**General anesthetic agents and renal function after nephrectomy**

**: Supplemental Materials**

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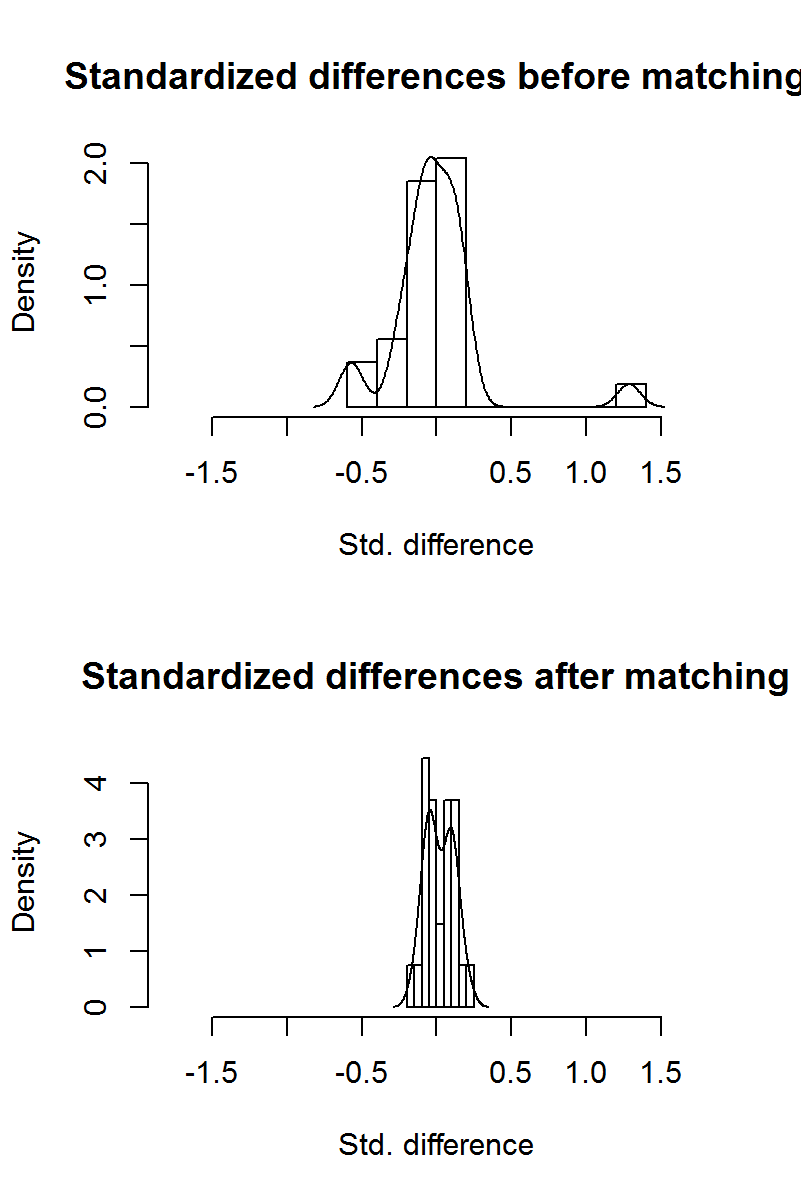
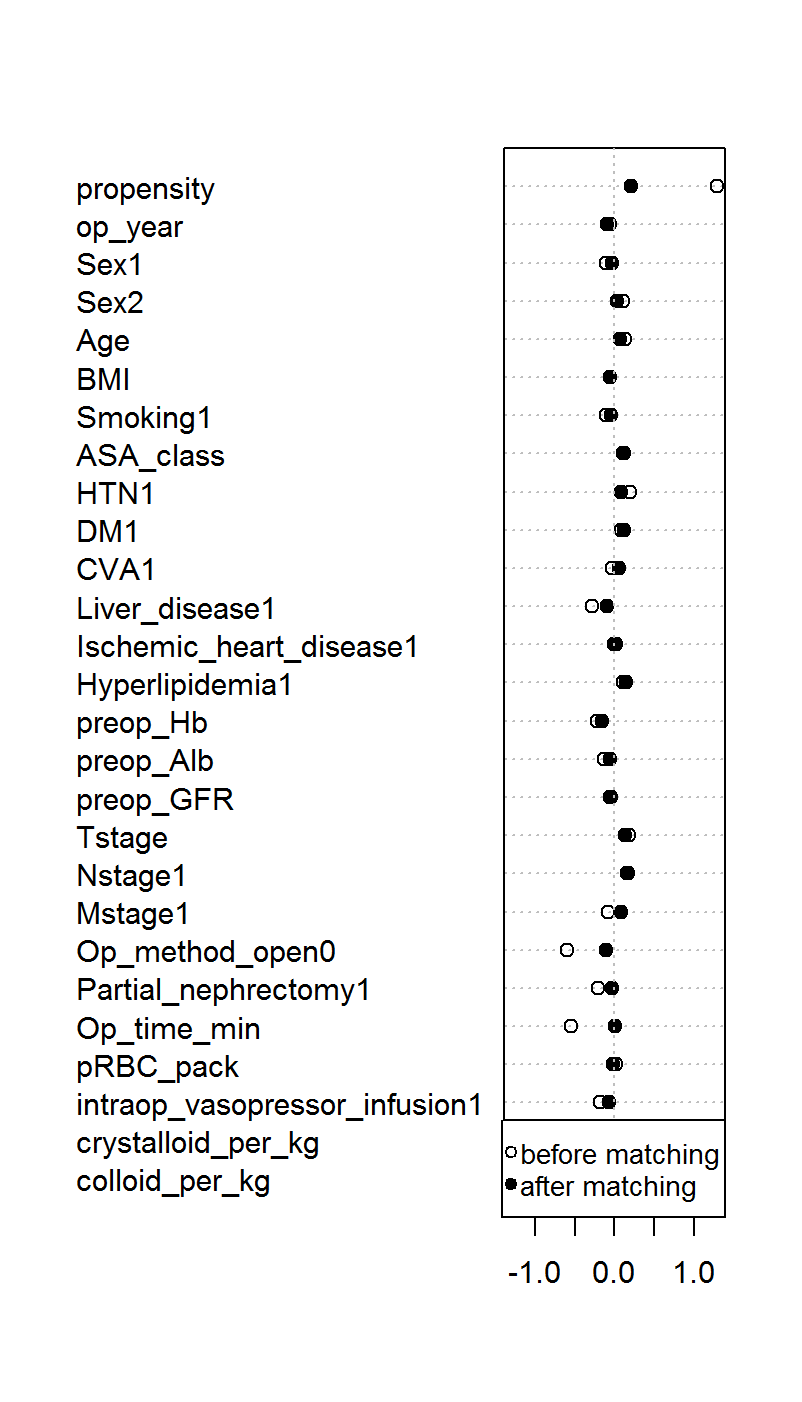
**Supplemental Table S1.** Comparison of incidence of primary and secondary outcomes between patients according to the main anesthetic agents during surgery after propensity score matching.

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| --- | --- | --- | --- |
| 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 |

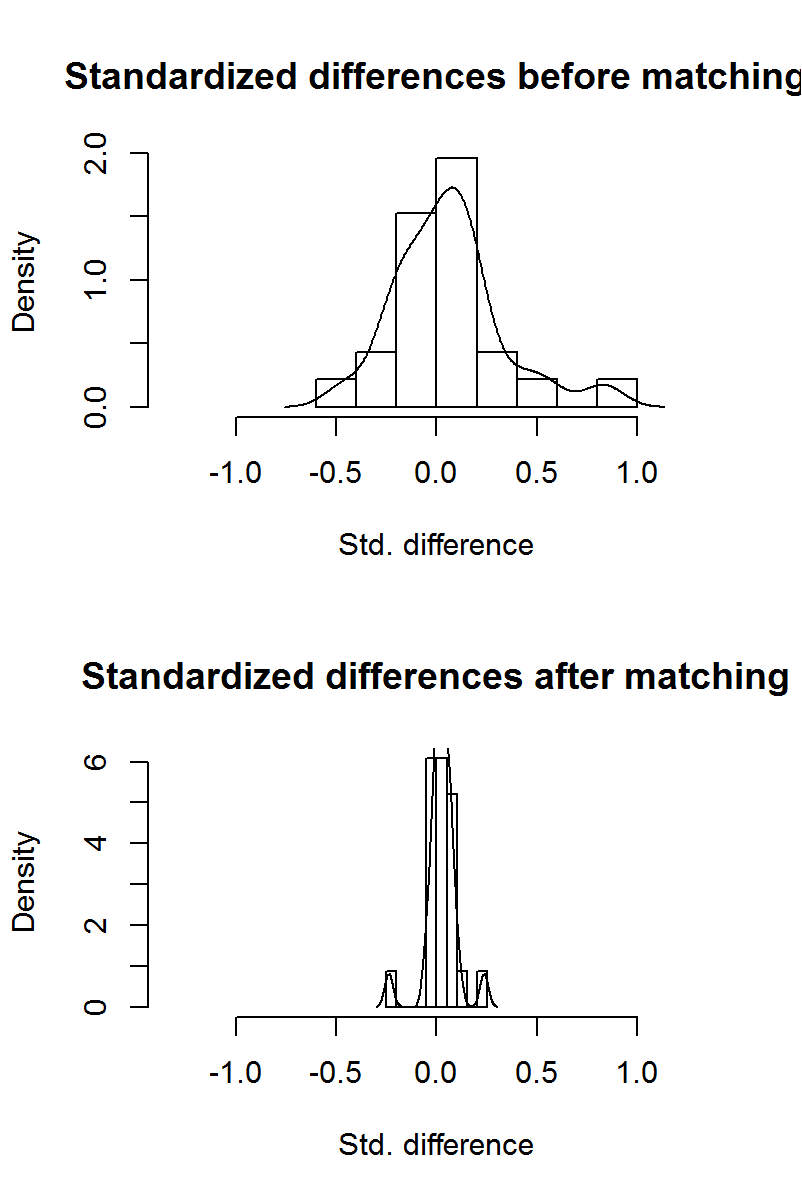
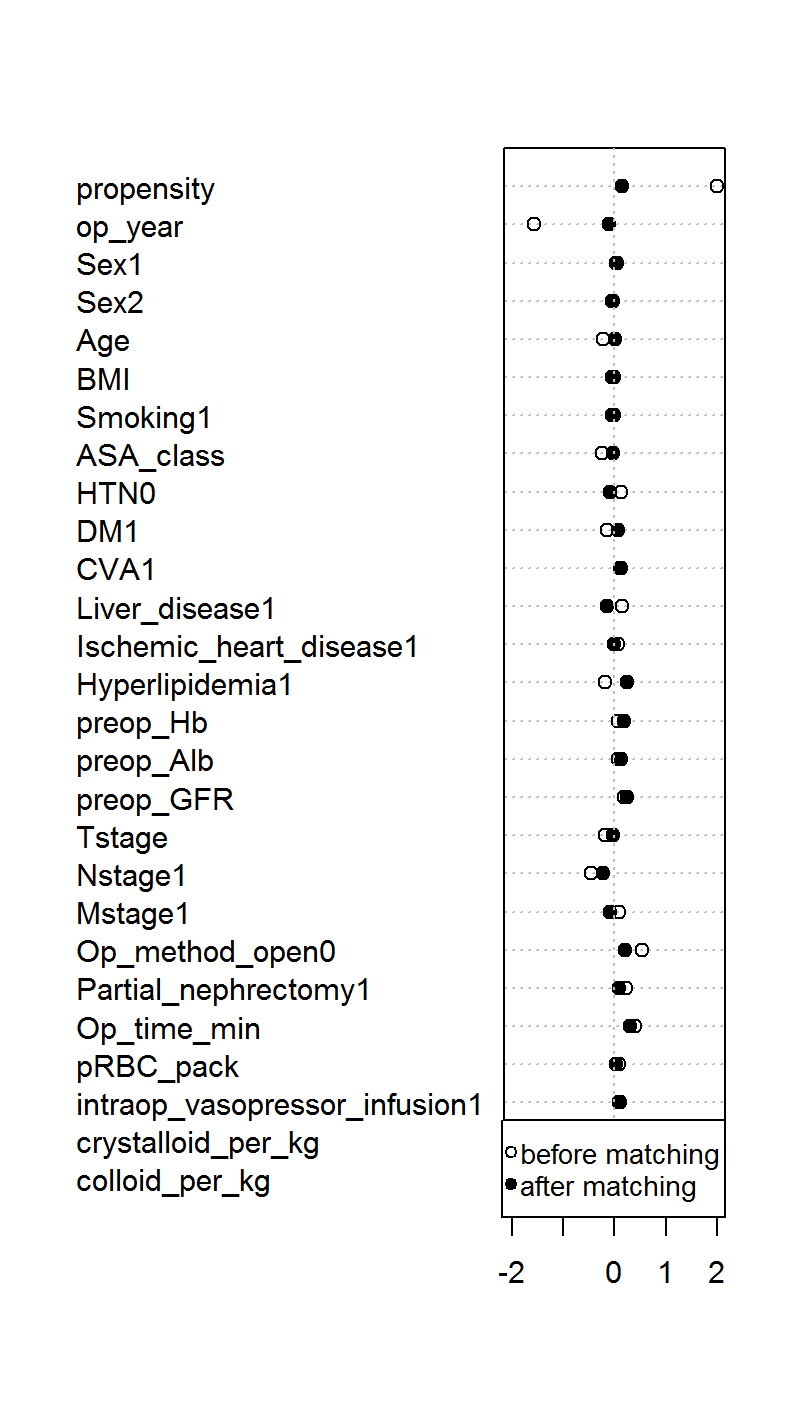
The values are presented as the median (interquartile range) or number (%).

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

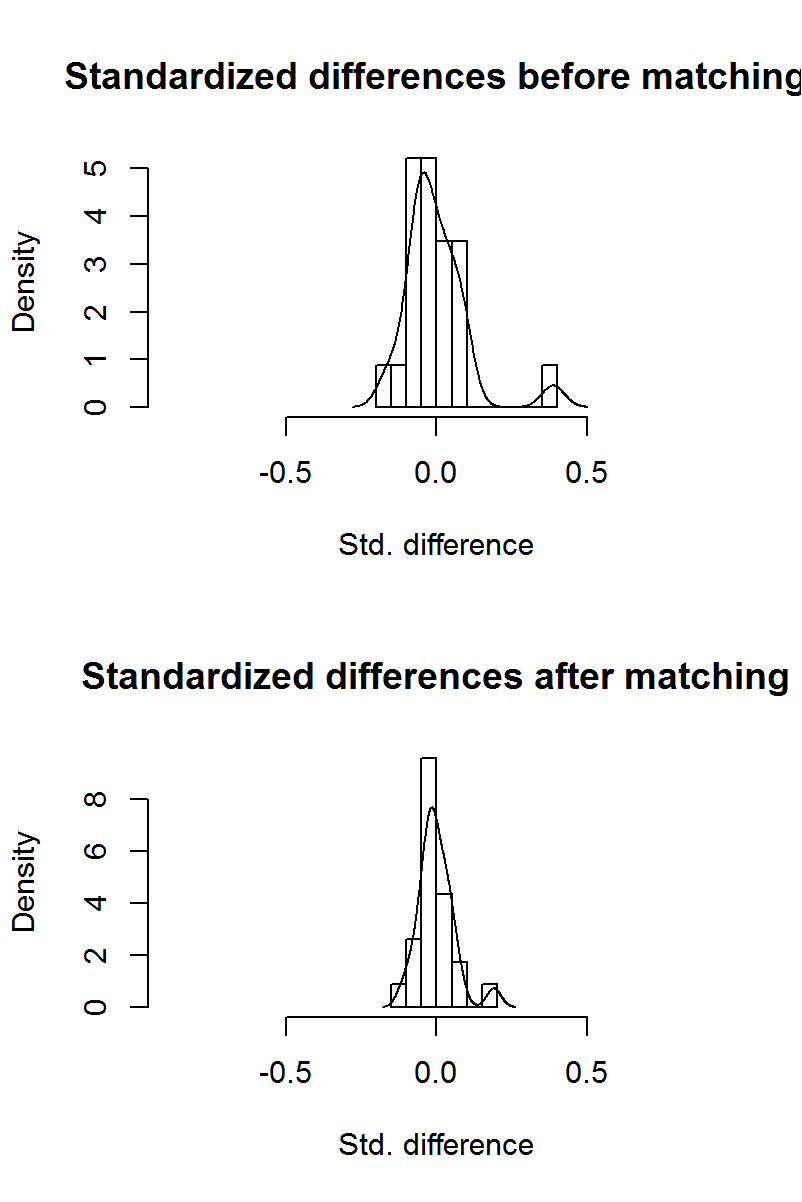
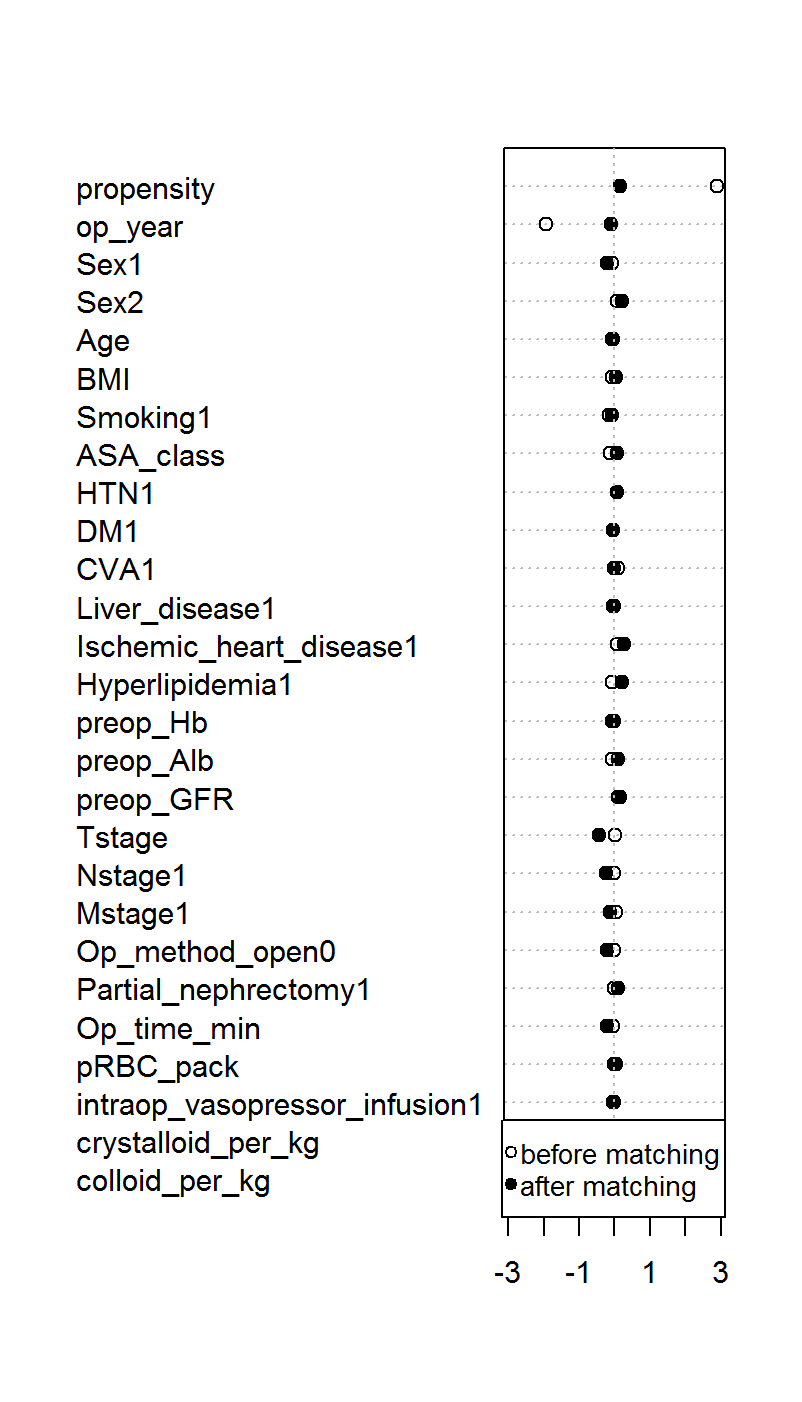
**Supplemental Figure S1.** Histograms (left) and covariate balance plot (right) of distribution of standardized differences of covariates between the patients who received propofol and sevoflurane during surgery before and after matching. BMI = body-mass index, ASA\_class = American Society of Anesthesiologist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

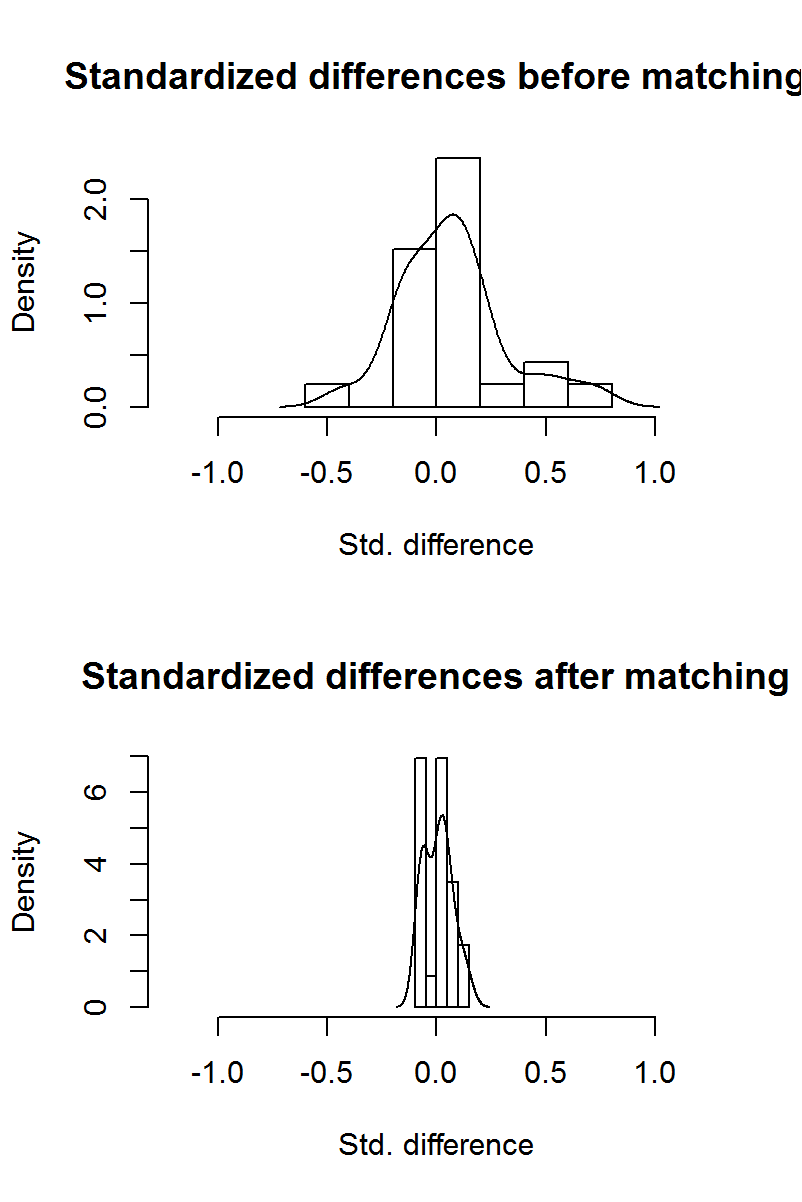
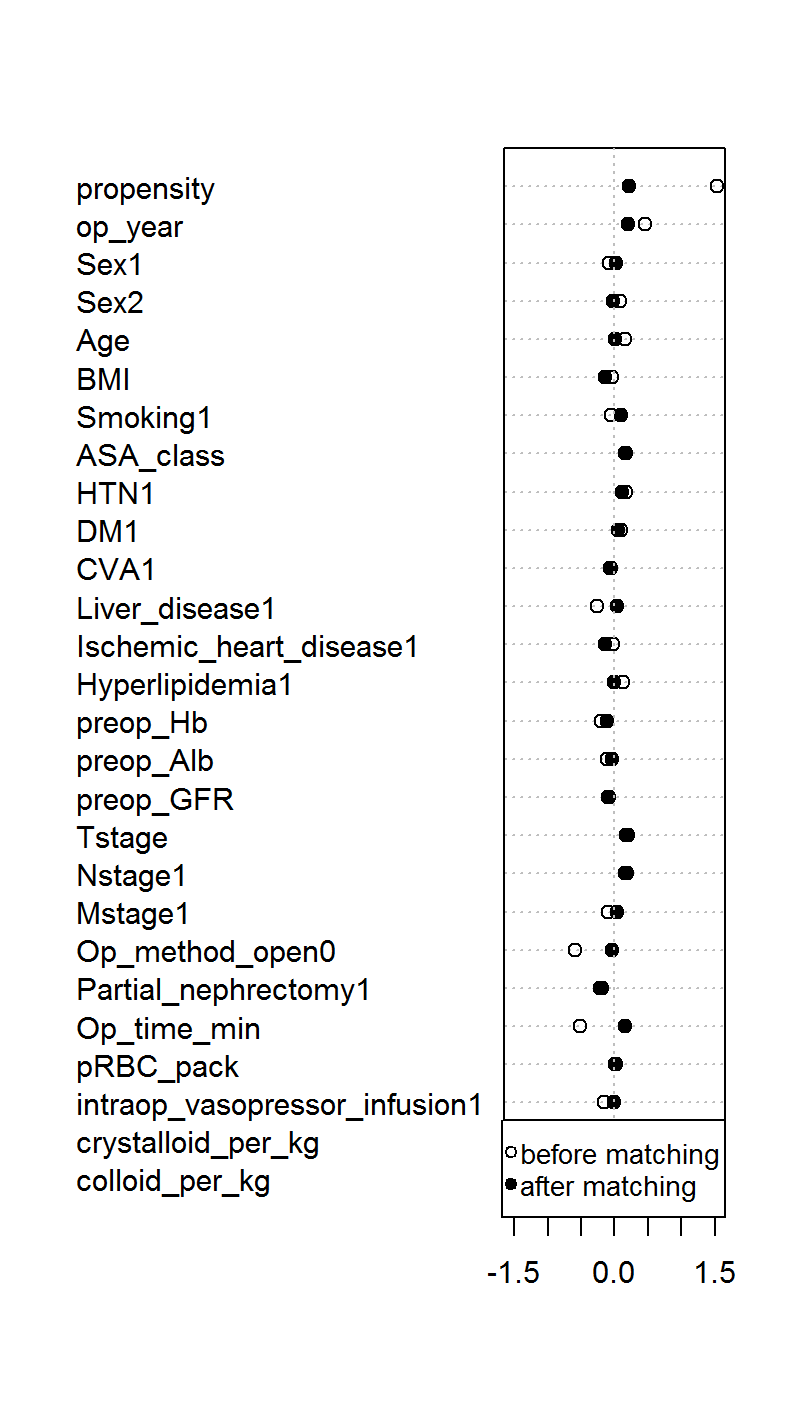
**Supplemental Figure S2.** Histograms (left) and covariate balance plot (right) of distribution of standardized differences of covariates between the patients who received propofol and desflurane during surgery before and after matching. BMI = body-mass index, ASA\_class = American Society of Anesthesiologist 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.

