Obturator Internus Muscle (OI)

1 Overview

Muscle	Origin	Insertion	Innervation	Action
Obturator	Obturator	Medial surface	Nerve to	Hip: ER,
Internus	membrane	of Greater	Obturator	Extension,
	and its bony	Trochanter	internus	Abduction,
	boundaries		L5 - S1	Stabilization

2 Origin

Inner surface of the obturator membrane and its bony boundaries¹

3 Insertion

Medial surface of the greater trochanter¹

4 Innervation

Sacral plexus (L5, S1)1

5 Action

- External rotation and extension of the hip joint (also active in abduction, depending on the joint's position)¹
- Stabilizes hip joint -DrK

6 Function

"Ultrasound guided EMG analysis of the obturator internus and several other external rotator muscles in 10 human subjects.98 The obturator internus was usually the first muscle to become active during a gradually increasing isometric effort to abduct and externally rotate the hip."²

7 Stretch

Child's Pose stretch can be used to stretch the Obturator Internus muscle. By cueing the knees to stay straight instead of moving into hip ER, this better stretches the obturator internus.

- 1. Gilroy AM, MacPherson BR, Wikenheiser JC, Voll MM, Wesker K, Schünke M, eds. *Atlas of Anatomy*. 4th ed. Thieme; 2020.
- 2. Neumann DA, Kelly ER, Kiefer CL, Martens K, Grosz CM. *Kinesiology of the Musculoskeletal System: Foundations for Rehabilitation*. 3rd ed. Elsevier; 2017.