|  |  |
| --- | --- |
| Total Patients  Total TAA Cases  Women  Men | n=103  n=105  n=52 (50.5%)  n=51 (49.5%) |
| Age, mean (range) | 60.5 years (23-84 years) |
| Follow-up, mean (range) | 2.9 years (2-5 years) |

**Table 1. Demographic data.** TAA: Total Ankle Arthroplasty.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **VAS Pain Score** | | | | **AOFAS Score** | | | |
| **Preoperative / Ankle Osteoarthritis** | | **Postoperative / Total Ankle Arthroplasty** | | **Preoperative / Ankle Osteoarthritis** | | **Postoperative / Total Ankle Arthroplasty** | |
| **Etiology** | Mean | Range | Mean | Range | Mean | Range | Mean | Range |
| Posttraumatic Osteoarthritis (n=75, 77.4%) | 6.6 | 3-10 | 0.2  *p<0.001* | 0-3 | 39.5 | 4-72 | 97.8  *p<0.001* | 75-100 |
| Primary Osteoarthritis  (n=16, 15.2%) | 6.7 | 5-10 | 0  *p<0.001* | 0 | 39.5 | 5-55 | 97.6  *p<0.001* | 89-100 |
| Secondary Osteoarthritis (n=14, 13.3%) | 6.7 | 5-8 | 0.2  *p<0.001* | 0-3 | 39.4 | 12-57 | 97.6  *p<0.001* | 87-100 |
| **Total (n=105)** | **6.7** | **3-10** | **0.2**  *p<.0001* | **0-3** | **39.5** | **4-57** | **97.8**  *p<0.001* | **75-100** |

**Table 2. Clinical Outcomes.**

AOFAS: American Orthopaedic Foot & Ankle Society; VAS: Visual Analogue Scale. Significant Difference Analysis between pre- and postoperative.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Preoperative / Ankle Osteoarthritis** | | | | **Postoperative / Total Ankle Arthroplasty** | | | |
| **Sports Activity** | **Posttraumatic n (%)** | **Secondary**  **n (%)** | **Primary**  **n (%)** | **Total**  **(%)** | **Posttraumatic(%)** | **Secondary**  **(%)** | **Primary**  **(%)** | **Total**  **(%)** |
| Sports Activity Rate | 28 (37.3%) | 3 (21.5%) | 1 (6.3%) | **32 (31.1)** | 68 (90.7%)  *p<0.001* | 9 (64.3%)  *p<0.001* | 11 (68.8%)  *p<0.001* | **88 (85.4%)**  ***p<0.001*** |
| **Sports Frequency Score** | **Posttraumatic n (%)** | **Secondary**  **n (%)** | **Primary**  **n (%)** | **Total**  **(%)** | **Posttraumatic(%)** | **Secondary**  **(%)** | **Primary**  **(%)** | **Total**  **(%)** |
| 0 / None | 44 | 12 | 15 | **71(68.9)** | 9 | 5 | 5 | **19 (18.5)** |
| 1 / Moderate <1h/week | 6 | 1 | 0 | **7 (6.8)** | 1 | 0 | 0 | **1 (1)** |
| 2 / Normal  1-5h/week | 20 | 1 | 0 | **21 (20.4)** | 39 | 6 | 5 | **50 (48.5)** |
| 3 / High  >5h/week | 1 | 0 | 1 | **2 (2)** | 23 | 3 | 5 | **31 (31)** |
| 4 / Elite | 1 | 1 | 0 | **2 (2)** | 5 | 0 | 1 | **6 (5.9)** |

**Table 3. Sports Activity Rate and Sports Frequency Score in Ankle Osteoarthritis and Total Ankle Arthroplasty.**

Sports activity rate: amount of sports active patients; Sports Frequency Score: level 0/none to level 4/elite. 32

|  |  |  |
| --- | --- | --- |
| **List of Reported Sports Activities** | | |
|  | **Postoperative /**  **Total Ankle Arthroplasty** | **Preoperative/**  **Ankle Osteoarthritis** |
| **Type of Sport Activities** | **Patients (%)** | **Patients (%)** |
| Hiking | 66 (43) | 1 (2.2) |
| Biking | 23 (15) | 13 (29.5) |
| Fitness | 18 (11.7) | 7 (15.5) |
| Swimming | 8 (5.2) | 8 (17.7) |
| Walking | 8 (5.2) | 5 (11.4) |
| Skiing | 6 (3.9) | 1 (2.2) |
| Running | 5 (3.3) | 2 (4.4) |
| Dancing | 3 (2) | 1 (2.2) |
| Horseback Riding | 3 (2) | 2 (4.4) |
| Golf | 2 (1.3) | 1 (2.2) |
| Alpinism | 2 (1.3) | 0 |
| Basketball | 2 (1.3) | 0 |
| Hunting | 2 (1.3) | 1 (2.2) |
| Tennis | 2 (1.3) | 0 |
| Powerlifting | 1 (0.7) | 1 (2.2) |
| Jump Rope | 1 (0.7) | 1 (2.2) |
| Paragliding | 1 (0.7) | 0 |
| Martial Art | 1 (0.7) | 0 |
| Climbing | 0 | 1 (2.2) |

**Table 4. Sports Type in Ankle Osteoarthritis and Total Ankle Arthroplasty.**

Sports Type data aligned in decreased listing sports activity for Total Ankle Arthroplasty.