Supplementary files

Supplementary Table 1: Associations between changes of IL-6 and TGF-β1 and genitourinary (GU) and gastrointestinal (GI) toxicity grades over time

| Parameters                                      | Univariate analysis* |
|------------------------------------------------|-----------------------|
| Changes of IL-6 and acute GU toxicity grades   | b 0.017    p 0.559    |
| Changes of TGF-β1 and acute GU toxicity grades | b <0.001   p 0.672    |
| Changes of IL-6 and acute GI toxicity grades   | b 0.013     p 0.558    |
| Changes of TGF-β1 and acute GI toxicity grades | b <0.001   p 0.305    |
| Changes of IL-6 and late GU toxicity grades    | b 0.009     p 0.750    |
| Changes of TGF-β1 and late GU toxicity grades  | b <0.001   p 0.351    |
| Changes of IL-6 and late GI toxicity grades    | b 0.018     p 0.105    |
| Changes of TGF-β1 and late GI toxicity grades  | b <0.001   p 0.656    |

* multilevel ordinal regression models with the degree of toxicity as the dependent variable, controlled for type of radiotherapy
**Supplementary Table 2**: Correlations between maximum late genitourinary (GU) toxicity grade, maximum late gastrointestinal (GI) toxicity grade, and serum concentrations of IL-6 and TGF-β1 in patients with prostate cancer treated with radiotherapy

| Variable 1                              | Variable 2                              | Correlation coefficient | p       |
|-----------------------------------------|-----------------------------------------|-------------------------|---------|
| Pretreatment IL-6 concentration         | Maximum late GU toxicity grade          | 0.08                    | 0.642   |
| Pretreatment IL-6 concentration         | Maximum late GI toxicity grade          | 0.23                    | 0.156   |
| IL-6 concentration after the 25\(^{th}\) fraction | Maximum late GU toxicity grade          | 0.03                    | 0.872   |
| IL-6 concentration after the 25\(^{th}\) fraction | Maximum late GI toxicity grade          | 0.24                    | 0.138   |
| Pretreatment TGF-β1 concentration       | Maximum late GU toxicity grade          | -0.21                   | 0.194   |
| Pretreatment TGF-β1 concentration       | Maximum late GI toxicity grade          | -0.15                   | 0.367   |
| TGF-β1 concentration after the 25\(^{th}\) fraction | Maximum late GU toxicity grade          | -0.17                   | 0.309   |
| TGF-β1 concentration after the 25\(^{th}\) fraction | Maximum late GI toxicity grade          | -0.31                   | 0.052   |
| Changes of IL-6 concentrations          | Maximum late GU toxicity grade          | -0.10                   | 0.534   |
| Changes of IL-6 concentrations          | Maximum late GI toxicity grade          | 0.13                    | 0.419   |
| Changes of TGF-β1 concentrations        | Maximum late GU toxicity grade          | 0.13                    | 0.436   |
| Changes of TGF-β1 concentrations        | Maximum late GI toxicity grade          | -0.06                   | 0.736   |