



# Diagnostic Test for Acute Kidney Injury

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## Technology description

In the United States alone, there are at least 17 million cases of acute kidney injury (AKI) in hospitalized patients each year.

The incidence of this diagnosis has steadily increased and is associated with a high mortality rate of 45-80%

Yale researchers have identified a new use for YKL-40 – as a protein-based biomarker for renal disease and a predictor of kidney allograft success.

This diagnostic test can rapidly identify patients who are at greatest risk of sustained renal failure and in need of subsequent dialysis

Early detection of AKI, especially when coupled with immunosuppressive therapy after transplantation can be critical in curbing the alarming mortality rate associated with this diagnosis. As shown in the figure, both urine and blood YKL-40 values increase dramatically in kidney transplant patients with delayed graft function (DGF) compared to those with slow (SGF) and immediate graft function (IGF)

## Institution

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