

**Francisco A. Arabía,  
MD CURRICULUM  
VITAE**

**(as of 7/16/18)**



**PERSONAL CONTACT INFORMATION**

Banner University Medical Group  
2901 N. Central Ave., Suite 160  
Phoenix, AZ 85012  
[francisco.arabia@bannerhealth.com](mailto:francisco.arabia@bannerhealth.com)

**EDUCATION**

1979	BS, Biomedical Engineering (magna cum laude) Tulane University
05/1983	MD University of Pennsylvania School of Medicine
2004 – 2006	MBA University of Arizona
07/1983 - 06/1984	Internship, General Surgery Tulane University Affiliated Hospitals, New Orleans, LA
07/1984 - 06/1985	Residency, General Surgery Tulane University Affiliated Hospitals, New Orleans, LA
07/1985 - 06/1987	Clinical Associate, Surgical Branch National Heart, Lung, and Blood Institute, National Institutes of Health
07/1987 - 06/1989	Residency, General Surgery Tulane University Affiliated Hospitals, New Orleans, LA
07/1989 - 06/1990	Chief Resident, General Surgery Tulane University Affiliated Hospitals, New Orleans, LA
07/1990 - 06/1991	Residency, Cardiothoracic Surgery University of Arizona, Tucson
07/1991 - 06/1992	Chief Resident, Cardiothoracic Surgery University of Arizona, Tucson

## **ADDITIONAL EDUCATION**

1996	Surgical Management of End Stage Cardiac Failure (partial left ventriculectomy) Training and hands-on experience Brazil
2000	LionHeart Completed Training Hershey, Pennsylvania
2000	Implantation of the Abiomed Total Artificial Heart Seminar and hands on training Louisville, Kentucky
2001	CO2 Transmyocardial Laser Revascularization (TMR) Completed Training Rush-Presbyterian - St Luke's Medical Center Chicago, Illinois
2002	AbioCor Total Artificial Heart Completed Training William Harvey Conference Center, ABIOMED Facility Danvers, Massachusetts
2012 – Present	American Heart Association (AHA) Advanced Cardiovascular Life Support (ACLS)

## **LICENSURE**

06/1983	Licensee, Medical Board of Louisiana, L017468
10/1985	Licensee, Medical Board of Maryland, D33006
07/1992	Licensee, Puerto Rico Commonwealth, 10685
02/1994 – Present	Licensee, Medical Board of Arizona, 22135
09/2012 – Present	Licensee, Medical Board of California, C55501
05/2013 – Present	Drug Enforcement Administration
02/2014 – Present	Licensee, California Department of Public Health (Fluoroscopy)

## **BOARD CERTIFICATION**

1992 – Present	American Board of Surgery Diplomate
1994 – Present	American Board of Thoracic Surgery Thoracic Surgery

## PROFESSIONAL EXPERIENCE

1992 – 1993	Private Practice - San Pablo Cardiovascular, San Juan, Puerto Rico
1994 – 1999	Assistant Professor - Cardiothoracic Surgery, University of Arizona, Tucson, Arizona
1996 – 2005	Medical Director - MOBI Transport Program Mobile intensive care
1997 – 2005	Consultant - UMC Phoenix Transplant Clinic, Phoenix, Arizona
1997 – 2005	Surgical Director - Lung Transplant Program, University of Arizona, Tucson, Arizona
1997 – 2012	Faculty (non-salaried) - Biomedical Engineering Department, University of Arizona, Tucson, AZ
1998 – 2005	Co-Director - Marshall Foundation Artificial Heart Program
1999 – 2005	Associate Professor - Cardiothoracic Surgery, University of Arizona, Tucson, Arizona
2000 – 2005	Surgical Director - Neonatal ECMO Program, University of Arizona, Tucson, Arizona
2004 – 2005	Physician Leader, Cardiovascular Program - University Medical Center, Tucson, Arizona
2005 – 2012	Surgical Director - Heart Transplant Program, Division of Cardiovascular and Thoracic Surgery, Department of Surgery, Mayo Clinic, Scottsdale, Arizona
2005 – Present	Professor of Surgery - Cardiothoracic Surgery, University of Arizona, Tucson, AZ
2006 – 2012	Professor of Surgery - College of Medicine, Mayo Clinic
2006 – 2012	Chair - Division of Cardiovascular and Thoracic Surgery, Department of Surgery, Mayo Clinic, Phoenix, Arizona
2012 – 2013	Acting Professor of Surgery Cedars-Sinai Medical Center, Los Angeles CA
2012 – 05/18	Surgical Director – Mechanical Circulatory Support Program Cedars-Sinai Medical Center, Los Angeles CA
2012 – 05/18	Director – CSHI Center for Surgical Device Management of Advanced Heart Disease

Cedars-Sinai Medical Center, Los Angeles CA

2013 – 05/18      Professor of Surgery  
 Cedars-Sinai Professorial Series  
 Cedars-Sinai Medical Center, Los Angeles, CA

2014 – 05/18      Health Sciences Clinical Professor  
 David Geffen School of Medicine  
 University of California Los Angeles

2015 – 05/18      Associate Director  
 Comprehensive Transplant Center  
 Cedars-Sinai Medical Center, Los Angeles, CA

2016 – 2017      Co-Director – Division of Cardiothoracic Surgery  
 Cedars-Sinai Medical Center, Los Angeles, CA

2017 – 05/18      Associate Director – Division of Cardiothoracic Surgery  
 Cedars-Sinai Medical Center, Los Angeles, CA

07/18 – Present    Physician Executive – Advanced Heart Program  
 Banner University Medical Group, Phoenix, AZ

## **EDUCATION AND TRAINING**

### Education on Total Artificial Heart

1. Sharp Memorial Hospital, San Diego – 1996
2. Cleveland Clinic Foundation - 2005
3. University of Maryland – 2006
4. Mayo Clinic Jacksonville – 2007
5. Integris Medical Center – 2010
6. Ohio State University - 2011
7. USC Keck Hospital – 2011
8. UPMC – University of Pittsburgh Medical Center – 2011
9. University of Washington – 2011
10. Texas Children’s Hospital – 2011
11. Texas Heart Institute – 2011
12. Montefiore Medical Center, NY – 2011
13. Columbia University Medical Center – New York Presbyterian – 2011
14. Cedars-Sinai Medical Center, Los Angeles – 2011
15. Allegheny General Hospital – 2011
16. Phoenix Children’s Hospital – 2012
17. Ochsner Medical Center, New Orleans – 2012
18. University of Minnesota – 2012
19. UCLA Medical Center – 2012
20. University of Kentucky - 2012
21. Mayo Clinic Rochester – 2012

22. Children's Hospital of Wisconsin – 2012
23. Jewish Hospital and St Mary's at University of Louisville – 2012
24. Cincinnati Children's Hospital – 2012
25. Children's Hospital of Philadelphia – 2012
26. Baylor University Medical Center Dallas – 2012
27. Inova Fairfax Hospital – 2013
28. Boston's Children Hospital – 2014
29. Children's Medical Center, Dallas – 2014
30. Seattle's Children Hospital – 2014
31. University of Wisconsin – 2014
32. Henry Ford Hospital, Detroit MI – 2015
33. Carolinas Medical Center – 2015
34. Duke University – 2015
35. Banner University of Arizona – 2015
36. Multi-Center – 2015
37. PeaceHealth Bellingham – 2015
38. University of Utah – 2015
39. University of Alberta / Stollery Children's – 2016
40. University of Rochester / Strong Memorial Hospital – 2016
41. Texas Heart Institute – 2016
42. Texas Heart Institute – 2016
43. Texas Children's Hospital – 2016
44. Hospital University of Pennsylvania (HUP) – 2016
45. University of Kentucky Medical Center – 2016
46. University of Alabama Medical Center – 2016
47. University of Nebraska – 2017
48. Baptist Medical Center Little Rock – 2017
49. Baylor University Medical Center, Dallas – 2017
50. Ohio State University – 2017
51. Intermountain Medical Center – 2017
52. University of Washington – 2017
53. Jackson Memorial Medical Center – 2017
54. University of Virginia – 2017
55. Memorial Regional Hospital Hollywood, FL – 2017
56. Allegheny Medical Center – 2017
57. Baptist Memorial Hospital, Memphis TN – 2017
58. University of Rochester – 2017
59. Texas Heart Institute – 2017 (BiVACOR TAH x 2)
60. Multi-Center – 2017
61. Multi-Center – 2017
62. Henry Ford Hospital, Detroit, MI – 2017
63. Institute of Clinical and Experimental Medicine, Prague, Czech Republic – 2017 (CARMAT TAH)
64. Integris Baptist Medical Center OKC - 2018

#### Education on HeartWare Left Ventricular Assist Device

1. Texas Heart Institute; Children's Hospital of Colorado; Baylor Dallas TX;

VA Madison, WI; UT Houston, TX; University of Utah; Vanderbilt University – 2013

2. Intermountain Medical Center; University of Chicago; University of Michigan; University of Alabama; Johns Hopkins University; Ochsner Medical Center; Sutter Memorial Medical Center; UC san Diego; Oregon Health and Science Center; Rady Children’s Hospital
3. Stanford Medical Center, Mayo Clinic Phoenix, Sacred Heart, Spokane WA – 2014
4. Seoul, Korea training at Cedars-Sinai – 2014
5. Kaiser Medical Center, Los Angeles, CA 2015
6. University of California, Irvine – 2015
7. PeaceHealth Bellingham, Bellingham, WA – 2017
8. National Taiwan University Medical Center, Taipei, Taiwan - 2017

#### Education on Thoratec Centrimag

1. Hoag Memorial Hospital, Long Beach Memorial Hospital, Orange Coast Memorial Hospital, Nevada Heart & Vascular Institute - 2013

#### **OUTREACH / INTER-FACILITY NEGOTIATION AND CONTRACTING**

1. Phoenix Children Hospital, Phoenix AZ and Cedars Sinai Medical Center agreement to provide MCS Consulting Services. 2013 – Present
2. PeaceHealth St. Joseph Medical Center, Bellingham WA and Cedars Sinai Medical Center agreement to provide MCS Consulting services. 2015 – Present
3. St. Joseph’s Hospital and Medical Center Dignity Health Phoenix, AZ and Cedars-Sinai Medical Center agreement to provide MCS Consulting Services. 2015 – Present

#### **CEDARS-SINAI INTRAMURAL ACTIVITIES**

1. Director, CSHI Center for Surgical Device Management of Advanced Heart Disease. 2012 – Present
2. Director, Mechanical Circulatory Support Program. 2012 – Present
3. Co-Director, ECMO Program. 2013 – Present
4. Surgical Director, Cardiothoracic Intensive Care Unit. 2014 – Present
5. Chair, OR Task Force Committee. 2014 – Present
6. Associate Director, Comprehensive Transplant Center. 2015 – Present
7. Project Leader, CSICU Quality Council. 2016 – Present

8. ECMO Task Force. 2016 – Present
9. Mobile Intensive Care Unit ECMO & Short-Term Devices. 2016 – Present
10. Joint Commission Preparatory Committee. 2017 – Present

## **PROFESSIONAL ACTIVITIES**

1979	St. Jude Medical Corporation Consultant
1978 – Present	Tau Beta Pi, The Engineering Honor Society Member
1978 – 1979	Tulane Biomedical Engineering Society Chair
1988 – 1990	Tulane University School of Medicine Physical Diagnosis Instructor
1993 – Present	Andrew Morrow Society of Cardiovascular Surgeons Member
1994 – Present	American College of Cardiology Fellow
1994 – Present	American College of Surgeons Fellow
1994 – Present	American Society for Artificial Internal Organs Member
1994 – Present	Society of Thoracic Surgeons Member
1994 – Present	United Network for Organ Sharing (UNOS) Member
1995 – Present	International Society For Heart and Lung Transplantation Member
1997 – 2005	Association for the Advancement of Medical Instrumentation Member
1997 – 2005	Southwest Oncology Group Member
1999 – Present	Region 5 Thoracic Regional Review Board UNOS Member

2002 – 2005	Donor Network of Arizona Board of Directors Member
2010 – Present	American Association for Thoracic Surgery Member
2010 – Present	Council on Mechanical Circulatory Support, ISHLT Member
2010 – Present	Interagency Registry for Mechanically Assisted Circulatory Support Data Access, Analysis & Publications Committee Member
2015 – Present	International Editorial Review Board of Case Studies in Surgery (CSS) Member
2016 – Present	Western Thoracic Surgical Association Member
2016 – Present	ISHLT Registry for Mechanically Assisted Circulatory Support (IMACS) Executive Board Member
2017 – Present	Medtronic Independent Practitioner Quality Panel on Mechanical Circulatory Support Member

University Medical Center, Tucson

1994 – 2005	Intensive Care Committee Member
1996 – 1998	Medical Executive Committee Member-at-Large
1996 – 2005	Blood Utilization Committee Member
1999 – 2005	Operating Room Committee Member

University of Arizona

1998 – 2005	Biomedical Engineering Department Interdisciplinary Graduate Program Member
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### University of Arizona

1994 – 1996	Finance Committee Member
1995 – 1996	Peer Review Committee Member
1995 – 1996	Self-Study Committee, Academic Review Program Member
1996 – 2005	Clinical Research Oversight Committee Member
2002 – 2005	Department of Surgery Administrative Cabinet Committee Member
2004 – 2005	College of Medicine Steering Committee Member
2004 – 2005	Liaison Committee, Department Chairman Search

### Cedars-Sinai

1/2013 – Present	Executive Transplant Committee 1/2013
– Present	MCS Operation Committee
2/2016 – Present	Department of Surgery Executive Committee

### Community Memberships & Services

2010 – Present	Arizona Astronomy Board University of Arizona Steward Observatory Board Member
2010 – 2012	Phoenix Public Library Foundation Board Member

### **JOURNAL RESPONSIBILITIES**

1998 – Present	Journal of Heart and Lung Transplantation Journal Referee
1998 – Present	Annals of Thoracic Surgery

	Journal Referee
2012 – Present	ASAIO Journal Reviewer
2013 – Present	Journal of Cardiovascular and Thoracic Surgery Reviewer

## **EDUCATIONAL ACTIVITIES**

09/20/2003	<u>Teaching</u> Abiomed Training Laboratory for Cardiothoracic Surgeons Arizona
10/02/2003	Surgical management of end stage heart disease Mayo Clinic Arizona Scottsdale, Arizona
04/2005	Surgical management for end stage disease Mayo Clinic Hospital Scottsdale, Arizona

### Mentorship

1996 – 1997	Wilson, Don (Masters Student) Description: Master Dissertation on The Effects of Perfluorocarbon Blood Substitute Emulsions on Leukocyte Function in Vivo.
1997	Gawley, Bryan (Pre-Med Student) 1997 –
1998	Cerney, Kristin (Masters Student) Description: Masters Dissertation for University of Arizona perfusion student on The Effects of Hyperoxia on Leukocyte Function within an in Vitro Model of Extracorporeal Circulation
1997 – 1998	Jablonowski, Kurt (Masters Student) Description: Master Dissertation for University of Arizona perfusion student on Effects of Pentoxifyline in Heterotopic Rat Heart Transplant Model as a Function of its Potential as a Nitric Oxide Synthase Inhibitor
1998	Tsau, Pei H (Trainee) Description: Mentor at American Society for Artificial Internal Organs
1998	Moenning, Megan (Student) Description: University of Arizona Clinical Medicine preceptee
2002 – 2003	Dobson, Victoria (Masters Student) Description: Master Dissertation for University of Arizona perfusion

student on Effects of IL-10 on Extra Cellular Matrix Gene Expression by Cardiac Fibroblasts

- 2002 – 2003 Pierce, Christopher (Masters Student)  
Description: Master Dissertation for University of Arizona perfusion student on The role of Proinflammatory Cytokines in Chronic Anemia Disease with VAD Supported Patients
- 2003 Freeland, Shea (Student)  
Description: University of Arizona Longitudinal Clinical Curriculum preceptee
- 2006 Agwai, Abigail (Graduate Student)  
Description: Master Dissertation on Preliminary Hydrodynamic Investigation of a Mechanical Bileaflet Heart Valve
- 2013 – 2017 Hou, Margaret (Med Student)
- 2017 – Present Kleinheyser, Matthias (PhD Candidate)  
Description: Pulsatile Rotary TAH

## **ACADEMIC CAREER DEVELOPMENT**

- 09/08 – 09/10/2011 International Society for Rotary Blood Pumps  
Louisville, Kentucky
- 09/12 – 09/13/2011 Intermacs  
Birmingham, Alabama
- 09/29 - 10/01/2011 Fourth International Heart Failure Forum  
Belgrade, Serbia
- 12/01 - 12/04/2011 3rd Annual International Congress of Cardiology  
Beijing, People's Republic of China

## **HONORS/AWARDS**

- 01/1979 Magna Cum Laude - Tulane University
- 1979 – 1980 Citizenship Award (for extraordinary contributions to the Department of Biomedical Engineering) - Tulane University
- 01/1994 Who's Who Directory of Medical Specialists
- 01/1996 ASAIO/Lippincott-Raven Book Award for Abstract entitled, "Success Rates of Long Term Circulatory Assist Devices Currently Used for Bridge

to Heart Transplantation

- 01/1996 Yoshioka & Akutsu Price for abstract entitled, "Patient Selection for Successful Outcome with the CardioWest Total Artificial Heart as a Bridge to Heart Transplantation"
- 1998 Training Award of Excellence - American Society for Artificial Internal Organs
- 01/2005 - 01/2006 Best Doctors in America

### **GRANTS SUBMITTED**

1. Principal Investigator, Outcomes and Adverse Events for Total Artificial Heart as Bridge to Transplantation. INTERMACS Database. In Progress. 2015
2. Principal Investigator, Outcomes, adverse Events and Quality of Live for Intracorporeal, biventricular, centrifugal pumps. INTERMACS Database, pending review August 2015

### **RESEARCH GRANTS AWARDED**

#### **Principal Investigator**

1. Principal Investigator, National Study, SynCardia 50 cc Total Artificial Heart for Bridge to Transplantation. 2015 – Present
2. Medical Monitor, National Study, SynCardia Total Artificial Heart for Destination Therapy  
2015 – Present
3. Principal Investigator, HeartMate III LVAD Clinical Trial. 2015 - Present
4. Principal Investigator, HeartWare LVAD Lateral Study. 2014 – Present
5. Program Director / Principal Investigator  
The HeartMate II Left Ventricular Assist System (LVAS) Pivotal Study Protocol (Destination Therapy). Funded by Thoratec Corporation.  
04/2006 - 03/2012
6. Program Director / Principal Investigator  
08-003872/CentriMag® VAS Failure-to-Wean from Cardiopulmonary Bypass Trial. Funded by Thoratec Corporation  
11/2008 - 10/2009
7. Program Director / Principal Investigator  
08-005361/Evaluation of the VentrAssist™ Left Ventricular Assist Device as

a Bridge to Cardiac Transplantation – Pivotal Trial in: Evaluation of the VentrAssist™ Left Ventricular Assist Device as a Bridge to Cardiac Transplantation – Pivotal Trial. Funded by Ventracor, Inc. (CLP06005)  
12/2008 - 11/2011

8. Program Director / Principal Investigator  
08-005401/VentrAssist™ - Destination Therapy in: Evaluation of the VentrAssist™ Left Ventricular Assist Device for the Treatment of Advanced Heart Failure – Destination Therapy. Funded by Ventracor, Inc. (CLP12082)  
12/2008 - 11/2014
9. Program Director / Principal Investigator  
09-004814/ Evaluation of the Safety and Effectiveness of the DuraHeart™ Left Ventricular Assist System in: Evaluation of the Safety and Effectiveness of the DuraHeart™ Left Ventricular Assist System. Funded by Terumo Cardiovascular Systems, Inc. (DH003)  
11/2009 - 11/2012
10. Program Director / Principal Investigator  
09-006472/ HW-003/ THE HEARTWARE® LEFT VENTRICULAR ASSIST DEVICE (LVAD) SYSTEM in: 09-006472/ HW-003/  
Replacement Budget: THE HEARTWARE® LEFT VENTRICULAR ASSIST DEVICE (LVAD) SYSTEM. Funded by HeartWare Inc. (N/A)  
01/2010 - 01/2017
11. Program Director / Principal Investigator  
09-007374/ CentriMag RVAS U.S. Post Approval Study (PAS) Protocol in: 09-007374 Replacement Budget/ CentriMag RVAS U.S. Post Approval Study (PAS) Protocol. Funded by Thoratec Corporation. (CentriMag RVAS)  
03/2010 - 03/2012
12. Program Director / Principal Investigator  
10-005239/ A Prospective, Randomized, Controlled, Un-blinded, Multi-Center Clinical Trial to Evaluate the HeartWare® Ventricular Assist System for Destination Therapy of Advanced Heart Failure. Funded by HeartWare Inc. (HW-004)  
10/2010 - 10/2016
13. Principal Investigator  
The Relationship between Serum Levels of Soluble Cell Adhesion Molecules and the Development of Multiple Organ Failure in Patients implanted with Cardiac Assist Devices. Funded by University Heart Center.  
01/1995 - 12/1995
14. Principal Investigator  
Relationship Between Cavitation in Mechanical Heart Valves, Artificial Hearts and High Frequency Ultrasonic Signals. Funded by American Heart Association Grant-In-Aid.  
01/1996 - 12/1996

15. Principal Investigator  
CMV disease in CMV mismatched heart transplant patients. The impact of CytoGam on the incidence and severity of CMB disease in CMV high risk thoracic organ transplant recipients. Funded by CytoGam.  
01/1997 - 12/1997
16. Principal Investigator  
Interagency Registry of Mechanically Assisted Circulatory Support (INTERMACS DEVICE REGISTRY). (07-002278)  
04/2007 - 02/2013
17. Principal Investigator  
Levitronix CentriMag VAS: Failure-to-Wean from Cardiopulmonary Bypass Pivotal Trial. Levitronix. (08-003872)  
10/2008 - 09/2013
18. Principal Investigator  
Evaluation of the Heartware® Left Ventricular Assist Device (LVAD) System. HeartWare, Inc. (09-006472)  
12/2009 - 09/2013
19. Principal Investigator  
CentriMag RVAS U.S. Post Approval Study (PAS) Protocol. Levitronix LLC. (09-007374)  
03/2010 - 02/2013
20. Principal Investigator  
A Prospective, Randomized, Controlled, Un-blinded, Multi-Center Clinical Trial to Evaluate the HeartWare® Ventricular Assist System for Destination Therapy of Advanced Heart Failure. HeartWare, Inc. (10- 005239)  
09/2010 - 08/2013
21. Principal Investigator  
The HeartMate II LVAS Pivotal Study Protocol. Thoratec Corporation. (06-003537)  
06/2006 - 07/2012
22. Principal Investigator  
INTERMACS (Interagency Registry for Mechanically Assisted Circulatory Support). (06-005994)  
11/2006 - 10/2007
23. Principal Investigator  
Evaluation of the VentrAssist Left Ventricular Assist Device for the Treatment of Advanced Heart Failure - Destination Therapy - CLP12082. Ventracor Inc. (08-005401)  
11/2008 - 07/2009

24. Principal Investigator  
Evaluation of the VentrAssist Left Ventricular Assist Device as a Bridge to Cardiac Transplantation - Pivotal Trial - CLP06005. Ventracor Inc. (08-005361)  
11/2008 - 06/2009
25. Principal Investigator  
MCA Evaluation of the Safety and Effectiveness of the DuraHeart™ Left Ventricular Assist System in Patients Awaiting Transplantation. Terumo Heart, Inc. (09-004814)  
11/2009 - 01/2012
26. Principal Investigator  
Interagency Registry of Mechanically Assisted Circulatory Support (INTERMACS DEVICE REGISTRY). (CACS-0178)  
04/2014 – present

**Co-Investigator**

1. Co-Investigator  
In Vivo Matured Vascular Grafts for Coronary Artery Bypass Grafting. Funded by University Heart Center.  
01/1996 - 12/1997  
Industry
2. Co-Investigator  
A cardiology/CT surgery study testing the effect of NA\*/H\* inhibitor on MI, high risk myocardial necrosis. Funded by Guardian Trial: Cariporide.  
01/1998 - 12/1998
3. Co-Investigator  
A phase 3 dose escalation study to evaluate safety and efficacy for the prevention and/or amelioration of acute renal failure in patients with renal impairment who are undergoing elective cardiovascular surgical procedures in U.S. sites. Funded by Freedox Clinical Trial.  
01/1998 - 12/1998  
MAYO IRB PROTOCOLS  
Active
4. Co-Investigator  
Grigore/06-008774/DX-88 (Ecallantide) for the Reduction of Blood Loss Associated with Cardiopulmonary Bypass: A Phase 2 Randomized, Double-Blind, Placebo-Controlled, Multicenter Study in Patients Undergoing Primary Coronary Artery Bypass Grafting, Single in: DX-88 (Ecallantide) for the Reduction of Blood Loss Associated with Cardiopulmonary Bypass: A Phase 2 Randomized, Double-Blind, Placebo-Controlled, Multicenter Study in Patients Undergoing Primary Coronary Artery Bypass Grafting, Single Valve Repair or Si. Funded by Dyax Corporation.

01/2008 - 12/2009

5. Co-Investigator  
08-005619/Quark QRK.004/ INTRAVENOUS I5NP in: QRK.004/ A PHASE I, RANDOMIZED, DOUBLE-BLIND, DOSE ESCALATION TRIAL OF THE SAFETY AND PHARMACOKINETICS OF A SINGLE INTRAVENOUS INJECTION OF I5NP IN PATIENTS AT HIGH RISK OF ACUTE KIDNEY INJURY UNDERGOING MAJOR CARDIOVASCULAR SURGERY. Funded by Quark Pharmaceuticals. (QRK.004)  
02/2009 - 01/2011  
Mayo Clinic
6. Co-Investigator  
07-005029/Boston Scientific, Development, Gift / 3-D CT for accessing airways and planning stent placement: Results, performance & follow-up in: The use of CT Bronchoscopy for planning stent placement. Funded by Development - Gifts from benefactors. (R07005)  
09/2009 - 09/2012  
Completed Grants  
Federal
7. Co-Investigator  
Mitochondrial dysfunction and susceptibility to Atrial Fibrillation in the Elderly. Funded by National Heart, Lung, and Blood Institute. (R01 R01 HL101240)  
04/2010 - 08/2011  
Foundation
8. Co-Principal Investigator  
Infection Database of Mechanical Circulatory Assist Device Recipients. no funds. (09-001079)  
03/2009 - 02/2013
9. Co-Principal Investigator  
Echo-Doppler characteristics of the SynCardia Total Artificial Heart. No Mayo funding required. (10-006326)  
09/2010 - 08/2013
10. Co-Investigator  
Thrombogram Testing in Cardiac Surgery Patients. (08-002594)  
06/2008 - 04/2013
11. Co-Investigator  
Characterization of microRNA Biomarkers in Cardiac Disease. (08-002826)  
09/2008 - 08/2013
12. Co-Investigator



Identifying microRNA biomarkers useful for early detection of recurrence in esophageal cancer patients. we are doing this ourselves. (09-000428)  
05/2009 - 04/2013

13. Co-Investigator  
Evaluation of Gastrointestinal Complications Following Cardiac Surgery.  
no funding required. (10-000745)  
04/2010 - 04/2013
14. Co-Investigator  
Arrhythmia Burden and Outcomes in Patients Receiving Left Ventricular Assist Device. No specific funds. (10-004046)  
06/2010 - 06/2013  
Completed
15. Co-Principal Investigator  
Review of artificial support devices. (08-003388)  
06/2008 - 05/2010
16. Co-Investigator  
Comparison of Intraoperative Cardiac Imaging Techniques – Real Time 3D Transesophageal Echocardiography and Real Time Epicardial 3D Echocardiography. (08-008466)  
01/1900 - 10/2010
17. Co-Investigator  
"Prospective Randomized Trial of Low Dose Oral Amiodarone Use in Preventing Atrial Fibrillation Following Pulmonary Resections". (948-02)  
09/2002 - 06/2007
18. Co-Investigator  
"An Open Label Extension Trial to Determine Safety and Efficacy of Long-Term Oral SPM 927 in Patients with Partial Seizures". (1435-05)  
07/2005 - 12/2009
19. Co-Investigator  
Cardio-Pulmonary Impairment and Post-Operative Results Following Pectus Repair. (06-006597)  
02/2007 - 09/2009
20. Co-Investigator  
KALAHARI 1: Kallikrein Antagonist (DX-88 [Ecallantide]) Effect on Blood Loss Associated with Heart Surgery Requiring Institution of Bypass. Dyax Corp. (06-008774)  
02/2007 - 02/2009
21. Co-Investigator  
Evaluation of the Incremental Value of the Real-Time 3D Intraoperative

Transesophageal Echocardiography in Cardiac Surgery: Comparison with the conventional 2D multiplane transesophageal echocardiography. (07-006533)  
10/2007 - 09/2008

22. Co-Investigator  
The use of CT Bronchoscopy for planning stent placement. Boston Scientific. (07-005029)  
10/2007 - 08/2012
23. Co-Investigator  
Retrospective chart review of patients who had left ventricular assist devices implanted at Mayo Clinic Arizona, Rochester and Jacksonville. (08-003808)  
07/2008 - 05/2012
24. Co-Investigator  
A Phase I, Randomized, Double-Blind, Dose Escalation Trial of the Safety And Pharmacokinetics of a Single Intravenous Injection of I5NP in Patients at High Risk of Acute Kidney Injury Undergoing Major Cardiovascular Surgery - QRK.004. Quark Pharmaceuticals, Inc. (08-005619)  
01/2009 - 10/2010
25. Co-Investigator  
Mitochondrial Dysfunction and Susceptibility to Atrial Fibrillation in the Elderly. NHLBI/ NIH. (09-007827)  
12/2009 - 12/2011
26. Co-Investigator  
The effect of active and passive range of motion on oxygen consumption in patients after coronary artery bypass graft (CABG) surgery. No funding required, routine collection of data during the course of a physical therapy treatment. (09-007579)  
04/2010 - 04/2012
27. Co-Investigator  
Impact of SynCardia Total Artificial Heart on Renal Function in Patients Bridged to Heart Transplant. No Mayo funds. (11-000073)  
09/2011 - 09/2012

## RESEARCH INTERESTS

- National Institutes of Health Clinical Associate, National Heart, Lung and Blood Institute, Surgery Branch, Bethesda, Maryland. Unanimously voted to participate in a two-year assignment with state-of-the-art techniques and equipment pertaining to heart surgery and artificial heart valves. Performed numerous studies in hemodynamics.

- Aerospace and Mechanical Engineering, University of Arizona  
Collaborating with Professor Erdogan Madenci on the study of mechanical circulatory devices.
- 1996 - Left Partial Ventriculectomy. Patients with dilated cardiomyopathy (viral and idiopathic) that have been accepted for heart transplantation. Principle investigator. 100% effort. (Internal project. Reimbursement waived)
- CardioWest-TAH. Implantation of NYHA Class IV patients. Co-Principal Investigator. 50% effort. CardioWest Technologies, Inc. is a non-profit organization with no available research capital. Unfunded trial.
- IRB #07-002278. Intermacs. (Interagency Registry of Mechanically Assisted Circulatory Support) Opened in 2007. Approved.
- IRB #09-004814. Terumo Duraheart. Approved.
- IRB #09-006472. HeartWare. Approved.

## PRESENTATIONS

- 06/87 Doppler derived pressure difference. Invitro studies of artificial heart valves. National Heart, Lung & Blood Institute, NIH. Bethesda, MD.
- 10/88 Congenital heart disease: An overview. General Surgery Residents Conference, Department of Surgery, Tulane University. New Orleans, LA.
- 10/88 Surgical management of burn patients. General Surgery Residents Conference, Department of Surgery, Tulane University. New Orleans, LA.
- 12/88 Acquired heart disease: An overview. General Surgery Residents Conference, Department of Surgery, Tulane University. New Orleans, LA.
- 04/89 Venous disease of the lower extremities. Surgical Grand Rounds, Department of Surgery, Tulane University. New Orleans, LA.
- 09/89 Surgical infections. General Surgery Residents Conference, Department of Surgery, Tulane University. New Orleans, LA.
- 10/89 Diseases of the small intestine. General Surgery Residents Conference, Department of Surgery, Tulane University. New Orleans, LA.
- 01/90 Peutz-Jeghers Syndrome. Patient presentation and discussion. Surgical Grand Rounds, Department of Surgery, Tulane University. New Orleans, LA.
- 08/90 Thymoma & Myasthenia Gravis. Cardiothoracic Surgery Conference, Section of Cardiovascular & Thoracic Surgery, University of Arizona. Tucson, AZ.

- 10/90 Thoracic Trauma I. Cardiothoracic Surgery Conference, Section of Cardiovascular & Thoracic Surgery, University of Arizona. Tucson, AZ.
- 11/90 Thoracic Trauma II. Cardiothoracic Surgery Conference, Section of Cardiovascular & Thoracic Surgery, University of Arizona. Tucson, AZ.
- 12/90 Thoracic Trauma III. Cardiothoracic Surgery Conference, Section of Cardiovascular & Thoracic Surgery, University of Arizona. Tucson, AZ.
- 02/91 Preoperative assessment for lung resection. Cardiothoracic Surgery Conference, Section of Cardiovascular & Thoracic Surgery, University of Arizona. Tucson, AZ.
- 05/91 Cardiac and pericardiac tumors. Cardiothoracic Surgery Conference, Section of Cardiovascular & Thoracic Surgery, University of Arizona. Tucson, AZ.
- 06/91 Mesothelioma: Diagnosis and management. Cardiothoracic Surgery Conference, Section of Cardiovascular & Thoracic Surgery, University of Arizona. Tucson, AZ.
- 06/91 Design & testing of mechanical heart valves. Cardiothoracic Surgery Conference, Section of Cardiovascular & Thoracic Surgery, University of Arizona. Tucson, AZ.
- 03/92 Pulmonary tuberculosis and the Thoracic Surgeon. Cardiothoracic Surgery Conference, Section of Cardiovascular & Thoracic Surgery, University of Arizona. Tucson, AZ.
- 05/92 Surgical management of Bullous Emphysema. Cardiothoracic Surgery Conference, Section of Cardiovascular & Thoracic Surgery, University of Arizona. Tucson, AZ.
- 06/92 Palliative procedures for congenital heart disease. Cardiothoracic Surgery Conference, Section of Cardiovascular & Thoracic Surgery, University of Arizona. Tucson, AZ.
- 10/93 Hemodynamic monitoring. Cardiothoracic Surgery Conference. University of Arizona. Tucson, AZ.
- 10/93 Advances in cardiac surgery. Cardiology Conference. Phoenix Veterans Administration Medical Center. Phoenix, AZ.
- 04/94 Cardiothoracic transplantation: New horizons for the 21st century. Sixth Annual Symposium - Research to Clinical Relevance. University of Arizona, Department of Pediatrics. Tucson, AZ.
- 05/94 Indications for cardiothoracic transplantation. Cardiothoracic Surgery Conference. University of Arizona, Section of Cardiovascular and Thoracic

Surgery. Tucson, AZ.

- 10/94 Symbion biventricular assist device, Novacor left ventricular assist device, and total artificial heart as a bridge to heart transplantation: The University of Arizona experience. Society of Thoracic Surgeons Circulatory Support Conference. Pittsburgh, PA.
- 11/94 Advances in the artificial heart. University of Arizona, Molecular and Cell Biology Club. Tucson, AZ.
- 12/94 Circulatory support: Bridge to transplant. ASAIO Cardiovascular Science and Technology Conference. Washington, D.C.
- 12/94 Update on CardioWest: A celebration of the Marshall Foundation Artificial Heart Program. University Medical Center. Tucson, AZ.
- 12/94 Circulatory support: Bridge to transplant. Grand Rounds. University of Maryland, Department of Surgery. Baltimore, MD.
- 09/95 International experience with the CardioWest Total Artificial Heart as a bridge to heart transplantation -Mechanical circulatory support 1995, International Symposium. Bad Oeynhausen, Germany.
- 10/95 Overview of cardiac and lung transplant. Transplant Workshop. University Medical Center. Tucson, AZ.
- 10/95 Cardiac assist devices and heart transplantation. Association for Operating Room Nurses. Tucson, AZ.
- 12/95 Surgery of non-small cell lung carcinoma. Radiation Oncology Teaching Conference University Medical Center. Tucson, AZ.
- 03/96 The CardioWest Total Artificial Heart as a bridge to heart transplantation - An update 60th Annual Scientific Meeting of Japanese Circulation Society. Osaka, Japan.
- 05/96 Cost analysis of the Novacor LVAS as an outpatient bridge to heart transplant. ASAIO 42nd Annual Conference Cardiovascular Science and Technology Conference. Washington, D.C.
- 05/96 Success rates of long term circulatory assist devices currently used for bridge to heart transplant. ASAIO 42nd Annual Conference Cardiovascular Science and Technology Conference. Washington, D.C.
- 06/97 CardioWest Total Heart: A retrospective controlled study. 11th World Congress of the International Society for Artificial Organs. Providence, RI.
- 06/97 Ventricular remodeling for CHF. 8th Annual Cardiovascular and Stroke Update. Tucson, AZ.

- 09/97 Initial results with heart reduction surgery. Exploring options with transplantation: An endless challenge. United Resource Network. Minneapolis, MN.
- 10/97 Implantation technique for the CardioWest Total Artificial Heart. Society of Thoracic Surgeons - The Fourth International Conference on Circulatory Support Devices for Severe Cardiac Failure. Houston, TX.
- 11/97 Surgical management of congestive heart failure. Lipid and Heart Failure Preceptorship. Tucson, AZ.
- 01/98 New surgical options for end stage heart disease. American Heart Association, Cardiovascular Preceptorship and Training. Tucson, AZ.
- 01/98 New surgical techniques, Make yours a future free of heart disease. University Heart Center. Tucson, AZ.
- 02/98 Heart transplantation: Current status. United Resource Network Transplant Conference. La Jolla, CA.
- 03/98 Surgical therapies for end-stage heart disease. Department of Surgery, Zukoski Lecture. Tucson, AZ.
- 04/98 Criteria for selecting type of bridge to heart transplantation, The University of Arizona Experience. International Society for Heart and Lung.
- 04/98 Infections with the CardioWest Total Artificial Heart. 44th Annual Conference and Exposition – ASAIO. New York, NY.
- 05/98 Intraoperative plasmapheresis during cardiac transplantation of a patient with high panel reactive antibodies and on a total artificial heart. Annual Meeting of the American Society for Apheresis. St. Petersburg, FL.
- 06/98 Bridge to heart transplantation. University of Maryland. Baltimore, MD.
- 08/98 Management of patients with low ejection fraction. Columbia Northwest Hospital. Tucson, AZ.
- 10/98 Patient selection for mechanical circulatory support. Novacor LVAS Investigator's Meeting.
- 10/98 Surgical therapies for end-stage heart disease. Green Valley Heart Series. Green Valley, AZ.
- 12/98 Patient selection for mechanical circulatory support. Heart Transplant Conference, Stanford University. Palo Alto, CA.

- 11/99 Mechanical circulatory support. University of Arizona, Neurology Grand Rounds. Tucson, AZ.
- 11/99 Heart failure: Role of artificial cardiac devices. University of Arizona, Cardiothoracic Surgery Teaching Conference. Tucson, AZ.
- 02/00 Mechanical circulatory support. AHCCCS, Medical Director's Committee Meeting. Phoenix, AZ.
- 03/01 Treating heart failure: An update on mechanical devices. United Resource Networks. Scottsdale, AZ.
- 04/01 VAD's gone bad. International Society for Heart and Lung Transplantation. Vancouver, British Columbia, Canada.
- 06/01 Heart failure 2001: State of the art. American College of Cardiology. Bethesda, MD.
- 09/01 Artificial organ support: A bridge to transplantation or a cure? United Resource Networks, 10th Annual National Clinical Conference. Minneapolis, MN.
- 11/01 Patient selection and timing of implant. International Society for Heart and Lung Transplantation, Fall Education Meeting Mechanical Cardiac Support and Replacement II Symposium. Anaheim, CA.
- 11/01 Implantation of the CardioWest TAH. International Society for Heart and Lung Transplantation, Fall Education Meeting Mechanical Cardiac Support and Replacement II Symposium. Anaheim, CA.
- 12/01 Pediatric bridge to heart transplantation. Charite University of Berlin, Mechanical Support Symposium. Deutsches, Germany.
- 12/01 The Total Artificial Heart Bridge to Transplantation: The CardioWest Experience, 2001 Annual Conference. Deutsches, Herzzentrum.
- 12/01 Bridge to transplant with CardioWest TAH. Charite University of Berlin, Mechanical Support Symposium. Berlin, Germany.
- 03/02 Thoracic trauma. University of Arizona, Grand Rounds. Tucson, AZ.
- 04/02 The importance of organ donation and donor awareness. Tucson Hispanic Chamber of Commerce. Tucson, AZ.
- 01/03 Thoracic trauma. University of Arizona, Cardiothoracic Surgery Teaching Conference. Tucson, AZ.
- 10/03 Cardiothoracic trauma. Southwest Regional Trauma Conference. Tucson, AZ.

- 04/05 The CardioWest TAH: University of Arizona experience. Annual Meeting and Scientific Sessions of the International Society for Heart and Lung Transplantation. Philadelphia, PA.
- 04/05 Risk factors analysis for bridge to transplantation with the CardioWest TAH. Annual Meeting and Scientific Sessions of the International Society for Heart and Lung Transplantation. Philadelphia, PA.
- 04/05 Pediatric bridge to heart transplantation: Application of the Berline Heart, Medos and Thoratec ventricular assist devices. Annual Meeting and Scientific Sessions of the International Society for Heart and Lung Transplantation. Philadelphia, PA.
- 04/05 Comparison of infections in the CardioWest TAH, the Novacor left ventricular assist system and the Thoratec ventricular assist device in 137 patients. Annual Meeting and Scientific Sessions of the International Society for Heart and Lung Transplantation. Philadelphia, PA.
- 09/06 The utility of impedance cardiography in assessment of hemodynamics in patients with left and right heart dysfunction: fact versus fiction. 10<sup>th</sup> Annual Scientific Meeting of the Heart Failure Society of America. Seattle, WA.
- 2007 Beyond Heart Transplantation. Advances in Cardiology Mayo Clinic Symposium. Sedona, AZ.
- 06/07 Advances in Artificial Heart. Istanbul, Turkey.
- 06/07 Medical/Surgical Advances Heart Failure. Istanbul, Turkey.
- 2008 Surgical Management of End Stage Heart Disease. St. Joseph Hospital. Phoenix, AZ.
- 08/08 Surgical Options for Treatment of ESHF: What Can We Offer Those Who Are Not Candidates for Transplantation? Essen, Germany.
- 08/08 Advances in Mechanical Circulatory Support. Advances in Cardiology Mayo Clinic Symposium. Sedona, AZ.
- 10/08 Contemporary Experience: LEVITRONIX CENTRIMAG. 21st Century Treatment of Heart Failure. Cleveland Clinic Symposium.
- 08/09 VAD Outcomes: New technology & Selecting the Right Patient. 2009 NATCO Annual Meeting. Las Vegas, NV.
- 10/09 Extra Corporeal Membrane Oxygenation (ECMO) for Acute Cardiac and Respiratory Failure in the Adult Patient. Abstract Presentation. Laxa BU, Pierce



CN, DeValeria PA, Lanza LA, Arabia FA, Jaroszewski DE. American College of Surgeons 95th Annual Clinical Congress. Chicago, IL.

- 03/10 Autocycling and the Total Artificial Heart: Optimal Ventilator Trigger for Assisted Ventilation - Case Series Analysis. Shoham AB, Pate B, Arabia FA, Murray MJ. Abstract: International Anesthesia Research Society Conference. Honolulu, HI.
- 10/10 Early Trends in a New Ventricular Assist Device Program: Establishing a Need for Cardiac Rehabilitation. Poster Presentation. Pierce CN, Staley LL, Scales R, Brigh H, Arabia FA. American Association of Cardiovascular and Pulmonary Rehabilitation Annual Meeting. Milwaukee, WI.
- 02/11 Patient Selection for Mechanical Circulatory Support. Mayo Clinic AZ. Heart Failure Symposium. Scottsdale, AZ.
- 09/11 Total Artificial Heart vs. BiVADs: Patient Selection & Outcomes. 4<sup>th</sup> International Symposium. Brano Heart Failure Forum. Belgrade, Serbia.
- 02/12 The Future of Mechanical Circulatory Support. Mayo Clinic AZ. Heart Failure Symposium. Scottsdale, AZ.
- 05/12 Do We Really Need an Artificial Heart, Point vs. Counterpoint. AATS 92nd Annual Meeting. San Francisco, CA.
- 08/12 Transplant & Devices Therapy: What is New? The Future of Mechanical Circulatory Support Cardiology Update. Advances in Cardiology Mayo Clinic Symposium. Sedona, AZ.
- 09/12 What is the Minimum Number of LVADs to Minimize Adverse Events. 5<sup>th</sup> International Symposium. Brano Heart Failure Forum. Portoroz, Slovenia.
- 09/12 Treatment of Biventricular Failure with the TAH. 5<sup>th</sup> International Symposium. Brano Heart Failure Forum. Portoroz, Slovenia.
- 09/12 Biventricular Heart Failure. Mechanical Circulatory Support Symposium. Heart Failure Society of America. 2012 Annual Scientific Meeting. Seattle, WA.
- 09/12 Efficacy of Genetic Profile Testing Using Allomap® in Combined Heart-Kidney Transplant Recipients. Poster Presentation. Abstract #285. 16th Annual Scientific Meeting of the Heart Failure Society of America. Seattle, WA.
- 10/12 Extubation Criteria for Patients with Total Artificial Heart (TAH). Poster Presentation. Maloney JA, Patel BM, Arabia FA, Jaroszewski DE, Lowell AA, Staley LL. CHEST 2012 Annual Meeting. Atlanta, GA.

- 10/12 Microbiologic Influence on the Clinical Manifestations of Left Ventricular Assist Device-Related Infections. Abstract. ID Week 2012. San Diego, CA.
- 10/12 Total Artificial Heart, Are We There Yet? 2<sup>nd</sup> Einstein International Symposium for Minimally Invasive Surgery. Sao Paolo, Brazil.
- 11/12 Management of Malignant Arrhythmias & VSD with TAH. 2012 Annual of Turkish Society of Cardiovascular Surgery. Antalya, Turkey.
- 11/12 Surgery for Biventricular Failure. 2012 Annual of Turkish Society of Cardiovascular Surgery. Antalya, Turkey.
- 11/12 Surgical Techniques for Implantation of the TAH. 2012 Annual of Turkish Society of Cardiovascular Surgery. Antalya, Turkey.
- 11/12 Update of Worldwide Experience with the TAH. 2012 Annual of Turkish Society of Cardiovascular Surgery. Antalya, Turkey.
- 03/13 The Future of Mechanical Circulatory Support. Success with Failure: an advanced heart disease symposium. Cedars Sinai Heart Institute. Universal City, CA.
- 03/13 Future of Mechanical Circulatory Support. “Success with Failure: An Advanced Heart Disease Symposium.” Universal City, CA.
- 04/13 Total Artificial Heart. International Society of Heart and Lung Transplantation Annual Meeting. Montreal, Canada
- 05/13 “Optimal Care and New Therapies for Advanced Heart Disease.” Saturday, at the Hyatt Regency Long Beach. Long Beach, CA.
- 05/13 Current and Future Applications of Mechanical Circulatory Support. Annual Berdick Justice Memorial Presentation. Cedars-Sinai Medical Center. Los Angeles, CA.
- 05/13 Artificial Heart: Indications and Outcomes. 2013 American Transplant Congress. Seattle, WA.
- 05/13 Current and Future Applications of Mechanical Circulatory Support. Cedars-Sinai Medical Center. Los Angeles CA.
- 06/13 Use of the Total Artificial Heart. American Society of Artificial Internal Organs. Chicago, IL.
- 08/13 Implantation techniques to prepare for or facilitate pump explant. HeartWare’s North America User’s Meeting. Chicago, IL.

- 09/13 Management of Biventricular Failure. Brano International Meeting. Krakow, Poland.
- 10/13 Current and Future Applications of Mechanical Circulatory Support. Cedars-Sinai Medical Center. Los Angeles, CA.
- 11/13 Case Studies in Mechanical Circulatory Support. Berlin Heart Institute. Berlin, Germany.
- 11/13 Mechanical Circulatory Support Symposium. Los Angeles, CA.
- 11/13 Forum on U.S. Heart Allocation Policy. Dallas, TX.
- 11/13 Controversies and Advances in the Treatment of Cardiovascular Disease, The Thirteenth in the Series. Los Angeles, CA.
- 04/14 International Society of Heart and Lung Transplantation Annual Meeting. San Diego, CA.
- 04/14 International Congress of the European Society for Cardiovascular and Endovascular Surgery. Nice, France.
- 06/14 Results with SynCardia Total Artificial Heart beyond one year. ASAIO. Washington, DC.
- 07/14 Single Center Experience of Total Artificial Heart as a Bridge to Heart Transplantation. World Transplant Congress. San Francisco, CA.
- 09/14 7<sup>th</sup> Branislav “Brano” Radovancevic International Heart Failure Forum. Zagreb.
- 09/14 HeartWare Clinician Forum (HeartWare sponsored). Chicago, IL.
- 10/14 Surgical Alternatives in Advanced Heart Failure. Honolulu, HI.
- 10/14 46th Annual Meeting of Korean Society for Thoracic & Cardiovascular Surgery. Yeosu, Korea.
- 11/14 HeartWare Grand Rounds. Bellingham, WA.
- 11/14 Controversies & Advances in the Treatment of Cardiovascular Disease. Beverly Hills, CA.
- 12/14 5<sup>th</sup> Annual Meeting on Mechanical Circulatory Support. Newcastle, United Kingdom.
- 04/15 International Society of Heart and Lung Transplantation Annual Meeting. Nice, France.

- 05/15 American Association of Thoracic Surgery Annual Meeting. Seattle, WA.
- 05/15 Cedars-Sinai Healthcare College 2015 – Board of Governors Meeting.
- 05/15 American Transplant Congress, The Selection Process for Total Artificial Heart. Philadelphia, PA.
- 05/15 Intermacs 9<sup>th</sup> Annual Meeting, MCS: Surgical Alternatives. Baltimore, MD.
- 05/15 Cedars-Sinai Heart Institute, Success with Failure: Debate Heart Transplant vs. MCS. Long Beach, CA.
- 06/15 Gordon Research Conference, Improving Device Performance: Enhancing Durability and Reducing Blood Trauma. St. Lucca, Italy.
- 06/15 ASAIO Conference, Anticoagulation for Mechanical Circulatory Support (MCS) Devices. Chicago, IL.
- 07/15 *MCS Management and Future Technology*. Texas Heart Institute / Baylor School of Medicine. Houston, TX.
- 09/15 8<sup>th</sup> Annual International Brano Radovancevic Heart Failure Forum. Budapest, Hungary.
- 10/15 *The Future of Total Artificial Heart Technology*. Cedars-Sinai Heart Institute, A Global User's Guide to Mechanical Circulatory Support. Los Angeles, CA.
- 10/15 *Total Artificial Heart*. Annual Conference of the Asia-Pacific Society for Artificial Organs. Gangwondo, South Korea.
- 12/15 *Long term > Years Experience with SynCardia*. 10<sup>th</sup> European Mechanical Circulatory Support Summit. Paris, France.
- 12/15 *Mechanical Circulatory Support – Patient Selection*. Mechanical Circulatory Support. Los Angeles, CA.
- 01/16 *Total Artificial Heart: Ready for Primetime at All LVAD Centers?* Society of Thoracic Surgeons Annual Meeting. Phoenix, AZ.
- 03/16 *Mechanical Circulatory Support – Where we are in 2016 and Total Artificial Heart Technology*. Scripps Green Hospital Grand Rounds in Cardiovascular Disease. Scripps Clinic. La Jolla, CA.
- 03/16 *Mechanical Circulatory Support – Patient Selection*. Cedars-Sinai Heart Failure Summit. Cedars-Sinai. Los Angeles, CA.

- 03/16 *SynCardia TAH-t PAS Update*. Intermacs 10<sup>th</sup> Annual Meeting and Scientific Sessions. Atlanta, GA.
- 04/16 *Total Artificial Heart (TAH): Survival Outcomes, Risk Factors, Adverse Events in Intermacs*. International Society of Heart and Lung Transplantation Annual Meeting. Washington, D.C.
- 04/16 *Early Results of Biventricular Support with Durable, Intracorporeal Continuous Flow Centrifugal Ventricular Assist Devices: Analysis from INTERMACS*. International Society of Heart and Lung Transplantation Annual Meeting. Washington, D.C.
- 05/16 *Biventricular Support, Artificial Heart*. 1<sup>st</sup> Biennial International Symposium: Heart and Lung Transplantation, Mechanical Circulatory Support. Van Andel Research Institute. Grand Rapids, MI.
- 05/16 *Longer-term Support: TAH*. American Association of Thoracic Surgery Annual Meeting. Baltimore, MD.
- 05/16 *Mechanical Circulatory Support – Where we are in 2016 and Total Artificial Heart Technology*. University of Southern California Grand Rounds, Keck Hospital of USC. Los Angeles, CA.
- 05/16 *Artificial Hearts: Not Science Fiction*. Walt Disney Concert Hall. Los Angeles, CA.
- 06/16 *Advances in Total Artificial Heart Technology. Success with Failure: An Advanced Heart Disease Symposium*. Culver City, CA.
- 06/16 *The Largest Single Center Experience with Total Artificial Heart Implantation: Characterization of Outcome*. 2016 American Transplant Congress. Boston, MA.
- 06/16 *Total Artificial Heart: Challenges & Trends – How long and for Who?* 2<sup>nd</sup> Annual Milwaukee Heart Failure Symposium. Milwaukee, WI.
- 07/16 *No Longer Science Fiction: Living with a Total Artificial Heart is a Reality*. El Segundo, CA.
- 07/16 *Present and Future of the Total Artificial Heart*. 21<sup>st</sup> World Congress on Heart Disease. International Academy of Cardiology Annual Scientific Sessions. Boston, MA.
- 08/16 *Long-term Mechanical Support: TAH*. Advanced Heart Failure & Transplant Cardiology Didactic Lecture. Cedars-Sinai. Los Angeles, CA.

- 08/16 *The Present and Future of the Total Artificial Heart.* Annual Conference of the Asia-Pacific Society for Artificial Organs. Tianjin, China.
- 08/16 *B-Ventricular Support.* Tianjin, China.
- 09/16 *Are We Ready to Replace Airdriven with Axial Flow TAH.* 9<sup>th</sup> Annual International Brano Radovancevic Heart Failure Forum. Ljubljana, Slovenia.
- 10/16 *SynCardia, Long-Term Implantations.* 29<sup>th</sup> Les Journées de la Pitié. Paris, France.
- 10/16 *The Total Artificial Heart: Options for Patients with Biventricular Heart Failure.* Optimal Care and New Therapies for Advanced Heart Disease. Costa Mesa, CA.
- 11/16 *Total Artificial Heart for All.* 11<sup>th</sup> European Mechanical Circulatory Support Summit. Berlin, Germany.
- 01/17 *Specialty Products in Development: A Universal, Smart, and Portable Driver for all SynCardia Total Artificial Heart Patients.* Society of Thoracic Surgeons Annual Meeting. Phoenix, AZ.
- 01/17 *Experience with the Total Artificial Heart: Implantation Tips and Pitfalls to Avoid.* Society of Thoracic Surgeons Annual Meeting. Phoenix, AZ.
- 01/17 *Durable BiVAD Support and TAH Options: Perspectives from INTERMACS.* Society of Thoracic Surgeons Annual Meeting. Phoenix, AZ.
- 02/17 *Overview of Heart Devices.* Fountain Valley Regional Hospital & Medical Center. Fountain Valley, CA.
- 03/17 *The History and Development of Mechanical Circulatory Support.* Cedars-Sinai Heart Institute Grand Rounds. Los Angeles, CA.
- 04/17 *Current BiVADs and Their Future.* 2017 Advanced Technology for Cardiac Disease. Beijing, China.
- 04/17 *Current and Future Total Artificial Heart Technologies.* 2017 Advanced Technology for Cardiac Disease. Beijing, China.
- 04/17 *The History & Development of Cardiac Replacement.* 64<sup>th</sup> Annual Conference of the Israel Heart Society. Tel Aviv, Israel.
- 04/17 *Selection & Outcomes of MCS in Patients with Bi-Ventricular Heart Failure.* 64<sup>th</sup> Annual Conference of the Israel Heart Society. Tel Aviv, Israel.
- 04/17 *Total Artificial Heart.* Sheba Medical Center. Tel Aviv, Israel.

- 05/17 *CON: Mechanical Circulatory Support Rather Should Be Used in Patients Who Are Not Thought Candidates for Transplantation Due to Concerns Over Compliance.* 2017 Annual Meeting of the American Transplant Congress. Chicago, IL.
- 05/17 *Bigger is Better in Cardiogenic Shock and Endstage Heart Failure: The Total Artificial Heart – Personal Experience in > 100 Cases.* 3<sup>rd</sup> Annual BronxHeart Symposium: Innovations in Heart Failure and Mechanical Circulatory Support. Bronx, NY.
- 06/17 *Complex Cases in MCS Expert Panel Discussion. Success with Failure: An Advanced Heart Disease Symposium.* Torrance, CA.
- 06/17 *PRO: Durable Mechanical Circulatory Support Should be Favored for Most Indications.* 63<sup>rd</sup> Annual ASAIO Conference. Chicago, IL.
- 07/17 *The Aging Baby Boomer and Heart Failure: State of the Art Cardiac Mechanical Devices to Improve the Lifestyle of this Otherwise Healthy Generation.* Lakewood Regional Medical Center Grand Rounds. Lakewood, CA.
- 09/17 *When to Use Organ Care System?* 10<sup>th</sup> Annual International Brano Radovancevic Heart Failure Forum. Prague, Czech Republic.
- 10/17 *Emerging Clinical Role of the TAH.* International Society of Mechanical Circulatory Support 25<sup>th</sup> Anniversary Scientific Congress. Tucson, AZ.
- 10/17 *Complex Case – Short Term Device, Long Term Device, Palliative Care?* Practicum in Mechanical Circulatory Support: An Expert Review. Cedars-Sinai Heart Institute. Los Angeles, CA.
- 11/17 *SynCardia: Progress with a Total Artificial Heart.* Transcatheter Cardiovascular Therapeutics (TCT) 2017. Denver, CO.
- 11/17 *Hemodynamics Live: What Now? VAD Tricks and Troubles.* American Heart Association Scientific Sessions. Anaheim, CA.
- 11/17 *Bleeding as an Adverse Event.* Mechanical Circulatory Support Academic Research Consortium (MCS-ARC). Heart House @ American College of Cardiology. Washington, D.C.
- 01/18 *Total Artificial Heart Clinical Trial Update.* Society of Thoracic Surgeons 54<sup>th</sup> Annual Meeting. Ft. Lauderdale, FL.
- 02/18 *The Total Artificial Heart – What Metrics Should be Met for Standard Use? For Future Technology?* American Society of Transplantation's Cutting Edge of Transplantation (CEoT) 2018. Phoenix, AZ.
- 07/18 *Mechanical Circulatory Support: The Landscape of our Horizon.* 8<sup>th</sup> World Congress of Biomechanics. Dublin, Ireland.

## CSMC TEACHING ACTIVITIES

1. Journal Club, CSICU: Total Artificial Heart. Cedars-Sinai. Los Angeles, CA. 2/2013
2. ICU Anesthesia Grand Rounds: Current and Future Directions in Mechanical Circulatory Support. Cedars-Sinai. Los Angeles, CA. 3/2013
3. TAH Simulation Training for OR Surgical Technologists, OR Nurses and Perfusionists. Cedars-Sinai. Los Angeles, CA. 11/2016.
4. Didactic Lecture for Heart Fellows. *Long-term Mechanical Support – TAH*. Cedars-Sinai. Los Angeles, CA. 1/2017
5. MCS In-Service for CSICU Intensivists. Cedars-Sinai. Los Angeles. 2/2017
6. MCS In-Service for CSICU Intensivists. Cedars-Sinai. Los Angeles. 3/2017
7. MCS In-Service for CICU Attendings and Cardiology Fellows. Cedars-Sinai. Los Angeles. 3/2017
8. MCS In-Service for CSICU Intensivists. Cedars-Sinai. Los Angeles. 3/2017
9. In-depth MCS training for visiting cardiovascular team from TEDA International Cardiovascular Hospital (Tianjin, China). Cedars-Sinai. Los Angeles. 5/2017 – 6/2017
10. Didactic Lecture for Heart Fellows. *Long-term Mechanical Support – TAH*. Cedars-Sinai. Los Angeles, CA. 8/2017
11. MCS and ECMO Lecture for CT Surgery Fellows. Cedars-Sinai. Los Angeles, CA. 9/2017
12. MCS Lecture for CSICU MDRNs. Cedars-Sinai. Los Angeles. 12/2017
13. MCS Lecture for CSICU Residents. Cedars-Sinai. Los Angeles. 12/2017

## VISITING PROFESSORSHIPS

1. Instructed implantation of the CardioWest Total Artificial Heart. Sharps



Memorial Hospital  
San Diego, California. 1996 – 1997

2. Presentation-CT Surgery Grand Rounds. University of Nebraska Medical Center. Omaha, NE.
3. Yale Grand Rounds. New Haven, CT. 9/2014
4. Mount Sinai Medical Center. New York, NY. 3/2015
5. Drexel University Distinguished Lecturer Series, History and Development of Mechanical Circulatory Support. Drexel University School of Biomedical Engineering, Science and Health Systems. Philadelphia, PA. 5/2016

## CLINICAL PRACTICE, INTERESTS, AND ACCOMPLISHMENTS

1. Cardiovascular and thoracic surgery, heart, heart-lung, single lung, double lung transplantation. Valvular surgery, myocardial preservation, pacemakers, ventricular assist devices, artificial heart.
2. 1996 - Consultant, Surgical team for potential CardioWest Total Artificial Heart for President Boris Yeltsin of Russia

## BIBLIOGRAPHY/PUBLICATIONS

### RESEARCH PAPERS (PEER-REVIEWED)

1. Hubbard RC, Casolaro MA, Mitchell M, Sellers SE, **Arabia F**, Matthay MA, Crystal RG. Fate of aerosolized recombinant DNA-produced alpha 1-antitrypsin: use of the epithelial surface of the lower respiratory tract to administer proteins of therapeutic importance. Proc Natl Acad Sci U S A. 1989 Jan; 86(2):680-4. PMID:2783491. PMCID:286537.
2. **Arabia FA**, Talbot TL, Stewart SF, Nast EP, Clark RE. A computerized physiologic pulse duplicator for in-vitro hydrodynamic and ultrasonic studies of prosthetic heart valves. Biomedical Instrumentation & Technology. 1989 May-Jun; 23(3):205-15. PMID:2752231.
3. Nast E, Stewart S, **Arabia FA**, Talbot T, Proschan M, Clark R. Doppler derived gradients across prosthetic aortic valves are inaccurate. Surg Forum. 1990; 41:223-5.
4. Stewart SF, Nast EP, **Arabia FA**, Talbot TL, Proschan M, Clark RE. Errors in pressure gradient measurement by continuous wave Doppler ultrasound: type, size and age effects in bioprosthetic aortic valves. J Am Coll Cardiol. 1991 Sep; 18(3):769-79. PMID:1869741.
5. **Arabia FA**, Rosado LJ, Huston CL, Sethi GK, Copeland JG 3rd. Incidence and recurrence of gastrointestinal cytomegalovirus infection in heart transplantation. Ann Thorac Surg. 1993 Jan; 55(1):8-11. PMID:8380246.

6. **Arabia FA**, Rosado LJ, Lloyd TR, Sethi GK. Management of complications of Sideris transcatheter devices for atrial septal defect closure. *J Thorac Cardiovasc Surg.* 1993 Nov; 106(5):886-8. PMID:8231212.
7. Stewart FC, **Arabia FA**, Nast EP, Talbot TL, Proschan M, Clark RE. Errors in pressure gradient measurement in prosthetic aortic valves due to pressure recovery: Type, size and flow rate effects in vitro. *Echocardiography.* 1994; 11(5):425-36.
8. **Arabia FA**, Rosado LJ, Sethi GK, Smith RG, Copeland JG. From balloon pumps to total artificial hearts. *Congest Heart Fail.* 1995; 1(3):31-9.
9. Rosado LJ, **Arabia FA**, Smith RG, Copeland JG. Cardiovascular assist devices. *Acad Radiol.* 1995 May; 2(5):418-27. PMID:9419585.
10. Lick SD, Copeland JG, Rosado LJ, **Arabia FA**, Sethi GK. Simplified technique of heart-lung transplantation. *Ann Thorac Surg.* 1995 Jun; 59(6):1592-3. PMID:7771857.
11. Copeland JG, Tsau PH, **Arabia FA**, Xie T. Correlation of clinical embolic events with coagulability in a patient with a total artificial heart. *Journal of Heart & Lung Transplantation.* 1995 Sep-Oct; 14(5):990-8. PMID:8800738.
12. Sethi GK, Kosaraju S, **Arabia FA**, Rosado LJ, McCarthy MS, Copeland JG. Is it necessary to perform surveillance endomyocardial biopsies in heart transplant recipients? *Journal of Heart & Lung Transplantation.* 1995 Nov-Dec; 14(6 Pt 1):1047-51. PMID:8719449.
13. Rabago G, Rosapepe F, Berger RA, Arzouman DA, **Arabia FA**, Sethi GK. Paciente con un linfoma cardiaco primario. *Anales de Cirugia Cardiaca y Cirugia Vascul.* 1996; 2(4):135-8.
14. Copeland JG, Pavie A, Dubeau D, Keon WJ, Masters R, Pifarre R, Smith RG, **Arabia FA**. Bridge to transplantation with the CardioWest total artificial heart: the international experience 1993 to 1995. *J Heart Lung Transplant.* 1996 Jan; 15(1 Pt 1):94-9. PMID:8820088.
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## **Reliability of Platelet Mapping by Thromboelastography (TEGPM) and Whole Blood Aggregation (WBA) in Monitoring Antiplatelet Effect in Patients on Mechanical Circulatory Support (MCS) Devices**

## LETTERS

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