Radiological and Functional Outcome of The Hindfoot Arthrodesis for Unstable of Painful Hindfoot

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INTRODUCTION:

Hindfoot arthrodesis has been used to address ankle and hindfoot pain, instability and deformity that has failed non operative treatment.

METHODS:

Radiological outcomes which were union and hindfoot angle were assessed using post operative radiograph whereas functional assessment were done using American Orthopaedic Foot and Ankle Society score(AOFAS) and Short Form survey 12(SF-12). Intraclass correlation was calculated to determine reliability of the assessor.

RESULTS:

33 patients were recruited from these 4 hospital that meets the inclusion and exclusion criterias. All assessors had an excellent intraclass reliability which are 0.9. Functional outcome of the patient postoperatively shows AOFAS score ranging from 42 to 81. With Majority has AOFAS score above 70. For SF-12 physical score, the results range from 24 to 56 with SF-12 mental score from 48 to 62.

This study has shown that optimum positioning of the hindfoot angle during hindfoot arthrodesis contributes to good radiological and functional outcome for patient. The main aim of ankle arthrodesis is to get a stable, painless and plantigrade foot. In order to obtain a good functional outcome post-surgery, good hindfoot angle post operatively is necessary.

Correlations

		hindfoot andle	AOFAS score
hindfoot angle	Pearson Correlation	1	.706**
	Sig. (2 tailed)		0.005
	N	33	33
aofas score	Pearson Correlation	.706**	1
	Sig. (2 tailed)	0.005	
	N	33	33

Table 1: correlation between hindfoot angle and functional outcome

*Correlation is significant at 0.01 level (2-tailed)

CONCLUSION:

Optimum position of hindfoot angle plays an important role in improving outcomes for hindfoot arthrodesis surgery in addition to aid in faster union.

REFERENCES:

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