The Clinical Course of Acute Kidney Disease after Cardiac Surgery: A Retrospective Observational Study

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Short Title: AKD after Cardiac Surgery

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Supplemental Figure: Clinical course of AKI subtypes and AKD

(a) Transient AKI

Stage 1 (N=245)
- No AKD (N=110)
  - Stage 1 (N=100)
    - Stage 2 (N=25)
      - Stage 3 (N=10)

Stage 2 (N=46)
- No AKD (N=18)
  - Stage 1 (N=8)
    - Stage 2 (N=16)
      - Stage 3 (N=4)

Stage 3 (N=6)
- No AKD (N=2)
  - Stage 1 (N=0)
    - Stage 2 (N=2)
      - Stage 3 (N=2)

(b) Persistent AKI

Stage 1 (N=13)
- No AKD (N=5)
  - Stage 1 (N=6)
    - Stage 2 (N=1)
      - Stage 3 (N=1)

Stage 2 (N=65)
- No AKD (N=17)
  - Stage 1 (N=14)
    - Stage 2 (N=23)
      - Stage 3 (N=11)

Stage 3 (N=125)
- No AKD (N=30)
  - Stage 1 (N=12)
    - Stage 2 (N=20)
      - Stage 3 (N=63)
**Supplemental Table. AKI subtype, AKD, and 90-day mortality and renal recovery.**

| AKI subtype  | AKD                  | 90-day mortality (N, %) | Renal recovery (N, %) |
|--------------|----------------------|-------------------------|-----------------------|
|              |                      | (N=651)                 |                       |
| Transient AKI| No AKD (N=400)       | 6 (1.5%)                | 392 (98.0%)           |
|              | AKD (N=251)          | 38 (15.1%)<sup>a</sup>  | 166 (66.1%)<sup>a</sup>|
| Persistent AKI| No AKD (N=53)       | 3 (5.7%)                | 48 (90.6%)            |
|              | AKD (N=152)          | 42 (27.6%)<sup>a,b</sup>| 56 (36.8%)<sup>a,b</sup>|

<sup>a</sup>, p<0.01 when compared with No AKD in any AKI subtype

<sup>b</sup>, p<0.01 when compared with transient AKI in AKD