



Zimmer® Trabecular Metal™ Osteonecrosis Intervention Implant System



The Best Thing Next To Bone™

Trabecular Metal™ Technology

The *Trabecular Metal* Osteonecrosis Intervention Implant System has been developed to intervene in stage I or II osteonecrosis of the femoral head and may be used with bone graft. The device has the potential to limit the progression of the disease, delaying or preventing the need for a hip replacement in many patients. The advantages of *Trabecular Metal* material and the implant design include:

- 75-80% porosity
- Cellular structure that resembles bone
- Stiffness similar to bone
- High coefficient of friction facilitates implant stability
- Structural support to necrotic segment of femoral head
- Intended to limit the progression of disease, delaying the need for total hip arthroplasty
- Offers an alternative to grafting procedures



Postoperative X-ray

Trabecular Metal Osteonecrosis Intervention System Ordering Information



IMPLANTS

Catalog No.	Description
00-1197-000-02	Osteonecrosis Intervention Implant Set 70mm-130mm (Includes one of each of the items listed below:)
00-1197-070-10	Trabecular Metal Osteonecrosis Intervention Implant 10mm, 70mm
00-1197-075-10	Trabecular Metal Osteonecrosis Intervention Implant 10mm, 75mm
00-1197-080-10	Trabecular Metal Osteonecrosis Intervention Implant 10mm, 80mm
00-1197-085-10	Trabecular Metal Osteonecrosis Intervention Implant 10mm, 85mm
00-1197-090-10	Trabecular Metal Osteonecrosis Intervention Implant 10mm, 90mm
00-1197-095-10	Trabecular Metal Osteonecrosis Intervention Implant 10mm, 95mm
00-1197-100-10	Trabecular Metal Osteonecrosis Intervention Implant 10mm, 100mm
00-1197-105-10	Trabecular Metal Osteonecrosis Intervention Implant 10mm, 105mm
00-1197-110-10	Trabecular Metal Osteonecrosis Intervention Implant 10mm, 110mm
00-1197-115-10	Trabecular Metal Osteonecrosis Intervention Implant 10mm, 115mm
00-1197-120-10	Trabecular Metal Osteonecrosis Intervention Implant 10mm, 120mm
00-1197-125-10	Trabecular Metal Osteonecrosis Intervention Implant 10mm, 125mm
00-1197-130-10	Trabecular Metal Osteonecrosis Intervention Implant 10mm, 130mm
00-1197-000-03	Osteonecrosis Intervention Implant Set 80mm-110mm (Includes one of each of the items listed below:)
00-1197-080-10	Trabecular Metal Osteonecrosis Intervention Implant 10mm, 80mm
00-1197-085-10	Trabecular Metal Osteonecrosis Intervention Implant 10mm, 85mm
00-1197-090-10	Trabecular Metal Osteonecrosis Intervention Implant 10mm, 90mm
00-1197-095-10	Trabecular Metal Osteonecrosis Intervention Implant 10mm, 95mm
00-1197-100-10	Trabecular Metal Osteonecrosis Intervention Implant 10mm, 100mm
00-1197-105-10	Trabecular Metal Osteonecrosis Intervention Implant 10mm, 105mm
00-1197-110-10	Trabecular Metal Osteonecrosis Intervention Implant 10mm, 110mm



INSTRUMENTS

Catalog No.	Description
00-1197-000-01	Instrument Set (Includes one of each of the items listed below:)
00-1197-001-01	Depth Gauge
00-1197-002-01	Implant Driver
00-1197-004-11	Cannulated Reamer, 8mm
00-1197-004-09	Cannulated Reamer, 9mm
00-1197-004-10	Cannulated Reamer, 10mm
00-1197-006-00	Guide Pin Punch
00-1197-007-00	Tap Extension Remover
00-1197-008-00	14mm Tap
00-1197-032-00	Guide Pin, 3.2mm diameter
00-1197-070-20	Tap Extension/Provisional, 70mm
00-1197-075-20	Tap Extension/Provisional, 75mm
00-1197-080-20	Tap Extension/Provisional, 80mm
00-1197-085-20	Tap Extension/Provisional, 85mm
00-1197-090-20	Tap Extension/Provisional, 90mm
00-1197-095-20	Tap Extension/Provisional, 95mm
00-1197-100-20	Tap Extension/Provisional, 100mm
00-1197-105-20	Tap Extension/Provisional, 105mm
00-1197-110-20	Tap Extension/Provisional, 110mm
00-1197-115-20	Tap Extension/Provisional, 115mm
00-1197-120-20	Tap Extension/Provisional, 120mm
00-1197-125-20	Tap Extension/Provisional, 125mm
00-1197-130-20	Tap Extension/Provisional, 130mm
00-1197-095-00	Instrument Case
00-4301-004-00	Ratchet T-Handle
00-1181-021-00	Partially-threaded Guide Pin, 3.2mm diameter, 45.7cm (18 in.) length (optional)



Additional References

1. T.D. Brown, R.A. Brand, D.R. Pedersen, A.D. Heiner, R.A. Poggie, and M.J. Christie, "Biomechanics of Femoral Head Osteonecrosis: Natural History and Head-Preserving Surgical Management," A Scientific Exhibit at the 66th Annual AAOS, February 4-8, 1999, Anaheim, CA.
2. D. Pedersen, T. Brown, and R. Poggie, "Finite Element Characterization of a Porous Tantalum Material for Treatment of Avascular Necrosis", 43rd ORS, Feb. 9-13, 1997, San Francisco, CA, pp. 598.
3. A.D. Heiner, T.D. Brown, R.A. Poggie, "Structural Efficacy of a Novel Porous Tantalum Implant for Osteonecrosis Grafting", the 47th Annual Meeting of the ORS, February 25-28, 2001, San Francisco, CA.
4. Zhang Y, Ahn PB, Fitzpatrick DC, Heiner AD, Poggie RA, Brown TD, "Interfacial frictional behavior: Cancellous bone, cortical bone, and a novel porous tantalum biomaterial", *Journal of Musculoskeletal Research*, 3(4): 245-251, 1999.

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