

## General anesthetic agents and renal function after nephrectomy

### : Supplemental Materials

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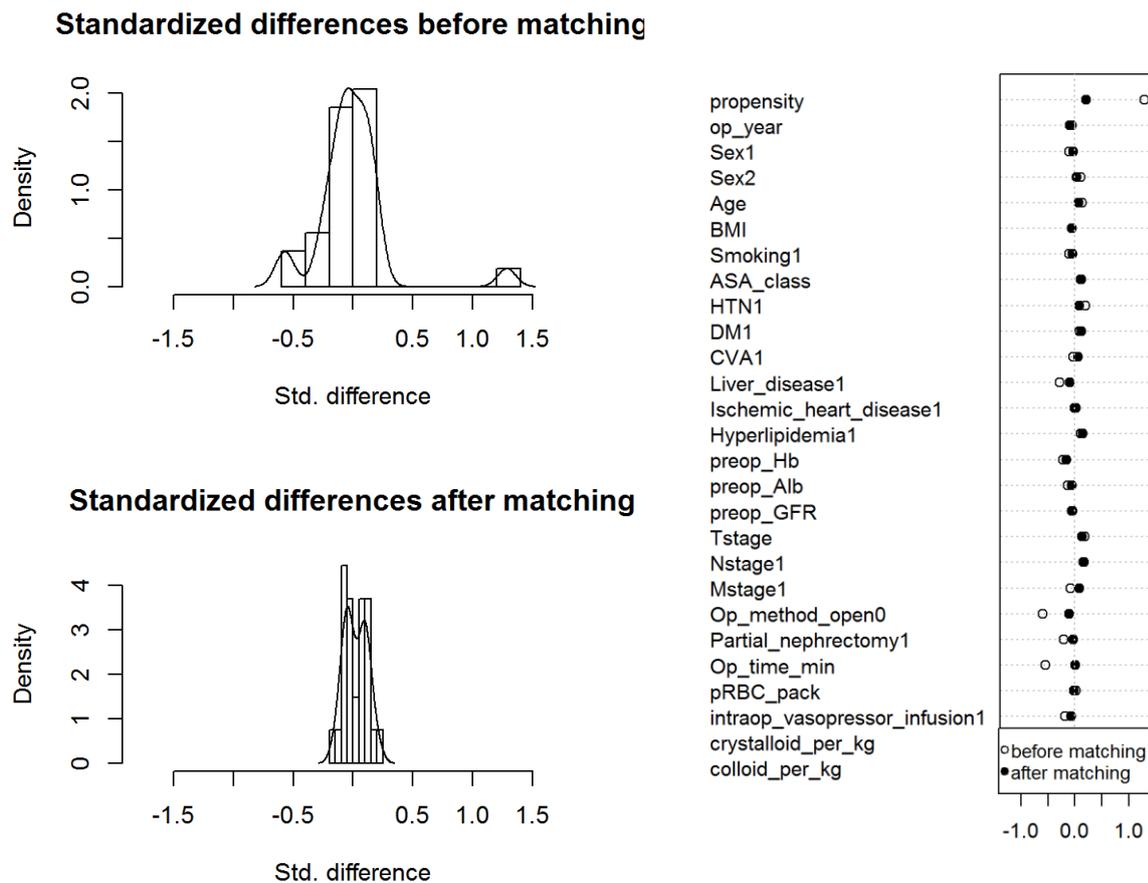
**Supplemental Table S1.** Comparison of incidence of primary and secondary outcomes between patients according to the main anesthetic agents during surgery after propensity score matching.

Outcomes	Propofol	Volatile agents	P-value
Number of patients before matching	130	957	
Postoperative AKI, n	29 (22.3)	342 (35.7)	0.002
Stage 1	24 (18.5)	303 (31.7)	
Stage 2	1 (0.8)	5 (0.5)	
Stage 3	4 (3.1)	34 (3.6)	
Postoperative new-onset CKD stage 3a, n	33 (25.4)	427 (44.6)	<0.001
CKD upstaging, n	38 (29.2)	448 (46.8)	<0.001
Number of patients after matching	126	126	
Postoperative AKI, n	27 (21.4)	43 (34.1)	0.024
Stage 1	23 (18.3)	41 (32.5)	
Stage 2	1 (0.8)	-	
Stage 3	3 (2.4)	2 (1.6)	
Postoperative new-onset CKD stage 3a, n	32 (25.4)	44 (34.9)	0.100
CKD upstaging, n	36 (28.6)	69 (54.8)	<0.001

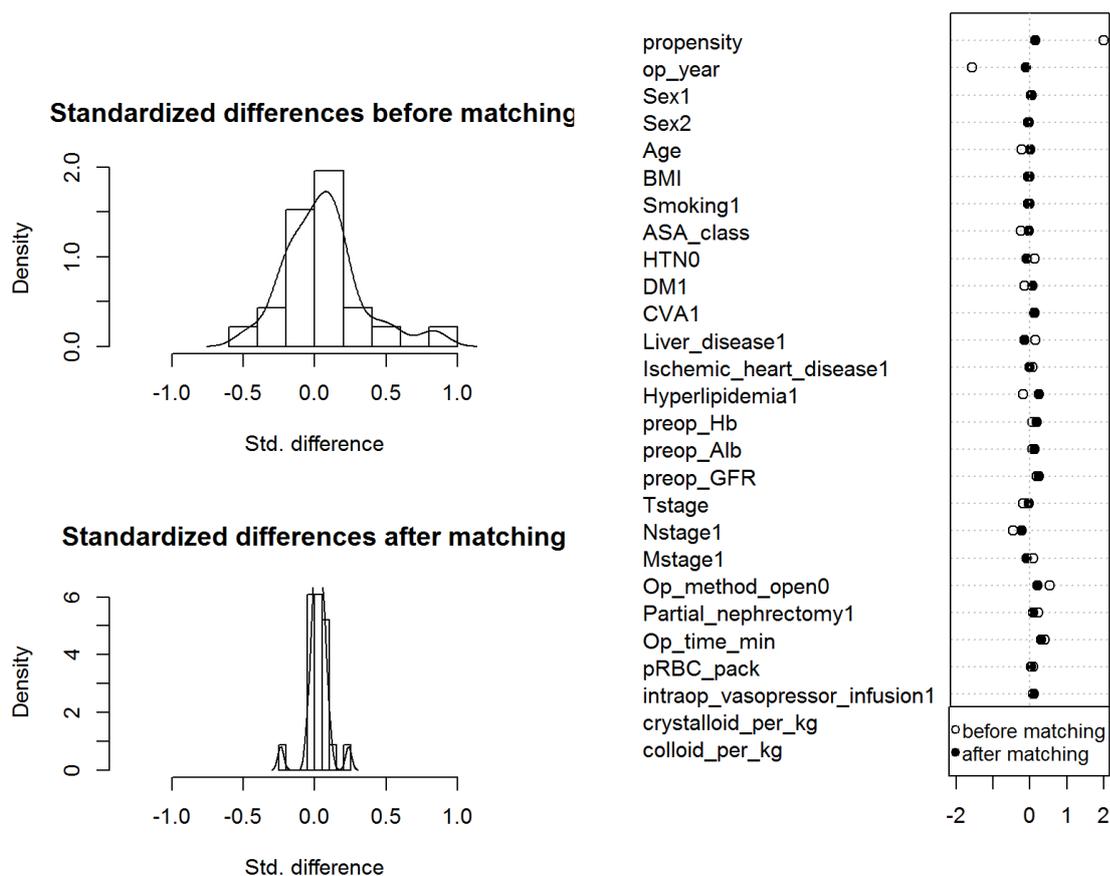
The values are presented as the median (interquartile range) or number (%).

AKI = acute kidney injury determined by KDIGO creatinine criteria, CKD = chronic kidney disease.

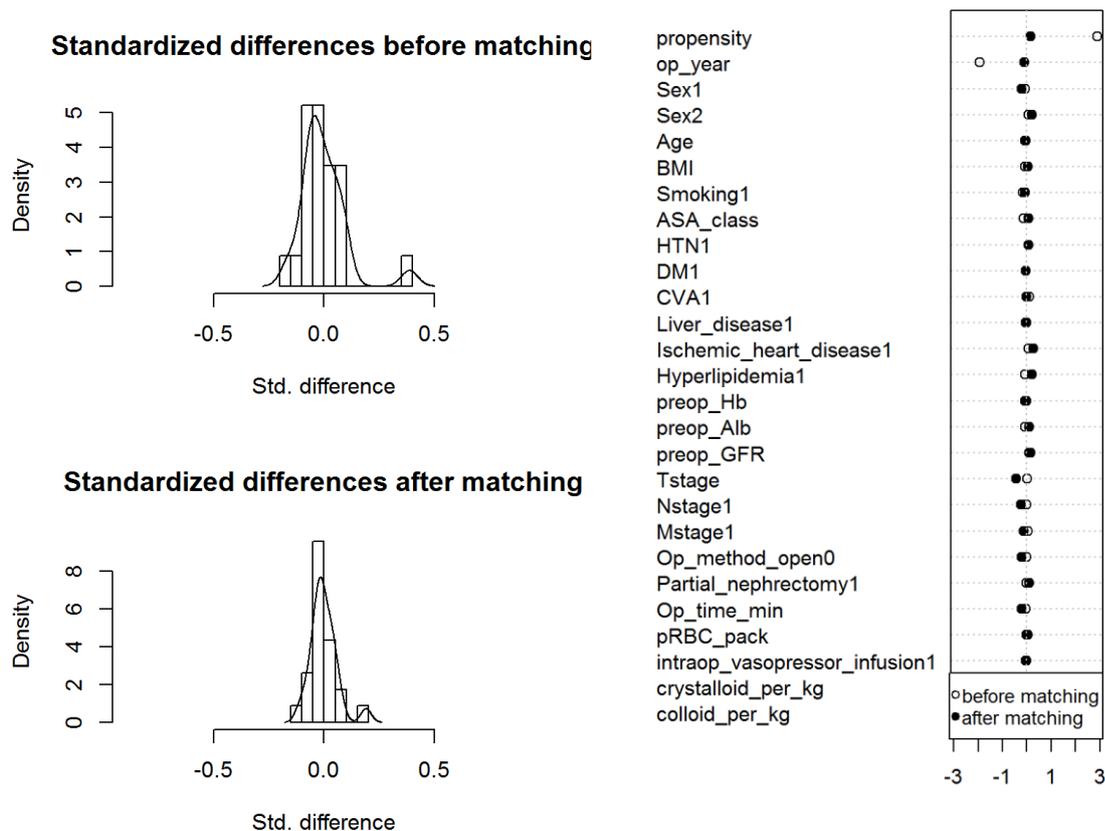
**Supplemental Figure S1.** Histograms (left) and covariate balance plot (right) of distribution of standardized differences of covariates between the patients who received propofol and sevoflurane during surgery before and after matching. BMI = body-mass index, ASA\_class = American Society of Anesthesiologist physical status classification, HTN = hypertension, DM = diabetes mellitus, CVA = cerebrovascular accident, Hb = hemoglobin, Alb = albumin, GFR = glomerular filtration rate, pRBC = packed red blood cells.



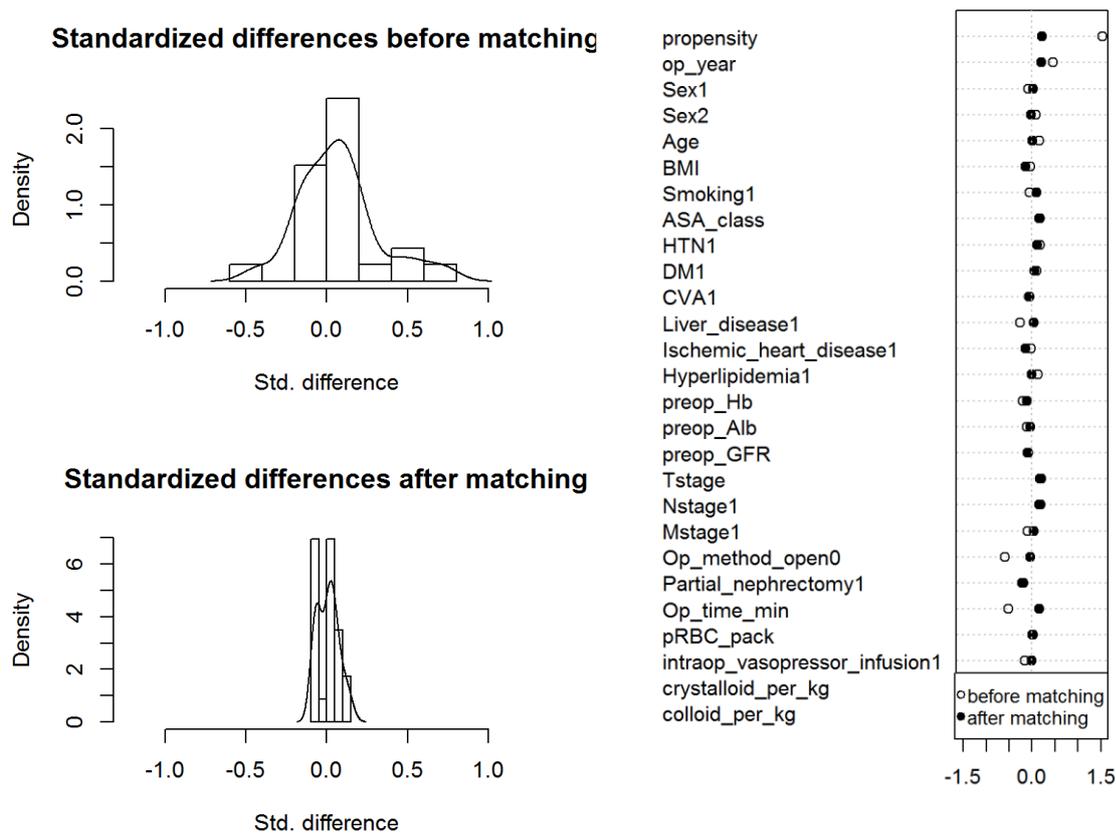
**Supplemental Figure S2.** Histograms (left) and covariate balance plot (right) of distribution of standardized differences of covariates between the patients who received propofol and desflurane during surgery before and after matching. BMI = body-mass index, ASA\_class = American Society of Anesthesiologist physical status classification, HTN = hypertension, DM = diabetes mellitus, CVA = cerebrovascular accident, Hb = hemoglobin, Alb = albumin, GFR = glomerular filtration rate, pRBC = packed red blood cells.



**Supplemental Figure S3.** Histograms (left) and covariate balance plot (right) of distribution of standardized differences of covariates between the patients who received sevoflurane and desflurane during surgery before and after matching. BMI = body-mass index, ASA\_class = American Society of Anesthesiologist physical status classification, HTN = hypertension, DM = diabetes mellitus, CVA = cerebrovascular accident, Hb = hemoglobin, Alb = albumin, GFR = glomerular filtration rate, pRBC = packed red blood cells.



**Supplemental Figure S4.** Histograms (left) and covariate balance plot (right) of distribution of standardized differences of covariates between the patients who received propofol and volatile agents during surgery before and after matching. BMI = body-mass index, ASA\_class = American Society of Anesthesiologist physical status classification, HTN = hypertension, DM = diabetes mellitus, CVA = cerebrovascular accident, Hb = hemoglobin, Alb = albumin, GFR = glomerular filtration rate, pRBC = packed red blood cells.



**Supplemental Figure S5.** Kaplan-Meier survival curve analysis of new-onset chronic kidney disease according to the main anesthetic agents (TIVA vs. inhalation agents) before (A) and after (B) propensity score matching. The results of log-rank test between the groups are shown on the figure.

