**Participant flow diagram:**

****

**Baseline Characteristics:**

|  |
| --- |
| **Baseline characteristics of the patients with or without foot pump** |
|  | **n=120** | *p value* |
|  | **Foot Pump +**  | **Foot Pump -** |
| 　 | n= 58 |  n=62 |
| Gender(male/female) | 9/49 | 11/51 | 0.7438 |
| Age-yr |  |  |  |
| 　　　　　Mean±SD | 73.0±7.2 | 74.3±6.1 | 0.4282 |
| 　　　　　Range | 54-84 | 57-85 |  |
| Height-cm | 151.2±7.2 | 152.0±7.1 | 0.3581 |
| Weight-Kg | 60.1±11.1 | 62.4±10.1 | 0.3021 |
| BMI | 26.2±4.0 | 27.1±4.2 | 0.3608 |
| RA/OA | 12/46 | 11/51 | 0.6818 |
| History of venous thrombosis-no.(%) | 3 (5.2%) | 3 (4.8%) | 0.9332 |
| Comorbidities |  |  |  |
| 　　　　　Hypertension | 39 (67.2%) | 42 (67.7%) | 0.9533 |
| 　　　　　Ischemic heart disease | 4 (6.9%) | 2 (3.2%) | 0.3565 |
| 　　　　　Diabetes | 17 (29.3%) | 10 (16.1%) | 0.084 |
| 　　　　　Cerebrovascular disease | 6 (10.3%) | 4 (6.5%) | 0.4406 |
| Operetion Time-(min) |  |  |  |
| 　　　　　Mean±SD | 96.8±24.5 | 91.5±22.0 | 0.1257 |
| Prophylaxis |  |  |  |
|  Edoxaban (duration) | 20.4±7.3mg/day (11.6±1.7days) | 21.3±7.5mg/day (11.3±2.0days)  | 0.5224 |
| Abbreviations: BMI; body mass index, OA; osteoarthritis, RA; rheumatoid arthritis, SD; standard deviation |

**Outcome measures:**

|  |  |  |
| --- | --- | --- |
|  |  |  |
| **Incidences of primary effectiveness outcomes in patients receiving TKA** |
| 　 | **Foot Pump (+)** | **Foot Pump (-)** |
| 　 | n=58(%) | n=62(%) |
| All venous thromboembolism | 18 (31.0) | 11 (17.7) |
|  symptomatic DVT (up to POD28) | 3 (5.2) | 1 (1.6) |
|  Distal | 3 (5.2) | 1 (1.6) |
|  Proximal | 0 | 0 |
|  non-symptomatic DVT (up to POD10) | 15 (25.9) | 10 (16.1) |
|  Distal | 15 (25.9) | 10 (16.1) |
|  Proximal | 0 | 0 |
|  PE (up to POD28) | 0 | 0 |
| Abbreviations: DVT; deep vein thrombosis, PE; pulmonary embolism, POD; postoperative Day, TKA ; total knee arthroplasty |

**Adverse events**

|  |
| --- |
| **Incidences of bleeding in patients receiving TKA** |
| 　 | **Foot Pump（+）n=58(%)** | **Foot Pump（-）n=62(%)** | **OR (95% CI)** | *p* |
| **All bleeding events no.(%)** | 5 (8.6) | 8 (12.9) | 0.637 (0.197-2.057) | 0.4507 |
| **Major bleeding** | 3 (5.1) | 3(4.8) | 1.073 (0.208-5.539) | 0.9332 |
|  Wound hematoma | 2 (3.4) | 2 (3.2) |  |  |
|  Bleeding requiring of ≧2 units of transfusion | 1 (1.7) | 1 (1.6) |  |  |
|  Bleeding contributing to death | 0 | 0 |  |  |
| **Minor bleeding** | 2 (3.4) | 5 (8.0) | 　 | 　 |