

Table E-1 Analysis of the Variants of the Anterosuperior Labrum as Divided into Two Subgroups: a Group with a Sublabral Foramen only and a Group with Cord-like Middle -Glenohumeral-Ligament Anterosuperior Labral Variants

| Variable                                   | Descriptive data              |                                    |                  | Univariate comparison (p value)* |                  |                       |
|--|-------------------------------|------------------------------------|------------------|----------------------------------|------------------|-----------------------|
|  | Standard Anatomy (SA) (N=473) | Sublabral Foramen (SF) only (N=18) | Cord-like (N=55) | SF only vs. SA                   | Cord-like vs. SA | SF only vs. Cord-like |
| Hawkins test†                              | 299/459(65)                   | 16(89)                             | 31/54(57)        | <b>0.042</b>                     | 0.262            | <b>0.015</b>          |
| Painful arc sign†                          | 158/289(55)                   | 7/17(41)                           | 15/46(33)        | 0.278                            | <b>0.005</b>     | 0.527                 |
| Range of motion (deg)                      |                               |                                    |                  |                                  |                  |                       |
| Active flexion                             | 137±37.6                      | 152±30.7                           | 151±26.3         | 0.069                            | <b>0.012</b>     | 0.901                 |
| Passive flexion                            | 149±28.0                      | 158±27.8                           | 159±20.3         | 0.226                            | <b>0.019</b>     | 0.874                 |
| Active abduction                           | 133±40.2                      | 144±32.7                           | 146±27.8         | 0.184                            | <b>0.027</b>     | 0.856                 |
| Passive abduction                          | 145±32.9                      | 154±32.0                           | 155±22.3         | 0.251                            | <b>0.028</b>     | 0.874                 |
| Active external rotation in 90° abduction  | 78±25.9                       | 83±28.2                            | 86±23.0          | 0.497                            | <b>0.051</b>     | 0.742                 |
| Passive external rotation in 90° abduction | 90±22.8                       | 98±30.2                            | 93±24.0          | 0.336                            | 0.457            | 0.567                 |
| Active internal rotation in 90° abduction  | 37±30.4                       | 35±28.1                            | 56±26.1          | 0.795                            | <b>0.000</b>     | <b>0.011</b>          |
| Passive internal rotation in 90° abduction | 44±25.7                       | 44±22.0                            | 60±28.5          | 0.981                            | <b>0.001</b>     | <b>0.031</b>          |
| Active combined rotation in 90° abduction  | 117±41.8                      | 118±43.0                           | 142±37.6         | 0.919                            | <b>0.000</b>     | 0.054                 |
| Passive combined rotation in 90° abduction | 134±36.7                      | 142±40.3                           | 153±37.6         | 0.486                            | <b>0.003</b>     | 0.362                 |
| Supraspinatus tendon tear§                 | 274(58)                       | 7(39)                              | 22(40)           | 0.109                            | <b>0.011</b>     | 0.933                 |
| Infraspinatus tendon tear§                 | 37(8)                         | 1(6)                               | 0                | 1.000                            | NA               | NA                    |
| Subscapularis tendon tear§                 | 61(13)                        | 4(22)                              | 12(22)           | 0.279                            | 0.070            | 0.971                 |
| SLAP lesions (Type II)§                    | 29(6)                         | 5 (28)                             | 4(7)             | <b>0.005</b>                     | 0.766            | <b>0.036</b>          |
| Superior glenohumeral ligament tear§       | 37(8)                         | 4(22)                              | 6(11)            | <b>0.054</b>                     | 0.428            | 0.226                 |
| Labral fraying§                            |                               |                                    |                  |                                  |                  |                       |
| Anterosuperior labral fraying              | 126(27)                       | 12(67)                             | 28(51)           | <b>0.001</b>                     | <b>0.000</b>     | 0.244                 |
| Posterosuperior labral fraying             | 140(30)                       | 12(67)                             | 22(40)           | <b>0.003</b>                     | 0.113            | <b>0.049</b>          |
| Anteroinferior labral fraying              | 70(15)                        | 4(22)                              | 7(13)            | 0.331                            | 0.680            | 0.328                 |
| Posteroinferior labral fraying             | 98(21)                        | 6(33)                              | 4(7)             | 0.236                            | <b>0.018</b>     | <b>0.005</b>          |

\*Significant differences are shown in bold. NA = not applicable. †The values are given as the number of shoulders with a positive test/number of shoulders tested, with the percentage in parentheses. ‡The values are given as the mean and the standard deviation. §The values are given as the number of shoulders, with the percentage in parentheses.