**Technology:** Method to treat chronic heart failure and/or elevated cholesterol levels using 3,5-diiodothyropropionic acid and method to prepare same

**VA ID Number:** 01-072

**Inventor:** Eugene Morkin

**Location:** Tucson, AZ

**Topic:** Cardiology/Respiratory

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The VA has joint interest with The Arizona Board of Regents on the Behalf of the University of Arizona

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**Abstract:** Prodrugs of the pyridyl methyl sulfinyl benzimidazole type proton pump inhibitor drugs have a hydrolyzable arylsulfonyl or heteroarylsulfonyl group attached to the benzimidazole nitrogen. The prodrugs of the invention hydrolyze under physiological conditions to provide the proton pump inhibitors with a half life measurable in hours, and are capable of providing sustained plasma concentrations of the proton pump inhibitor drugs for longer time than presently used drugs. The generation of the proton pump inhibitor drugs from the prodrugs of the invention under physiological conditions allows for more effective treatment of several diseases and conditions caused by gastric acid secretion.