

Risk of hypotension post-surgery and average burden for the patient to treat acute kidney injury and myocardial infraction



Situation

A study planned to examine the post-surgical complication (i.e., acute kidney injury or myocardial infraction) and their average burden for the patient



Objective

IQVIA assisted the client in reaching the following key objectives:

- Rate of acute kidney injury or myocardial infraction after hypotension
- Rate of renal replacement therapy in patients with acute kidney injury
- Incremental length of stay
- Mortality rate
- Cost of acute kidney injury or myocardial infraction per patient
- Cost of renal replacement therapy per patient



Approach and methodology

- IQVIA followed the retrospective analysis approach to achieve the client objectives
- Surgical procedures include - Abdominal aortic aneurysm open repair, Aorto-iliac & peripheral bypass, Esophagectomy, Gastrectomy, Colectomy, Resection of rectum, Hepatectomy, Pancreatectomy, Total cystectomy, Femur & hip fracture repair



Results and impact

- **Client was able to identify the following:**
 - » Incremental length of stay observed for the patients having procedure with AKI complications
 - » AKI complications after the procedures demonstrated significant increase in the cost burden for the patient