regimens of Integrilin versus Placebo in Patients Undergoing Percutaneous Coronary Interventions (Protocol #96-023) (PRIDE)". Cor Therapeutics.
- 9/97 **Principal Investigator:** "SCIMED Stent Comparative Restenosis Trial (SCORES)". Scimed.
- 12/98 **Co-Principal Investigator** (Clinical Coordinating Center): A Phase III Open-Label, Randomized, Multicenter Study of Expanded Utilization of Intravenous Beta-Blocker Therapy in Acute Ischemic Syndromes: The Esmolol in Acute Ischemic Syndrome (EMIT) Study Group, Ohmeda, Inc.
- 03/98 **Principal Investigator:** To compare in-hospital costs among low-risk patients undergoing elective/non-emergent percutaneous revascularization procedures who receive adjunctive platelet glycoprotein IIb/IIIa inhibition with either abciximab or eptifibatide (PRICE). Schering-Plough
- 3/98-3/99 **Co-Investigator:** Percutaneous Transmyocardial Laser Revascularization (PTMR) study.
- 5/98- 5/99 **Co-Investigator:** Sibrafiban vs Aspirin to Yield Maximum Protection from Ischemic Heart Events Post-Acute Coronary Syndrome (SYMPHONY I) trial.
- 3/99- 5/99 **Co- Investigator:** Sibrafiban vs Aspirin to Yield Maximum Protection from Ischemic Heart Events Post-Acute Coronary Syndrome (SECOND SYMPHONY) trial.
- 3/99- 4/00 **Principal Investigator:** Platelet Glycoprotein IIb/IIIa ReoPro vs. Integrilin Cost-Effectiveness (PRICE) trial: Evaluation in non-high risk patients undergoing percutaneous coronary intervention. COR Pharmaceuticals.

- 3/99-4/00 **Principal Investigator:** Phase II, Multicenter, Double-Blind, Placebo-Controlled, Dose Finding Study for Safety, Pharmacokinetics and Efficacy of Recombinant Fibroblast Growth Factor-2 (rFGF-2) in Subjects with Coronary Artery Disease (CAD). CHIRON Technologies.
- 3/00 - 4/00 **Principal Investigator:** Effect of citrate anticoagulation on platelet inhibition with a non-peptide platelet glycoprotein IIb/ IIIa antagonist during percutaneous coronary intervention: EFFORT trial. Merck, Inc.
- 11/00-01/01 **Principal Investigator:** Evaluation of catheter-based direct myocardial gene delivery in an ischemic porcine model. Boston Scientific, Inc.
- 01/01 **Co-Investigator:** Safety and efficacy of the Rabamycin-coated BX Velocity stent SIRUS. (Cordis).
- 4/02 **Co-Investigator:** “Saphenous Vein Graft Intervention Using Angio guard for Reduction of Distal Embolization (GUARD)”. Cordis, Warren NJ.
- 4/02 **Co-Investigator:** “Treatment of De Novo Coronary Disease Using Single Paclitaxel-Eluting Coronary Stent System (TAXUX IV)”. Boston Scientific, Natick MA.
- 12/02 **Principal Investigator:** “Clopidogrel for High Atherothrombotic Risk Ischemic Stabilization, Management and Avoidance (CHARISMA)”. Sanofi-Synthelabo, Malvern PA.
- 01/03 **Co-Investigator:** Low Molecular Weight heparin (Lovenox) for use in Trans Esophageal Echocardiography Guided Cardioversion of Patients with Atrial fibrillation (ACUTE II). Boston Scientific.
- 02/03 **Co-Investigator:** A randomized comparison of Angiomax (Bivalirudin) vs. Lovenox (Enoxaparin) in patients undergoing early invasive management for acute coronary syndrome w/out ST-segment elevation. (ACUITY). The Medicines Company.
- 09/03- Pres **Co-Investigator:** Guidant - Nallamothu - Advacent: National Registry to Advance Heart Health 2003 (ADVANCENT).
- 01/04- Pres **Principal Investigator:** DUKE - Kinetics of Integrilin Limited by Obesity. A Multi-center prospective randomized single-blinded study designed to test the safety and efficacy of Eptifibatide in reducing ischemic complications in obese patients undergoing elective PCI. (KILO). 2003.
- 09/04- Pres **Co-Investigator:** Aventis Inc.- A multinational, randomized, double-blind, double-dummy, exploratory, parallel-group, dose-ranging phase II Study to Evaluate the Pharmacodynamics, the safety and tolerability, and the pharmacokinetics of several Intravenous regimens of the factor Xa inhibitor otamixaban (XRP0673), in comparison to intravenous unfractionated heparin, in subjects undergoing non-urgent Percutaneous Coronary Intervention. (SEPIA) 2004.

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- 09/04 **Co-Investigator:** Treatment of De Novo coronary Disease using a Single Paclitaxel-Eluding stent (TAXUS). Boston Scientific.
- 07/04 **Co-Investigator:** A multicenter, single-arm study of the Taxus Liberte' SR stent for the treatment of patients with de novo coronary artery lesions (ATLAS) Boston Scientific
- 01/05 **Principal Investigator:** Guilford Pharmaceuticals, Inc.- A Randomized, Multicenter, Double-Blind, Abciximab-Controlled Study to Evaluate the Efficacy of Tirofiban versus Abciximab among Subjects Undergoing Percutaneous Coronary Intervention with Stent Placement Receiving Bivalirudin or Heparin. (TENACITY) 2004.
- 04/08 **Principal Investigator:** Scios Pharmaceuticals – A double blind, Placebo-Controlled, Multicenter Acute Study of Clinical Effectiveness of Nesiritide in Subjects with Decompensated Heart Failure (ASCEND) 2008.

EDITORIAL CONSULTANT

American Journal of Cardiology
Catheterization and Cardiovascular Diagnosis
Mayo Clinic Proceedings
Circulation
Journal of the American College of Cardiology
Journal of American Medical Association
Journal of Thoracic Surgery
American Heart Journal

Article I. EDITORIAL BOARD

American Heart Journal

Section 1.01 PRESENTATIONS

- 1990 American College of Cardiology Annual Scientific (New Orleans, LA) Meet the Experts: "Patient Management Following Thrombolysis".
- 1996 European Society of Interventional Cardiology Annual Scientific Session 1996 (Madrid Spain): "Use of platelet Glycoprotein IIb/IIIa Inhibitor During Coronary Intervention".
- 1996 Interventional Society of Hematology Annual Scientific Session 1996 (Nice, France): "Platelet Glycoprotein IIb/IIIa Inhibitor in Cardiovascular Diseases."
- 1998 American Heart Association Annual Scientific Session (Dallas, TX): How-To-Session: "Early Diagnosis of Acute Myocardial Infarction".
- 1999 American College of Cardiology/Society Cardiac Angiography and Intervention: Interventional Board Review Course (San Francisco, CA):
Basic Science: Plaque Biology, Hematology, Pharmacology: Clotting Cascade
Basic Science: Plaque Biology, Hematology, Pharmacology: Thrombolysis and Platelet Function

Frank V. Aguirre, M.D.

Vasoactive Drugs, Antiarrhythmics and Anticoagulants: IV Thrombolytics vs Antiplatelet Agents Vasoactive Drugs, Antiarrhythmics and Anticoagulants: Antiarrhythmics and Hypolipidemics During and After Intervention.

- 2000 Society of Cardiovascular and Interventional Radiology 2000 Annual Scientific Session (San Antonio, TX): “An Interventional Odyssey: Blood pressure control: physiology and pharmacology and suggested uses of medications to raise and lower pressure”.
- 2000 American Heart Association Annual Scientific Session 2000 (New Orleans, LA): Meet the experts: “Adjunctive pharmacotherapy during percutaneous coronary intervention”.
- 2004 American College of Cardiology 52nd Annual Scientific Session (New Orleans, LA): Co-Chairman, Meet the Experts: “Acute Myocardial Infarction”.
- 2008 American College of Cardiology 57th Annual Scientific Session (Chicago, IL): Chairman, Meet the Experts: “Improving Door-to-Balloon Times”.
- 2008 American College of Cardiology 57th Annual Scientific Session (Chicago, IL): Chairman, Meet the Experts: “Variability in Response to Antiplatelets: Does it Matter and What Should I Do About It?”

PUBLICATIONS:

1. Greenberg RE, Kennedy DJ, Kennedy DJ, Reilly PM, Luppen KL, Weinandt WJ, Bollinger MR, **Aguirre FV**, Kodesch F, Saeed MK. Treatment of bone, joint, and soft tissue infections with oral ciprofloxacin. *Antimicrobial Agents and Chemotherapy* 1987;31:151-155.
2. **Aguirre FV**, Buckingham TA. Signal-averaged electrocardiography for identification of patients with chronic coronary artery disease and sustained ventricular tachycardia. *Cardiol Board Review* 1987;4:21-28.
3. Kern MJ , **Aguirre F**, Shay Y, Gabliani G, Deligonul U, Bodet J, Vandormael M. Utility of continuous measurement of pulmonary artery oxygen saturation during episodic myocardial ischemia in patients. *J Interven Cardiol* 1988; 1:131 – 136.
4. **Aguirre FV**, Pearson AC, Lewen MK, McClusky M, Labovitz AJ. Usefulness of Doppler echocardiography in diagnosis of congestive heart failure. *Am J Cardiol* 1989; 63:1098-1102.
5. Gudipati C, Kern MJ, **Aguirre FV**, Deligonul U. Papaverine-induced chest pain due to coronary vascular steal: demonstration with angiographic and intracoronary flow velocity measurements. *Am Heart J* 1989 Aug;118(2):404-407.
6. Serota H, Deligonul U, Lew B, Kern MJ, **Aguirre F**, Vandormael M. Improved method for transcatheter retrieval of intracoronary detached angioplasty guidewire segments. *Cathet Cardiovasc Diagn* 1989;17:248-251.
7. Fagan LF, **Aguirre FV**, Deligonul U, Kern MJ. Pseudodissection: negative contrast streaming from collateral flow branch mimicking coronary arterial dissection. *Cathet Cardiovasc Diagn*. 1989;Sep;18(1):15-17.

8. Kern MJ, Serota H, Callicoa P, Deligonul U, Lew W, **Aguirre FV**, Lew B, Barner H, Willman V. Use of coronary arteriography in the pre-operative management of patients undergoing urgent repair of the thoracic aorta. *Am Heart J* 1990;119:143-148.
9. Kern MJ, Tatineni S, Gudipati C, **Aguirre F**, Ring ME, Serota H, Deligonul U. Regional coronary blood flow velocity and vasodilatory reserve in patients with angiographically normal coronary arteries. *Coro Artery Disease* 1990;1:579-589.
10. Kern MJ, Cohen M, Talley JD, Litvack F, Serota H, **Aguirre F**, Deligonul U, Bashore T. Early ambulation after 5 French diagnostic cardiac catheterization: results of a multicenter trial. *J Am Coll Cardiol* 1990;15:1475-1483.
11. Kern MJ, Gudipati C, Tatineni S, **Aguirre F**, Serota H, Deligonul U. Effect of abruptly increased intrathoracic pressure on coronary blood flow velocity in patients. *Am Heart J* 1990;119:863-870.
12. Serota H, Barth CW, Seuc CA, Vandormael M, **Aguirre F**, Kern MJ. Rapid identification of the course of anomalous coronary arteries: the "dot and eye" method. *Am J Cardiol* 1990;65:891-898.
13. Younis L, **Aguirre F**, Byers S, Walker H, Carrachi B, Peterson G. Perioperative and long-term prognostic value of intravenous dipyridamole thallium scintigraphy in patients with peripheral vascular disease. *Am Heart J* 1990;119:1287-1292.
14. **Aguirre FV**, Pearson AC, Lewen MK, Labovitz AJ. Identifying congestive heart failure patients whose systolic function is normal. *Congestive Heart Failure* 1990;7(9):19.
15. Kern MJ, Deligonul U, Serota H, Gudipati C, Ring M, Dressler F, **Aguirre F**. Acute combined aortic and mitral insufficiency during balloon catheter valvuloplasty for a third recurrence of critical aortic stenosis. *Am Heart J* 1990;120:1007-1011.
16. Serota H, Deligonul U, Lee W, **Aguirre F**, Kern MJ, Taussig SA, Vandormael M. Predictors of early (.6 months) mortality after coronary angioplasty in patients with severe left ventricular dysfunction. *Am J Cardiol* 1991;67:367-372.
17. Serota H, Kern MJ, Deligonul U, **Aguirre F**, Caralis DG. Ergonovine induced myocardial ischemia without epicardial coronary vasospasm: evidence for ischemia produced by small vessel vasoconstriction. *Am Heart J* 1991;121:1807-1809.112.
18. Hilton TC, Deligonul U, **Aguirre F**, Kern MJ. The "end-hole" pigtail catheter: an unusual complication of left ventriculography. *Cathet Cardiovasc Diagn* 1991;23:139-140.
19. Ofili E, Kern MJ, Tatineni S, Deligonul U, **Aguirre F**, Serota H, Labovitz AJ. Detection of coronary collateral flow by a Doppler-tipped guidewire during coronary angioplasty. *Am Heart J* 1991;122:221-225.
20. Hilton TC, **Aguirre F**, Greenwalt T, Janosik DL, Kern MJ. Successful treatment of complex ventricular arrhythmias with percutaneous transluminal coronary angioplasty. *Am Heart J* 1991;122:230-231.
21. Kern MJ, Talley JD, Deligonul U, Serota H, **Aguirre F**, Gudipati C, Ring M, Joseph A, Yussman ZA, Kulick D, Salinger M. Preliminary experience with 5 French diagnostic catheters as guiding catheters for coronary angioplasty. *Cathet Cardiovasc Diagn* 1991;22: 60-63.

22. **Aguirre FV**, Pedersen W, Castello R, Deligonul U, Gudipati C, Serota H, Labovitz AJ, Kern MJ. The effects of high (sodium meglumine diatrizoate, Renografin-76TM) and low osmolar (sodium meglumine ioxaglate, HexabrixTM) radiographic contrast media on diastolic function during left ventriculography in patients. *Am Heart J* 1991;121:848-857.
23. Kern MJ, Deligonul U, Tatineni S, Serota H, **Aguirre F**, Hilton TC. Intravenous adenosine: continuous infusion and low dose bolus administration for determination of coronary vasodilatory reserve in patients with and without coronary artery disease. *J Am Coll Cardiol* 1991;18:718-729.
24. **Aguirre FV**, Kern MJ, Hsia J, Janosik D, Greenwalt T, Ross AM, Chaitman BR. Importance of myocardial infarct artery patency on the prevalence of ventricular arrhythmia and late potentials after thrombolysis in acute myocardial infarction. *Am J Cardiol* 1991;68: 1410-1416.
25. Kern MJ, **Aguirre FV**. Ionic vs nonionic contrast agents. *Cathet Cardiovasc Diagn* 1991 Sep;24(1):71-2.
26. Kern MJ, Roth RA, **Aguirre FV**, Beauman G, Vogel R. Effect of viscosity and iodine concentration of nonionic radiographic contrast media on coronary arteriography in patients. *Am Heart J* 1992;123:160-165.
27. Tatineni S, Kern MJ, **Aguirre F**. The effect of ergonovine on coronary vasodilatory reserve in patients with angiographic normal coronary arteries. *Am Heart J* 1992;123: 617-620.
28. Kern MJ, **Aguirre F**. Coronary blood flow alternans: a unique examination of coronary physiology and influence of intra-aortic balloon pumping. *Am Heart J* 1992;123:1369-1373.
29. Tatineni S, Kern MJ, **Aguirre F**, Donohue T, Bell C. Angiographic identification of malpositioned balloon catheters during mitral valvuloplasty. *Cathet Cardiovasc Diagn* 1992; 25:235-240.
30. Flynn MS, Kern MJ, **Aguirre F**, Donohue T, Bach R. Management of a complicated pericardiocentesis. *Cathet Cardiovasc Diagn* 1992;25:249-252.
31. Donohue T, **Aguirre F**, Miller L, Kern MJ. Angiographic and intracoronary flow velocity reversal in a transplanted heart: a common etiology for an uncommon condition. *Am Heart J* 1992;123:1374-1377.35.
32. Kern MJ, **Aguirre FV**, Hilton TC. Interpretation of cardiac pathophysiology from pressure waveform analysis: effects of nitroglycerin. *Cathet Cardiovasc Diagn.* 1992 Mar;25(3);241-8.
33. Tatineni S, Kern MJ, **Aguirre F**, Donohue T, Bach R, Bell C. The usefulness of a tracking catheter in complex coronary angioplasty. *Cathet Cardiovasc Diagn* 1992;27:75-81.
34. Topol EJ, Califf RM, Vandormael M, Grines CL, George BS, Sanz ML, Wall T, O'Brien M, Schwaiger M, **Aguirre FV**, et al. A randomized trial of late reperfusion therapy for acute myocardial infarction. Thrombolysis and Angioplasty in Myocardial Infarction-6 Study Group. *Circulation.* 1992 Jun;85(6):2090-9.

35. Donohue T, Kern MJ, Wolford T, Bach R, **Aguirre F**, Miller L. The effects of epicardial coronary spasm on intracoronary flow velocity and pressure gradient in a patient after cardiac transplantation. *Am Heart J* 1992;124:1645-1648.
36. Castello R, Lenzen P, **Aguirre FV**, Labovitz AJ. Quantitation of mitral regurgitation by color flow Doppler and transesophageal echocardiography: correlation with cardiac catheterization. *J Am Coll Cardiol* 1992;19:1516-1521.
37. Sharma A, Kern MJ, Callicot P, **Aguirre F**, Labovitz A, Willman VL. Severe subpulmonic outflow obstruction caused by aneurysm of the membranous ventricular septum: diagnosis by transesophageal echocardiography. *Am Heart J* 1992;123:810-814.
38. Kern MJ, **Aguirre FV**. Interpretation of cardiac pathophysiology from pressure waveform analysis: pericardial compressive hemodynamics, Part I. *Cathet Cardiovasc Diagn.* 1992 Apr;25(4):336-42.
39. Kern MJ, **Aguirre FV**. Interpretation of cardiac pathophysiology from pressure waveform analysis pericardial compressive hemodynamics, Part II. *Cathet Cardiovasc Diagn* 1992 May; 26(1):34-40.
40. Topol EJ, Califf RM, Vandormael M, Grines CL, George BS, Sanz ML, Wall T, O'Brien M, Schwaiger M, **Aguirre FV**, Young S, Popma JJ, Sigmon KN, Lee KL, Ellis SG, the Thrombolysis and Angioplasty in Myocardial Infarction-6 Study Group (TAMI VI). A randomized trial of late reperfusion therapy for acute myocardial infarction. *Circulation* 1992;85:2090-2099.
41. Tatineni S, Kern MJ, Deligonul U, **Aguirre F**. The effects of ionic and non-ionic radiographic contrast media on coronary hyperemia in patients during coronary angiography. *Am Heart J* 1992;123:621-627.
42. Hsia J, Kleiman N, **Aguirre FV**, Chaitman BR, Roberts R, Ross AM. Heparin-induced PTT prolongation after thrombolysis: relationship to coronary patency. *J Am Coll Cardiol* 1992;20:31-35.
43. Castello R, Lenzen P, **Aguirre F**, Labovitz A. Variability in the quantitation of mitral regurgitation by color flow Doppler: comparison between transthoracic and transesophageal studies. *J Am Coll Cardiol* 1992;20:433-438.
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