

| Case | Sex, Age (yr) | Femur | Diagnosis                | Femoral Deformity (degrees, apex) | Femoral Shortening (cm) | Femoral Lengthening (cm) | No. of Femoral Osteotomies | Preop. MAD | Postop. MAD (mm) | External Fixation Time (days) | EFI (days/cm) | BHI (days/cm) | Postop. Paley Functional Score | Complications             | LLD (cm) |
|------|---------------|-------|--------------------------|-----------------------------------|-------------------------|--------------------------|----------------------------|------------|------------------|-------------------------------|---------------|---------------|--------------------------------|---------------------------|----------|
| 1    | M, 61         | 1     | Posttraumatic deformity  | 30, varus                         | 5                       | 2                        | 1                          | 116        | 10               | 28                            | 14            | 48            | 95 (excellent)                 | Pin-track infection       | 1        |
| 2    | M, 22         | 2     | Osteogenesis imperfecta  | 15, varus                         | 10                      | 7.5                      | 1                          | 28         | 1                | 144                           | 19.2          | 36            | 95 (excellent)                 | Pin-track infection       | 0.8      |
| 3    | F, 38         | 3     | Posttraumatic deformity  | 32, varus                         | 6                       | 4                        | 2                          | 9          | 13               | 60                            | 15            | 32            | 75 (good)                      | Pin-track infection       | 1        |
| 4    | F, 16         | 4     | Hypophosphatemic rickets | 20, varus                         | 0                       | 5                        | 2                          | 123        | 30               | 85                            | 17            | 42            | 50 (fair)                      | None                      | 0        |
| 5    | F, 19         | 5     | Posttraumatic deformity  | 45, valgus                        | 8                       | 6                        | 2                          | −4         | 2                | 181                           | 30.2          | 55            | 95 (excellent)                 | None                      | 0.3      |
| 6    | M, 27         | 6     | Poliomyelitic sequel     | 8, varus                          | 7                       | 6                        | 1                          | 4          | −2               | 163                           | 28.3          | 40            | 75 (good)                      | None                      | 1        |
| 7    | F, 26         | 7     | Poliomyelitic sequel     | 10, antecurvatum                  | 6                       | 5                        | 1                          | 5          | 7                | 59                            | 11.8          | 48            | 95 (excellent)                 | None                      | 1        |
| 8    | F, 19         | 8     | Posttraumatic deformity  | 15, valgus                        | 6.5                     | 6                        | 1                          | −8         | −18              | 70                            | 11.6          | 25            | 100 (excellent)                | None                      | 0        |
| 9    | F, 30         | 9     | Poliomyelitic sequel     | 10, valgus                        | 11                      | 6.5                      | 2                          | 0          | 30               | 90                            | 13.8          | 46            | 75 (good)                      | None                      | 1        |
| 10   | M, 28         | 10    | Poliomyelitic sequel     | 20, valgus                        | 12                      | 12                       | 2                          | −42        | −18              | 119                           | 9.9           | 20            | 40 (fair)                      | None                      | 0        |
| 11   | M, 24         | 11    | Poliomyelitic sequel     | 7, valgus                         | 2.5                     | 5                        | 2                          | −45        | −10              | 125                           | 30.17         | 42            | 95 (excellent)                 | Pin-track infection       | −2       |
| 12   | M, 34         | 12    | Posttraumatic deformity  | 25, varus                         | 5                       | 4                        | 2                          | 11         | 4                | 40                            | 10            | 24            | 75 (good)                      | None                      | 1        |
| 13   | M, 27         | 13    | Poliomyelitic sequel     | 20, antecurvatum                  | 5                       | 4                        | 1                          | −8         | 2                | 59                            | 14.75         | 52.5          | 95 (excellent)                 | None                      | 1        |
| 14   | M, 40         | 14    | Poliomyelitic sequel     | 20, antecurvatum                  | 8                       | 7                        | 1                          | −38        | 5                | 91                            | 13            | 51.4          | 75 (good)                      | None                      | 1        |
| 15   | F, 44         | 15    | Posttraumatic deformity  | 13, varus                         | 6                       | 7                        | 2                          | 35         | 8                | 57                            | 8.1           | 17.14         | 100 (excellent)                | None                      | 0        |
| 16   | M, 45         | 16    | Posttraumatic deformity  | 5, valgus                         | 6                       | 7                        | 1                          | 5          | 11               | 80                            | 11.42         | 51.42         | 100 (excellent)                | None                      | 0        |
| 17   | F, 44         | 17    | PFFD                     | 13, valgus                        | 6                       | 7                        | 2                          | −25        | 4                | 115                           | 19.16         | 45            | 100 (excellent)                | None                      | 2        |
| 18   | F, 41         | 18    | Posttraumatic deformity  | 10, valgus                        | 2.5                     | 2.5                      | 1                          | −10        | 6                | 29                            | 11.6          | 48            | 100 (excellent)                | None                      | 0        |
| 19   | M, 17         | 19    | Posttraumatic deformity  | 10, valgus                        | 4                       | 5                        | 2                          | −12        | 10               | 68                            | 13.6          | 30            | 100 (excellent)                | None                      | 0        |
| 20   | F, 16         | 20    | PFFD                     | 25, antecurvatum                  | 11                      | 11                       | 2                          | 4          | 0                | 97                            | 8.81          | 33            | 80 (good)                      | None                      | 0.3      |
| 21   | F, 14         | 21    | Hypophosphatemic rickets | 30, antecurvatum                  | 0                       | 8                        | 2                          | 11         | 8                | 65                            | 8.1           | 15            | 95 (excellent)                 | None                      | 0        |
|      |               | 22    |                          | 20, valgus                        | 0                       | 8                        | 3                          | −57        | −20              | 65                            | 8.1           | 15            |                                | None                      | 0        |
| 22   | F, 19         | 23    | Posttraumatic deformity  | 40, valgus                        | 1.5                     | 2                        | 2                          | −79        | −18              | 35                            | 17.5          | 45            | 95 (excellent)                 | Knee stiffness            | 0        |
| 23   | M, 33         | 24    | Posttraumatic deformity  | 10, valgus                        | 4                       | 3                        | 1                          | −30        | 6                | 90                            | 30            | 40            | 65 (fair)                      | None                      | 1        |
| 24   | M, 29         | 25    | Hypophosphatemic rickets | 45, varus                         | 0                       | 8                        | 3                          | 42         | 21               | 110                           | 13.75         | 35            | 95 (excellent)                 | Schanz screw displacement | 0        |
|      |               | 26    |                          | 45, varus                         | 0                       | 8                        | 3                          | 29         | 29               | 87                            | 10.8          | 30            |                                |                           | 0        |
| 25   | F, 20         | 27    | Hypophosphatemic rickets | 40, varus                         | 0                       | 6                        | 3                          | 85         | 12               | 60                            | 10            | 30            | 85 (good)                      | None                      | 0        |
|      |               | 28    |                          | 30, valgus                        | 0                       | 6                        | 3                          | −83        | 11               | 60                            | 10            | 30            |                                | None                      | 0        |

TABLE E-1 Demographic and Outcome Data on the Study Patients

M: Male, F: Female, PFFD = proximal femoral focal deficiency, MAD: mechanical axis deviation, EFI: external fixation index, BHI: bone healing index, LLD: limb length discrepancy.