

**TABLE S1.1 The Cause of revision lumbar spine surgery (Unmatched data)**

	Discectomy N=4424	Laminectomy N=5228
Incidental durotomy	3(0.07)	1(0.02)
Post-operative hemorrhage	6(0.14)	11(0.21)
Post-operative spine infection	59(1.33)	108(2.07)
Postlaminectomy syndrome; lumbar region	322(7.28)	543(10.39)
Lumbar disc problem	2523(57.03)	1409(26.95)
Acquired spondylolisthesis	386(8.73)	753(14.4)
Lumbar spinal stenosis	605(13.68)	1142(21.84)
Lumbosacral spondylosis	520(11.75)	1261(24.12)

**TABLE S1.2 The Cause of revision lumbar spine surgery (matched data)**

	Discectomy N=1124	Laminectomy N=977
Incidental durotomy	2(0.18)	1(0.1)
Post-operative hemorrhage	2(0.18)	3(0.31)
Post-operative spine infection	20(1.78)	18(1.84)
Postlaminectomy syndrome; lumbar region	78(6.94)	86(8.8)
Lumbar disc problem	763(67.88)	442(45.24)
Acquired spondylolisthesis	53(4.72)	74(7.57)
Lumbar spinal stenosis	93(8.27)	131(13.41)
Lumbosacral spondylosis	113(10.05)	222(22.72)