### Table: Pre- and post-operative coronal alignment according to preoperative deformity (CT) classification

|                | Preoperative radiograph | Preoperative CT | Postoperative radiograph | Preoperative radiograph | Preoperative CT | Postoperative radiograph | Preoperative radiograph | Preoperative CT | Postoperative radiograph |
|----------------|--------------------------|----------------|--------------------------|--------------------------|----------------|--------------------------|--------------------------|----------------|--------------------------|
|                | FMA (deg)                | TMA (deg)      | HKA angle (deg)          | FMA (deg)                | TMA (deg)      | HKA angle (deg)          | FMA (deg)                | TMA (deg)      | HKA angle (deg)          |
|                | n                        | mean ±SD       | (min - max)              | mean ±SD       | (min - max)              | mean ±SD       | (min - max)              | mean ±SD       | (min - max)              | mean ±SD       | (min - max)              |
| Varus Femur   |                          |                |                          |                          |                |                          |                          |                |                          |                          |                |
| Varus Tibia   | 6                        | 88.2 ±1.3      | (86 – 99)                | 89.2 ±0.8      | (88 – 90)                | 88.7 ±1.0      | (87 – 90)                | 83.2 ±1.3      | (81 – 85)                | 83.3 ±1.2      | (81 – 84)                |
| Varus Tibia   | 34                       | 91.6 ±1.8      | (88 – 95)                | 92.4 ±1.4      | (91 – 95)                | 90.3 ±2.2      | (85 – 94)                | 82.6 ±1.6      | (79 – 85)                | 83.1 ±1.0      | (80 – 84)                |
| Neutral Tibia | 30                       | 89.5 ±1.8      | (85 – 93)                | 89.0 ±0.9      | (87 – 90)                | 88.9 ±2.3      | (84 – 95)                | 66.3 ±2.5      | (81 – 91)                | 87.2 ±1.5      | (85 – 89)                |
| Varus Tibia   | 5                        | 88.2 ±2.5      | (84 – 90)                | 89.2 ±0.8      | (88 – 90)                | 88.6 ±1.5      | (87 – 91)                | 90.2 ±2.5      | (87 – 94)                | 90.8 ±1.8      | (90 – 94)                |
| Neutral Tibia | 120                      | 92.3 ±1.9      | (88 – 97)                | 92.7 ±1.4      | (91 – 95)                | 91.3 ±1.8      | (87 – 96)                | 86.3 ±2.0      | (82 – 91)                | 86.9 ±1.4      | (85 – 89)                |
| Valgus Tibia  | 31                       | 92.2 ±1.9      | (89 – 97)                | 92.9 ±1.5      | (91 – 95)                | 91.7 ±2.1      | (88 – 96)                | 90.5 ±1.8      | (87 – 95)                | 91.1 ±1.3      | (90 – 94)                |
| Valgus Femur  |                          |                |                          |                          |                |                          |                          |                |                          |                          |                |
| Varus Tibia   | 3                        | 97.0 ±1.0      | (96 – 98)                | 96.7 ±1.2      | (96 – 98)                | 93.7 ±0.6      | (93 – 94)                | 82.3 ±1.5      | (81 – 84)                | 83.3 ±1.2      | (82 – 84)                |
| Neutral Tibia | 23                       | 96.1 ±1.5      | (92 – 99)                | 97.1 ±1.2      | (96 – 99)                | 94.3 ±1.9      | (90 – 98)                | 87.6 ±1.8      | (85 – 92)                | 87.3 ±1.4      | (85 – 89)                |
| Valgus Tibia  | 6                        | 96.5 ±1.8      | (94 – 99)                | 97.5 ±1.0      | (96 – 99)                | 94.3 ±1.4      | (92 – 96)                | 90.7 ±1.8      | (88 – 93)                | 91.5 ±1.0      | (90 – 93)                |
|                |                          |                |                          |                          |                |                          |                          |                |                          |                          |                |

**Abbreviations:** FMA, femoral mechanical angle; TMA, tibial mechanical angle; HKA, hip knee ankle; deg, degree; SD, standard deviation