

Albert Yurvati, DO, PhD  
Medical Education  
Texas College of Osteopathic Medicine  
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## Area of Expertise

Dr. Yurvati and his research partner, Robert Mallet, are actively involved in several research projects, including a study designed to examine the role of pyruvate and erythropoietin as potential therapeutic agents for preventing brain damage during CPR using a pig model. Dr. Yurvati also conducts research internationally in conjunction with the University of Strathclyde's Department of Biomedical Engineering in Glasgow.

## Qualifications

BS in Health Science, California State University Los Angeles

PhD in Organizational Leadership, Northcentral University

DO, UNT Health Science Center

## Recent Publications

### **Acute heat exposure protects against endothelial ischemia-reperfusion injury in aged humans**

Hemingway, H. W., Richey, R. E., Moore, A. M., Olivencia-Yurvati, A. H., Kline, G. P. & Romero, S. A., May 2022, In: American Journal of Physiology - Regulatory Integrative and Comparative Physiology. 322, 5, p. R360-R367

### **Acute heat exposure improves microvascular function in skeletal muscle of aged adults**

Richey, R. E., Hemingway, H. W., Moore, A. M., Olivencia-Yurvati, A. H. & Romero, S. A., Mar 2022, In: American Journal of Physiology - Heart and Circulatory Physiology. 322, 3, p. H386-H393

### **Shear stress induced by acute heat exposure is not obligatory to protect against endothelial ischemia-reperfusion injury in humans**

Hemingway, H. W., Richey, R. E., Moore, A. M., Shokraiefard, A. M., Thomas, G. C., Olivencia-Yurvati, A. H. & Romero, S. A., Jan 2022, In: Journal of Applied Physiology. 132, 1, p. 199-208 10 p.

### **Influence of ischemia-reperfusion injury on endothelial function in men and women with similar serum estradiol concentrations**

Lalande, S., Hemingway, H. W., Jarrard, C. P., Moore, A. M., Olivencia-Yurvati, A. H., Richey, R. E. & Romero, S. A., Aug 2021, In: American Journal of Physiology - Regulatory Integrative and Comparative Physiology. 321, 2, p. R273-R278

### **Effect of endoplasmic reticulum stress on endothelial ischemia-reperfusion injury in humans**

Hemingway, H. W., Moore, A. M., Olivencia-Yurvati, A. H. & Romero, S. A., 4 Dec 2020, In: American Journal of Physiology - Regulatory Integrative and Comparative Physiology. 319, 6, p. R666-R672

### **Neural control of blood pressure is altered following isolated leg heating in aged humans**

Engelland, R. E., Hemingway, H. W., Tomasco, O. G., Olivencia-Yurvati, A. H. & Romero, S. A., Apr 2020, In: American Journal of Physiology - Heart and Circulatory Physiology. 318, 4, p. H976-H984

### **Acute lower leg hot water immersion protects macrovascular dilator function following ischaemia-reperfusion injury in humans**

Engelland, R. E., Hemingway, H. W., Tomasco, O. G., Olivencia-Yurvati, A. H. & Romero, S. A., 1 Feb 2020, In: Experimental physiology. 105, 2, p. 302-311 10 p.

### **A prospective, single-blind, randomized, phase III study to evaluate the safety and efficacy of Fibrin Sealant Grifols as an adjunct to hemostasis compared with manual compression in vascular surgery**

investigators of the Fibrin Sealant Grifols in Vascular Surgery Clinical Investigation Study Group, Nov 2019, In: Journal of Vascular Surgery. 70, 5, p. 1642-1651 10 p.

#### **Inline flow sensor for ventriculoperitoneal shunts: Experimental evaluation in swine**

Qin, C., Olivencia-Yurvati, A. H., Williams, A. G., Eskildsen, D., Mallet, R. T. & Dasgupta, P. K., May 2019, In: Medical Engineering and Physics. 67, p. 66-72 7 p.

#### **Pyruvate-enriched resuscitation for shock**

Mallet, R. T., Olivencia-Yurvati, A. H. & Bünger, R., 1 May 2018, In: Experimental Biology and Medicine. 243, 8, p. 663-664 2 p.

### **Sponsored Projects**

#### **An Implantable In-line Shunt Flow Monitor for Hydrocephalus Treatment**

Yurvati, A.

Intramural Research(TxMRC)

1/07/15 → 30/06/16

#### **A Novel Approach for Improving Cerebral Tissue Blood Flow and Oxygenation via Pulsatile Perfusion Therapy**

Rickards, C. & Yurvati, A.

American Heart Association

1/07/17 → 30/06/19

#### **Anti-Inflammatory Effects of Pyruvate - Fortified Resuscitation in Pulmonary Tissue During Hypoxia with TCOM Student Charla Baker**

Yurvati, A.

Intramural Research(UNTHSC)

1/09/13 → 31/12/14

#### **A Phase 3 Randomized, Double Blind, Vehicle Controlled Study Investigating the Safety and Efficacy of HP802-247 in the Treatment of Venous Leg Ulcers > 12 cm<sup>2</sup> to < 36 cm<sup>2</sup>.**

Yurvati, A.

Smith and Nephew

28/02/13 → 1/03/16

#### **A Phase 3, Randomized, Single-blind, Controlled Trial of Topical Fibrocaps in Intraoperative Surgical Hemostasis**

Yurvati, A.

ProFibrix

1/05/12 → 31/08/15

#### **A Propsective, Single-blind, Randomized, Phase III Study to Evaluate the Safety and Efficacy of Fibrin Sealant Grifols (FS Grifols) as an Adjunct to Hemostasis during Peripheral Vascular Surgery**

Yurvati, A.

Grifols, Inc

18/02/15 → 28/02/20

#### **A Prospective, Randomized, Controlled Study to Evaluate the Effectiveness and Safety of CELSTAT as an Adjunct to Hemostasis for Tissue Bleeding in Cardiothoracic, General and Vascular Surgery**

Yurvati, A.

Baxter Healthcare Corporation

8/08/16 → 7/08/21

#### **A Prospective, Randomized, Double-blind, Phase II Study to Evaluate the Safety and Efficacy of Topical Thrombin (Human) Grifols as an Adjunct to Hemostasis during Vascular, Parenchymous, Soft Tissue, and Spinal Open Surgeries**

Yurvati, A.

Grifols, Inc

2/05/14 → 31/05/19

#### **A Prospective, Single Arm, Open-Label Phase 2 Study to Characterize the Safety and Hemostatic Activity of Topical Firocaps in Surgical Hemostasis**

Yurvati, A.  
ProFibrix  
6/07/10 → 31/08/13

**Cardioprotective Mechanisms of Intermittent, Normobaric Hypoxia (For: Yang Jiang)**

Mallet, R. & Yurvati, A.  
Intramural Research(UNTHSC)  
1/06/16 → 31/05/17

**ChemoFx Pro, a Post-Market Data Collection Study of Physician Reported Outcomes**

Yurvati, A.  
Precision Therapeutics  
21/02/11 → 31/03/15

**Chronic Lower Extremity Heating for the Treatment of Hypertension in Older Women**

Romero, S. & Yurvati, A.  
University of Texas Southwestern Med  
1/03/19 → 31/12/23

**Differential Effects of Cardiac Arrest on Right vs Left Ventricular Metabolism**

Yurvati, A.  
Intramural Research(UNTHSC)  
1/10/14 → 30/12/15

**Novel Split Chest Drain Improves Post Surgical Thoracic Drainage**

Yurvati, A. & Mallet, R.  
Intramural Research(UNTHSC)  
15/01/12 → 14/07/13

**Phase II: A Novel Approach for Improving Cerebral Tissue Blood Flow and Oxygenation via Pulsatile Perfusion Therapy**

Rickards, C. & Yurvati, A.  
American Heart Association  
1/07/19 → 30/06/22

**Pyruvate-enriched Resuscitation to Reduce Inflammation and Free Radical Production During Simulated Hemorrhage**

Rickards, C., Yurvati, A. & Mallet, R.  
William & Ella Owens Med Research Foun  
1/06/17 → 30/06/18

**Pyruvate: Powerful Brain Protection after Cardiac Arrest**

Mallet, R., Yurvati, A., Yurvati, A., Simecka, J. & Yang, S.  
NINDS: Neurological Disorders & Stroke  
1/08/11 → 31/07/16

**Renal Effects of Prolonged CPR (For: Imran Qureshi)**

Yurvati, A.  
Intramural Research(UNTHSC)  
5/06/17 → 31/05/18

**Structural Properties of Reinforced Split Pleural Drain (For: Jason Gnasigamany)**

Yurvati, A.  
Intramural Research(UNTHSC)  
1/06/16 → 31/05/17

**Trial of MarrowStim PAD Kit for the Treatment of Critical Limb Ischemia (CLI) in Subjects with Severe Peripheral Arterial Disease (PAD), IDE Number BB-IDE-13996 (""Device"")**

Yurvati, A.  
Biomet Biologics  
1/12/10 → 31/01/14