

ACUTE RENAL FAILURE FOLLOWING CARDIOPULMONARY BYPASS

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Master Degree in Anaesthesia

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بسم الله الرحمن الرحيم

**قالوا سبحانك لا علم لنا إلا ما علمتنا،
إنك أنت العليم الحكيم**

صدق الله العظيم

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***Introduction and
aim of the work***

INTRODUCTION AND AIM OF THE WORK

Any major surgical intervention, or indeed trauma of any kind may result in temporary, recoverable severe renal damage. This is particularly so with major cardiovascular surgery (*Thompson, 1981*).

Advances in surgical technique will allow more patients with heart disease and who are older or with more tenuous medical condition to be operated upon (*Mcleish et al., 1977*).

Postoperative acute renal failure is a frequent complication of open heart surgery (*Koning, 1989*). The onset of acute renal failure carries a poor prognosis, not solely because of loss of renal function *per se*, but also because of the life-threatening complications including sepsis, gastrointestinal haemorrhage, and cerebral venous system dysfunction (*Abel et al., 1976*).

The causes of such acute renal failure are several. However, primacy is usually attributed either to postoperative cardiac dysfunction or to events that

occur during cardiopulmonary bypass (*Abel et al., 1976*).

Also, it is found that there is proportional relation between preoperative renal function and the incidence of postoperative renal failure (*McLeish et al., 1977*).

AIM OF THE WORK:

Collecting different views about the effect of cardiopulmonary bypass on the kidney function, causes and methods of treatment of acute renal failure following open heart surgery.

***Functional Anatomy
of the Kidney***

