PATHFAST®

Cardiac Biomarker Analyzer

ENTRESTO™ (sacubitril/valsartan or LCZ696) and Heart Failure PATHFAST® and NT-proBNP

On February 16, 2021, the U.S. Food and Drug Administration approved an expanded indication for Entresto® (sacubitril/valsartan): to reduce the risk of cardiovascular death and hospitalization for heart failure in patients with chronic heart failure.1 Benefits are most clearly evident in patients with left ventricular ejection fraction below normal.1

In 2015, PARADIGM-HF demonstrated that ENTRESTO, a combination of sacubitril and a RAS inhibitor (valsartan), was superior to a RAS inhibitor (enalapril), in reducing the risk of the combined endpoint of cardiovascular death or hospitalization for heart failure in patients with symptomatic chronic heart failure (NYHA class II-IV) and systolic dysfunction (left ventricular ejection fraction $\leq 40\%$). Additionally, ENTRESTO decreased plasma NT-proBNP (not a neprilysin substrate) and increased plasma BNP (a neprilysin substrate) and urine cGMP compared with enalapril.¹

In 2019, PARAGON-HF demonstrated that ENTRESTO had a numerical reduction in the rate of the composite endpoint of total (first and recurrent) HF hospitalizations and CV death in patients with symptomatic heart failure with left ventricular ejection fraction ≥ 45%, and structural heart disease.1

The contrasting effects of ENTRESTO on the 2 types of natriuretic peptides represents an important finding, because the levels of the 2 peptides characteristically parallel each other during the course of heart failure. However, because BNP (but not NTproBNP) is a substrate for neprilysin, levels of BNP will reflect the action of the drug, whereas levels of NTproBNP will reflect the effects of the drug on the heart.²

PATHFAST NT-proBNP is an assay for quantitative measurement of NT-proBNP in the format of a chemiluminescent enzyme immunoassay. NT-proBNP can be accurately run and quantified on the PATHFAST analyzer within 17 minutes. Samples can be whole blood or plasma (EDTA or Heparin).3

References:

1. https://www.novartis.us/sites/www.novartis.us/files/entresto.pdf 2. Circulation January 6, 2015; DOI: 10.1161/CIRCULATIONAHA.114.013748 3. PF1061-KUS PATHFAST NTproBNP Ver 5

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Manufacturered By:

LSI Medience Corp.

