



October 10, 2014

## **Caldolor® Provides Favorable Inflammatory Response Results In Laparoscopic Cholecystectomy Surgery Patients**

### **- To be presented at the American Anesthesiology™ 2014 Conference**

NASHVILLE, Tenn., Oct. 10, 2014 /PRNewswire/ -- **Cumberland Pharmaceuticals Inc. (Nasdaq: CPIX)** today announced that preoperative intravenous ibuprofen improved overall quality of recovery in patients undergoing laparoscopic cholecystectomy surgery. These results will be presented at the American Anesthesiology 2014 Annual Meeting in New Orleans, Louisiana.



The investigator study was completed at the University of Medicine and Dentistry of New Jersey/Rutgers University and New York Methodist with Alex Bekker, MD, PhD, as the primary investigator. The study concluded that preoperative intravenous ibuprofen improved the overall quality of recovery including comfort, emotion and pain and reduced fatigue in the early postoperative period. Further, the study results indicated that preoperative administration of intravenous ibuprofen decreased the stress hormones catecholamines and cortisol postoperatively after laparoscopic cholecystectomy.

An oral presentation entitled, "*Preoperative Administration of IV Ibuprofen Improves Quality of Recovery after Laparoscopic Cholecystectomy*" will be presented on Sunday, October 12, at 4:00 p.m. ET.

The poster presentation entitled "*The Effect of Preoperative Administration of IV Ibuprofen on Stress Response in Patients Undergoing Laparoscopic Cholecystectomy*" will be on Sunday, October 12, at 9:00 a.m.ET.

For more information, please visit [www.goanesthesiology.org](http://www.goanesthesiology.org)

### **About Caldolor**

Caldolor is indicated for the management of mild to moderate pain and management of moderate to severe pain as an adjunct to opioid analgesics, and for the reduction of fever in adults. It is the first FDA approved intravenous therapy for fever. Caldolor is contraindicated in patients with known hypersensitivity to ibuprofen or other NSAIDs, patients with asthma, urticaria, or allergic type reactions after taking aspirin or other NSAIDs. Caldolor is contraindicated for use during the peri-operative period in the setting of coronary artery bypass graft (CABG) surgery. Caldolor should be used with caution in patients with prior history of ulcer disease or GI bleeding, in patients with fluid retention or heart failure, in the elderly, those with renal impairment, heart failure, liver impairment, and those taking diuretics or ACE inhibitors. Blood pressure should be monitored during treatment with Caldolor. For full prescribing information, including boxed warning, visit [www.caldolor.com](http://www.caldolor.com).

### **About Cumberland Pharmaceuticals**

Cumberland Pharmaceuticals Inc. is a Tennessee-based specialty pharmaceutical company focused on the acquisition, development and commercialization of branded prescription products. The Company's primary target markets include hospital acute care and gastroenterology. Cumberland's marketed products include Acetadote® (*acetylcysteine*) Injection for the treatment of acetaminophen poisoning, Caldolor® (*ibuprofen*) Injection, the first injectable treatment for pain and fever approved in the United States, and Kristalose® (*lactulose*) for Oral Solution, a prescription laxative. Cumberland is dedicated to providing innovative products which improve quality of care for patients. For more information, visit the Company's website at [www.cumberlandpharma.com](http://www.cumberlandpharma.com).

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