

LIST OF FIGURES

FIGURES	LEGEND	PAGE NO.
Figure 3.1	Anterior division of Internal Iliac Artery	9
Figure 3.2	Posterior division of Internal Iliac artery.	10
Figure 3.3	Internal pudendal artery in Females	14
Figure 3.4	Internal pudendal artery in Males.	14
Figure 3.5	The inferior gluteal artery	16
Figure 3.6	Obturator Artery	18
Figure 3.7	Corona mortis	21
Figure 3.8	Umbilical artery	23
Figure 3.9	Superior Vesical Artery	24
Figure 3.10	Vaginal Artery	27
Figure 3.11	Uterine Artery	30
Figure 3.12	Superior gluteal artery	33
Figure 3.13	Lateral Sacral Artery	35
Figure 3.14	Development of Iliac Artery	39
Figure 3.15	Type I, Lipshutz classification of the IIA	42
Figure 3.16	Type II, Lipshutz classification of the IIA	43
Figure 3.17	: Type III, Lipshutz classification of the IIA	44
Figure 3.18	Type IV, Lipshutz classification of the IIA	45
Figure 3.19	Type V, Lipshutz classification of the IIA	46
Figure 3.20	Five types of internal iliac artery branching pattern based upon a study of Lipshutz.	47
Figure 3.21	Ten types of variation in the branching pattern of the internal iliac artery based upon four main branches by Dubreuil-Chambardel.	48
Figure 3.22	Ten types of variation in the origin of the visceral branches of the internal iliac artery by Dubreuil-Chambardel.	49
Figure 3.23	The branching pattern of the internal iliac artery, as classified by Adachi et al. (1928).	51

Figure 3.24	Lippert and Pabst's classification of Internal iliac artery	54
Figure 3.25	A modified Adachi classification (By Yamaki et al. 1998).	56
Figure 3.26	The branching pattern of the IIA classified without the umbilical artery by Yamaki et al.	58
Figure 3.27	Al Talalwah classification.	63
Figure 3.28	Balcerzak A et al. (2021) - new classification	65
Figure 4.1	Instruments used during the study for dissection	88
Figure 4.2	Left pelvic half shows vertebral level of bifurcation of Common iliac artery into External iliac artery & internal iliac artery which corresponds with origin of internal iliac artery	89
Figure 4.3	Distance from the origin of left internal iliac artery i.e. bifurcation of left common iliac artery into left external iliac artery & left internal iliac artery to the midsagittal plane.	90
Figure 4.4	Length of the left internal iliac artery was measured from its point of origin to its point of termination into Anterior Division & Posterior Division	91
Figure 4.5	Measurement of length of the left internal iliac artery	91
Figure 4.6	Measurement of external diameter of the right internal iliac artery	92
Figure 4.7	The measurements of distance from point of division of internal iliac artery to upper border of Greater Sciatic Foramen (GSF) in left pelvic half.	93
Figure 4.8	Adachi's Classification	95
Figure 5.1	Male cadaver showing different vertebral level of origin of internal iliac artery.	99
Figure 5.2	Distance of the right internal iliac artery to the midsagittal plane	101
Figure 5.3	Left pelvic half shows the shortest length of the internal iliac artery, here it immediately divides into Anterior Division & Posterior Division	105

Figure 5.4	Right pelvic half shows the maximum values of External Diameter of the internal iliac artery	107
Figure 5.5	Left pelvic half shows bifurcation of internal iliac artery into Anterior and Posterior division.	109
Figure 5.6	Left pelvic half shows trifurcation of internal iliac artery into Posterior division, Common Trunk of inferior gluteal artery & internal pudendal artery and Anterior division.	109
Figure 5.7	Right pelvic half shows trifurcation of internal iliac artery (IIA) into Iliolumbar Artery (ILA), Anterior division (AD) and Posterior division (PD).	110
Figure 5.8	Left pelvic half shows many branches directly from main trunk of internal iliac artery (IIA) without dividing into two division.	110
Figure 5.9	The distance from point of division of internal iliac artery to upper border of Greater Sciatic Foramen (GSF) in left pelvic half.	112
Figure 5.10	Right pelvic half shows type Ia Adachi's classification—Superior gluteal artery arises separately from internal iliac artery and a common trunk for Inferior gluteal artery and Internal pudendal artery divides proximal to the pelvic floor.	114
Figure 5.11	Right pelvic half shows type Ib Adachi's classification—Superior gluteal artery arises separately from internal iliac artery and a common trunk for Inferior gluteal artery and Internal pudendal artery divides outside the pelvis, below pelvic floor.	114
Figure 5.12	Right pelvic half shows type II Adachi's classification- The superior (SGA) and inferior gluteal (IGA) arteries arose from a common trunk whereas the internal pudendal artery (IPA) arose independently.	115
Figure 5.13	Right pelvic half shows type III Adachi's classification - the three branches, namely, Inferior gluteal (IGA),	115

	Superior gluteal (SGA), and Internal pudendal artery (IPA), arise separately from the internal iliac artery	
Figure 5.14	Right pelvic half shows type V Adachi's classification - The internal iliac artery trunk gives the Internal pudendal, and Superior gluteal arteries from a common trunk whereas the Inferior gluteal has a separate origin	116
Figure 5.15	Left pelvic half shows origin of Obturator artery direct from Anterior Division of the internal iliac artery	118
Figure 5.16	Left pelvic half shows origin of Obturator artery direct from Posterior division of the internal iliac artery	118
Figure 5.17	Left pelvic half shows the origin of Obturator artery from a common trunk with Iliolumbar artery	119
Figure 5.18	Both sides of Male cadaver show origin of Obturator artery from Inferior Epigastric Artery from External Iliac artery	119
Figure 5.19	Left pelvic half shows origin of Obturator artery direct from Posterior division of the internal iliac artery	120
Figure 5.20	Right pelvic half shows origin of Obturator artery (OA) from External iliac artery (EIA)	120
Figure 5.21	Left pelvic half shows origin of Inferior gluteal artery (IGA) from Obturator artery (OA) which is arising from posterior division (PD) of the internal iliac artery (IIA)	122
Figure 5.22	Left pelvic half shows the origin of the Iliolumbar artery from the Posterior division of the Internal iliac Artery	124
Figure 5.23	Left pelvic half shows the origin of the Iliolumbar artery (ILA) from the trunk of the Internal iliac Artery (IIA).	124
Figure 5.24	Left pelvic half shows the double origin of the Iliolumbar artery (ILA), one direct from the trunk of the internal iliac Artery (IIA) & other from the Posterior division (PD) of the internal iliac artery.	126
Figure 5.25	Left pelvic half shows the origin of the superior vesical artery (SVA) from obturator artery (OA) which was arising from External iliac artery (EIA)	128

Figure 5.26	Right pelvic half shows the superior vesical artery arises as a two branches from internal iliac Artery	130
Figure 5.27	Right pelvic half shows the superior vesical artery (SVA) arises as a three branches from anterior division (AD) of internal iliac Artery (IIA)	130
Figure 5.28	Left pelvic half shows the origin of middle rectal artery (MRA) from a common trunk (CT) with internal pudendal artery (IPA) & inferior gluteal artery (IGA).	131