

Supplemental Table 1 AOFAS Score (Ankle-Hindfoot Scale :100points Total)

I Pain (40 points)

None	40
Mild, occasional	30
Moderate, daily	20
Severe, almost always present	0

II Function (50 points)

Activity limitations, support requirement	
No limitations, no support	10
No limitation of daily activities, limitation of recreational activities, no support	7
Limited daily and recreational activities, cane	4
Severe limitation of daily and recreational activities, walker, crutches, wheelchair, brace	0

Maximum walking distance, blocks	
Greater than 6	5
4-6	4
1-3	2
Less than 1	0

Walking surfaces	
No difficulty on any surface	5
Some difficulty on uneven terrain, stairs, inclines, ladders	3
Severe difficulty on uneven terrain, stairs, inclines, ladders	0

Gait abnormality	
None, slight	8
Obvious	4
Marked	0

Sagittal motion (flexion plus extension)	
Normal or mild restriction (30° or more)	8

Moderate restriction (15°-29°)	4
Severe restriction (less than 150)	0

Hindfoot motion (inversion plus eversion)	
Normal or mild restriction (75%-100% normal)	6
Moderate restriction (25%-74% normal)	3
Marked restriction (less than 25% normal)	0

Ankle-hindfoot stability (anteroposterior, varus-valgus)	
Stable	8
Definitely unstable	0

III Alignment (10 points)

Good, plantigrade foot, midfoot well aligned	15
Fair, plantigrade foot, some degree of midfoot malalignment observed, no symptoms	8
Poor, nonplantigrade foot, severe malalignment, symptoms	0

Total=100

Supplemental Table 2 AOFAS component scores at 6 months

	Group C (N=55)	Group O (N=55)	P Value	95%CI
AOFAS, mean (SD)	81.92 (12.11)	85.67 (8.92)	0.087	-8.06, 0.56
Pain, mean (SD)	30.21 (6.01)	32.92 (5.44)	0.023*	-5.03, -0.38
Activity limitation, mean (SD)	7.58 (2.08)	7.62 (2.23)	0.925	-0.91-0.83
Walking surfaces, mean (SD)	4.12 (1.28)	4.48 (0.87)	0.117	-0.79, 0.09
Maximum walking distance, blocks, mean (SD)	4.08 (1.05)	4.31 (0.85)	0.243	-0.61, 0.16
Gait abnormality, mean (SD)	7.25 (1.78)	6.67 (1.91)	0.125	-0.16, 1.33
Sagittal motion, mean (SD)	6.83 (1.84)	7.00 (1.75)	0.650	-0.89, 0.56
Hindfoot motion, mean (SD)	5.38 (1.23)	5.31 (1.27)	0.807	-0.44, 0.57
Ankle-hindfoot stability, mean (SD)	7.71 (1.29)	7.67 (1.62)	0.889	-0.55, 0.63
Alignment, mean (SD)	8.75 (2.63)	9.69 (1.22)	0.027*	-1.77, -0.10

AOFAS = American Orthopedic Foot and Ankle Society; SD = standard deviation.

*p<0.05.

Supplemental Table 3 AOFAS component scores at final follow up

	Group C (N=55)	Group O (N=55)	P Value	95%CI
AOFAS, mean (SD)	89.18 (9.51)	88.13 (9.84)	0.597	-2.89, 5.00
Pain, mean (SD)	33.47 (5.22)	33.48 (5.66)	0.994	-2.22, 2.20
Activity limitation, mean (SD)	8.96 (1.68)	8.04 (2.30)	0.029*	0.09-1.73
Walking surfaces, mean (SD)	4.35 (1.23)	4.61 (0.80)	0.227	-0.69, 0.16
Maximum walking distance, blocks, mean (SD)	4.55 (0.71)	4.59 (0.72)	0.807	-0.32, 0.25
Gait abnormality, mean (SD)	7.59 (1.47)	6.96 (1.78)	0.060	-0.03, 1.30
Sagittal motion, mean (SD)	7.43 (1.41)	7.22 (1.60)	0.497	-0.40, 0.82
Hindfoot motion, mean (SD)	5.63 (0.99)	5.35 (1.25)	0.221	-0.17, 0.74
Ankle-hindfoot stability, mean (SD)	7.71 (1.27)	8.00 (0.00)	0.132	-0.66, 0.09
Alignment, mean (SD)	9.49 (1.84)	9.89 (0.74)	0.171	-0.98, 0.18

AOFAS = American Orthopedic Foot and Ankle Society; SD = standard deviation.

*p<0.05.