

Supplemental Table 3. Operation incidence during in-hospitalization based on cause of kidney disease

Etiology	Total	Diabetes mellitus	Hypertension	Glomerular disease	Polycystic kidney disease
Follow-up period (person-years)	10,569.82	2,080.96	2,221.40	3,482.98	1,984.82
Overall surgical practices	49.01	70.16	51.77	35.03	44.84
1. Musculoskeletal surgery	11.26	16.82	14.41	7.46	9.07
2. Intraabdominal surgery	7.10	6.73	6.75	5.74	10.58
3. Lower urologic/gynecologic surgery	5.30	3.84	5.85	4.31	7.05
4. Head and neck surgery	4.92	1.92	5.40	6.03	4.53
5. Vascular surgery	0.28	0.96	0.45	-	.
6. Skin and soft tissue surgery	0.95	0.96	1.35	0.57	1.01
7. Cardiac surgery	-	-	-	-	.
8. Breast surgery	0.85	0.96	-	1.44	1.01
9. Neurosurgical surgery	1.23	1.92	0.90	0.57	2.52
10. Retroperitoneal surgery	1.23	1.92	0.45	1.44	1.51
11. Thoracic surgery	0.57	0.96	0.90	0.29	0.50
12. Anorectal surgery	1.04	-	1.35	0.86	1.51
13. Ophthalmologic surgery	14.29	33.16	13.96	6.32	5.54

Incidence rate is presented per 1,000 person-years.

Supplemental Table 3-1. Operation incidence rate of diabetic kidney disease

Etiology	Total	G1	G2	G3a-G3b	G4-5	P-value
Overall surgical practices	70.16	76.77	65.87	78.34	55.95	0.83
1. Musculoskeletal surgery	16.82	31.99	12.55	18.38	12.24	0.96
2. Intraabdominal surgery	6.73	6.40	9.41	8.70	1.75	0.83
3. Lower urologic/gynecologic surgery	3.84	-	6.27	3.87	3.50	0.63
4. Head and neck surgery	1.92	-	3.14	1.93	1.75	0.63
5. Vascular surgery	0.96	6.40	-	0.97	-	0.95
6. Skin and soft tissue surgery	0.96	-	3.14	0.97	-	0.63
7. Cardiac surgery	-	-	-	-	-	-
8. Breast surgery	0.96	-	-	0.97	1.75	0.045
9. Neurosurgical surgery	1.92	-	-	1.93	3.50	0.045
10. Retroperitoneal surgery	1.92	6.40	-	2.90	-	0.85
11. Thoracic surgery	0.96	-	-	1.93	-	0.37
12. Anorectal surgery	-	-	-	-	-	-
13. Ophthalmologic surgery	33.16	25.59	31.37	35.78	31.47	0.17

Incidence rate is presented per 1,000 person-years. Incidence of admission by each category were compared by Jonckheere-Terpstra test as trend analysis. G, grade.

Supplemental Table 3-2. Operation incidence rate of hypertensive kidney disease

Etiology	Total	G1	G2	G3a-G3b	G4-5	P-value
Overall surgical practices	51.77	23.63	61.02	48.89	61.40	0.17
1. Musculoskeletal surgery	14.41	-	14.65	13.49	21.93	0.17
2. Intraabdominal surgery	6.75	11.81	9.76	5.06	6.58	0.96
3. Lower urologic/gynecologic surgery	5.85	-	2.44	10.11	-	0.37
4. Head and neck surgery	5.40	-	7.32	5.90	4.39	0.63
5. Vascular surgery	0.45	-	-	-	2.19	0.15
6. Skin and soft tissue surgery	1.35	5.91	2.44	-	2.19	0.96
7. Cardiac surgery	-	-	-	-	-	-
8. Breast surgery	-	-	-	-	-	-
9. Neurosurgical surgery	0.90	5.91	2.44	-	-	0.96
10. Retroperitoneal surgery	0.45	-	-	0.84	-	0.37
11. Thoracic surgery	0.90	-	-	0.84	2.19	0.045
12. Anorectal surgery	1.35	-	-	0.84	4.39	0.045
13. Ophthalmologic surgery	13.96	-	21.97	11.80	17.54	0.38

Incidence rate is presented per 1,000 person-years. Incidence of admission by each category were compared by Jonckheere-Terpstra test as trend analysis. G, grade.

Supplemental Table 3-3. Operation incidence rate of glomerular disease

Etiology	Total	G1	G2	G3a-G3b	G4-5	P-value
Overall surgical practices	35.03	27.87	32.22	39.22	42.15	0.04
1. Musculoskeletal surgery	7.46	8.13	7.78	7.35	6.02	0.96
2. Intraabdominal surgery	5.74	8.13	4.44	6.54	2.01	0.96
3. Lower urologic/gynecologic surgery	4.31	2.32	4.44	7.35	-	0.63
4. Head and neck surgery	6.03	5.81	5.56	5.72	8.03	0.38
5. Vascular surgery	-	-	-	-	-	-
6. Skin and soft tissue surgery	0.57	-	2.22	-	-	0.63
7. Cardiac surgery	-	-	-	-	-	-
8. Breast surgery	1.44	1.16	-	2.45	2.01	0.38
9. Neurosurgical surgery	0.57	-	-	0.82	2.01	0.045
10. Retroperitoneal surgery	1.44	-	2.22	1.63	2.01	0.38
11. Thoracic surgery	0.29	-	-	0.82	-	0.37
12. Anorectal surgery	0.86	-	-	1.63	2.01	0.045
13. Ophthalmologic surgery	6.32	2.32	5.56	4.90	18.06	0.17

Incidence rate is presented per 1,000 person-years. Incidence of admission by each category were compared by Jonckheere-Terpstra test as trend analysis. G, grade.

Supplemental Table 3-4. Operation incidence rate of hypertensive kidney disease

Etiology	Total	G1	G2	G3a-G3b	G4-5	P-value
Overall surgical practices	44.84	38.16	22.56	67.65	116.74	0.17
1. Musculoskeletal surgery	9.07	8.90	3.22	15.28	16.68	0.17
2. Intraabdominal surgery	10.58	3.82	8.06	19.64	33.35	0.04
3. Lower urologic/gynecologic surgery	7.05	7.63	6.45	4.36	16.68	0.63
4. Head and neck surgery	4.53	6.36	1.61	4.36	8.34	0.38
5. Vascular surgery	-	-	-	-	-	-
6. Skin and soft tissue surgery	1.01	1.27	-	-	8.34	0.37
7. Cardiac surgery	-	-	-	-	-	-
8. Breast surgery	1.01	-	1.61	2.18	-	0.37
9. Neurosurgical surgery	2.52	2.54	1.61	4.36	-	0.83
10. Retroperitoneal surgery	1.51	1.27	-	2.18	8.34	0.17
11. Thoracic surgery	0.50	-	-	-	8.34	0.15
12. Anorectal surgery	1.51	1.27	-	4.36	-	0.63
13. Ophthalmologic surgery	5.54	5.09	-	10.91	16.68	0.17

Incidence rate is presented per 1,000 person-years. Incidence of admission by each category were compared by Jonckheere-Terpstra test as trend analysis. G, grade.