**Table 1. General patient characteristics**

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| **Characteristics** | **NPWT- group (n = 36)** | **NPWT+ group (n = 26)** | **P value** |
| Superficial SSI, N (%) | 7 (19.40) | 5 (19.23) | 1.000 |
| Deep SSI, N (%) | 29 (80.60) | 21 (80.77) |
| Male gender, N (%) | 33 (91.70) | 24 (92.30) | 1.000 |
| Age, М ± SD (95% CI), years | 63.47 ± 10.58  (59.89–67.05) | 67.61 ± 10.38  (63.42–71.08) | 0.130 |
| BMI, М ± SD (95% CI) | 26.12 ± 3.73  (24.85–27.38) | 25.71 ± 3.48  (24.30–27.12) | 0.665 |
| Smokers, N (%) | 17 (47.2) | 12 (46.15) | 0.765 |
| Radiation therapy\*, N (%) | 4 (11.11) | 0 | 0.132 |
| Medical treatment\*\*, N (%) | 8 (22.22) | 9 (34.61) | 0.388 |
| ASA physical status of the patients, N (%) | | | |
| ASA 1 | 6 (16.81) | 4 (15.31) | 0.227 |
| ASA 2 | 19 (52.63) | 15 (57.69) |
| ASA 3 | 11 (30.56) | 7 (27.0) |

ASA, American Society of Anesthesiology; BMI, body mass index; CI, confidence interval; NPWT+, the group with additional negative pressure wound treatment; NPWT-, the group with standard management of surgical site infection (SSI): surgical wound debridement, necrectomy, drainage or laparostomy wound (open abdomen)

\* Preoperative radiation therapy for the underlying disease

\*\* Medical treatment as neoadjuvant chemotherapy or immunotherapy

**Table 2. Patient characteristics by the time of radical cystectomy, by the first sanitation operation, and by discharge**

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| **Characteristics** | **NPWT- group (n = 36)** | **NPWT+ group (n = 26)** | **P value** |
| Patient characteristics by the time of RC | | | |
| Heterotopic derivation Bricker, N (%) | 27 (75.0) | 19 (73.08) | 0,556 |
| Heterotopic derivation Mainz-I, N (%) | 1 (2.77) | 0 |
| Orthotopic derivation J-pouch, N (%) | 7 (19.39) | 4 (15.40) |
| Nephrostomy, ureterocutaneostomy, N (%) | 1 (2.77) | 3 (11.54) |
| Laparoscopic access, N (%) | 30 (83.33) | 23 (88.46) | 0,722 |
| Laparotomic access, N (%) | 6 (16.67) | 3 (11.54) |
| Duration of the procedure, М ± SD, min | 318.19 ± 112.38 | 289.38 ± 82.61 | 0.272 |
| Intraoperative blood loss volume, Me [LQ; UQ], mL | 100 [100; 225] | 150 [100; 250] | 0.352 |
| APACHE II score for the physical status by the time of SSI diagnosis, N (%) | | | |
| 0 to 9 | 2/29 (6.90) | 1/21(4.76) | 0.576 |
| 10 to 19 | 12/29 (41.40) | 1/21 (4.76) | 0.013 |
| 20 to 29 | 11/29 (37.90) | 13/21 (61.91) | 0.009 |
| > 30 | 4/29 (13.80) | 6/21 (28.57) | 0.037 |
| Time from RC to SSI, Me [LQ; UQ], days | 5.5 [3; 10.25] | 7.5 [3.5; 12] | 0.566 |
| Time from 1st surgical wound debridement to discharge, Me [LQ; UQ], days | 4 [0; 8.75] | 8.5 [3.25; 12] | 0.026 |
| Total number of days in the hospital, М ± SD (95% CI), days | 28.08 ± 12.80  (24–32) | 30.03 ± 16.27  (23–37) | 0.599 |
| CRP by the time of SSI diagnosis, М ± SD (95% CI), mg/mL | 155.70 ± 96.59  (123.01–188.37) | 233.72 ± 139.67  (177.31–290.15) | 0.018 |
| LII by the time of SSI diagnosis, Me [LQ; UQ] | 0.09 [0.06; 0.15] | 0.095 [0.05; 0.13] | 0.943 |
| CRP by discharge, М ± SD (95% CI), mg/mL | 91.4 ± 35.64  (79.35–103.47) | 82.90 ± 53.63  (61.24–104.57) | 0.485 |
| LII by discharge, Me [LQ; UQ] | 0.19 [0.12; 0.32] | 0.20 [0.13; 0.29] | 0.869 |
| Death rate, N (%) | 6 (16.67) | 9 (34.61) | 0.137 |
| Events of clinical interest, N (%) | 6 (20.69) | 0 | 0.033 |

CI, confidence interval; CRP, C-reactive protein; Events of clinical interest (fistulas, lateralization of the edges of the abdominal wound, hernias of the anterior abdominal wall); LII, leukocyte index of intoxication; NPWT+, the group with additional negative pressure wound treatment; NPWT-, the group with standard management of surgical site infection (SSI): surgical wound debridement, necrectomy, drainage or laparostomy wound (open abdomen); RC, radical cystectomy