

APSS - GANGA HOSPITAL FELLOWSHIP REPORT

Duration: 16th September to 5th October 2024

Fellow: **DR Jhuton Chandra Banik.**

MBBS, MS (Orthopaedic Surgery), FACS, FICS

Resident Surgeon (Orthopaedic Surgery)

Dhaka Medical College Hospital, Dhaka, Bangladesh



Host - **Prof. S. Rajasekaran, Ph.D.**

Chairman, Department of Orthopaedics, Trauma & Spine Surgery

Ganga Medical Centre & Hospital Pvt. Ltd., Coimbatore, India.

The Asia-pacific spine society (APSS) Ganga Hospital spine fellowship 2024 was scheduled for me from 16th September to 05th October 2024 at Ganga hospital, Coimbatore, India under the mentorship of Prof S. Rajasekaran Ph.D. First of all, I would like to express my heartfelt gratitude to APSS and Ganga Hospital for selecting me to undergo this spine fellowship at Ganga Hospital, Coimbatore, India. This fellowship was initially scheduled from 1st July to 21st July 2024, however, due to my family issue this fellowship was rescheduled. Many thanks to Prof S. Rajasekaran Ph.D., Ms. Jennifer Matthew, Mr. Mohan & Dr. Sarwar Jahan for this new scheduled. I would like to thanks to my mentor Prof. Dr. Md. Shah Alam, Chief Consultant, Bangladesh Spine & Orthopaedic

Hospital, Dhaka, Bangladesh who encourage me for APSS life membership and to apply for this fellowship.

I started my journey by taking a flight from Dhaka to Chennai and then from Chennai to Coimbatore on 14th September. Once I have arrived at the Coimbatore International Airport, I was greeted by a driver Mr. Suriya from Ganga Hospital and he brought me to the CPC Guesthouse. The accommodation was provided by Ganga Hospital it was clean, and well-equipped. There were daily housekeeping and laundry services. The guesthouse was located about 3 km from the hospital. There was daily bus service provided by the hospital in the morning and the evening. In the guest house I met 2 Ethiopian, 1 Colombian spine fellows and 2 Ethiopian trauma fellows.

Ganga Hospital is a 650-bedded specialty hospital solely dedicated to Orthopaedics, Trauma & Spine Surgery with more than 2500 spine surgeries operated per year. The first day I arrived and waiting to meet Mr. Mohan and also Prof S Rajasekaran sir, so I was waiting in the lobby suddenly I saw Dr Rishi sir going to the operation theater, I greeted him and took me to the dressing room, doctors dining room, operation theater that was amazing and finally I managed to meet Prof Rajasekaran in the operation theatre. After that, I was given the opportunity to participate in the OT. I was amazed with the number of cases and the variety of cases operated here. There were 6 operation days in a week. There were 3 to 5 OTs out of 9 OTs operating spine surgeries at the same time in a day. I have a busy schedule during my fellowship at Ganga Hospital. I have opportunities to observe or assist all the consultants – Prof Rajasekaran, Dr Ajoy Shetty, Dr Rishi and Dr Vijay. Several Indian and foreign fellows were introduced to the hospital and various topics were discussed regularly specially Dr Piyush, Dr Pranab, Dr Teddy, Dr Ayman, Dr Karthik they are so much cooperative. There was a variety of cases here, ranging from anterior cervical discectomy and fusion, foramen magnum decompression, scoliosis, tuberculous kyphosis, spine trauma, spine infection and lumbar decompression and fusion surgeries, microscopic & endoscopic discectomy. During my 3-week stay here, I have observed osteotomies for severe scoliosis and healed tuberculous kyphosis using intraoperative CT navigation system & also observed Robotic assisted spine surgery. I also managed to learn the intraoperative management and postoperative pain regime for scoliosis patients, SNRB and epidural steroids from the anesthetists.

Interesting case presentation

Case 01:

A 21 years old boy has been suffering from low back pain and diagnose as Spondyloptosis (Spondylolisthesis grade -5) L5-S1. Delta fixation was done.

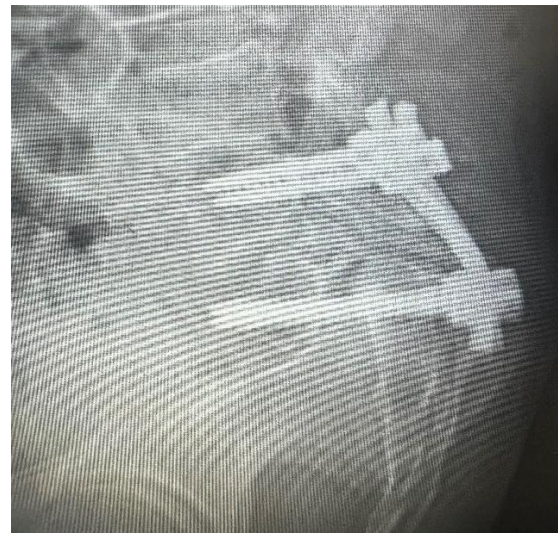
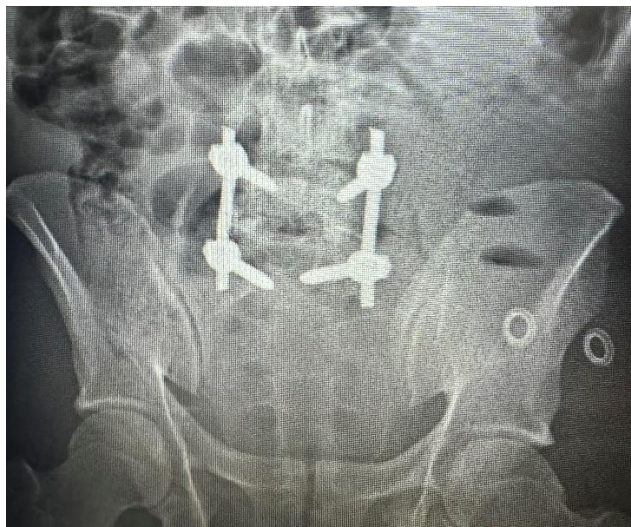
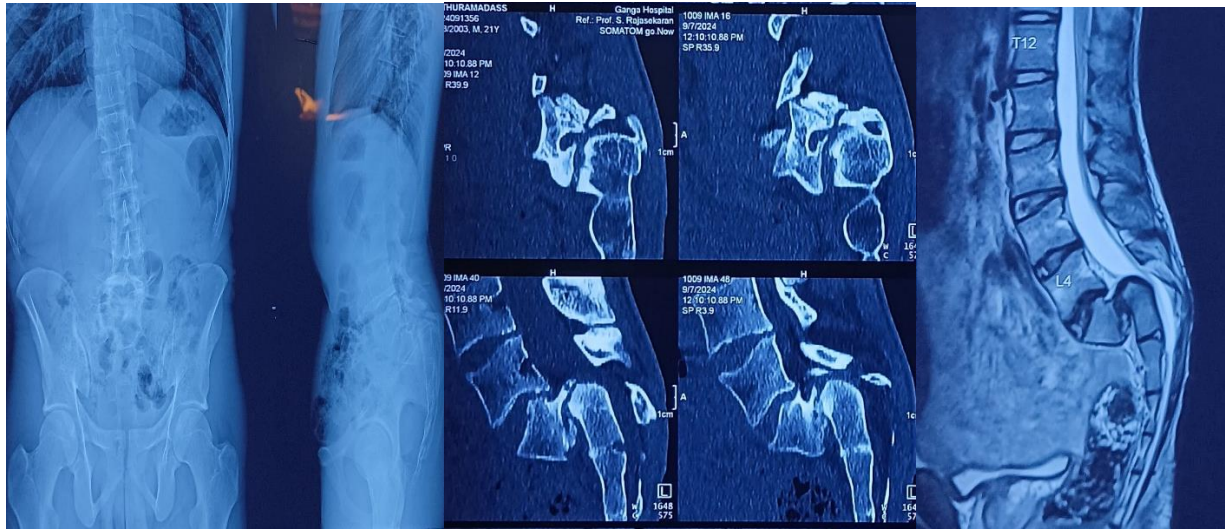
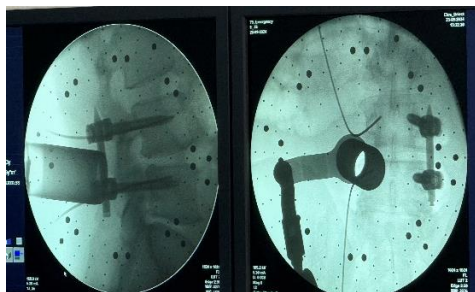
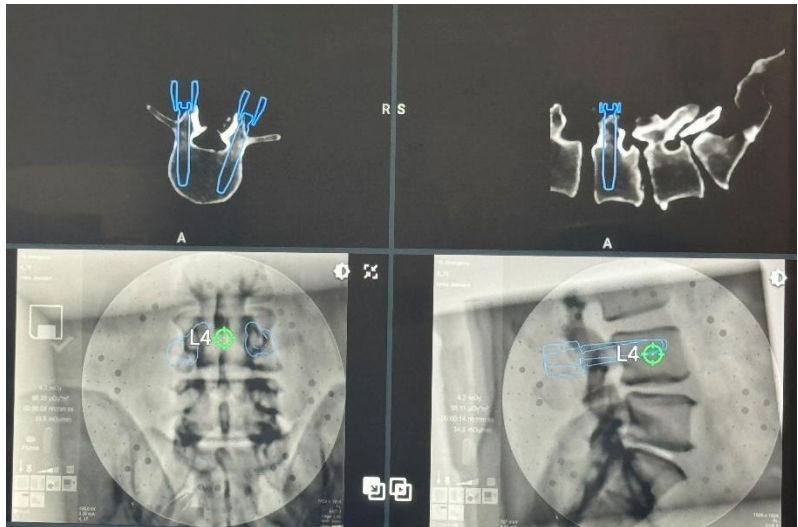


Figure: Pre-operative & Post-operative radiograph.

Case 02:

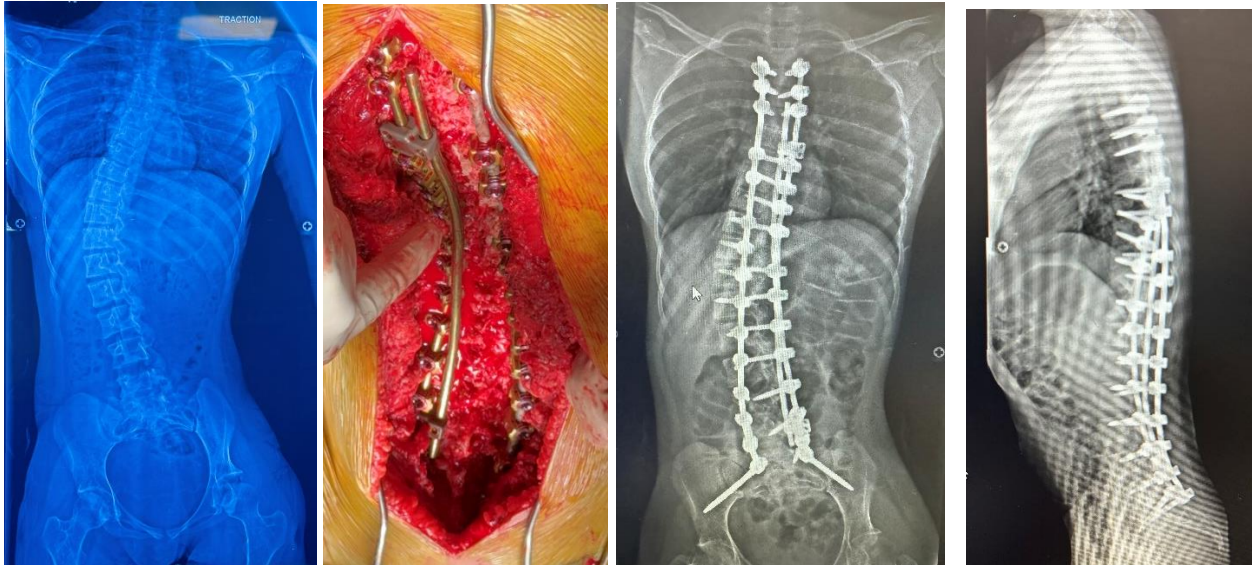
Robotic assisted TLIF



Picture: Pre-operative & Peroperative radiograph.

Case 03:

A case of Thoracolumbar Neuromuscular Scoliosis in a 20 years female.



Picture: Pre-operative , Per-operrative & post-operative radiograpp , photo.



Pictures taken with mentors & colleagues in operation theaters , Ganga Hospital & Ganga Guest House.

Ganga Hospital Spine Fellowship program

Training Period- 16/09/2024- 05/10/2024

NAME – DR. Jhuton Chandra Banik

Under Prof. S. Rajasekaran

S L N o	Date	Name Age/ Sex	Diagnosis	Surgery	Surgeon	Remarks
01	16 th September	MRS. Z, 61/F	L4/5 LISTHESIS WITH B/L RADICULOPAT HY	PLIF L 4-5	PROF. SR SIR/ DR. VIJOY	O
02		MRS. S, 48/F	L4/5 DISC EXTRUSION WITH LEFT RADICULOPAT HY	ENDOSCOPIC DISCECTOMY	PROF. SR SIR	O
03		MRS. C, 75/F	TANDEM STENOSIS C4-5,5-6 DOC WITH CSM NURICK-6	CERVICAL POSTERIOR INSTRUMENTED LAMINECTOMY	PROF. SR SIR/ DR. VIJOY	O
04		MR. S, 21/M	L5-S1 SPONDYLOPTO SIS	L4-S1 DELTA FIXATION	DR.RM K SIR	O
05	17 th September	MR. S, 46/M	C5-6, C6-7 DOC WITH CSM NURICK-4	C6 CORPECTOMY AND ANTERIOR CERVICAL PLATING	DR.RM K SIR	O
06		MRS. L, 59/F	L3-4 GRADE-2 LYTIC LISTHESIS WITH B/L RADICULOPAT HY	L3-4 DECOMPRESSION AND FUSION	DR. VIJOYS IR	O
07		MR. S, 21/M	L1 CENTRAL AND PERIFORAMIN AL IDEM TUMOUR WITH LEFT RADICULOPAT HY	LAMINECTOMY AND MICRONEUROSURGIC AL REMOVAL	PROF. SR SIR/ DR. VIJOY	O

08		MR. R, 64/M	C4-7 TRAUMATIC CORD CONTUSION WITH ASIA-A NEUROLOGY	POSTERIOR INSTRUMENTED LAMINECTOMY	PROF. SR SIR/ DR. VIJOY	O
09	18 th September	MISS. P, 20/F	POST TRAUMATIC THORACOLUM BAR NEUROMUSCU LAR SCOLIOSIS WITH SITTING IMBALANCE AND LEFT COSTOILIAC IMPINGEMENT	T2-ILIUM POSTERIOR INSTRUMENTED DEFORMITY CORRECTION + FUSION	PROF. SR SIR	O
10		MRS.K, 46/F	DYSTOPIC OS ODONTOIDEU M WITH C1-2 INSTABILITY WITH NURICK- 2 MYELOPATHY	POSTERIOR DECOMPRESSION AND C1-2 FUSION	PROF. SR SIR/ DR. VIJOY	O
11		MR. L,52/M	C3-4 IDEM TUMOUR WITH NURICK-2 MYELOPATHY	POSTERIOR INSTRUMENTED LAMINECTOMY AND TUMOUR EXCISION UNDER MICROSCOPE AND SEND FOR BIOPSY	PROF. SR SIR	O
		MR. M, 62/M	C3-6 MIXED OPLL WITH C4- 5, C5-6 DOC CANAL STENOSIS WITH MYELOMALAC IA AND T10- 11OLFM	STAGE 1 SURGERY ACDF AT C5-6M	PROF. SR SIR/ DR. VIJOY	O
12	19 th September	MR. S, 57/M	L2-3, L3-4, L4-5 STENOSIS WITH CAUDA EQUINA SYNDROME	POSTERIOR DECOMPRESSION ABOVE THREE LEVELS AND DISCECTOMY AT L4-5 UNDER MICROSCOPE	DR.RM K SIR	O
13		MRS. M, 43/F	C6-7 LEFT PARACENTRAL DISC	ACDF AT C6-7	DR.RM K SIR	A

			PROLAPSE WITH LEFT RADICULOPATHY WITH NEUROGENIC DEFICIT			
14		MR. L, 59/M	L4-5 GRADE-1 LISTHESSIS WITH LEFT RADICULOPATHY	MIS TLIF AT L4-5	DR. VIJOY SIR	O
15		MRS. L, 64/F	L4-5 DISCOGENIC STENOSIS WITH LATERAL TRANSLATION AND B/L RADICULOPATHY	PLIF AT L4-5	DR. RM K SIR	O
16	20 th September	MR. M. 43/M	L4-5 CENTRAL DISC PROLAPSE WITH STENOSIS	L4-5 MICRODISCECTOMY	DR. APS	O
17		MR. B, 52/M	T10 B3 INJURY ASIA-D	POSTEIOR LONG SEGMENT STABILIZATION AND DECOMPRESSION	DR. APS	O
18		MR. M, 68/M	TYPE 2 ODONTOID FRACTURE LANDELLS TYPE 2 JEFFERSONS FRACTURE WITH NORMAL NEUROLOGY	C1-C2 FUSION	DR. APS	O
19		MRS. A, 48/F	L4-5, L5-S1 DISC PROLAPSE WITH LEFT RADICULOPATHY	ENDOSCOPIC DISCECTOMY	DR. APS	O
20	21 th September	MASTE R D, 17/M	AIS ICN	T4-LL4 POSTERIOR INSTRUMENTED DEFORMITY CORRECTION AND FUSION	DR. APS	O

21		MR. A, 21/M	RIGHT L2 POSTERIOR ELEMENT OSTEOID OSTEOMA WITH NORMAL NEUROLOGY	CT GUIDED RADIOFREQUENCY ABLATION	DR. APS	O
22		MR. D, 18/M	LEFT SUPERIOR ARTICULAR PROCESS OSTEOID OSTEOMA WITH INTACT NEUROLOGY	CT GUIDED RADIOFREQUENCY ABLATION	DR. APS	O
23		MRS. S, 54/F	L4-5 GRADE 1 LISTHESIS WITH B/L RADICULOPAT HY	PLIF AT L4-5	DR. APS	O
24	23th September	MRS.C 75/F	TANDEM STENOSIS POST OPERATIVE STATUS CERVICAL LAMINECTOM Y L4-5 STENOSIS	DECOMPRESSION BY LAMINECTOMY L4-5	DR. RMK	O
25		MRS. B 74/F	L3-4 ASD WITH B/L RADICULOPAT HY WITH POSTOPERATIV E STATUS OF PLIF IN 2016	L3-4 DECOMPRESSION AND EXTENSION OF INSTRUMENTATION AND FUSION AT L3-4	DR. RMK	O
26		MR. M, 41/M	T8 A4 WITH NORMAL NEUROLOGY	POSTERIOR INSTRUMENTED STABILIZATION LONG SEGMENT	DR. RMK	O
27		MR. S, 20/M	ABSCCESS L3 VERTEBRAE	ASPIRATION AND SEND FOR BIOPSYS	DR. RMK	O
28		MR. M, 57/M	C4-5, C5-6 DOC WITH CERVICAL COMPRESSIVE MYELOPATHY	ACDF AT C4-5, C5-6	DR. RMK	O

29		MR. V, 42/M	L1 AO B1 INJURY WITH NORMAL NEUROLOGY	POSTERIOR INSTRUMENTED STABILIZATION SHORT SEGMENT	DR. RMK	O
30		MRS. M, 49/F	SPONDYLODIS CITIS T 9-10 WITH EPIDURAL COLLECTION AT T9-11	DECOMPRESSION, INSTRUMENTED STABILIZATION AND BIOPY	DR. RMK	O
31		MR. A, 50/M	L4-5 CANAL STENOSIS WITH B/L RADICULOPAT HY	ROBOTIC MIS TLIF	DR. RMK	O
32	24 th September	MRS. S, 54/F	L4-5 GRADE 2 LYTIC LISTHESIS WITH B/L RADICULOPAT HY	PLIF AT L4-5	DR. RMK SIR	O
33		MR. J, 45/M	L4-5 DISC EXTRUSION WITH SUPERIOR MIGRATION WITJ LEFT RADICULOPAT HY	L4-5 MICRODISCECTOMY	DR. RMK	O
34		MR. R, 56/M	D11-D12 AO B2, D12 AO A4 WITH CONUS MEDULARIS SYNDROME	POSTERIOR INSTRUMENTED STABILIZATION	DR. RMK	O
35		MR. D, 51/M	L4-5 GRADE 1 LYTIC LISTHESIS WITH LEFT RADICULOPAT HY	PLIF AT L4-5	DR. RMK	O
36		MRS. S, 62/F	L4-5 GRADE 1 DEGENERATIV E LISTHESIS WITH L3-4 STENOSIS WITH B/L RADICULOPAT HY	PLIF AT L3-4, L4-5	DR. RMK	O

37		MR. S, 60/M	TANDEM STENOSIS DEGENERATIVE LUMBAR CANAL STENOSIS WITH T12-S1 CANAL STENOSIS WITH LEFT LOWER LIMB NEURODEFICIT C4-5, C5-6 DOC	T12- S1 POSTERIOR INSTRUMENTED DECOMPRESION	DR. RMK	O
38	25 th September	MR. C, 83/M	C3-4 CERVICAL SPONDYLOTIC MYELOPATHY NURICK-3	DECOMPRESION BY LAMINECTOMY AND STABILIZATION BY UNILATERAL PEDICLE SCREWS FROM C3-C6 VERTEBRAE	PROF. SR SIR	O
39		MRS. S, 58/F	FOREIGN BODY (FISH BONE) AT C3- C4 LEVEL	REMOVAL OF FOREIGN BODY UNDER NAVIGATION	PROF. SR SIR	O
40		MRS. T, 53/F	L4-5 GRADE 1 DEGENERATIVE LISTHESIS WITH SCHIZA- C STENOSIS	PLIF AT L4-S1	PROF. SR SIR	O
41		MRS. A, 23/M	L5-S1 DISC PROLAPSE WITH BILATERAL LOWER LIMB RADICULOPAT HY	L5-S1 ENDOSCOPIC DISCECTOMY	DR.APS SIR	O
42		MRS. M, 52/F	L2-3, L3-4, L4-5 CALCIFIED DISC PROLAPSE WITH L4-5 SCHIZA -B STENOSIS WITH RT SCIATICA	PLIF L3-5	PROF. SR SIR	O

43		MR. A, 63/M	L4-5 CRANIALLY MIGRATED DISC PROLAPSE WITH ANTEROLISTH ESIS WITH RT SCIATICA	PLIF L4-5	PROF. SR SIR	O
44		MR. A, 39/M	C4-5, C5-6 DISC PROLAPSE WITH NURICK - 3 COMPRESSIVE MYELOPATHY	ACDF AT C4-5, C5-6	DR.APS SIR	O
	26 th September	MR. S, 29/M	L1 AO A4 WITH NORMAL NEUROLOGY	POSTERIOR INSTRUMENTED STABILIZATION(MIS)	DR. RMK SIR	O
45		MRS. S, 31/F	L4-5 DISC PROLAPSE WITH RIGHT LOWER LIMB RADICULOPAT HY	L4-5 MICRO DISCECTOMY	DR. RMK SIR	O
46		MASTE R. M, 7/M	CONGENITAL MUSCULAR TORTICOLIS	RELEASE OF CLAVICULAR HEAD OF STERNOCLEOIDOMAS TOID	DR. RMK SIR	O
47		MR. K, 67/M	C3-6 OPLL WITH NURICK - 4 MYELOPATHY T6-T12 OLF L4- 5 SCHIZA-B STENOSIS	POSTERIOR CERVICAL INSTRUMENTED LAMINECTOMY	DR. APS SIR	O
48		MRS. A, 63/F	C5-7 OLF WITH NURICK -4 MYELOPATHY	POSTERIOR CERVICAL INSTRUMENTED LAMINECTOMY	DR. APS SIR	O
49		MR. B, 71/M	L2-3 RETROLISTHES IS WITH L4-5 GRADE-1 ANTEROLISTH ESIS WITH SHCIZA -D STENOSIS WITH B/L RADICULOPAT HY	L2-5 LAMINECTOMY AND FUSION	PROF. SR SIR	O

50	27 th September	MRS. V, 55/F	L4-4 LEFT PARACENTRAL DISC PROLAPSE WITH LEFT RADICULOPATHY	EPIDURAL STEROID INJECTION WITH SNRB L5	PROF. SR SIR	OBSERVER
51		MR. V, 40/M	L5-S1 LEFT PARACENTRAL DISC PROLAPSE WITH INSTABILITY WITH RIGHT RADICULOPATHY	EPIDURAL STEROID INJECTION WITH SNRB	PROF. SR SIR	O
52		MR. R, 33/M	L5-S1 IMPLANT IN SITU WITH LEFT S1 SCREW BREAKAGE WITH LEFT RADICULOPATHY. STATUS-L5-S1 FUSION 2023	L5-S1 REVISION INSTRUMENTATION	PROF. SR SIR	O
53		MRS. K, 56/F	L4-5 SCHIZA A2 STENOSIS WITH INSTABILITY WITH LEFT LOWER LIMB RADICULOPATHY	L4-5 MICRO DISCECTOMY	PROF. SR SIR	O
54		MR. M, 39/M	L5-S1 DISC PROLAPSE WITH RIGHT LOWER LIMB RADICULOPATHY	L5-S1 ENDOSCOPIC DISCECTOMY	DR.APS SIR	O
55		MR. S, 46/M	C4-5 TRAUMATIC CORD CONTUSION WITH ASIA-C	C4-5 ACDF	PROF. SR SIR	O
56		MRS. P, 48/F	DEEP SURGICAL SITE INFECTION	REVISION INSTRUMENTATION AND FUSION	PROF. SR SIR	O

			WITH VAC INSITU			
57		MASTE R. M, 2/M	T11-12 CONGENITAL DISLOCATION WITH PARAPARESIS	APPLICATION OF PERCUTANEOUS MINI EXTERNAL FIXATOR	PROF. SR SIR	O
58	28 th September	MRS. S, 63/F	L4-4 LEFT PARACENTRAL DISC PROLAPSE AND L3-4, L4-5 SCHIZAS B CANAL STENOSIS WITH LEFT LOWER LIMB RADICULOPAT HY	L3-4, L4-5 DECOMPRESSION AND L-4 DISCECTOMY	DR.APS SIR	A
59	30 th September	MRS K, 50/F	C3-C4 ANTERIOR LISTHESIS WITH COMPRESSIVE MYELOPATHY	C3-C7 POSTERIOR INSTRUMENTED LAMINECTOMY	PROF. SR SIR/ DR. VIJOY	O
60		MR S, 59/F	L4-L5, L5-S1 GRADE 1 LISTHESIS WITH LOWER LIMB RADICULOPAT HY	PLIF L4-5, L5-S1	PROF. SR SIR/ DR. VIJOY	O
61		MRS K, 75/F	L4/5 GR I DEGENERATIV E LISTHESIS WITH RADICULOPAT HY	PLIF L4-5	PROF. SR SIR/ DR. VIJOY	O
62	1 st October	MR. A, 35/M	L3-L4 DISC PROLAPSE WITH CAUDA EQUINA SYNDROME	L3-4 DECOMPRESSION	DR. RMK SIR	O
63		MR. S, 71/M	TANDEM STENOSIS C5-C6, C6-C7 DOC WITH CSM NURICK	POSTERIOR CERVICAL LAMINECTOMY AND L5-S1 DECOMPRESSION	DR. RMK SIR	O

			IV + L5-S1 STENOSIS			
64		MR. K, 66/M	C7-T1 DISC PROLAPSE WITH LEFT RADICULOPAT HY POST STATUS ACDF C4- C5(2023) & C6- C7 (19950	ACDF C7-T1	DR. RMK SIR	O
65	2 nd October	MASTE R S, 12/F	L5-S1 HIGH GRADE LISTHESIS WITH BILATERAL LOWER LIMB RADICULOPAT HY	DECOMPRESSION BY LAMINECTOMY & L4- S1 STABILIZATION WITH INTERBODY FUSION L5-S1 WITH CAGE AND BONE GRAFT	DR.APS SIR	O
66		MS. A, 16/F	RIGHT THORACIC SCOLIOSIS T1-2 BUTTERFLY VERTEBRAE, S1 LUMBARISED	POSTERIOR INSTRUMENTED DEFORMITY CORRECTION AND FUSION	PROF. SR SIR/ DR. VIJOY	O
67		MR. R, 41/M	L4-L5 DISC PROLAPSE WITH LEFT LOWER LIMB RADICULOPAT HY	ENDOSCOPIC DISCECTOMY	DR.APS SIR	O
68	3 rd October	MRS K, 57/F	C 4/5 INSTABILITY WITH STENOSIS WITH MYELOPATHY + OLF T10-11	ACDF C4-5, DECOMPRESSION T10- T11	DR. RMK SIR	O
69		MR S, 50/M	L5-S1 HIGH GRADE LISTHESIS WITH BILATERAL LOWER LIMB RADICULOPAT HY	DECOMPRESSION BY LAMINECTOMY & L4- S1 STABILIZATION WITH INTERBODY FUSION L5-S1 WITH CAGE AND BONE GRAFT	PROF. SR SIR/ DR. VIJOY	O

70		MR S, 56/M	CERVICAL STENOSIS C3-4, C4-5, C5-6 WITH MYELOPATHY NURICK IV	C3-C6 POSTERIOR INSTRUMENTED LAMINECTOMY	DR. RMK SIR	O
71	4 th October	MRS M, 51/M	COCCYGEAL SPINDLE CELL TUMOR	WIDE EXCISION BIOPSY	PROF. SR SIR/ DR. VIJOY	O
72		MASTE R S, 12/F	EARLY ONSET LEFT THORACIC SCOLIOSIS	T2 TO L2 POSTERIOR INSTRUMENTED DEFORMITY CORRECTION	PROF. SR SIR/ DR. VIJOY	O
73		MS A, 16/F	ADOLESCENT IDIOPATHIC SCOLIOSIS	T4 TO L4 POSTERIOR INSTRUMENTED DEFORMITY CORRECTION	PROF. SR SIR/ DR. VIJOY	O
74		MR L, 61/M	C3-C6 OPLL CERVICAL MYELOPATHY NURICK III	C3-C6 POSTERIOR INSTRUMENTED LAMINECTOMY	DR.APS SIR	O
75		MR C, 63/M	L4/5 DISC PROLAPSE WITH BILATERAL RADICULOPAT HY	L4/5 MICRO DISCECTOMY	DR.APS SIR	O
76		59/F	L5-S1 GRADE 2 DEGENERATIV E LISTLESS	PLIF L5-S1	DR.APS SIR	O
77		60/F	L4-4 LEFT PARACENTRAL DISC PROLAPSE AND L3-4, L4-5 SCHIZAS B CANAL STENOSIS WITH LEFT LOWER LIMB RADICULOPAT HY	L3-4, L4-5 DECOMPRESSION AND L-4 DISCECTOMY	DR.APS SIR	O
78		40/M	T6 AO TYPE A4 WITH NORMAL NEUROLOGY	POSTERIOR INSTRUMENTATION STABILIZATION	PROF. SR SIR/ DR. VIJOY	O

79		MR C, 67/M	L4/5 DISC PROLAPSE WITH BILATERAL RADICULOPAT HY	L4/5 MICRO DISCECTOMY	DR.APS SIR	O
80	5 th October	MASTE R S, 12/F	CONGENITAL RIGHT THORACIC SCOLIOSIS	POSTERIOR INSTRUMENTED DEFORMITY CORRECTION	PROF. SR SIR/ DR. VIJOY	O
81		MR. S, 46/M	C4-5 TRAUMATIC CORD CONTUSION WITH ASIA-C	C4-5 ACDF	PROF. SR SIR	O
82		MR S, 56/M	CERVICAL STENOSIS C3-4, C4-5, C5-6 WITH MYELOPATHY NURICK IV	C3-C6 POSTERIOR INSTRUMENTED LAMINECTOMY	PROF. SR SIR/ DR. VIJOY	O
83		MR R, 45/M	L4-5 DISC PROLAPSE WITH INSTABILITY	PLIF L4-5	PROF. SR SIR	O
84		MR. M. 43/M	L4-5 CENTRAL DISC PROLAPSE	L4-5 MICRODISSECTOMY	DR. APS	O