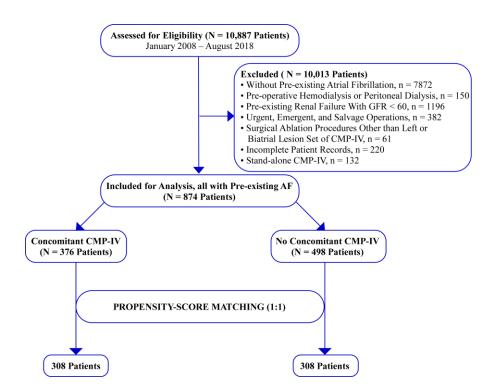
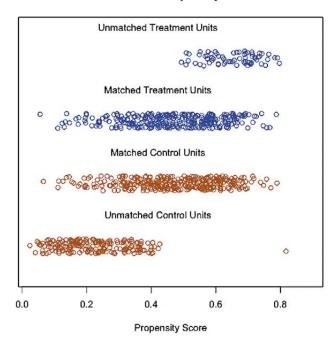
Figure E1. CONSORT diagram showing study population selection.



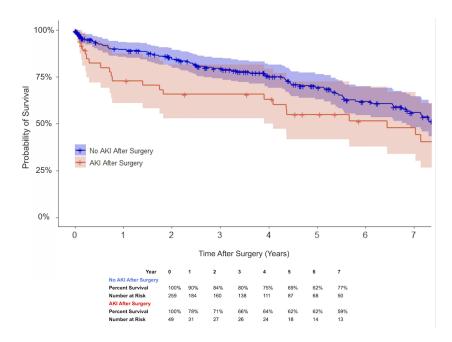
CMP-IV, Cox-Maze IV; GFR, Glomerular filtration rate.

**Figure E2.** Distribution of propensity scores between concomitant CMP-IV (blue) and no AF surgery (red) groups, before and after matching.

## **Distribution of Propensity Scores**



**Figure E3.** Kaplan-Meier depiction of late survival for patients who underwent no AF surgery stratified by new onset postoperative AKI with 95% confidence intervals: no AKI after surgery (blue) and AKI after surgery (red) (P=0.014).



AF, atrial fibrillation; AKI, acute kidney injury.

## **Supplementary Tables:**

Table E1. Cox-Maze Lesion Set Subgroup Analysis

Variable	Biatrial CMP-IV	Left Sided CMP-IV	<i>P</i> -value
	Lesion Set n=277	Lesion Set n=31	
CPB time (mins)	182 [158-213]	156 [132-188]	0.002
Aortic Cross-Clamp Time (mins)	94 [75-112]	96 [81-117]	0.242
AKI Threshold			
AKI	90 (32%)	9 (29%)	0.697
Renal Failure	18 (6%)	1 (3%)	0.475
Dialysis	14 (5%)	0 (0%)	0.202
Relative increase in serum creatinine	1.27 [1.11-1.57]	1.20 [1.02-1.50]	0.230
from baseline			
Postoperative GFR (mL/min/1.73m <sup>3</sup> )	60 [45-73]	63 [46-74]	0.699

Values are n (%) or median with interquartile range [*IQR*], unless otherwise indicated. *AF*, atrial fibrillation; *AKI*, acute kidney injury; *CMP-IV*, Cox-Maze IV procedure; *CPB*, cardiopulmonary bypass; *GFR*, glomerular filtration rate.

**Table E2. Type of Concomitant Procedures** 

<b>Concomitant Operation</b>	No AF Surgery	Concomitant CMP-IV
	n=308	n=308
CABG	26 (8%)	40 (13%)
$AVR \pm CABG$	132 (43%)	51 (17%)
MV Repair or Replacement $\pm$ AVR	106 (35%)	182 (59%)
Other	44 (14%)	35 (11%)

Values are n (%) unless otherwise indicated. *AF*, atrial fibrillation; *AVR*, aortic valve replacement; *CABG*, coronary artery bypass graft; *CMP-IV*, Cox-Maze IV procedure; *MV*, mitral valve.