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| **Supplementary Table 1**: Need for Further Corrective Surgery (FCS) for All Hips with Successful Closed Reduction (CR) at Final Follow-up |
| Variable | Further Surgery | No Further Surgery | p-value |
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|  |  |  |  |
| Patients Undergoing FCS ✚ | 8/72 (11%) | 64/72 (89%) |  |
| * Acetabular Osteotomy
 | 6/72 (8%) |  |  |
| * Femoral Osteotomy
 | 1/72 (1%) |  |  |
| * Acetabular & Femoral Osteotomy
 | 1/72 (1%) |  |  |
|  |  |  |  |
|  |  |  |  |
| Baseline Characteristics |  |  |  |
| Age at baseline, median months | 13 (6–17) | 6 (0–17) | 0.002 |
| Sex, number of females | 8/8 (100%) | 55/64 (86%) | 0.584 |
| Laterality, number of left hips | 5/8 (63%) | 35/64 (55%) | 0.725 |
| Bilateral disease at baseline | 3/8 (38%) | 21/64 (33%) | 1.000 |
| Breech Position | 0/7 (0%) | 10/60 (17%) | 0.583 |
| Family history of DDH (immediate and/or extended) | 0/8 (0%) | 21/63 (33%) | 0.095 |
| History of Clubfoot, Torticollis or other Congenital Foot Disease  | 0/8 (0%) | 7/64 (11%) | 1.000 |
| Pre-Reduction Reducibility of affected hip (ultrasound and/or clinical exam) | 5/8 (63%) | 31/64 (48%) | 0.710 |
|  |  |  |  |
| Pre-Reduction Radiographic Details |  |  |  |
| IHDI Grade |  |  | 0.362 |
| * Grade 2
 | 2/8 (25%) | 5/43 (12%) |  |
| * Grade 3
 | 3/8 (38%) | 26/43 (60%) |  |
| * Grade 4
 | 3/8 (38%) | 12/43 (28%) |  |
|  |  |  |  |
|  |  |  |  |
| Initial Operative Management |  |  |  |
| Age at initial CR, median months |  |  |  |
| * Median months
 | 14 (7–19) | 8 (1–17) | **0.003** |
| * Age Categories
 |  |  | **0.001** |
| * + <6 months old
 | 0/8 (0%) | 21/64 (33%) |  |
| * + 6 months to <12 months old
 | 1/8 (13%) | 30/64 (47%) |  |
| * + >12 months old
 | 7/8 (88%) | 13/64 (20%) |  |
| Ossific nucleus present at time of reduction | 8/8 (100%) | 31/60 (52%) | **0.017** |
| Previous treatment in brace (Pavlik and/or rigid abduction orthosis) | 0/8 (0%) | 23/64 (36%) | **0.049** |
| Traction prior to CR | 0/8 (0%) | 9/64 (14%) | 0.584 |
| Adductor tenotomy and/or psoas release | 6/8 (75%) | 52/58 (90%) | 0.247 |
| Length of post-reduction Spica Casting | 12 (6–25) | 12 (4–30) | 0.755 |
|  |  |  |  |
|  |  |  |  |
| Radiographic Details at Final Follow-up |  |  |  |
| Length of follow-up, median months | 22 (20–24) | 22 (12–36) | 0.496 |
| Intact Shenton's Line | 7/8 (88%) | 59/64 (92%) | 0.651 |
| IHDI Grade |  |  | 1.000 |
| * Grade 1
 | 8/8 (100%) | 59/64 (92%) |  |
| * Grade 2
 | 0/0 (0%) | 5/64 (8%) |  |
| Acetabular Index, mean degrees (±SD) | 21° (±6) | 26° (±6) | **0.026** |
| AVN | 2/8 (25%) | 16/64 (25%) | 1.000 |
| DDH = developmental dysplasia of the hip; IHDI = international hip dysplasia institute; AVN = avascular necrosis. Data presented as frequency (%), median (range) or mean (±standard deviation). Statistically significant p-values are **bolded**. ✚ = Does not include future open reduction. \* = p values correspond to inter-group differences based on the Fisher's exact/Chi-square test or the Mann-Whitney U test for continuous variables. |