REVISION

Omnifit®
Cemented Long Stem

Omnifit®
Cemented Head/Neck Long Stem

Howmedica OSTEONICS® Omnifit® Revision Hip System

SURGICAL TECHNIQUE

stryker® Howmedica OSTEONICS

Howmedica Osteonics® Omnifit®
Cemented Long Stem Protocol Addendum

Proximal Preparation

The proximal femur for the Howmedica Osteonics® Omnifit® Cemented Long Stem is prepared according to the Surgical Protocol for the Howmedica Osteonics Cutting Edge™ Instruments (Lit # LSP42). A trial reduction may be performed at this point to accurately assess joint tissue tension and range of motion (Figure 1).

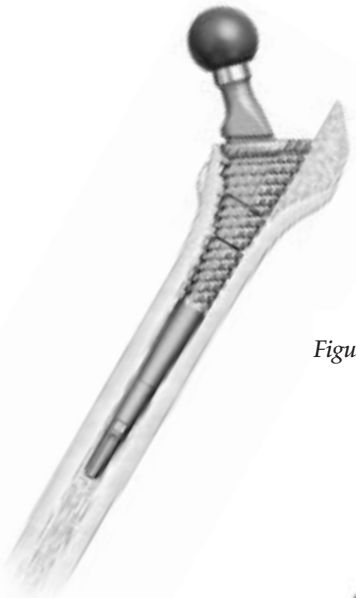

Figure 1

Distal Canal Preparation

Flexible reamers are to be used to prepare the distal femur for the Howmedica Osteonics® Omnifit® Cemented Long Stem. To determine the appropriate size flexible reamer, it is necessary to know the distal stem diameter (please refer to the chart on the back cover). Begin flexible reaming with the smallest size reamer and proceed slowly in 1 mm increments until the prepared canal is 1 mm to 2 mm greater than the distal diameter of the intended stem (Figure 2). Distal cancellous bone should be preserved for cement interdigitation. Therefore, excessive reaming is not recommended.

Note: Howmedica Osteonics® flexible reamers must be driven by a means of a low speed power source and always in a forward (clockwise) motion. Use of the flexible reamers in reverse or with an aggressive forward motion will damage the flexible shaft. Flexible reamers should always be used with a guide wire for guidance and removal in the event the reamer becomes lodged.

Figure 2

Trial Reduction and Implantation

The Howmedica Osteonics® Omnifit® Cemented Long Stem trial prosthesis is used to check distal stem fit. Enlargement of the distal canal may be necessary with the next size flexible reamer if interference is encountered during trial insertion. Use of fluoroscopy or interoperative x-ray can be useful in determining the cause of such interference.

A trial reduction should be performed at this point if one was not done previously with the proximal broach to accurately determine component sizing for joint stability and range of motion.

Use of a properly sized cement restrictor is recommended to plug the distal end of the femoral canal. Once accomplished, the trial prosthesis should then be inserted into the femur to assure adequate clearance distally as well as through the anterior bow.

Implantation of the stem is performed following the established principles and methods of cement insertion and pressurization (Figure 3). The stem can be inserted using the Femoral Stem Impactor or the Hip Stem Version Control Instrument.

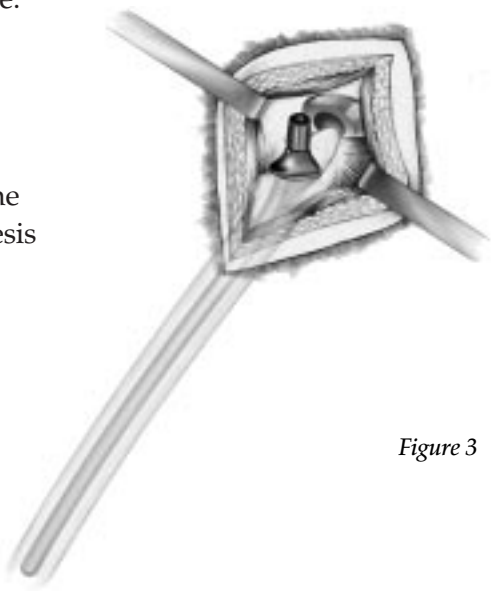

Figure 3

Howmedica Osteonics® Omnifit® Head/Neck Cemented Long Stem Protocol Addendum

Howmedica OSTEONICS® Omnifit® CEMENTED HEAD/NECK* LONG STEM

Proximal Preparation

The proximal femur for the Howmedica Osteonics Head/Neck Long Stem is prepared according to the Surgical Protocol for the Howmedica Osteonics® Omnifit Head/Neck Hip Stem (Lit. # LSP40). A trial reduction may be performed at this point to accurately determine the appropriate proximal body size to be used for the long stem (Figure 4).

Figure 4

Distal Canal Preparation

Flexible reamers must be used to prepare the distal femur for the Head/Neck Long Stem. To determine the appropriate size flexible reamer, it is necessary to know the distal stem diameter (please refer to the chart on the back cover). Begin flexible reaming with the smallest size reamer and slowly proceed in 1 mm increments until the prepared canal is 1 mm to 2 mm greater than the distal diameter of the intended stem (Figure 5). Distal cancellous bone should be preserved for cement interdigitation. Therefore, excessive reaming is not recommended.

Note: Howmedica Osteonics® flexible reamers must be driven by a means of a low speed power source and always in a forward (clockwise) motion. Use of the flexible reamers in reverse or with an aggressive forward motion will damage the flexible shaft. Flexible reamers should always be used with a guide wire for guidance and removal in the event the reamer becomes lodged.

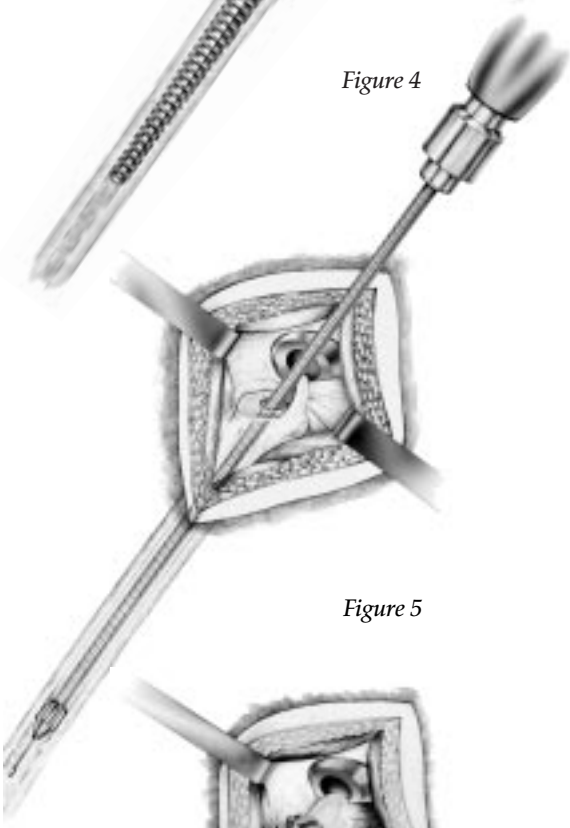

Figure 5

Trial Reduction and Implantation

The Head/Neck Long Stem trial prosthesis is used to check distal stem fit, conformance to the anterior bow of the femur and proximal stem fit (Figure 5). Enlargement of the distal canal may be necessary with the next size flexible reamer if interference is encountered during trial insertion. Use of fluoroscopy or interoperative x-ray can be useful in determining the cause of such interference.

A trial reduction should be performed at this point if one was not done previously with the proximal broach to accurately determine the appropriate proximal body size to be used.

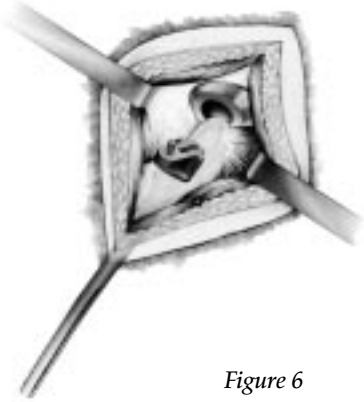

Figure 6

Use of a properly sized cement restrictor is recommended to plug the distal end of the femoral canal. Once accomplished, the definitive prosthesis should then be inserted into the femur to assure adequate clearance distally as well as through the anterior bow.

Implantation of the stem is performed following the established principles and methods of cement insertion and pressurization (Figure 7). The stem is impacted using the Femoral Stem Impactor.

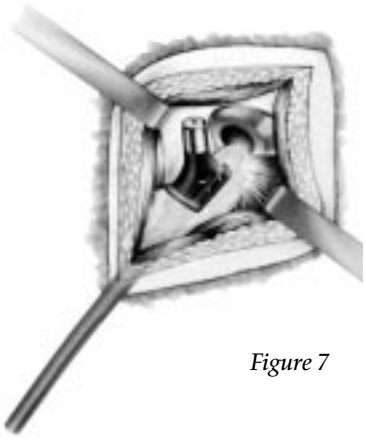

Figure 7

Howmedica OSTEONICS® Omnifit®
CEMENTED LONG STEM

Implants

Implant Catalog Number	Trial Catalog Number	Stem & Trial Size	Neck Length (mm)	Distal Diameter (mm)	Stem Length (mm)
6088-0525-200L/R	6188-0525-200L/R	5	25	10.9	200
6088-0525-250L/R	6188-0525-250L/R	5	25	10.9	250
6088-0525-300L/R	N/A	5	25	10.9	300
6088-0525-350L/R	N/A	5	25	10.9	350
6088-0730-200L/R	6188-0730-200L/R	7	30	12.4	200
6088-0730-250L/R	6188-0730-250L/R	7	30	12.4	250
6088-0730-300L/R	N/A	7	30	12.4	300
6088-0730-350L/R	N/A	7	30	12.4	350
6088-0935-200L/R	6188-0935-200L/R	9	35	14.0	200
6088-0935-250L/R	6188-0935-250L/R	9	35	14.0	250
6088-0935-300L/R	N/A	9	35	14.0	300
6088-0935-350L/R	N/A	9	35	14.0	350
6088-1140-200L/R	6188-1140-200L/R	11	40	15.5	200
6088-1140-250L/R	6188-1140-250L/R	11	40	15.5	250
6088-1140-300L/R	N/A	11	40	15.5	300
6088-1140-350L/R	N/A	11	40	15.5	350

Howmedica OSTEONICS® Omnifit®
CEMENTED HEAD/NECK*
LONG STEM

Implant Catalog Number	Trial Catalog Number	Stem & Trial Size	Proximal Body Length (mm)	Distal Diameter (mm)	Stem Length (mm)
6080-0530-200L/R	6080-9005-200L/R	5	30	10.9	200
6080-0735-200L/R	6080-9007-200L/R	7	35	12.4	200
6080-0745-200L/R	6080-9007-200L/R	7	45	12.4	200
6080-0935-250L/R	6080-9009-250L/R	9	35	14.0	250
6080-0945-250L/R	6080-9009-250L/R	9	45	14.0	250

*Intended for cemented use only in the USA.

Literature

Catalog Number	Description
LTEM44B 1-4	Cemented Long Stem Template Set
LTEM41B 1-5	Cemented Head/Neck Long Stem Template Set

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