Supplementary Data file

ESTIMATION VERSUS MEASUREMENT OF THE GLOMERULAR FILTRATION RATE FOR KIDNEY FUNCTION ASSESSMENT IN PATIENTS WITH CANCER UNDERGOING CISPLATIN-BASED CHEMOTHERAPY

Running Head: Kidney function assessment methods for cisplatin therapy

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Supplementary Tables

**Supplementary Table 1.** Rehydration and supportive care protocol for moderate-to-high-dose cisplatin chemotherapy regimens with a daily cisplatin dose between 40mg/m² and 80mg/m². The example below is for day 1 of Cisplatin(70)/Gemcitabine(1000), as used for (neo-)adjuvant therapy of muscle-invasive bladder cancer.

| medication/chemotherapy | Dose/i.v. volume | period of time |
|--------------------------|------------------|----------------|
| **pre-chemotherapy**     |                  |                |
| Glucose 5 %              | 1250 ml          |                |
| NaCl 0,9%                | 700 ml           | over 2 hours (1000 ml/h) |
| KCl                      | 40 ml            |                |
| Mg-Gluconicum 10%        | 40 ml            |                |
| Ca-Gluconicum 10%        | 50 ml            |                |
| Mannitol 15 %            | 250 ml           | over 30 min    |
| Dexamethasone            | 12 mg            | in 100 ml NaCl 0,9% over 10 min |
| Granisetron              | 3 mg             | in 100 ml NaCl 0,9% over 10 min |
| Cisplatin                | 70 mg/m²         | in 250 ml NaCl 0,9% over 30 min |
|                          |                  | + 4A NaCl 10% (=40 ml) over 1 h |
| Gemzar                   | 1000 mg/m²       | in 250 ml NaCl 0,9% over 30 min |
| **post-chemotherapy**    |                  |                |
| Glucose 5 %              | 1750 ml          |                |
| NaCl 0,9%                | 1000 ml          |                |
| KCl                      | 60 ml            | over 6 hours (500 ml/h) |
| Mg-Gluconicum 10%        | 40 ml            |                |
| Ca-Gluconicum 10%        | 60 ml            |                |
| Elomel isoton            | 1000 ml          | 8pm(day 1) - 8am(day 2, 85 ml/h) |
| Day 8 (outpatient treatment) | 1000 mg/m² | in 250 ml NaCl 0,9% over 30 min |
|-----------------------------|------------|-------------------------------|
| Gemzar                      |            |                               |

**Comment:**

- 8 pm (day 0) - 8 am (day 1): 1000 ml Elomel isotone (85 ml/h)
- Prophylaxis of gastritis with proton-pump inhibitor
- Laxatives if needed
- Aprepitant 125 mg on day 1, 80 mg on day 2 and 3
- Oral dexamethasone 4 mg 2x1 on day 2-4
Supplementary Figures

Supplementary Figure 1. Flow-chart of included patients and their GFR estimates and measurements included in the analysis.

- **n=121 patients**
- **n=480 cisplatin chemotherapy cycles**
- **n=480 GFR estimates (eGFR)**
- **n=470 GFR measurements (CrCl)**
- **n=10 GFR measurements (CrCl) missing**

= Analysis population