

Luis J. Herrera M. D.

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Professional Appointments:

▣ ***Section Head, Division of Thoracic Surgery, July 2006 to Present.***

MD Anderson Cancer Center-Orlando and Orlando Health, Orlando, Florida

▣ ***Adjunct Assistant Professor of Surgery, Department of Thoracic and Cardiovascular Surgery, July 2006 to Present.***

University of Texas- MD Anderson Cancer Center, Houston, Texas.

▣ ***Volunteer Assistant Professor of Surgery and Anatomy, August 2008 to Present.***

The University of Central Florida- College of Medicine, Orlando, Florida.

▣ ***Clinical Assistant Professor Surgery, June 2009 to Present***

Florida State University College of Medicine, Tallahassee, Florida.

Administrative Appointments and Committees

▣ ***Section Head, Division of Thoracic Surgery, January 2012 to Present.***

MD Anderson Cancer Center, Orlando, Florida.

▣ ***Medical Director- Rod Taylor Thoracic Care Center, July 2007 to Present.***

MD Anderson Cancer Center, Orlando, Florida.

▣ ***Vice Chairman- Department of Thoracic Surgery, January 2009 to Present.***

Orlando Health/Orlando Regional Medical Center, Orlando, Florida.

▣ ***Chairman- Quality Committee, January 2012 to Present.***

MD Anderson Cancer Center, Orlando, Florida.

▣ ***Chairman-Robotic Surgery Quality/Steering Committee, January 2012 to Present.***

Orlando Regional Medical Center, Orlando, Florida.

▣ ***Member –Collaborative Quality Advisory Council January 2012 to Present.***

Orlando Health/Orlando Regional Medical Center, Orlando, Florida.

▣ ***Cancer Liaison Physician- Commission on Cancer, American College of Surgeons January 2010 to Present.***

MD Anderson Cancer Center/Orlando Health, Orlando Florida.

▣ **Member Oncology Policy and Planning Committee, July 2007 to Present.**

MD Anderson Cancer Center, Orlando, Florida.

▣ **Member and Chair Quality of Registry and Physician Data, July 2010 to Present.**

MD Anderson Cancer Center/Orlando Health, Orlando Florida.

▣ **Member Surgical Quality Committee, July 2009 to Present.**

Orlando Health/Orlando Regional Medical Center, Orlando, Florida.

▣ **Member Southwest Oncology Group (SWOG) Executive Lung Committee. 2012**

SWOG Lung Committee

Education and Training:

▣ **Cardiothoracic Surgery Residency, General Thoracic Track 2004-2006:**

University of Texas M. D. Anderson Cancer Center / Texas Heart Institute, Houston, TX

▣ **Thoracic Surgery Research Fellowship 2001-2002.**

Division of Thoracic Surgery. University of Pittsburgh, Pittsburgh, PA

▣ **General Surgery Residency 1998- 2004:**

University of Pittsburgh, Pittsburgh, PA

▣ **Doctor in Medicine 1994-1998:**

University of Puerto Rico School of Medicine, Medical Sciences Campus, San Juan, PR

▣ **Bachelor in Science, Biology Major 1990-1994:**

University of Puerto Rico, Rio Piedras Campus, San Juan, PR

Certifications:

- ▣ Fellow American College of Surgeons
- ▣ Board certified: American Board of Surgery; October 2005.
- ▣ Board certified: American Board of Thoracic Surgery; June 2007.
- ▣ Certified Intuitive Surgical Robotic Surgery
- ▣ Medical License State of Texas
- ▣ Medical License State of Florida
- ▣ Advanced Trauma Life Support Instructor 1999-2004

Professional Organizations:

- ▣ Fellow American College of Surgeons
- ▣ Member, Society of Thoracic Surgeons
- ▣ Member, Southern Thoracic Surgical Association
- ▣ Member, General Thoracic Surgical Club

- Member, International Association for the Study of Lung Cancer (IASLC)
- Member, International Society of Diseases of the Esophagus
- Member, Society of Surgical Oncology
- Past Member, Society of Laparoendoscopic Surgeons
- Member, “Cooley Hands” Society; 2006.
- Member, Denton A. Cooley Cardiovascular Surgical Society; 2004.

Academic Honors

- Postgraduate:***
- Chief Resident Thoracic Surgery- M.D. Anderson Cancer Center 2005
 - Member, Cooley Hands Cardiovascular Surgical Society
 - Member of the review committee for the educational online curriculum of the Thoracic Surgery Directors Association
 - Minority Scholar Award in Cancer Research from American Association in Cancer Research and the National Cancer Institute 2002
 - Finalist 2002 Paul C. Sampson Resident Manuscript Competition at the Western Thoracic Surgical Association
 - Resident representative, Residency Committee of the Department of Surgery, University of Pittsburgh 1999-2004
 - Member, University of Pittsburgh Medical Center Safety and Quality Control Committee 2001-2002

- Medical School:***
- Alpha Omega Alpha Honor Society 1997 to present (Junior AOA)
 - Suma cum laude graduate
 - Recipient Academic Merit Tuition Award (Yearly award given to top 5% of medical school class) (1995-1998)
 - Member and Treasurer Medical School Student Council 1996-1998
 - All-American Scholar Award

- Undergraduate:***
- Magna cum laude graduate
 - Member, Honor Student Academic Track curriculum of the U.P.R.
 - Research Assistant Department of Ecology (1993-1994) investigating patterns of reforestation in abandoned fields. Co-author in two peer reviewed publications.

Research Interests:

- Cerium Oxide Nanoparticles for Prevention of Radiation Pneumonitis During the Treatment of Lung Cancer
- Evaluation and Targeting of Angiogenesis and Growth Factor Overexpression in Esophageal Adenocarcinoma
- Molecular diagnosis of lung cancer
- Multimodality therapy of esophageal and lung cancer
- Minimally invasive and robotic thoracic surgery

Editorial Review:

- Annals of Thoracic Surgery- Guest Reviewer
- Asian Annals of Thoracic Surgery- Guest Reviewer

Funding/Research Awards:

- Co-Investigator: Bankhead-Coley Cancer Research Program, New Investigator Research Grant (Grant# 09BN-01)
“Nanoceria: A Novel Nanoparticle Adjuvant Therapy to Increase the Efficacy of Radiotherapy for Lung Cancer Patients” 2009-2011.
- NIH Minority Supplement Grant from the National Cancer Institute
“The Role of Hepatocyte Growth Factor/Scatter Factor Pathway in the Progression of Esophageal Adenocarcinoma” 2001-2002.
- United States Surgical Corporation: Resident Research Grant 2001-2002.
“Prognostic Significance of Hepatocyte Growth Factor and Met Tyrosine Kinase Receptor Overexpression in Esophageal Cancer” 2001-2002.

Publications:

Peer Reviewed Journals:

1. **Herrera LJ.** Invited Commentary on “Metastasectomy of Adrenocortical Carcinoma”
-Annals of Thoracic Surgery 2011 Oct; No. 92(4): 1201.
2. Maddipatla S; Pennock G; Magill MJ Jr; Nasser NM; **Herrera LJ.** “A Rare Case of Endobronchial Amelanotic Melanoma”
-Journal of Thoracic Oncology 2011 Mar; 6(3):643-4.
3. Maliakal P; Abdelrahim M; Sankpal UT; Maliakal C; Baker CH; Safe S; **Herrera LJ;** Abudayyeh A; Kaja S; Basha R. “Chemopreventive Effects of Tolfenamic Acid Against Esophageal Tumorigenesis in Rats”
-Investigational New Drugs 2012 June; No. 30 (3):853-61.
4. Madero-Visbal RA; Colon JF; Hernandez IC; Limaye A; Smith J; Lee CM; Arlen PA; **Herrera L;** Baker CH. “Bioluminescence Imaging Correlates with Tumor Progression in an Orthotopic Mouse Model of Lung Cancer”
-Surgical Oncology 2010 Mar; No. 21(1):23-9.
5. **Herrera LJ.** Invited Commentary on “Early Intrapulmonary Recurrence after Pulmonary Metastasectomy Related to Colorectal Cancer”.
-Annals of Thoracic Surgery 2010 Aug; No. 90(2): 404-5.

6. **Herrera LJ**. Editorial: "Extent of Lymphadenectomy in Esophageal Cancer: How Many Lymph Nodes Is Enough?"
-Annals of Surgical Oncology 2010 Mar; No. 17(3):676-8.
7. Colon J; Basha MR; Madero-Visbal R; Konduri S; Baker CH; **Herrera LJ**; Safe S; Sheikh-Hamad D; Abudayyeh A; Alvarado B; Abdelrahim M. "Tolfenamic Acid Decreases c-Met Expression Through Sp Proteins Degradation and Inhibits Lung Cancer Cells Growth and Tumor Formation in Orthotopic Mice"
-Invest New Drugs. 2009 Oct 23. [Epub ahead of print]
8. Papineni S; Chintharlapalli S; Abdelrahim M; Lee SO; Burghardt R; Abudayyeh A; Baker C; **Herrera L**; Safe S. "Tolfenamic Acid Inhibits Esophageal Cancer Through Repression of Specificity Proteins and c-Met"
-Carcinogenesis 2009 Jul; No. 30(7):1193-201.
9. Colon J; **Herrera L**; Smith J; Patil S; Komanski C; Kupelian P; Seal S; Jenkins DW; Baker CH. "Protection from Radiation-Induced Pneumonitis Using Cerium Oxide Nanoparticles"
-Nanomedicine 2009 Jun; No. 5(2):225-3.
10. Kupelian PA; Forbes A; Willoughby TR; Manon RR; Meeks SL; **Herrera L**; Johnston A, Herran JJ. "Implantation and Stability of Metallic Fiducials within Pulmonary Lesions"
-Int J Radiat Oncol Biol Phys 2007 Nov; No. 69(3): 777-85.
11. **Herrera LJ**; Correa AM; Vaporciyan AA, Hofstetter WL, Rice DC, Swisher SG, Walsh GL, Roth JA and Mehran RJ "Increased Risk of Aspiration and Pulmonary Complications after Lung Resection in Head and Neck Cancer Patients"
-Annals of Thoracic Surgery 2006 Dec; No. 82(6): 1982-7.
12. **Herrera LJ**; Davis, J; Livesay JJ "Popliteal Vein Aneurysm Presenting as a Popliteal Mass: A Case Report"
-Texas Heart Institute Journal 2006; No. 33(2): 246-8.
13. **Herrera LJ**; El-Hefnawy T; Querez- de Oliveira P; Raja S; Finkelstein SE; Gooding W; Luketich JD; Godfrey TE; Hughes SJ "The HGF Receptor c-Met is Overexpressed in Esophageal Adenocarcinoma".
-Neoplasia 2005 Jan; No. 7(1): 75-84.
14. **Herrera LJ**; Raja S; Gooding WE; El-Hefnawy T; Kelly L; Luketich JD and Godfrey TE "Quantitative Analysis of Circulating Plasma DNA Levels as a Tumor Marker in Patients with Thoracic Malignancies"
-Clinical Chemistry 2005. Jan; No. 51(1): 113-18.
15. **Herrera LJ**; Fernando HC; Perry Y; Christie NA; Buenaventura P; Luketich JD "Radiofrequency Ablation of Pulmonary Malignant Tumors in Nonsurgical Candidates"
-Journal of Thoracic and Cardiovascular Surgery 2003 April; No. 4(125): 929-37.
16. **Herrera LJ**; Lugo-Vicente H "Primary Embryonal Rhabdomyosarcoma of the Breast in an Adolescent Female: a Case Report"
-Journal of Pediatric Surgery 1998 Oct; No. 10(33):1582-84.

Book Chapters:

1. **Herrera LJ**; Walsh GL “Surgical Management of Residual Disease in Mediastinal Germ Cell Tumors with Normal Markers” Book chapter in “Difficult Decisions in Thoracic Surgery” Editor Mark K. Ferguson. Springer-Verlag, New York. 2007.
2. **Herrera LJ**; Vaporciyan AA “Surgical Treatment of Squamous Cancer of the Esophagus”. Book Chapter in “Advanced Therapy in Surgical Oncology”. Editors: Pollock PE; Curley SA; Ross MI B.C. Decker, Ontario. 2007.
3. **Herrera LJ**; Fernando HC; Luketich JD “Radiofrequency Ablation for Pulmonary Tumors” Book Chapter in “Radiofrequency Ablation for Cancer: Current Indications, Techniques and Outcomes” Editors Ellis LM; Curley SA; Tanabe KK Springer-Verlag, New York 2004.

Presentations/Scientific Abstracts:

1. **Herrera LJ**. “Surgery of the Airways”. July 2010. Department of Surgery Grand Rounds, Orlando Regional Medical Center, Orlando FL.
2. **Herrera LJ**. “Surgery of the Esophagus” September 2009. Invited speaker, Annual Scientific Meeting Panamerican Medical Association. Palm Coast, FL.
3. **Herrera LJ**. “Esophageal Cancer: A Surgeons Perspective” July 2008. Department of Surgery Grand Rounds, Orlando Regional Medical Center, Orlando, FL.
4. **Herrera LJ**. “Robotic Surgery” September 2008. Invited speaker, Annual Scientific Meeting Panamerican Medical Association. Palm Coast, FL.
5. **Herrera LJ**. “Update in Lung Cancer Surgery” September 2007. Invited speaker, Annual Scientific Meeting Panamerican Medical Association. Sarasota, FL.
6. **Herrera LJ** “Esophageal Inhibition Through Repression of Specificity Proteins and c-Met”. Oral Presentation, 2009 M. D. Anderson Cancer Center Orlando Research Symposium: Personalized Cancer Therapy. October 2009, Burnham Institute for Medical Research, Lake Nona, FL.
7. Mehran RJ; **Herrera LJ**; Correa AM; Vaporciyan AA, Hofstetter WL, Rice DC, Swisher SG, Walsh GL, Roth JA MD “The Effect of Radiotherapy and Surgery for Head and Neck Malignancies on the Postoperative Outcome of Patients with Metachronus Lung Carcinoma”. Oral Presentation, American Radium Society 88th Annual Meeting, May 2006, Maui, HI.
8. **Herrera LJ**; Correa AM; Vaporciyan AA, Hofstetter WL, Rice DC, Swisher SG, Walsh GL, Roth JA and Mehran RJ “Increased Risk of Aspiration and Pulmonary Complications after Lung Resection in Head and Neck Cancer Patients” Poster Presentation, Trainee Recognition Day, M.D. Anderson Cancer Center, May 2006, Houston, TX.
9. **Herrera LJ**; Correa AM; Vaporciyan AA, Hofstetter WL, Rice DC, Swisher SG, Walsh GL, Roth JA and Mehran RJ “Increased Risk of Aspiration and Pulmonary Complications after Lung Resection in Head and Neck Cancer Patients” Oral presentation, 42nd Annual Meeting Society of Thoracic Surgeons, January 2006, Chicago, IL.
10. **Herrera LJ**; Raja S; El-Hefnawy T; Luketich JD; Godfrey TE “Quantitative PCR Evaluation of Plasma DNA Levels in Thoracic Malignancies” Poster presentation.

- 94th Annual Meeting American Association for Cancer Research July 2003 Washington, DC. Proceedings Volume 44, 2nd Edition. Abstract #1528
11. El-Hefnawy T; **Herrera LJ**; Chedwick L; Raja S; Finkelstein S; Luketich JD; Godfrey TE; Hughes SJ “Met Tyrosine Kinase Overexpression in Esophageal Adenocarcinoma and its Down-regulation by COX-2 Inhibitors” Poster presentation. 94th Annual Meeting American Association for Cancer Research July 2003 Washington, DC. Proceedings Volume 44, 2nd Edition. Abstract # 2279
 12. Raja S; Mascarenhas BA; **Herrera LJ**; Rao U; Gupta D; Edington H; Kirkwood J; Hughes SJ; Godfrey TE “Molecular Staging of Sentinel Lymph Nodes in Patients with Melanoma by Quantitative RT-PCR” Poster presentation. 94th Annual Meeting American Association for Cancer Research July 2003 Washington, DC. Proceedings Volume 44, 2nd Edition. Abstract # 4427
 13. **Herrera LJ**; El-Hefnawy T; Raja S; Finkelstein SE; Luketich JD; Godfrey TE and Hughes SJ “Met Proto-oncogene is Overexpressed in Esophageal Adenocarcinoma” Oral Presentation, Cardiothoracic Symposium, Annual Meeting Association Academic Surgery, Boston, MA November 7-9, 2002.
 14. **Herrera LJ**; Fernando HC; Perry Y; Gooding W; Buenaventura P; Christie NA; Luketich JD “Radiofrequency Ablation of Pulmonary Malignancies in Non-Surgical Candidates” Oral presentation, Finalist paper Paul C. Sampson Resident Manuscript Competition. 82nd Annual Western Thoracic Surgical Association, June 2002. Big Sky, Montana.
 15. **Herrera LJ**; Mascarhenas B; Chedwick L; Kelly L; Edington H; Gooding W; Gupta D; Rao U and Godfrey TE “Rapid, Quantitative RT-PCR for Intra-operative Molecular Detection of Metastasis to Sentinel Lymph Nodes in Melanoma” Oral presentation, 93rd Annual Meeting American Association for Cancer Research April 2002, San Francisco, CA
 16. **Herrera LJ**; Fernando HC; Perry Y; Buenaventura P; Christie NA; Ferson P; Luketich JD “Feasibility of Percutaneous Radiofrequency Ablation of Peripheral Lung Tumors” Alvelo-Rivera M.; Poster presentation, Annual Lung Cancer Meeting, June 2002, Honolulu, HI.
 17. Mora EM; **Herrera LJ** “An Update of Cancer in Puerto Rico: Recent Database Analysis of Two Major Cancer Hospitals” Dept. of Surgery and Pathology U.P.R. School of Medicine. Oral presentation, Surgical Forum Annual Meeting of P.R. Chapter of the American College of Surgeons Feb 1998, San Juan, PR.

Demographics:

Birthplace: ■ Rio Piedras, Puerto Rico. December 13, 1972.

Citizenship/Residence: ■ U.S. citizen, Maitland Florida.

Family: ■ Wife: Jeanne
 Daughter: Victoria 10 years old, and Adriana 6 years old

Language: ■ Bilingual in English and Spanish

Career Goals:

- Academic general thoracic surgery focused in thoracic surgical oncology, minimally invasive surgery, clinical and translational research.