**Supplemental Digital Content 4.** Adverse events,from inclusion to Day 30.

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|  | Pleth variability index group  (n=216) | Control group  (n=222) |
| All adverse events, No. (%)  General disorders and administration site conditions, No. (%)  Pain, No. (%)  Impaired healing, No. (%)  Blood and lymphatic system disorders, No. (% of adverse event)  Anemia, No. (%)  Vascular disorders, No. (%)  Hematoma, No. (%)  Renal and urinary disorders, No. (%)  Urinary retention, No. (%) | 123 (57)  25 (19)  15 (7)  6 (3)  25 (11)  23 (11)  15 (7)  5 (2)  8 (4)  7 (3) | 126 (56)  32 (14)  12 (5)  6 (3)  18 (8)  18 (8)  11 (5)  4 (2)  16 (7)  13 (6) |
| Adverse events grade >3, No. (%)  Fracture, No. (%)  Healing impaired, No. (%)  Anemia, No. (%)  Joint effusion, No. (%)  Dislocation (+ joint dislocation + subluxation hip), No. (%)  Sepsis, No. (%)  Urinary retention, No. (%)  Hematoma, No. (%)  Atrial fibrillation, No. (%)  Infection, No. (%)  Device complication, No. (%)  Dyspnea, No. (%)  Embolic pneumonia, No. (%)  Eschar, No. (%)  Fall, No. (%)  Hemorrhage, No. (%)  Leukemic lymphoma, No. (%)  Mobility decreased, No. (%)  Pain, No. (%)  Respiratory failure, No. (%)  Urinary infection, No. (%) | 27 (12)  5 (2)  2 (1)  3 (1)  2 (1)  3 (1)  1 (0)  2 (1)  2 (1)  2 (1)  0 (0)  0 (0)  0 (0)  1 (0)  1 (0)  0 (0)  0 (0)  1 (0)  1 (0)  0 (0)  1 (0)  0 (0) | 14 (6)  1 (0)  3 (1)  0 (0)  1 (0)  0 (0)  1 (0)  0 (0)  0 (0)  0 (0)  2 (1)  1 (0)  1 (0)  0 (0)  0 (0)  1 (0)  1 (0)  0 (0)  0 (0)  1 (0)  0 (0)  1 (0) |
| All serious adverse events, No. (%)  Injury, poisoning and procedural complications, No. (%)  Fracture, No. (%)  Joint dislocation, No. (%)  Fracture and joint dislocation, No. (%)  Infection and infestations, No. (%)  General disorders and administration conditions, No. (%)  Vascular disorders, No. (%) | 20 (9)  8 (4)  5 (2)  2 (1)  7 (3)  2 (1)  2 (1)  2 (1) | 14 (6)  1 (0)  0 (0)  0 (0)  0 (0)  4 (2)  4 (2)  2 (1) |