**S2 Table.** Comparison of risk factors between first attempted RUS failure and RUS failure after sequentially successful stenting changes

|  |  |
| --- | --- |
| 　 | RUS failure |
| First attempt | Sequential success | p-value |
| N | 17 (42.5) | 23 (57.5) | 　 |
| Age | 59.12 ± 14.38 | 48.48 ± 11.66 | 0.0138 |
| Sex, male | 7 (46.67) | 8 (53.33) | 0.6797 |
|  female | 10 (40) | 15 (60) | 　 |
| BMI, Low | 1 (50) | 1 (50) | 0.7098 |
| Normal | 15 (40.54) | 22 (59.46) | 　 |
| Obese  | 1 (100) | 0 (0) | 　 |
| Anesthesia, Local | 15 (40.54) | 22 (59.46) | 0.5647 |
| General | 2 (66.67) | 1 (33.33) | 　 |
| Pre-stent therapy  |  |  | 0.9412 |
| Surgery | 2 (40) | 3 (60) | 　 |
| Radiotherapy | 2 (40) | 3 (60) | 　 |
| Chemotherapy | 11 (40.74) | 16 (59.26) | 　 |
| No treatment | 2 (66.67) | 1 (33.33) |  |
| First sCr <1.3 | 9 (37.5) | 15 (62.5) | 0.4334 |
| >1.3 | 8 (50) | 8 (50) | 　 |
| Retrograde pyelographic findings　 |  | 　 |
| Degree of hydronephrosis  |  |  | 　 |
| 1+2+3 | 7 (29.17) | 17 (70.83) | 0.1161 |
| 4 | 5 (62.5) | 3 (37.5) | 　 |
| Ureteral laterality |  |  | 　 |
| unilateral | 7 (33.33) | 14 (66.67) | 0.2376 |
| bilateral | 7 (53.85) | 6 (46.15) | 　 |
| Ureteral stricture  |  |  | 　 |
| single | 9 (45) | 11 (55) | 0.4136 |
| multiple | 4 (30.77) | 9 (69.23) | 　 |
| Ureteral kinking, no | 15 (57.7) | 11 (42.3) | 0.0530 |
| Z-shaped | 1 (9.09) | 10 (90.91) | 　 |
| Pigtail-shaped | 2 (50) | 2 (50) | 　 |
| Irrev. ureteral kinking, yes | 3 (30) | 7 (70) | 0.7026 |
| Ureter lateralization, abnormal | 0 (0) | 2 (100) | 0.5161 |
| Bladder invasion, yes | 8 (61.54) | 5 (38.46) | 0.0601 |
| Stent caliber, 6Fr | 5 (33.33) | 10 (66.67) | 0.5974 |
| 7Fr≤ | 6 (42.86) | 8 (57.14) | 　 |

BMI, body mass index; sCr, serum creatinine level; Irrev, irreversible