

Surgical approaches of the Hip.
Introduction

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History of the approaches

- 1874 Bernhard von Langenbeck: extensive posterior approach for resection of the femoral head, (suppurative arthritis of the hip)². Theodor Kocher modified distally approach
- 1880 Carl Hueter anterior incision to reach the hip joint in 1880, which was used at that time for femoral head resections (infection in childhood)
- 1890 : **Themistoklès Gluck** : Hip arthroplasty (Ivory)
- 1954 : McFarland and Osborne: lateral approach (Gibson modified)
- 1936 b: Sir Watson Jones: Anterolateral approach to the hip
- 1949 : Marius Smith-Petersen : anterior approach for THA
- 1950: Judet Brothers: anterior approach for THA (on traction table)
- 1957: Austin Moore's approach (posterior)
- 1964: sir John Charnley: transtrochanteric approach for THA
- 1982: Hardinge: lateral approach

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Hip approaches : Indications

- THA
- Infection
- Intra-articular pathologies
 - FAI
 - Rheumatologic disease
 - Foreign body
 - Etc.
- Fracture
- Tumors
- Etc.

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Approaches to the Hip

Various approaches
 Multiple acronyms
 Various tricks
 From posterior to anterior, « around » the Hip

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Classical approaches
 Mini open, less-invasive or mini-invasive

Anterior
 Antero-lateral
 Transgluteal
 Lateral or transtrochanteric
 Postero-lateral or posterior

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Posterior Lateral Direct Anterior

	Flexion	Extension	Adduction	Abduction	ER	IR
Iliacus		Gluteus maximus	Adductors	Gluteus (medius)	Piriformis	Tensor fasc. lata
Psoas		(Gluteus minimus)	Pectine	Gluteus (minimus)	Obturator externus	Gluteus medius
Sartorius		(Gluteus medius)	Gracilis	Tensor fascia lata	Obturator internus	Gluteus minimus
Rectus femoris		Ischio-jambiers		Gluteus maximus	Quadratus femoris	
Tensor fascia lata				(Piriformis)	Gluteus medius et minimus	

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Choice of the approach Hôpital Erasme | ULB

- Associated to the training
 - < Orthopedics' school
- Knowledge of the different approaches
 - Specificity (indications)
 - Knowledge of the specific complications
 - Treatment
 - Interest in case of revision

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Other approaches Hôpital Erasme | ULB

- Surgical dislocation of the hip (R. Ganz)
 - Femoro-acetabular impingement
 - Fracture
- Medial approach on the hip (Ludloff K (1908), Chiron)
 - Tumor
 - Foreign body
 - (THA¹)



Chiron P et al. Orthop Traumatol Surg Res 2014.
¹Lucente L et al. J Orthop Surg Tech 2019

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