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**Supplemental table S1.** Treatment modalities registered for patients with and without a registration of curative treatment intention

| Curative intention | n    | RNU         | Segmental resection | Nephrectomy only | Endoluminal resection/coagulation | BCG        |
|--------------------|------|-------------|---------------------|------------------|-----------------------------------|------------|
| Yes                | 1507 | 1160 (77 %) | 149 (9.9 %)         | 60 (4.0 %)       | 122 (8.1 %)                       | 17 (1.1 %) |
| No                 | 617  | 120 (19 %)  | 14 (2.3 %)          | 18 (2.9 %)       | 22 (3.6 %)                        | 6 (1.0 %)  |

RNU, radical nephroureterectomy; BCG, Bacillus Calmette-Guérin

**Supplemental table S2.** Pathologic tumour classification in patients treated with curative intention

|          |                    | Renal pelvis<br>N= 872 | Ureter<br>N= 635 |
|----------|--------------------|------------------------|------------------|
| pT-stage | T0                 | 8 (0.9%)               | 18 (2.8%)        |
|          | Tis                | 17 (1.9%)              | 37 (5.8%)        |
|          | Ta                 | 302 (35%)              | 259 (41%)        |
|          | T1                 | 143 (16.4%)            | 83 (13%)         |
|          | T2                 | 86 (9.9%)              | 120 (19%)        |
|          | T3                 | 264 (30%)              | 107 (17%)        |
|          | T4                 | 46 (5.3%)              | 6 (0.9%)         |
|          | Tx                 | 6 (0.7%)               | 5 (0.8%)         |
| pN-stage | N0/Nx <sup>a</sup> | 802 (92%)              | 604 (95%)        |
|          | N1                 | 34 (3.9%)              | 15 (2.4%)        |
|          | N2                 | 36 (4.1%)              | 16 (2.5%)        |
| pM-stage | M0/Mx              | 835 (96%)              | 620 (98%)        |
|          | M1                 | 37 (4.2%)              | 15 (2.4%)        |
| p-Grade  | LMP                | 3 (0.3%)               | 8 (1.3%)         |
|          | G1                 | 98 (11%)               | 97 (15%)         |
|          | G2                 | 307 (35%)              | 225 (35%)        |
|          | G3                 | 440 (51%)              | 266 (42%)        |
|          | Gx                 | 21 (2.4%)              | 29 (4.6%)        |
|          | G0                 | 3 (0.3%)               | 10 (1.6%)        |

<sup>a</sup> The proportion of lymph node dissection performed is not available

**Supplemental table S3.** Cross-table of cT- and pT-stage for 467 patients with a preoperative biopsy treated with radical nephroureterectomy or segmental ureteric resection with curative treatment intention

|         | pTa/Tis          | pT1             | pT2             | pT3             | pT4             |
|---------|------------------|-----------------|-----------------|-----------------|-----------------|
| cTa/Tis | <b>173 (61%)</b> | 34 (12%)        | 30 (11%)        | 34 (12%)        | 1 (0.4%)        |
| cT1     | 6 (7.4%)         | <b>50 (62%)</b> | 9 (11%)         | 13 (16%)        | 0 (0.0%)        |
| cT2     | 0 (0.0%)         | 0 (0.0%)        | <b>28 (80%)</b> | 4 (11%)         | 2 (5.7%)        |
| cT3     | 3 (4.4%)         | 0 (0.0%)        | 0 (0.0%)        | <b>63 (93%)</b> | 1 (1.5%)        |
| cT4     | 0 (0.0%)         | 1 (6.2%)        | 0 (0.0%)        | 1 (6.2%)        | <b>14 (88%)</b> |
| cTx     | 6 (26%)          | 5 (22%)         | 3 (13%)         | 9 (39%)         | 0 (0.0%)        |

Percentages per row may not add up to 100 since pT0 is not represented in the cross-table.

**Supplemental table S4.** Cross-table of clinical and pathologic tumour grade (WHO 1999) for 467 patients with a preoperative biopsy treated with radical nephroureterectomy or segmental ureteric resection with curative treatment intention.

|      | pLMP            | pG1             | pG2              | pG3              | pGx      |
|------|-----------------|-----------------|------------------|------------------|----------|
| cLMP | <b>0 (0.0%)</b> | 3 (75%)         | 0 (0.0%)         | 1 (25%)          | 0 (0.0%) |
| cG1  | 1 (1.1%)        | <b>48 (53%)</b> | 27 (30%)         | 9 (10%)          | 4 (4.4%) |
| cG2  | 0 (0.0%)        | 10 (5.6%)       | <b>127 (72%)</b> | 32 (18%)         | 5 (2.8%) |
| cG3  | 2 (0.9%)        | 2 (0.9%)        | 13 (5.8%)        | <b>197 (88%)</b> | 6 (2.7%) |

Percentages per row may not add up to 100 since pG0 is not represented in the cross-table.