|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variable |  | Articulating(m=35) | Static(m=22) | P value |
| Age | Mean ± SE[95%CI] | 66.5±0.6[65.2-67.9] | 67.2±0.8[65.4-69.0] | 0.46 |
|  |  |  |  |  |
| BMI | Mean ± SE[95%CI] | 30.7±1.0[26.6-34.8] | 32.9±1.3[27.2-38.6] | 0.28 |
|  |  |  |  |  |
| Gender: Male | %(n/N) | 45.3%(388/856) | 44.6%(268/601) | 0.78 |
| Gender: Female | %(n/N) | 54.7%(468/856) | 55.4%(333/601) |  |
|  |  |  |  |  |
| Knee | n | 1085 | 819 | - |
|  |  |  |  |  |
| Time of spacer (week) | Mean ± SE[95%CI] | 17.2±2.6[10.8-23.7] | 15.4±3.9[5.8-24.9] | 0.70 |
|  |  |  |  |  |
| Complex | n | 28.3%(308/1087) | 34.1%(315/924) | 0.0054 |
|  |  |  |  |  |
| Outcome measure- HSS | Pre Clinic: Mean ± SE(m\*\*\*\*) | 59.6±4.8(5) | 48.2(1) | 0.56\*\* |
|  | Post Clinic: Mean ± SE[95%CI] | 84.9±1.6[78.2-91.7] | 79.9±1.8[72.1-87.8] | 0.12 |
|  |  |  |  |  |
| Outcome measure- KSS | Pre Clinic: Mean ± SE[95%CI] | 46.8±6.5[19.0-74.6] | 38.7±8.6[1.8-75.5] | 0.42 |
|  | Post Clinic: Mean ± SE[95%CI] | 80.1±6.0[3.7-156.4] | 77.2±6.5[0-159.8] | 0.54 |
|  |  |  |  |  |
| Pre ROM | Mean ± SE[95%CI] | 77.3±2.6[68.9-85.8] | 82.9±4.2[69.5-96.2] | 0.34 |
|  |  |  |  |  |
| Interim ROM | Mean ± SE[95%CI] | 79.8±2.2[73.6-86.0] | 1.8±3.1[0-10.4] | <0.0001\* |
|  |  |  |  |  |
| Post ROM | Mean ± SE[95%CI] | 100.1±1.6[96.2-103.9] | 89.7±2.1[84.8-94.7] | 0.0030 |
|  |  |  |  |  |
| spacers | n | 1087 | 924 | - |
|  |  |  |  |  |
| Complication | %(n/N) | 15.9%(173/1087) | 19.5%(180/924) | 0.0362 |
|  |  |  |  |  |
| Complication rates (%) | Mean ± SE[95%CI] | 14.9±2.4[4.7-25.2] | 23.6±2.9[11.1-36.2] | 0.0845 |
|  |  |  |  |  |
| Complex complication | %(n/N) | 23.7%(73/308) | 35.2%(111/315) | 0.0016 |
|  |  |  |  |  |
| Reimplantation | TTO | 9 | 27 |  |
|  | constrained pros | 24 | - |  |
|  | flaps | 7 | 16 |  |
|  | Snip | 115 | 19 |  |
|  | vy | 17 | 10 |  |
|  | = Any = (%(n/N)) | 15.8%(172/1087) | 7.8%(72/924) | <0.0001 |
|  |  |  |  |  |
| Any reimplantation | Mean ± SE[95%CI] | 7.2±2.2[2.5-11.8] | 5.1±2.9[0-11.2] | 0.58 |
| Any reimplantation (Remove constrained pros + snip) | Mean ± SE[95%CI] | 3.0±1.4[0-6.9] | 6.6±1.6[2.0-11.2] | 0.17 |
|  |  |  |  |  |
| Reinfection(%) | Mean ± SE[95%CI] | 7.5±1.2[4.7-10.3] | 13.6±1.4[10.2-16.9] | 0.0031 |
|  |  |  |  |  |
| Complex Reinfection | %(n/N) | 8.4%(26/308) | 28.2%(89/315) | <0.0001 |
|  |  |  |  |  |
| developed bone loss during spacer | %(n/N) | 0.9%(10/1087) | 4.0%(37/924) | <0.0001 |
|  |  |  |  |  |
| Preexisting bone loss | %(n/N) | 9.1%(99/1087) | 7.0%(65/924) | 0.0905 |

Note:

\* Static group has 0 for most of the score.

\*\* Wilcoxon two sample test (not reliable here).

\*\*\* N=patients number from study group.

\*\*\*\* m is the numbers of study.

Pre-Existing Bone Loss:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variable |  | Articulating(n=126) | Static(n=81) | P value |
| AORI I Tib articulating | %(n/N) | 45.2%(57/126) | 37.0%(30/81) | 0.24 |
| AORI II Tib articulating | %(n/N) | 45.2%(57/126) | 46.9%(38/81) | 0.81 |
| AORI III Tib articulating | %(n/N) | 9.5%(12/126) | 16.1%(13/81) | 0.16 |
|  |  |  |  |  |
| AORI I Fem articulating | %(n/N) | 31.7%(40/126) | 19.8%(16/81) | 0.058 |
| AORI II Fem articulating | %(n/N) | 54.0%(68/126) | 60.5%(49/81) | 0.36 |
| AORI III Fem articulating | %(n/N) | 6.4%(8/126) | 19.8%(16/81) | 0.0033 |

Bone Loss during spacer:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variable |  | Articulating(n=21) | Static(n=52) | P value |
| Tibia Static | %(n/N) | 14.3%(3/21) | 51.9%(27/52) | 0.0031 |
| Femur Static | %(n/N) | 9.5%(2/21) | 59.6%(31/52) | <0.0001 |
| Combined Static | %(n/N) | 23.8%(5/21) | 71.2%(37/52) | 0.0020 |