	The lumbar plexus	SACRAL PLEXUS	COCCYGEAL PLEXUS
	1- The supply motor and sensory innervation to lower limb 2- formed by the ventral rami of L1-L4	1 الموضوع الغوعي	1- small network of nerve fibers 2- formed by — anterior rami of S4 and S5 coccygeal nerve 3- supplies — part of the levator ani sacrococcygeal joint
Location	1- in the abdomen (greater pelvis) 2- No pelvic structures are supplied by the obturator nerve	1- located on the posterolateral wall of the lesser pelvis 2 bed for the sacral and coccygeal nerve plexuses 3- Most branches of the sacral plexus leave the pelvis through the greater sciatic foramen 4- The anterior rami of the S2 and S3 nerves — emerge between the digitations of these muscles 5- the sciatic and pudendal nerves — lie external to the parietal pelvic fascia	1- It lies on the pelvic surface of the coccygeus "ولا تكلني إلى نفسي، إنك إنى تكلني إلى نفسي، تكلني إلى ضيعة وعورة وذنب وخطيئة، وإنى لا أثِقُ إلا برحمتك
Nerves	1. The iliohypogastric nerve (T12,L1) 2. The ilioinguinal nerve (L1) 3. The genitofemoral nerves (L1,L2) 4. The lateral femoral cutaneous nerve (L2,L3) 5. The obturator nerve (L2,L3,L4) No pelvic structures are supplied by the obturator nerve 6. The femoral nerve (L2,L3,L4)	(1) The sciatic nerve (2) The pudendal nerve (3) The superior gluteal nerve (4) The inferior gluteal nerve (5) Posterior cutaneous nerve of thigh	"ولا تكلني إلى نفسي، إنك إن تكلني إلى نفسي، تكلني إلى ضَيعةٍ وعورةٍ وذنبٍ وخطيئة، وإني لا أيْقُ إلا برحمتك ياحيُّ يا قيُّوم، ياحيُّ يا قيُّوم، برحميتك أستغيث، أصلح لي شَأْنِي كُلَّر، ولا تَكِلني إلى نفسي طرفةً عَين " ولا تَكِلني إلى نفسي طرفةً عَين "
Nerve	In the abdomen (greater pelvis) arises from the anterior rami of spinal nerves L2 L3-L4 of the lumbar plexus enters the lesser pelvis It runs in the extraperitoneal fat along the lateral wall of the pelvis an opening in the obturator membrane that otherwise fills the obturator foramen to the obturator canal		arising from this plexus 1- The anococcygeal nerves pierce the anococcygeal ligament supply a small area of skin between the anus



	SACRAL PLEXUS				
		Origin	Supply	Course	
1- Is the largest nerve in the body	(1) The sciatic nerve	anterior rami of spinal nerves L4, L5, S1, S2, S3	1- Articular branches to hip joint 2- muscular branches to flexors of knee in thigh 3- all muscles in leg and foot	1- the sciatic nerve passes through the greater sciatic foramen 2- to enter the gluteal region	
1- is the main nerve of the perineum 2- chief sensory nerve of the external genitalia	(2) The pudendal nerve	S2, S3, S4	1- Structures in perineum — 1- Structures in perineum — 2- muscular branches to perineal muscles — 3- external urethral sphincter — 4- external anal sphincter	between the piriformis and coccygeus muscles. 1- leaves the pelvis through the greater sciatic foramen 2- then hooks around sacrospinous ligament 3- enters the perineum through the lesser sciatic foramen	
1- supply muscles in the gluteal region	(3) The superior gluteal nerve	L4, L5, S1	1- Gluteus medius 2- gluteus minimus muscles	superior to the piriformis 1- leaves the pelvis through the greater sciatic foramen 2- supply muscles in the gluteal region	
	(4) The inferior gluteal nerve	L5, S1, S2	1- Gluteus maximus	Inferior to the piriformis and superficial to the sciatic nerve 1- leaves the pelvis through the greater sciatic foramen 2- Both break up into several branches 3- enter the deep surface of the overlying gluteus maximus muscle	
	(5) Posterior cutaneous nerve of thigh	S2, S3	1- Cutaneous branches to buttock 2- uppermost medial and posterior surfaces of thigh		



Number of small branches of the sacral plexus tend directly to supply muscles

	Origin	Supply
Nerve to piriformis	S1, S2	Piriformis muscle
Nerve to quadratus femoris (and inferior gemellus)	L4, L5, S1	Quadratus femoris inferior gemellus muscles
Nerve to obturator internus (and superior gemellus)	L5, S1, S2	Obturator internus superior gemellus muscles
Pelvic splanchnic Nerves	S2, S3, S4	Pelvic viscera via pelvic plexuses
Nerves to levator ani and coccygeus	S3, S4	Levator ani coccygeus muscles

