

CURRICULUM VITAE

Francisco Javier Morales Acuña, M.D., M.S.

Personal Data

Birthdate: July 19th, 1984.
Birthplace: Santiago, Chile.
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Education

2017 - Present: PhD Student in Interdisciplinary Health Science. University of Texas at El Paso, USA.

2016 - 2017: PhD Student in Biology/Physiology. Indiana State University, USA

2015 - 2016: Sports Cardiology Fellowship. Cardiology Department, Sports Medicine Center, Spanish Sports Health Protection Agency, Spain.

2010 - 2013: Master of Science in Sports Medicine. Universidad Mayor, Chile.

2008 - 2009: Doctor of Medicine, Cum Laude. Universidad Andrés Bello, Chile.

2003 - 2007: Bachelor of Science in Medicine. Universidad Andrés Bello, Chile.

2000 - 2003: International Baccalaureate Diploma.

1991 - 2002: International SEK-Chile School.

Residency

2013 - 2015: Sports Medicine Residency, "Mención Honorífica".
Universidad Autónoma del Estado de México, Toluca, México.

Professional Experience

2017 - Present: Graduate Research Assistant, College of Health Science, Department of Physical Therapy, University of Texas at El Paso, USA.

- 2017: Graduate Teaching Instructor of Cardiopulmonary (PASS619), Department of Applied Medicine and Rehabilitation, Indiana State University, USA.
- 2016 - 2017: Research Assistant at Clinical Applied Physiology Lab, Department of Applied Medicine and Rehabilitation, Indiana State University, USA.
- 2015 - 2016: Cardiology Department, Sports Medicine Center of the Spanish National Sports Council, Madrid, Spain.
- 2014: Physician at Central American and Caribbean Games, Veracruz, México.
- 2013 - 2015: Institute of Physical Culture and Sports, Nuevo León, México. Team Physician of Nuevo León Taekwondo Team.
- 2013: Physician at NORCECA Men's Volleyball Final Four. Monterrey, México.
- Physician at the International Handball Federation Trophy. Monterrey, México.
- 2010 - 2012: Chief of Emergency Room, Clínica San Julián, San Antonio, Chile.

Research and Publications:

Ratcliffe B, Pawlak R, Morales F, Harrison C, Gurovich AN. Internal validation of an automated system for brachial and femoral flow mediated dilation. *Clin Hypertens*. 2017 Aug 22;23:17.

Morales F. High Intensity Interval Training in Heart Failure. *Rev Arch Soc Chil Med Deporte*. 2016; 61 (2): 55-65.

Boraita A, Heras M, Morales F, Marina-Breyse M, Canda A, Rabadan M, Barriopedro M, Varela A, de la Rosa A, Tuñón J. Reference values of Aortic Root in male and female Caucasian Elite Athletes according to Sport. *Circ Cardiovasc Imaging*. 2016; 9:e005292.

Morales F, Boraita A, Heras ME, Canda A, Marina-Breyse M. Aortic Root Size in Elite Male Athletes with Bicuspid Aortic Valve. *Med Sci Sports Exerc*. 2016 May; 48(5 Suppl 1):259-60.

Marina-Breyse M, Navarro E, Lopez M, Piqueras J, Jurado A, Sanchez I, Pinilla, Focaccio C, Gonzalez A, Alfonso J, Rayo M, Crespín M, Morales F, Benezet J, Lozano F. Treatment cessation of dual antiplatelet therapy after percutaneous coronary intervention and clinical events during follow-up. DualATG registry. *European Journal of Preventive Cardiology*. 2016 September; 23 (Supplement 1): S37.

Boraita A, Heras M, Morales F, de la Rosa A, Barriopedro M, Canda A, Rabadán M, Calderón F, Tuñón J. Echocardiographic Reference Values of the Aortic Root Dimensions in Elite Athletes. *Circulation*. 2015; 132:A15169.

Tlatoa H, Morales F, Ocaña H. Sports traumatology update: frozen shoulder. *Revista de Medicina e Investigación*. 2014; 2(2): 132-137.

Tlatoa H, Ocaña H, Morales F. Effects of physical training in spirometry. *Revista de Medicina e Investigación*. 2014; 2(2): 128-131.

Tlatoa H, Ocaña H, Morales F, Márquez M, Aguilar J, Morales F, Gallo A. Physical activity. A healthy lifestyle to be lost in the history of mankind. *Revista de Medicina e Investigación*. 2014; 2(2): 138-140.

Tlatoa H, Ocaña H, Márquez M, Morales F, Gallo A. Four years of anaerobic power monitoring of professional soccer players located 2600 meters above sea level. *Revista Mexicana de Investigación en Cultura Física y Deporte*. 2014; 7(1): 74-82.

Book Chapters

Boraita A, Morales F, Heras ME. Arrhythmias in the athlete. In *Cardio Arritmias*. Ed Villacastin J. CTO, 2016: 573-592.

Professional Presentations

2017: (Oral Presentation) "Aortic Root Dilation in Professional SCUBA Diver." American College of Sports Medicine annual meeting, Denver, CO.

(Poster Presentation) "Exercise-Induced Blood Flow Patterns Changes Based on Lactate Levels." American College of Sports Medicine annual meeting, Denver, CO.

(Poster Presentation) "Internal Laboratory Validation of Flow Mediated Dilation Analysis." American College of Sports Medicine annual meeting, Denver, CO.

(Poster Presentation) "Dietary Nitrate and Pulse Wave Analysis: Preliminary Results." American College of Sports Medicine annual meeting, Denver, CO.

(Poster Presentation) "Comparison between Cuff-Based and Radial Tonometry Pulse Wave Analyses during Exercise". North American Artery Seventh Annual Meeting, Chicago, IL.

(Poster Presentation) "Stress Management as a Correlation to Sympathetic and Parasympathetic Activity in High School Students."

American Physiological Society, Experimental Biology annual meeting, Chicago, IL.

(Poster Presentation) "Physiological Differences between Sexes in High School Students." American Physiological Society, Experimental Biology annual meeting, Chicago, IL.

(Poster Presentation) "Demonstrating Heart Rate Recovery to High school Students using Biopac Science Lab." American Physiological Society, Experimental Biology annual meeting, Chicago, IL.

2016: (Invited Seminar) "Cardiovascular Screening in the Young Athlete". 1st Sports Cardiology Seminar. Universidad de Chile, Santiago, Chile.

(Invited Seminar) "Cardiology Evaluation of Master Athletes". 1st Sports Cardiology Seminar. Universidad de Chile, Santiago, Chile.

(Invited Seminar) "Interpretation of the Electrocardiogram in Athletes". 1st Sports Cardiology Seminar. Universidad de Chile, Santiago, Chile.

(Poster Presentation) "Heart Murmur in Soccer's Pre-Participation Exam." Midwest American College of Sports Medicine annual meeting, Fort Wayne, IN.

(Poster Presentation) "Exercise-Induces Blood Flow Patterns." MidWest American College of Sports Medicine annual meeting, Fort Wayne, IN.

(Poster Presentation) "Dietary Nitrate and Pulse Wave Analysis: Preliminary Results." MidWest American College of Sports Medicine annual meeting, Fort Wayne, IN.

(Poster Presentation) "Laboratory Validation of Flow Mediated Dilation Analysis." MidWest American College of Sports Medicine annual meeting, Fort Wayne, IN.

(Poster Presentation) "Aortic Root Size in Elite Male Athletes with Bicuspid Aortic Valve." American College of Sports Medicine annual meeting, Boston, MA.

(Poster Presentation) "Treatment cessation of dual antiplatelet therapy after percutaneous coronary intervention and clinical events during follow-up." European Congress on Preventive Cardiology, Sophia Antipolis, France.

- 2015: (Poster Presentation) "Echocardiographic Reference Values of the Aortic Root Dimensions in Elite Athletes." American Heart Association scientific sessions, Orlando, FL.
- (Oral Presentation) "Maximal Heart Rate Estimation in Athletes: it's valid?" Spanish Society of Cardiology congress, Bilbao, Spain.
- (Oral Presentation) "Exercise training effect on the aorta of female athletes" Spanish Society of Cardiology congress, Bilbao, Spain.
- (Oral Presentation) "Pre-Participation Exam in runners: current situation in Spain" Spanish Society of Cardiology congress, Bilbao, Spain.
- (Poster Presentation) "Cardiovascular risks factors of Madrid's half marathon runners." Spanish Society of Cardiology congress, Bilbao, Spain.
- (Invited Symposium) "Exercise and Air Pollution." Chilean Society of Sports Medicine 60° congress, Santiago, Chile.
- (Invited Symposium) "Cryotherapy in Athlete's Recovery." Chilean Society of Sports Medicine 60° congress, Santiago, Chile.

Honors

- 2016: Leadership and Mentoring Program, American College of Sports Medicine.
- Spring Graduate Student Research Fund, Indiana State University.
- International Student Leadership Development Program, Indiana State University.

Memberships

- 2016 - Present: American College of Sports Medicine.
- 2016 - Present: American College of Sports Medicine, Midwest Chapter.
- 2015 - Present: Spanish Society of Sports Medicine.
- 2015 - Present: Chilean Society of Sports Medicine.

Reviewer for Scholarly Journals

- 2016: Vascular and Endovascular Surgery

Courses

- 2016: Level Two Anthropometrist, certified by the International Society for the Advancement of Kinanthropometry (ISAK), Terre Haute, IN, USA.
- MidWest American College of Sports Medicine Annual Meeting. Fort Wayne, IN, USA.
- ACSM Annual Meeting. Boston, MA, USA.
- Basic Life Support (BLS). American Heart Association. Terre Haute, IN, USA.
- 2015: Musculoskeletal Ultrasound Level A. FEMEDE. Madrid, Spain.
- XXIX Annual Meeting of Cardiac Imaging. Madrid, Spain.
- ACSM Team Physician Course - Part II. San Antonio, TX, USA.
- 2014: ACSM Team Physician Course - Part I. San Diego, CA, USA.
- ACSM Annual Meeting. Orlando, FL, USA.
- Central American and Caribbean Sports Medicine Congress. Veracruz, México.
- V International Congress of Sports Science, Universidad Finis Terrae. Santiago, Chile.
- Gatorade Science in Motion Congress, DF, México.
- 2012: Advanced Critical Life Support (ACLS). American Heart Association. Santiago, Chile
- 2009: International Symposium on Sports Injuries in Soccer. SOCHMEDEP, Santiago, Chile.
- III International Course of Internal Medicine Board Preparation. Santiago, Chile.

Other Activities and Achievements:

- 2011-2012: Esparta San Antonio Sport Club Director. San Antonio, Chile.
- 2010-2012: Esparta San Antonio basketball player. San Antonio, Chile.
- 2003-2009: SEK-Chile basketball player.