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THEROX RECEIVES FDA APPROVAL FOR FIRST HEART ATTACK TREATMENT SINCE PCI TO REDUCE INFARCT SIZE

- SuperSaturated Oxygen (SSO₂) Therapy treats damaged heart tissue with hyperbaric levels of oxygen during a single catheter-delivered infusion
- Multiple clinical trials demonstrated that SSO₂ Therapy consistently and safely reduces infarct size
- Compared to PCI alone, SSO₂ Therapy has been proven to show a clinically significant 26 percent infarct size reduction¹
- Significant reduction in infarct size is strongly correlated with improved patient outcomes²
- SSO₂ Therapy is indicated for left anterior descending ST-elevation myocardial infarction (LAD STEMI) also known as widowmaker heart attacks

IRVINE, Calif., April 4, 2019 – TherOx, Inc., a privately held medical device company focused on improving treatment of acute myocardial infarction (AMI), announced that the U.S. Food and Drug Administration (FDA) granted premarket approval for its SuperSaturated Oxygen (SSO₂) Therapy. SSO₂ Therapy provides interventional cardiologists with the first and only FDA-approved treatment beyond percutaneous coronary intervention (PCI) to significantly reduce muscle damage in heart attack patients.

SSO₂ Therapy delivers hyperbaric levels of oxygen directly to the ischemic heart muscle immediately after the coronary artery has been successfully opened by PCI (angioplasty and stenting). It is indicated for patients who suffer the most serious kind of heart attacks, left anterior descending ST-elevation myocardial infarction (LAD STEMI) – also known as the widowmaker – treated within six hours of symptom onset. SSO₂ Therapy is adjunctively administered immediately following successful stent placement, with no delay in PCI treatment.

"Even after angioplasty with stenting, many heart attack patients suffer from irreversible damage to the heart muscle, which carries a poor prognosis in terms of mortality and the potential for future heart failure," said Gregg W. Stone, M.D., professor of medicine, Columbia University Medical Center. "SuperSaturated Oxygen is the only therapy shown in a pivotal randomized trial to reduce infarct size in patients with large anterior myocardial infarction, offering the potential to further improve outcomes in these high-risk patients despite successful primary angioplasty."

According to the American Heart Association, every year approximately 750,000 people in the U.S. have heart attacks. Although PCI has been the standard of care in treating AMI for 25 years, many patients do not achieve maximum clinical benefit and suffer from reduced heart function.

More than 30 percent of severe AMI patients develop heart failure³ and of those, 50 percent will die within five years.⁴

SSO₂ Therapy has been shown in multiple randomized prospective clinical trials to consistently and safely reduce infarct size in anterior AMI patients and thereby improve outcomes.

- A pivotal randomized controlled trial demonstrated a 26 percent relative reduction in infarct size compared to PCI alone.¹
 - o Infarct size reduction correlates strongly with reduction in future complications, including heart failure, hospitalizations and even death.²
- Additional clinical trial data show left ventricular stability at 30 days with no deleterious enlargement.^{5,6}

"We have repeatedly demonstrated that SSO₂ Therapy significantly reduces infarct size among patients who suffer from large anterior AMIs, which are the most serious heart attacks," said Kevin T. Larkin, president and chief executive officer of TherOx. "This FDA approval enables interventional cardiologists to provide the most advanced care available to further reduce infarct size, prevent heart failure and ultimately save lives."

SSO₂ Therapy is indicated for the preparation and delivery of supersaturated oxygen to targeted ischemic regions perfused by the patient's left anterior descending coronary artery immediately following revascularization by means of percutaneous coronary intervention (PCI) with stenting that has been completed within six hours after the onset of anterior acute myocardial infarction (AMI) symptoms caused by a left anterior descending artery infarct lesion.

About SSO₂ Therapy

A heart attack is typically caused when blood and oxygen flow to the heart is blocked or reduced and the heart's tiny capillaries swell, further restricting blood flow. If not quickly restored, irreversible damage to the heart muscle, or infarction, will occur.

SSO₂ Therapy is based on the known benefits of hyperbaric oxygen treatment in improving the body's ability to heal. SSO₂ Therapy infuses superoxygenated blood to improve microvascular flow and has been shown to save heart muscle by reducing infarct size.

Immediately after the coronary artery has been opened by PCI, SSO₂ Therapy delivers a one-time, 60-minute infusion of the patient's superoxygenated blood to the targeted ischemic area of the heart through a small catheter. The superoxygenated blood helps reduce capillary swelling to restore blood flow to surrounding tissue and decrease infarct size.^{7,8} SSO₂ Therapy is aligned with current guidelines for interventional cardiology procedures.

About TherOx, Inc.

TherOx is a privately held medical device company based in Irvine, California, focused on developing and commercializing SSO₂ Therapy for the sizeable AMI patient population to save hearts, improving and ultimately saving lives. For more information about TherOx, visit www.therox.com.

¹ Stone GW, et al. Effect of supersaturated oxygen delivery on infarct size after percutaneous coronary intervention in acute myocardial infarction. *Circ Cardiovasc Interv*; 2; 366-375. Sep 2009.)

² Stone, G.W. et al. Relationship Between Infarct Size and Outcomes Following Primary PCI: Patient-Level Analysis From 10 Randomized Trials. *J Am Coll Cardiol*. 2016;67(14):1674–83.

³ Gerber, et al. Atherosclerotic Burden and Heart Failure After Myocardial Infarction. *JAMA Cardiol.* 2016;1(2):156-162.

⁴ Fitch K, et al. The Cost Burden of Worsening Heart Failure in the Medicare Fee for Service Population: An Actuarial Analysis. *Milliman Client Report*. March 2017.

⁵ Warda HM, et al. (2005). "Effect of intracoronary aqueous oxygen on left ventricular remodeling after anterior wall ST-elevation acute myocardial infarction." *Am J Cardiol* 96(1): 22-24.

⁶ David SW, et al. Evaluation of intracoronary hyperoxemic oxygen therapy in acute anterior myocardial infarction: The IC-HOT study. *Catheter Cardiovasc Interv.* 2018;1–9.

⁷ Spears JR, et al. Aqueous Oxygen Attenuation of Reperfusion Microvascular Ischemia in a Canine Model of Myocardial Infarction. *ASAIO Jour.* 2003 Nov-Dec;49(6):716-20.

⁸ Bartorelli A, et al. Hyperoxemic Perfusion for Treatment of Reperfusion Microvascular Ischemia in Patients with Myocardial Infarction. *Am Jour of Cardio Drugs*. 2003. 3(4); 253-263.