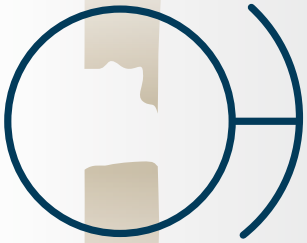
TruMatch®
GRAFT CAGE – LONG BONE

EVIDENCE INFOGRAPHIC

EPIDEMIOLOGY

Segmental bone defects represent a **difficult clinical challenge** in the reconstruction of injured limbs, most commonly tibia.[1]



NO STANDARD TREATMENT PROTOCOL EXISTS[1]

Treatment options include induced membrane (Masquelet) technique, distraction osteogenesis, bone-grafting and amputation.[1]

Segmental bone defects pose a **HIGH FINANCIAL RISK** to hospitals and healthcare systems.[2]

CLINICAL COMPLICATIONS

Open tibial fractures* are associated with a **high risk of complications** and subsequent **amputation**[3]

66% NONUNION[3]

12% MALUNION[3]

51.9% DEEP INFECTION

and 47.1% superficial / soft tissue infection[3]

27.9% MECHANICAL COMPLICATIONS[3]

6.6% AMPUTATION[3]

COST IMPLICATIONS

Patients with open tibial fractures* often require **multiple admissions,** with treatment **costs exceeding average reimbursement**[2]

Over two years post-index

71% of patients required at least **1 additional admission**[2]

11.1% required **4 or more admissions**[2]

$137K AVERAGE HOSPITAL COSTS PER PATIENT[2]

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$89K AVERAGE REIMBURSEMENT PER PATIENT[2]

* Comminuted Gustilo Anderson Type III open tibia fractures

TruMatch®
GRAFT CAGE – LONG BONE

REDEFINING SEGMENTAL DEFECT TREATMENT

TRUMATCH® Graft Cage – Long Bone is a 3D printed, patient specific, bioresorbable implant to treat critical sized segmental defects.

It is **designed to reduce complications and associated costs by:**

PROVIDING STRUCTURE AND STABILITY FOR THE DURATION OF HEALING[4]

- Designed to **prevent bone graft collapse** for the duration of healing
- Made of slow resorbing polymer (Polycaprolactone) and hence **provides graft retention and structure** for the healing period

PROVIDING PREFERABLE CONDITIONS FOR HEALING[4]

- Mesh design allows for **nutrient access and bone graft remodeling**
- Coated with osteoconductive calcium phosphate

DePuy Synthes *People inspired*™

PART OF THE Johnson&Johnson FAMILY OF COMPANIES

Manufactured by:

Synthes USA, LLC
1101 Synthes Avenue
Monument, CO 80132

To order (USA): 800-523-0322
To order (Canada): 844-243-4321

121411-190822 DSUS 10/19

REFERENCES

1. Molina, C., Stinner, D., & Obremskey, W.: Treatment of Traumatic Segmental Long-Bone Defects: A Critical Analysis Review. JBJS Reviews, 2(4) (2014).
2. M. Vanderkarr, C. Sparks, S. Wolf, A. Chitnis, J. Ruppenkamp, C. Holy: Costs and Healthcare Utilization of Trauma Cases with Comminuted Type III Fractures. Poster presented at ISPOR EU 2019.
3. M. Vanderkarr, C. Sparks, S. Wolf, A. Chitnis, J. Ruppenkamp, C. Holy: Patient Characteristics and Healthcare Utilization Following Comminuted Type III Fractures. Poster presented at ISPOR EU 2019.
4. DePuy Synthes Design Print: SD900_500S.

Please also refer to the eIFU or other labeling associated with the implant identified in this brochure for a full list of indications, contraindications, precautions and warnings.