

Acute Renal Failure (ARF) – Pipeline Insights – 2018 Size, Share, Industry, Forecast and outlook (2024-2031) Market -

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Contents

ACUTE RENAL FAILURE

- Acute renal failure (ARF) is a sudden loss of kidney's ability to eliminate excess fluids, salts and metabolic waste from the body that leads to the accumulation of metabolic waste and electrolytes, which will be life-threatening. Kidney eliminates creatinine (Metabolic waste) from the body.
- However, due to few medications like trimethoprim, cimetidine, and sulfa-methaoxazole, tubular secretion of the kidney is reduced.
- It leads to accumulation of creatinine in the blood, which leads to acute renal failure. Causes of ARF are categorized as prerenal, intrarenal and postrenal. Prerenal causes are common with depletion of intravascular volume. Intrarenal is due to damage of the tubules. Postrenal is due to the obstruction of tracks. Few of the key risk factors associated with ARF include –kidney diseases, liver diseases, diabetes, high blood pressure, and heart failure.
- Treatment mainly includes the underlying cause of ARF. It mainly includes the balancing of body fluids, potassium supplements, calcium supplements, and dialysis. The treatment is directed to optimize the renal perfusion and blood glucose control.
- Global Acute Renal Failure Therapeutics market witnessed rapid growth due to rising demand for potential health benefits.
- International private foundations are actively involved in raising awareness. Collaborative, multidisciplinary initiative is taken by the companies to develop an innovative therapy for acute renal failure. Many novel therapies are under the later phase of development targeting a better preventive and therapeutic approach.
- Most of the companies are developing innovative technologies for the synthesis or production of drug candidates for the treatment of AKI.
- Quark Pharmaceuticals is focusing on developing an innovative technology platform

for generating chemically modified siRNA compounds like QPI-1002 targeting the p53 gene and their delivery to the desired organs. Silver Creek Pharmaceuticals is using smart growth factor technology platform for the development of growth factors, which play an important role in the pathology of many disease states, and in development, maintenance of tissue homeostasis. AM?Pharma is developing a recombinant human Alkaline Phosphatase (recAP) for inflammatory diseases. Angion Biomedica is using BB3, a small molecule with hepatocyte growth factor (HGF)-like activity, which is entering Phase 3 clinical trials in order to limit delayed graft function in kidney transplant patients, and entering Phase 2 clinical trials in patients with cardiac surgery who develop acute kidney injury (AKI). LG Life Sciences is developing Gemigliptin that is in Phase II/III of AKI.

- Alloksys Life Sciences developed the therapeutic RESCAP® platform based on Alkaline Phosphatase (AP), a naturally occurring protein in the human body. After successful development of Exponential Biotherapeutics lead product (EA-230) for AKI and irradiation damage, EBI's pipeline provides a path forward for the development of new and promising critical care therapies for multiple organ damage. Higher number of studies is found to be in Phase II, Phase III trials of drug development compared to Phase I.
- Because of the increasing burden of acute renal failure, professional organizations and societies are spreading the information effectively to increase awareness. American Society of Nephrology and International society of nephrology are professional organizations that are involved in promoting education and research.
- Acute renal failure is common globally and imposes high health care burden. All these factors are the drivers in the rapid growth of acute renal failure market. Late recognition, lack of institutions and caregiver coordination, inappropriate knowledge acts as a restraint in the growth of the acute renal failure Therapeutics market.

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