**SUPPLEMENTAL TABLES**

**Sampling Strategy for Medical Record Review**

|  |  |  |
| --- | --- | --- |
|  | Patients Identified | Records Sampled |
|  | N | N (%) |
| Diagnosis, Procedure, or Infectious Disease Consult (with or without Microbiology Test and/or High Probability\* Antibiotic) | 842 | 519 (62) |
| Microbiology Test and High Probability Antibiotic\* (No Diagnosis, Procedure, or Consult) | 81 | 58 (72) |
| High Probability Antibiotic\* Alone | 463 | 332 (72) |
| Microbiology Test Alone | 393 | 176 (45) |
| None of these indicators | 9,999 | 959 (9.6) |

**\***Started at least 3 days after surgery and continued for at least 7 days

**Patient Characteristics by Infection Status (Deep Infection)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Deep Infection Sample (N=55)** | **Non-Deep Infection Sample (N=1,397)** | **Estimated Prevalence Amongst All Deep Infections (N=121)** | **Estimated Prevalence Amongst All Non-Deep Infections (N=11,651)** |
|  | N (%) | N (%) | N (%) | N (%) |
| **Age (Years)** |  |  |  |  |
| 0-19 | 9 (16) | 363 (26) | 14 (12) | 3,022 (26) |
| 20+ | 46 (84) | 1,034 (74) | 107 (88) | 8,629 (74) |
| Mean (SD) | 32 (11) | 30 (12) | 32 (11) | 31 (12) |
| **Sex** |  |  |  |  |
| Female | 18 (33) | 616 (44) | 34 (28) | 5,310 (46) |
| Male | 37 (67) | 781 (56) | 87 (72) | 6,341 (54) |
| **Graft Type** |  |  |  |  |
| Allograft | 12 (22) | 473 (34) | 25 (20) | 4,585 (39) |
| BPTB Autograft | 7 (13) | 554 (40) | 29 (24) | 4,463 (38) |
| Hamstring Autograft | 36 (65) | 370 (26) | 67 (55) | 2,603 (22) |
| **Co-morbidities** |  |  |  |  |
| Connective Tissue Disorder | 1 (1.8) | 4 (0.3) | 2 (1.7) | 5 (0.0) |
| Immune suppressive medications  | 1 (1.8) | 4 (0.3) | 2 (1.7) | 8 (0.7) |
| Diabetes | 1 (1.8) | 19 (1.4) | 2 (1.7) | 46 (0.4) |
| Prior surgery in affected knee | 11 (20) | 183 (13) | 20 (17) | 1,311 (11) |
| Cancer | 0 (0.0) | 12 (0.9) | 0 (0.0) | 47 (0.4) |
| Organ transplant | 0 (0.0) | 3 (0.2) | 0 (0.0) | 41 (0.4) |
| Renal disease | 0 (0.0) | 4 (0.3) | 0 (0.0) | 26 (0.2) |
| Prior infection in affected knee | 0 (0.0) | 3 (0.2) | 0 (0.0) | 19 (0.2) |
| Prolonged steroids  | 0 (0.0) | 7 (0.5) | 0 (0.0) | 16 (0.1) |
| Chemotherapy in previous year | 1 (1.8) | 0 (0.0) | 2 (1.7) | 0 (0.0) |
| HIV | 0 (0.0) | 1 (0.1) | 0 (0.0) | 1 (0.0) |
| Bone marrow transplant | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| Radiation therapy to affected knee  | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |

**Patient Characteristics by Graft Type**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Allograft Tissue Sample (N=485)** | **BPTB Autograft Tissue Sample (N=561)** | **Hamstring Autograft Tissue Sample (N=406)** | **Estimated Prevalence Amongst All Allografts (N=4,610)** | **Estimated Prevalence Amongst All BPTB Autografts (N=4,491)** | **Estimated Prevalence Amongst All Hamstring Autografts (N=2,671)** |  |  |  |
|  | N (%) | N (%) | N (%) | N (%) | N (%) | N (%) |  |  |  |
| **Age (Years)** |  |  |  |  |  |  |  |  |  |
| 0-19 | 81 (18) | 150 (27) | 141 (35) | 796 (17) | 1,279 (28) | 965 (36) |  |  |  |
| 20+ | 404 (82) | 411 (73) | 265 (65) | 3,814 (83) | 3,213 (72) | 1,706 (64) |  |  |  |
| Mean (SD) | 35 (12) | 28 (10) | 28 (12) | 35 (12) | 28 (10) | 28 (12) |  |  |  |
| **Sex** |  |  |  |  |  |  |  |  |  |
| Male | 261 (54) | 353 (63) | 204 (50) | 2,366 (51) | 2,741 (61) | 1,320 (49) |  |  |  |
| **Comorbidities** |  |  |  |  |  |  |  |  |  |
| Prior surgery in affected knee | 103 (21) | 47 (8.4) | 44 (11) | 814 (18) | 263 (5.8) | 255 (10) |  |  |  |
| Diabetes | 10 (2.1) | 7 (1.2) | 3 (0.7) | 29 (0.6) | 9 (0.2) | 9 (0.3) |  |  |  |
| Renal disease | 2 (0.4) | 1 (0.2) | 1 (0.2) | 24 (0.5) | 1 (0.0) | 1 (0.0) |  |  |  |
| Prolonged steroids | 4 (0.8) | 2 (0.4) | 1 (0.2) | 8 (0.2) | 4 (0.1) | 4 (0.1) |  |  |  |
| Cancer | 9 (1.9) | 1 (0.2) | 2 (0.5) | 19 (0.4) | 20 (0.4) | 8 (0.3) |  |  |  |
| Organ transplant | 2 (0.4) | 1 (0.2) | 0 (0.0) | 40 (0.9) | 1 (0.0) | 0 (0.0) |  |  |  |
| Prior infection in affected knee | 0 (0.0) | 3 (0.5) | 0 (0.0) | 0 (0.0) | 19 (0.4) | 0 (0.0) |  |  |  |
| Immune suppressive medications | 3 (0.6) | 2 (0.4) | 0 (0.0) | 7 (0.2) | 3 (0.1) | 0 (0.0) |  |  |  |
| Connective tissue disorders | 3 (0.6) | 2 (0.4) | 0 (0.0) | 4 (0.1) | 3 (0.1) | 0 (0.0) |  |  |  |
| Chemotherapy in previous year | 0 (0.0) | 1 (0.2) | 0 (0.0) | 0 (0.0) | 2 (0.0) | 0 (0.0) |  |  |  |
| HIV | 0 (0.0) | 0 (0.0) | 1 (0.2) | 0 (0.0) | 0 (0.0) | 1 (0.0) |  |  |  |
| Bone marrow transplant | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |  |  |  |
| Radiation therapy to affected knee | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |  |  |  |