

**Table E-1**  
 Test Results after Six Total Hip Arthroplasties

| Cadaver | Test | Side  | Suture       | Rotation [°] | Strength [N-m] | Relative strength<br>(ref.=soft tissue suture) | Relative strength<br>(ref.=first test) |
|---------|------|-------|--------------|--------------|----------------|------------------------------------------------|----------------------------------------|
| 1       | 1    | Left  | None         | 17.5         | 3.7            | 0.53                                           | -                                      |
|         | 2    | Left  | None         | 17.2         | 2.0            | 0.29                                           | 0.54                                   |
|         | 1    | Left  | Soft tissue  | 33.3         | 7.0            | 1.00                                           | -                                      |
|         | 2    | Left  | Soft tissue  | 28.4         | 2.8            | 0.40                                           | 0.40                                   |
|         | 1    | Left  | Transosseous | 45.5         | 21.1           | 3.01                                           | -                                      |
|         | 2    | Left  | Transosseous | 28.6         | 4.4            | 0.63                                           | 0.21                                   |
| 1       | 1    | Right | None         | 31.1         | 8.4            | 0.82                                           | -                                      |
|         | 2    | Right | None         | 25.7         | 7.3            | 0.72                                           | 0.87                                   |
|         | 1    | Right | Soft tissue  | 31.3         | 10.2           | 1.00                                           | -                                      |
|         | 2    | Right | Soft tissue  | 27.8         | 6.2            | 0.61                                           | 0.61                                   |
|         | 1    | Right | Transosseous | 62.2         | 33.9           | 3.32                                           | -                                      |
|         | 2    | Right | Transosseous | 35.7         | 3.5            | 0.34                                           | 0.10                                   |
| 2       | 1    | Left  | None         | 23.0         | 7.2            | 0.40                                           | -                                      |
|         | 2    | Left  | None         | 25.0         | 6.5            | 0.36                                           | 0.90                                   |
|         | 1    | Left  | Soft tissue  | 32.7         | 18.0           | 1.00                                           | -                                      |
|         | 2    | Left  | Soft tissue  | 28.1         | 7.2            | 0.40                                           | 0.40                                   |
|         | 1    | Left  | Transosseous | 46.2         | 36.5           | 2.03                                           | -                                      |
|         | 2    | Left  | Transosseous | 44.3         | 20.5           | 1.14                                           | 0.56                                   |
| 2       | 1    | Right | None         | -            | -              | -                                              | -                                      |
|         | 2    | Right | None         | -            | -              | -                                              | -                                      |
|         | 1    | Right | Soft tissue  | 26.0         | 8.7            | 1.00                                           | -                                      |
|         | 2    | Right | Soft tissue  | 31.6         | 7.0            | 0.80                                           | 0.80                                   |
|         | 1    | Right | Transosseous | 35.5         | 17.3           | 1.99                                           | -                                      |
|         | 2    | Right | Transosseous | 38.0         | 13.1           | 1.51                                           | 0.76                                   |
| 3       | 1    | Left  | None         | 23.6         | 3.1            | 0.52                                           | -                                      |
|         | 2    | Left  | None         | 18.6         | 2.7            | 0.45                                           | 0.87                                   |
|         | 1    | Left  | Soft tissue  | 30.5         | 6.0            | 1.00                                           | -                                      |
|         | 2    | Left  | Soft tissue  | 29.3         | 3.5            | 0.58                                           | 0.58                                   |
|         | 1    | Left  | Transosseous | 49.1         | 21.1           | 3.52                                           | -                                      |
|         | 2    | Left  | Transosseous | 43.6         | 14.2           | 2.37                                           | 0.67                                   |
| 3       | 1    | Right | None         | 30.2         | 6.6            | 0.58                                           | -                                      |
|         | 2    | Right | None         | 28.0         | 6.2            | 0.55                                           | 0.94                                   |
|         | 1    | Right | Soft tissue  | 30.5         | 11.3           | 1.00                                           | -                                      |
|         | 2    | Right | Soft tissue  | 38.7         | 8.2            | 0.73                                           | 0.73                                   |
|         | 1    | Right | Transosseous | 31.8         | 14.1           | 1.25                                           | -                                      |
|         | 2    | Right | Transosseous | 34.5         | 9.8            | 0.87                                           | 0.70                                   |