**Table 1. Fluid intake and excretion before and after transnasal adenomectomy (n = 96)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **pCDI (n = 15)** | **tCDI (n = 34)** | **No abnormalities (n = 47)** | **P value, Kruskall-Wallis (ANOVA) and paired post-hoc comparisons** |
| 3-hour fluid intake, mL |
| Before surgery | No data | 300 [300; 400]n = 7 | 200 [150; 400]n = 9 | 1.000 |
| Days 1 to 2 after surgery | 400 [200; 500]n = 14 | 200 [200; 500]n = 33 | 200 [100; 200]n = 46 | 0.0030.017\* |
| Days 5 to 7 after surgery | 800n = 1 | 525 [400; 600]n = 8 | 350 [150; 450]n = 10 | 0.016\*\*, † |
| Day 10 after surgery | 550 [300; 900]n = 3 | 375 [300; 450]n = 8 | 400n = 1 | 0.556 |
| 24-hour fluid intake, mL |
| The day of surgery (infusion + oral intake) | 4300 [3450; 4800]n = 15 | 3565 [3000; 4700]n = 34 | 3100 [2700; 3500]n = 47 | 0.0010.003\*0.009\*\* |
| Days 1 to 2 after surgery | 4300 [2900; 7150]n = 7 | 3350 [2250; 4000]n = 16 | 1900 [1700; 2100]n = 7 | 0.052 |
| Days 5 to 7 after surgery | 3375 [2750; 4000]n = 2 | 3500 [2000; 4600]n = 9 | 1550 [1200; 1800]n = 6 | 0.086 |
| 24-hour urine output, mL |
| Before surgery | 1340 [900; 1700]n = 5 | 1540 [1200; 1850]n = 20 | 1600 [1300; 1800]n = 9 | 0.843 |
| The day of surgery | 2900 [2600; 3650]n = 15 | 2975 [1650; 3700]n = 34 | 1300 [950; 1750]n = 47 | < 0.001< 0.001\*, \*\* |
| Days 1 to 2 after surgery | 4300 [3200; 6700]n = 7 | 3500 [3200; 3850]n = 17 | 2175 [1325; 3850]n = 8 | 0.065 |
| Days 5 to 7 after surgery | 4175 [2950; 6470]n = 8 | 3615 [2228; 4350]n = 20 | 2060 [1500; 2345]n = 12 | 0.0010.002\*0.007\*\* |

pCDI, permanent central diabetes insipidus; tCDI, transient central diabetes insipidus

The values are given as medians and quartiles (Ме [Q1; Q3])

\* For the difference between the pCDI patients and the patients without abnormalities

\*\* For the difference between the tCDI patients and the patients without abnormalities

† U test

**Table 2. Blood and urine laboratory characteristics at baseline and after transnasal adenomectomy (n = 96)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **pCDI (n = 15)** | **tCDI (n = 34)** | **No abnormalities (n = 47)** | **P value, Kruskall-Wallis (ANOVA) and paired post-hoc comparisons** |
| Blood sodium, mmol/L |
| Before surgery | 141 [139; 144] | 142 [141; 144]n = 33 | 143 [141; 145] | 0.305 |
| Days 1 to 2 after surgery | 142 [139.5; 149]n = 11 | 146 [144; 148]n = 30 | 141 [140; 146]n = 41 | 0.025 |
| Days 5 to 7 after surgery | 145 [142; 148]n = 13 | 146 [144; 150]n = 33 | 144 [141; 147]n = 44 | 0.010 |
| Day 10 after surgery | 142 [140; 146]n = 11 | 145 [143; 148]n = 21 | 144 [141; 147]n = 25 | 0.115 |
| Blood copeptin, pmol/L |
| Before surgery | 10.130 [8.262; 10.980]n = 3 | 5.139 [4.900; 6.085]n = 10 | 6.644 [5.503; 6.918]n = 5 | 0.028 |
| Days 1 to 2 after surgery | 5.265 [4.900; 6.181]n = 3 | 4.900 [4.900; 4.900]n = 10 | 4.900 [4.900; 4.900]n = 5 | 0.193 |
| Urine sodium, mmol/L |
| Before surgery | 78 [67; 109]n = 9 | 93 [43; 125]n = 23 | 104.5 [75; 137]n = 26 | 0.685 |
| Days 1 to 2 after surgery | 20 [17; 34]n = 9 | 32.5 [22; 52]n = 26 | 56 [21; 115]n = 37 | 0.160 |
| Days 5 to 7 after surgery | 50 [28; 74]n = 10 | 56 [33; 73]n = 26 | 109 [72; 127]n = 37 | < 0.0010.005\*< 0.001\*\* |
| Day 10 after surgery | 52.5 [44; 91.5]n = 8 | 55 [38; 73]n = 21 | 91 [60; 119]n = 22 | 0.043 |
| Urine osmolality, osm/kg |
| Before surgery | 0.504 [0.344; 0.572]n = 7 | 0.601 [0.470; 0.746]n = 24 | 0.590 [0.385; 0.758]n = 31 | 0.420 |
| Days 1 to 2 after surgery | 0.296 [0.163; 0.360]n = 8 | 0.282 [0.163; 0.360]n = 27 | 0.652 [0.456; 0.929]n = 39 | < 0.0010.015\*< 0.001\*\* |
| Days 5 to 7 after surgery | 0.240 [0.164; 0.335]n = 10 | 0.326 [0.240; 0.459]n = 30 | 0.504 [0.393; 0.678]n = 41 | < 0.001< 0.001\*0.001\*\* |
| Day 10 after surgery | 0.292 [0.215; 0.311]n = 8 | 0.332 [0.262; 0.422]n = 21 | 0.436 [0.322; 0.681]n = 23 | 0.0090.057\*0.022\*\* |
| Urine specific gravity, g/L |
| Before surgery | 1.014 [1.011; 1.017]n = 13 | 1.018 [1.012; 1.024]n = 30 | 1.017 [1.014; 1.026]n = 44 | 0.097 |
| Days 1 to 2 after surgery | 1.010 [1.007; 1.013]n = 5 | 1.011 [1.007; 1.014]n = 13 | 1.017 [1.014; 1.021]n = 14 | 0.030 |
| Days 5 to 7 after surgery | 1.002 [1.000; 1.010]n = 11 | 1.003 [1.001; 1.008]n = 27 | 1.010 [1.005; 1.020]n = 28 | < 0.0010.001\*< 0.001\*\* |

pCDI, permanent central diabetes insipidus; tCDI, transient central diabetes insipidus

The values are given as medians and quartiles (Ме [Q1; Q3])

\* For the difference between the pCDI patients and the patients without abnormalities

\*\* For the difference between the tCDI patients and the patients without abnormalities