

Results

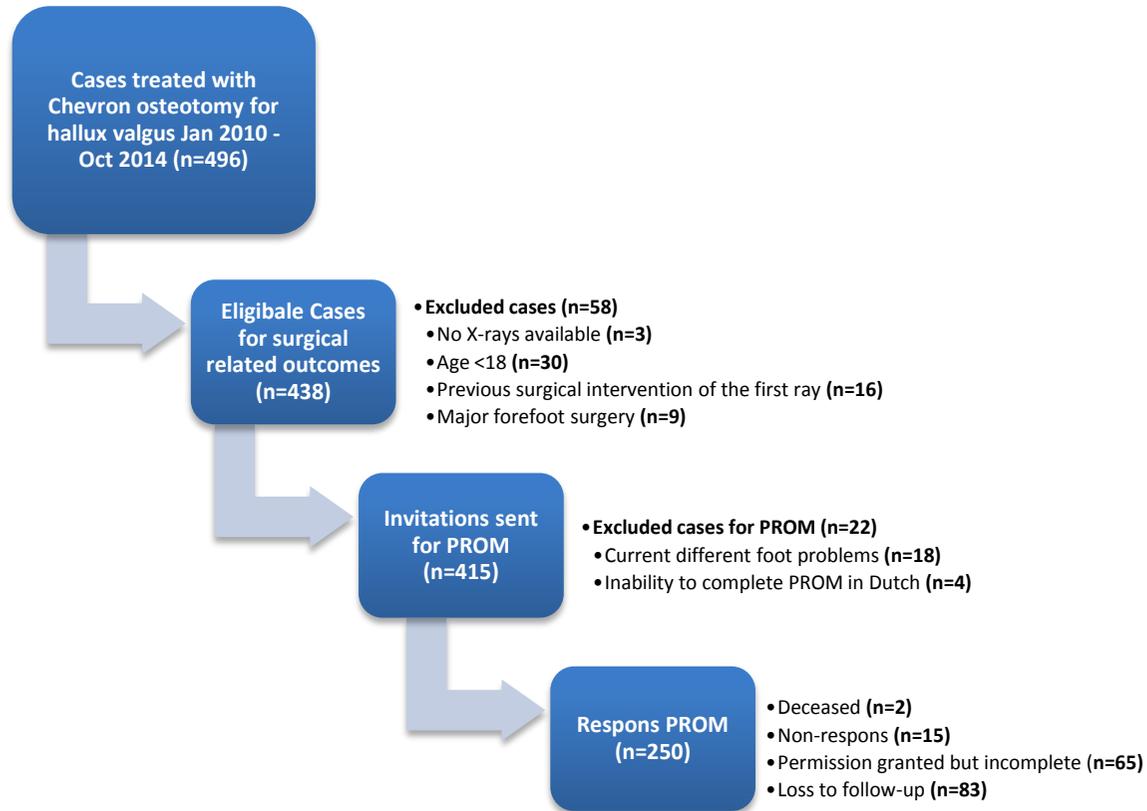


Fig 1. Study flow chart

Table 1:

Preoperative patient characteristics. BMI, age, IMA, and HVA presented as mean and \pm standard deviation between parenthesis.

	Chevron total (n=438)	FAOS+ (n=250)	FAOS- (n=188)	*p-value
Female sex, n (%)	342 (88.4)	187 (88.6)	155 (88.1)	0.87
Left side, n (%)	226 (51.6)	124 (49.6)	100 (53.2)	0.56
Bilateral, n (%)	102 (23.3)	80 (32.0)	22 (11.7)	<0.001
BMI, kg/m ²	25.2 (\pm 4.3)	25.4 (\pm 4.2)	25.1 (\pm 4.6)	0.44
Age, years	50.8 (\pm 14.6)	54.5 (\pm 13.2)	46.0 (\pm 15.0)	<0.001
IMA, degrees	12.4 (\pm 2.8)	12.3 (\pm 2.9)	12.4 (\pm 2.8)	0.64
HVA, degrees	28.5 (\pm 7.0)	29.0 (\pm 7.1)	27.9 (\pm 6.9)	0.11

Abbreviations: FAOS. Foot and ankle outcome score; BMI, body mass index; IMA, intermetatarsal angle; HVA, hallux valgus angle.

*p-value for difference between completed (FAOS+) and not completed questionnaire (FAOS-) cases.

Table 2:
Postoperative Foot and Ankle Outcome Score (FAOS)

Subscale	Mean score (\pm SD)
Pain	83 (\pm 21)
Symptoms	82 (\pm 18)
ADL	88 (\pm 18)
Sport & Rec	74 (\pm 30)
QoL	71 (\pm 29)
Mean follow-up, weeks	163 (\pm 68)

Abbreviations: ADL, function in daily living; Sport & Rec, function in sport and recreation; QoL, foot and ankle-related quality of life.

Table 3:
Foot and ankle score between groups

Subscale	Undercorrection			Reoperation		
	Yes	No	p-value	Yes	No	p-value
PAIN	77 (29; 100)	84 (38; 100)	0.13	73 (27; 100)	85 (46; 100)	0.01
SYMP	77 (27; 100)	84 (50; 100)	0.03	80 (41; 100)	83 (47; 100)	0.41
ADL	82 (39; 100)	88 (54; 100)	0.07	81 (40; 100)	89 (54; 100)	0.02
SPORT&REC	62 (0; 100)	75 (19; 100)	0.01	63 (2; 100)	75 (19; 100)	0.02
QOL	61 (4; 100)	72 (17; 100)	0.04	58 (0; 100)	73 (18; 100)	0.01

Abbreviations: ADL, function in daily living; SPORT&REC, function in sport and recreation; QOL, foot and ankle-related quality of life. Data presented as mean with 95% confidence interval.

Table 4:
Surgical procedure (Chevron) related outcomes

Concurrent procedure	N (% of 438 Chevron procedures)	Complications	N (% of 438 Chevron procedures)
DSTP	292 (66.7)	Undercorrection	51 (11.6)
Akin	129 (29.5)	Symptomatic implant	40 (9.1)
Hammertoe correction	55 (12.6)	Superficial infection	12 (2.7)
Biplane	33 (7.5)	Transfer metatarsalgia	8 (1.8)
Wilson MT-5	5 (1.1)	Hallux varus	4 (0.9)
Reoperations	N (% of 438 Chevron procedures)	CRPS	3 (0.7)
Hardware removal	40 (9.1)	Pseudo-arthrosis	2 (0.5)
Akin	7 (1.6)	Postoperative bleeding	2 (0.5)
MTPJ-1 arthrodesis	5 (1.1)	Pumonary embolism	1 (0.2)
Overig	3 (0.7)	Fracture head MT-1	1 (0.2)
Lapidus	2 (0.5)	<i>Total</i>	124 (28.3)
Re-chevron	2 (0.5)		
<i>Total</i>	59 (13.5)		

Abbreviations: DSTP, Distal Soft Tissue Procedure; MT, Metatarsal; CRPS, Complex Regional Pain Syndrome; MTPJ, MetaTarsal Phalangeal Joint.

Table 5:

Radiologic outcome measurements. Data pre and postoperative presented as mean \pm standard deviation between parenthesis.

Angle measurements	IMA	HVA
Preoperative, degrees	12.4 (\pm 2.8)	28.5 (\pm 7.0)
Postoperative	6.2 (\pm 2.7)	14.8 (\pm 6.9)
Mean difference (95-CI)	6.1 (5.9; 6.4)	13.7 (13.0; 14.5)
p-value	<0.0001	<0.0001

Abbreviations: IMA, intermetatarsal angle; HVA, hallux valgus angle, 95-CI: 95% confidence interval.