

Continuous Compression Implants

Continuous Compression Implants may provide better clinical outcomes, economic value and enhanced patient value.

CLINICAL VALUE

FAVORABLE STRENGTH, STIFFNESS, AND STABILITY

DePuy Synthes SPEED™ Compression Implant Constructs Demonstrated:

- Statistically higher ($p < 0.001$) mean compressive loads and contact areas across the osteotomy compared to plate fixations¹
- Significantly higher stiffness and endured larger loads before 2mm gap formation compared to plate fixations in the dorsoventral plane ($p < 0.001$)¹



FOOT & ANKLE

HIGH RATES OF UNION

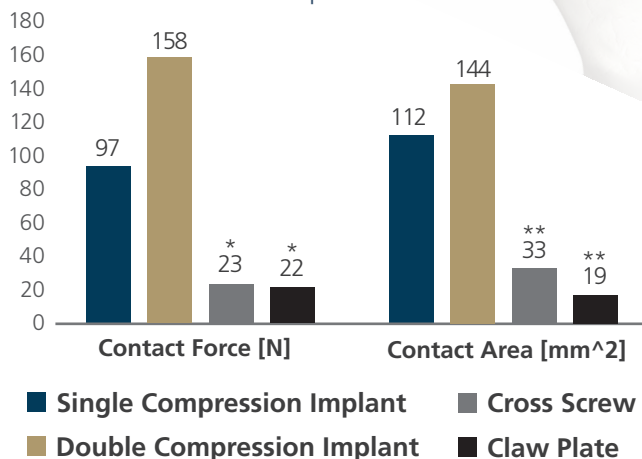
93.8% Union Rate

for midfoot and hindfoot arthrodesis using DePuy Synthes Nitinol Continuous Compression Implants.²

DYNAMIC FIXATION WITH SUSTAINED COMPRESSION ACROSS THE ARTHRODESIS

Single and Double Compression Implants Induced Significantly Greater Contact Force and Area Across the Arthrodesis Than Crossed Screw and Claw Plate Constructs⁵

Contact Force and Area Across the Arthrodesis at 2mm Gap Formation



* Denotes statistical significance against single & double compression implants ($p < 0.05$)
 ** Denotes statistical significance against single & double compression implants ($p < 0.01$)

HAND & WRIST

LOWER RATES OF COMPLICATION

Superior Rate of Nonunion
↓ 0% vs. 18.2%

for capitulate arthrodesis using continuous compression implants and screws respectively.³

Low Rate of Implant-Related Complication

↓ 6.3% vs. 27.3%

rates of implant-related complications for compression implants and screws respectively.³

PATIENT VALUE

18.1 DAYS to No Pain and No Pain Medication Usage⁴



14.3 DAYS to 1st Metatarsophalangeal Joint (MPI) Range of Motion >65⁴



21.6 DAYS to Full Activity⁴



for hallux valgus deformity treated with Austin Bunionectomy using continuous compression implants⁴

ECONOMIC VALUE

Reduce Process
Steps by

67% ↓

When Compared to
Reusable Sets

The DePuy Synthes Continuous Compression Implant Single-Use kits may help reduce costs associated with sterilization, transport, and handling. Furthermore, it may help improve efficiency and minimize delays in the OR.



The SPEEDARC™ and SPEEDTRIAD™ implant can be used effectively to **reduce operating room time**^{2,6}

The DePuy Synthes Continuous Compression Implant provide comprehensive solutions to help **Hospital Standardization of Equipment and Supplies**⁷



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