

**Name of Journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 54137

**Manuscript Type:** ORIGINAL ARTICLE

*Retrospective Cohort Study*

**Cardiorenal syndrome in patients with acute heart failure: neutrophil gelatinase-associated lipocalin does not predict acute kidney injury in patients admitted to coronary intensive care unit**

Ferrari F *et al.* NGAL does not predict acute kidney injury in acute heart failure

Fiorenza Ferrari, Elisa Scalzotto, Pasquale Esposito, Sara Samoni, Flavio Mistrorigo, Lilia Maria Rizo Topete, Massimo De Cal, Grazia Maria Virzì, Valentina Corradi, Rossella Torregrossa, Roberto Valle, Stefania Bianzina, Nadia Aspromonte, Matteo Floris, Alessandro Fontanelli, Alessandra Brendolan, Claudio Ronco

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The Cardiorenal Syndrome in patients with acute heart fail



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Sep 27, 2016 · Potential Diagnostic Algorithm for **Neutrophil** Gelatinase-Associated **Lipocalin** for **Acute Kidney Injury**. In **patients** presenting with AHF treated with intravenous diuretic agents, the results of AKINESIS do **not** support the use of **NGAL in patients** with an eGFR  $\geq 60$  ml/min/1.73 m<sup>2</sup>.

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Sep 27, 2016 · Background Worsening renal function (WRF) often occurs during **acute heart failure** (AHF) and can portend adverse outcomes; therefore, early identification may help mitigate risk. **Neutrophil** gelatinase-associated **lipocalin (NGAL)** is a novel renal biomarker that may **predict** WRF in certain disorders, but its value in AHF is unknown.

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## Patients with Cardiorenal Syndrome Revealed Increased ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4299262>

Palazzuoli A, Ruocco G, Beltrami M, Franci B, Pellegrini M, Lucani B, Nuti R, Ronco C. Admission plasma **neutrophil** gelatinase associated **lipocalin (NGAL)** predicts worsening renal function during hospitalization and post discharge outcome in **patients with acute heart failure**. **Acute Card Care**. 2014; 16:93–101.

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Author: Alberto Palazzuoli, Gaetano Maria Ruo...

Publish Year: 2014





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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3396227>

Maisel AS, Mueller C, Fitzgerald R, Brikhan R, Hiestand BC, Iqbal N, Clopton P, van Veldhuisen DJ.

**Prognostic utility of plasma neutrophil gelatinase-associated lipocalin in patients with acute heart failure: the NGAL Evaluation Along with B-type NaTriuretic Peptide in acutely decompensated heart failure (GALLANT) trial.** Eur J Heart Fail.

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**Urine neutrophil gelatinase-associated lipocalin (uNGAL)** has shown promise as a biomarker for the early detection of **acute kidney injury (AKI)** in fixed models of **injury**, but its ability to **predict AKI** and provide prognostic information in critically **ill adults** is unknown.

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