

PROMO: The joint-sparing solution to triplanar hallux valgus deformity

As the common understanding of the complexity in hallux valgus (HV) correction has progressed throughout the years, the demand for better patient outcomes has become apparent. New studies continue to shed light on the multi-plane etiology of the deformity and it is clear that frontal plane deformity of the first metatarsal should be considered when choosing the appropriate HV procedure.

FIRST METATARSAL HEAD ROTATION

- Research has shown that 87% of HV deformities have abnormal rotation of the first metatarsal ¹
- In vivo studies have quantified the rotation of the first metatarsal head in HV patients ¹⁻⁶
- Emerging evidence suggests torsion may contribute to the rotational deformity in some patients ⁷⁻⁸



Table 1:
Average first metatarsal rotation observed throughout various methods.

	Number of HV Feet	Frontal Plane Rotation Average (°)	SD (°)
Puccinelli (2017)	30	18.9	9.3
Dayton (2016)	36	22.1	5.2
Kim (2015)	166	21.9	6.0
Collan (2013)	19	8.0	2.0
Mortier (2012)	100	12.7	7.7
Saltzman (1996)	30	5.7	7.1

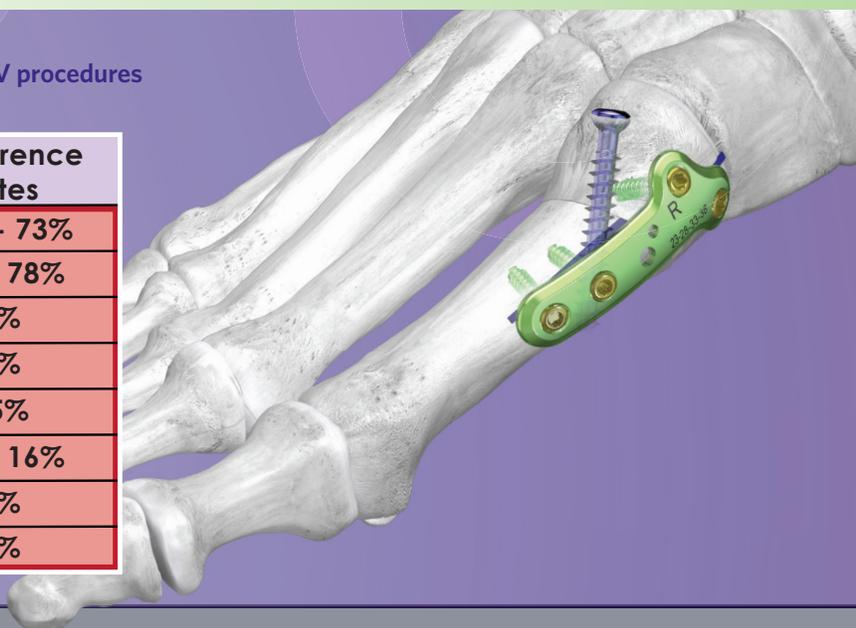
PROMO is designed to simultaneously correct the intermetatarsal angle as well as the rotational deformity through a single oblique osteotomy.

HALLUX VALGUS RECURRENCE

- HV recurrence rates have been reported to be as high as 78%
- Unaddressed frontal plane rotation has been identified as a risk factor for the recurrence of HV ²⁵

Table 2:
Select published recurrence rates associated with different HV procedures over varying periods of time.

Procedure	Recurrence Rates
Chevron Osteotomy ⁹⁻¹¹	10% - 73%
Scarf Osteotomy ^{10, 12-14}	6% - 78%
Crescentic Osteotomy ¹⁵	8%
Hohmann Osteotomy ¹⁶	9%
Proximal Opening Wedge Osteotomy ¹⁷	65%
Lapidus Arthrodesis ^{16, 18-22}	3% - 16%
Proximal Supination Osteotomy ²³	4%
PROMO ²⁴	0%



Paragon 28[®] is committed to obtaining a deeper understanding of the complexities surrounding all things foot & ankle. It is our mission to create tailored solutions and tools to not only improve the treatment and outcomes of each individual patient, but to advance our understanding of the science of foot & ankle surgery as a whole.

The PROMO Triplanar Hallux Valgus Correction System is a joint-sparing solution that provides simultaneous correction of the both the intermetatarsal angle as well as the rotational deformity through a single oblique osteotomy. A series of simple, guided jigs allow for a repeatable and streamlined technique that avoids metatarsal shortening and may help decrease the risk of HV recurrence.

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