PEMBERTON OSTEOTOMY

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Pelvic Osteotomies for the Treatment of Hip Dysplasia in Children and Young Adults

CDR Bruce L. Gillingham, MC, USN; LCDR Anthony A. Sanchez, MC, USNR; and Dennis R. Wenger, MD

Redirectional (Complete) Osteotomies

Reshaping (Incomplete) Osteotomies

Salvage/Augmentation Procedures
Pericapsular Osteotomy of the Ilium for the Treatment of Congenitally Dislocated Hips

Paul A. Pemberton, M.D.
Pemberton Osteotomy for Acetabular Dysplasia

- Developmental dysplasia of the hip
- Acetabular dysplasia
- Legg-Calvé-Perthes disease with femoral head subluxation/ lateral protrusion
- Anterosuperior deficiency of the acetabulum secondary to neuromuscular disease
- Sequelae of an infected hip with femoral head subluxation
CONTRAINDICATIONS

Pemberton Osteotomy for Acetabular Dysplasia

- Closed triradiate cartilage
- Deformed femoral head
- Small acetabular volume
- Active infection/osteomyelitis
APPROACH
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rectus femoris

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AI 15° / 15°
Pemberton’s Pericapsular Osteotomy for the Treatment of Acetabular Dysplasia

Kálmán Szepesi, M.D., János Rigó, M.D., Béla Bíró, M.D., Katalin Fazekas, M.D., and László Póti, M.D.

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The results among patients operated on before age 7 were more favorable than those of patients operated on at an older age.
Pemberton Osteotomy for Developmental Dysplasia of the Hip in Older Children

Akifusa Wada, MD, PhD, Toshio Fujii, MD, Kazuyuki Takamura, MD, PhD, Haruhisa Yanagida, MD, Mayuki Taketa, MD, and Tomoyuki Nakamura, MD

Study conducted at Fukuoka Children’s Hospital, Fukuoka, Japan

Pemberton osteotomy can be a safe, effective procedure for older children in whom progressive acetabular development is not expected, although this osteotomy may have to be combined with other operative procedures.
A radiological comparison of Salter and Pemberton osteotomies to improve acetabular deformations in developmental dysplasia of the hip

Cemil Ertürk, Mehmet A. Altay and Uğur E. Işikkan
How the pemberton innominate osteotomy really works: an animal study.

Cummings RJ\textsuperscript{1}.

No alteration of acetabular volume was observed following successful Pemberton innominate osteotomies. The Pemberton osteotomy improves femoral head coverage through redirection of the acetabulum rather than alteration of acetabular shape.
TAKE HOME MESSAGES

PEMBERTON OSTEOTMY

- Easy, fast, with a low morbidity.
- Combined with femoral osteotomy and soft tissue release.
TECHNIQUES CHANGE, BUT PRINCIPLES ARE FOREVER!
THANKS FOR YOUR ATTENTION!