**Supplemental Table S4:** **Vital signs before and after placement of indwelling catheter and assessment of pain during procedure**

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| --- | --- | --- | --- |
|  | SC LMWHN=31 | IV UFHN=44 | p-value |
| Increase of respiratory rate(breaths per minute; median [range]) | 12 [2-46] | 12 [3-51] | 0.803a |
| Maximum decrease of oxygen saturation(%; median [range]) | 4 [1-17] | 7 [1-23] | 0.055a |
| Maximum increase of heart rate (beats per minute; median [range]) | 12 [4-38] | 13 [3-45] | 0.493a |
| Pain measurement (points on VAS score; median [range]) | 10 [2-10] | 10 [0-10] | 0.641a |

a: Chi- squared test, IV UFH: intravenous unfractionated heparin; SC LMWH: subcutaneous low molecular weight heparin; VAS: Visual analogue pain scale