APSS-GANGA HOSPITAL FELLOWSHIP 2018

Fellow:

Dr. Sanjoy Biswas , M.S.(Orthopaedics), Associate consultant ,Spine Surgery, Apollo Gleneagles Hospital , Kolkata, India

Host:

Dr. Professor S Rajasekaran.
M.S., DNB, F.R.C.S.[Ed],M.Ch[Liv.],F.R.C.S. [Eng],PhD
Chairman, Department of Orthopaedics and Spine Surgery
Ganga Hospital, Coimbatore, India

Attachment period: 4th June to 25th June, 2018. (3 Weeks)

Introduction:

First of all I would like to thank the Asia Pacific Spine Society (APSS) and Ganga Hospital for selecting me to go on this prestigious fellowship to Ganga Hospital, Coimbatore, India from 4th June, 2018 to 25th June, 2018. My fellowship schedule and all the previous formalities were very nicely arranged by APSS/GANGA. Special thanks to the co-ordinator Jenne, APSS, & GANGA Hospital for arranging such a hassle free fellowship. This is a great opportunity to interact and observe in a spine centre with lot of cases. Also being in the early stage of my carrier as a spine surgeon it presented to me a very good chance to know newer avenues and learn from the masters from the field of spine. Getting an opportunity to work and learn different ideas and techniques at one the most reputed institution in Asia Pacific Region was once in a lifetime opportunity for me.

Fellowship program:

The APSS arranged the airline tickets and The Ganga Hospital arranged my accommodation and airport transfers. I arrived in Coimbatore on 3rd of June and joined the activity on 4th of June, 2018. From airport I was received by Dr. Dilip Chand Raja Soundarajan and stayed at Ganga Hospital Guest house, sharing with another APSS fellow from 3rd June to 25th June which was 3 KM away from the hospital. The guest house was good, a lot of restaurants and a mini market around the guest house. On 4th July Dr. Dilip again picked us up from the guest house and rest of the days I travelled to the hospital by bus.

On 4th June Dr. Dilip took us to the operation theatre and we met Prof. S Rajasekaran, who was very humble and welcomed us and introduced the schedule to us and took us to the operation room and also offered us breakfast. During our stay, apart from two APSS fellows, other three spine fellows was there from Japan, England and Tanzania. Every day we took our breakfast and lunch from hospital canteen.

To add to the excitement I also had a chance to attend the Ganga Spine Microsurgery Course from 13th June to 16th June 2018, & GANGA Hospital Trauma Course from 22 rd June to 24 th June 2018.

The following schedule will be followed for each day of the week.

Days	Provisional Schedule
MONDAY	7.15 am – Pick up from Hotel
	7.30 am to 5.00 pm – Operation Theatre
TUESDAY	7.15 am – Pick up from Hotel
	7.15 am to 9.00 am – Clinical Meeting
	9.00 am to 2.30 pm – Outpatient Clinic
	2.30 pm to 5.00 pm - Ganga Spine Injury Rehabilitation Centre
WEDNESDAY	7.15 am – Pick up from Hotel
	7.15 am to 5.00 am – Operation Theatre
THURSDAY	7.15 am – Pick up from Hotel
	7.15 am to 5.00 pm – Operation Theatre/ Outpatient clinic
	6.00 pm – Grand Rounds
FRIDAY	7.15 am – Pick up from Hotel
	7:30 am to 5.00 pm— Operation Theatre
SATURDAY	7:00 am – Pick up from Hotel
	 7:15 am to 9.00 am - Clinical meeting (Paper presentations from the Visiting APSS Fellows)
	9.00 am to 3.00 pm – Operation Theatre/ Spine Micro surgical lab

All the pre-operative and post-operative patients were discussed. It was interesting to discuss the various cases and the pre-operative planning done. The entire faculty gave their opinions and critical reviews on each case. I got a chance to scrub in and assist the case. Professor Rajasekheran performed operations very nicely and also explained us all the tricks and tips regarding the exposure and instrumentation and we learnt navigation surgery from him, this was the first time I was exposed to this technique having previously only seen it in conference workshops. The case load in GANGA is uncountable and I also thank full to Dr. Ajoy Prasad Shetty and Dr.Rishi Mugesh Kanna, who taught us the all aspects of spine surgery. We also attended the morning meeting and case discussion and grand rounds. All modern spine equipments are available in this centre of excellence and we were very lucky to work with Prof. It was once in a lifetime experience.

Over the weekend I had a chance to visit the local tourist attraction along with some of the fellows there in Ooty and ISHA meditation centre .

On 14 th June Prof. took all of us to his residence for dinner and we got to interact with his family; it was a great experience and we were also dropped to our guest house by him .

Overall it has been a very fruitful experience that has helped learn many new things and ideas along with getting a chance to interact directly in person with some of the best in the field of spine surgery. Thanks again to APSS & GANGA Hospital for making this possible and also for such a great organized fellowship program.

Fellowship log book:

SERIAL	CASE	OOERATION	DAY
1.	L5-S1 PIVD	L5-S1 MICRO DISCECTOMY	DAY1
2.	L5-S1 III LYTIC LISTHESIS	L5-S1 TLIF-NEVIGATION SURGERY	DAY1
3.	L5-S1 PIVD	L4-L5 DISCECTOMY	DAY1
4.	T11 COMPRESSION #	T11 VERTEBROPLASTY	DAY1
5.	L5-S1 LISTHESIS	L5-LS1 TLIF	DAY1
6.	L4-S1 CANAL SRENOSIS	L4-S1 DECOMPRESION	DAY1
7.	L5-S1 PIVD	L5-S1 MICRODISCTOMY	DAY1
8.	INFETION IN OPERATED L4L-L5	L4-L5 DEBRIDEMENT AND VAC	DAY1
	PIVD	APPLICATION	
9.	SCOLIOSIS	GROWTH ROD DISTRACTION	DAY1
10.	L4-L5 PIVD	L4-L5 MICRODISCECTOMY	DAY2
11.	L5-S1 PIVD	L5-S1 DECOMPRESION	DAY2
12.	T10 COMPRESSION #	T10 VERTEBROPLASTY	DAY2
13.	L4-L5 PIVD	L4-L5 DECOMPRESION	DAY2
14.	C6-C7 PIVD	C6-C7 ACDF	DAY2
15.	D12 TRAUMATIC BURST # [ASIA-A]	D10-L2 FIXATION WITH	DAY2
		DECOMPRESION	
16.	L4-L5 GRADE II LISTHESIS	L4-L5 TLIF	DAY3
17.	L4-L5 LISTHESIS	L4-L5 FUSION	DAY3
18.	C6-C7 PIVD	C6-C7 ACDF	DAY3
19.	CONGENITAL D/L	SCOLIOSIS CORRECTION -	DAY3
	KYPHOSCOLIOSIS	NEVAGATION SURGERY	
20.	RT ILIUM CONDROSARCOMA	EXCISION OF TUMOUR-	DAY3
		NAVIGATION SURGERY	
21.	C6-T1 LYTIC LESION	C6-T1 ANTERIOR RECONSTRCTION	DAY3
		AND FUSION WITH BIOPSY	
22.	L2-L5 STENOSIS	L3-L4, L4-L5 TLIF AND L2-L5 FUSION	DAY3
23.	L2-L4 STENOSIS	L2-L4 FUSION	DAY3
24.	SCOLIOSIS	GROWTH ROD DISTRACTION	DAY3
25.	L5-S1 PIVD	L5-S1 MICROSUEGERY	DAY3
26.	L4-L5 INFECTED OPERATED OUT SIDE	L4-L5 DEBRIDEMENT	DAY3
27.	L4 LYTIC LESION	L4 TRANSPEDICULAER BIOPSY	DAY4
28.	C6-C7 PIVD	C6-C7 ACDF	DAY4
29.	L5-S1 LISTHESIS	L5-S1 TLIF	DAY4
30.	L4-S1 CANAL STENOSIS	L4-S1 FUSION	DAY4
31.	L4-L5 LISTHESIS	L4-L5 DECOMPRESION AND FUSION	DAY4
32.	T3 COMPRESION FRACTURE	T3 STABILIZATION AND	DAY4
		DECOMPRESION AND BIOPSY	
33.	L4-L5 PIVD	L4-L5 MICCRO DISCECTOMY	DAY4
34.	L4-L5 PIVD	L4-L5 MICCRO DISCECTOMY	DAY4
35.	CONGENITAL LEFT THORASIC	SCOLIOSIS CORRECTION –	DAY4
	SCOLIOSIS	NAVIGATION SURGERY	
36.	L4-L5 PIVD	L4-L5 DECOMPRESION	DAY5
37.	CONGENITAL LEFT THORASIC	SCOLIOSIS CORRECTION- T2-L3	DAY5

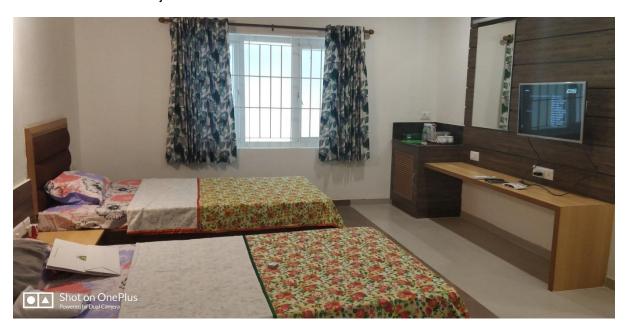
	SCOLIOSIS WITH NEURODEFICIT	NEVIGATION SURGERY	
38.	C5-C6 PIVD	C5-C6 ACDF	DAY5
39.	L4-L5 LYTIC LISTHESIS	L4-L5 FUSION	DAY5
40.	L4-L5 LISTHESIS	L4-L5 FUSION	DAY5
41.	L4-S1 STENOSIS	L4-S1 DECOMPRESION	DAY5
42.	L4-L4 PIVD	L4-L5 MICRODISCETOMY	DAY5
43.	LOW BACK PAIN	SPINAL STEROID INJECTION	DAY5
44.	T7 AND D12 COMPRESION	T6-T8 THORACIC POST .FIXATION	DAY8
	FRACTURE	AND ,D12 VERTEBROPLASTY	
45.	TYPE1 NEUROFIBROMATOSIS	SCOLIOSIS CORRECTION WITH	DAY8
	WITH C-T KYPHO-SCOLIOSIS	OSTEEOTOMY AND SUBLAMINAR	
		WIRING	
46.	L3-L5 STENOSIS	L3-L5 FUSION	DAY8
47.	L5-S1 LISTHESIS	L5-S1 FUSION	DAY8
48.	L3 LESION AND L4-L5 LISTHESIS	L3 BIOPSY AND L4-L5 FUSION	DAY8
49.	L4-L5 LYTIC LISTHESIS	L4-L5 TLIF	DAY8
50.	FACET ARTHOPATHY	LUMBER STEROID INJECTION	DAY8
51.	L5 RADICULOPATHY[LT]	LEFT L5 SNRB	DAY8
52.	L4-L5 LISTHESIS	L4-L5 FUSION ,TLIF	DAY9
53.	L2-L3 PIVD	L2-L3 DECOMPRESION	DAY9
54.	L3-L5 STENOSIS	L3-L5 DECOMPRESION	DAY9
55.	L4 LYTIC LESION	L4 TRANSPEDICULAR BIOPSY	DAY9
56.	CONGENITAL DORSAL	SCOLIOSIS CORRECTION –	DAY10
	KYPHOSCOLIOSISWITH	NEVIGATION SURGERY	
	COMPRESSIVE MYELOPATHY		20110
57.	L3-L4 STENOSIS	L3-L4 FUSION	DAY 10
58.	C3-C5 OPLL	C3-C5 CERVICAL LAMINECTOMY	DAY10
59.	L4-L5 LISTHESIS	L4-L5 TLIF	DAY 10
60.	L5-S1 PIVD	L5-S1 MICRODISCETOMY	DAY10
61. 62.	L4-L5 PIVD C6-C7 PIVD	L4-L5 MICRODISCTOMY C6-C7 ACDF	DAY 10 DAY10
63.	L3-L4 PIVD	L3-L4 MICRODISCETOMY	DAY 10
64.	L5-S1 PIVD	L5-S1 DECOMPRESION	DAY10
65.	L4-L5 SISTHESIS	L4-L5 TLIF	DAY 10
66.	CONGENITAL RT THORASIC	GROWTH ROD DISTRACTION	DAY11
00.	SCOLIOSIS	GROWTH ROD DISTRACTION	DAIL
67.	L4-L5,L5-S1 STENOSIS	L4-S1 DECOMPRESION	DAY11
68.	L5-S1 LISTHESIS	L5-S1 DECOMPRESION AND FUSION	DAY11
69.	ADOLOSCENT IDIOPATHIC	SCOLIOSIS CORRECTION-	DAY11
05.	ABOLOSCENT IBIOTATING	NEVIGATION SURGERY	DATT
70.	L4-L5 CAUDA EQUINA SYMPTOM	CAUDA EQUINA DECOMPRESION	DAY11
71.	LUMBO SACRAL DERMAL SINUS	SINUS EXCISION	DAY11
72.	C3-C7 OPLL	C3-C7 LAMINECTOMY AND POST	DAY12
		STABILIZATION	
73.	C3-C4,C4-C5 PIVD		DAY12
	·	C3-4,C4-5 ACDF	
74.	L4-L5 PIVD	L4-L5 MICRODISCECTOMY	DAY12
75.	L5-S1 LISTHESIS	L5-S1 TLIF	DAY12
76.	IDIOPATHIC THORASCIC SCOLIOIS	SCOLIOSIS CORRECTION-	DAY12
		NAVIGATION SURGERY	

77.	L2-S1 STENOSIS	L2- S1 DECOMPRESION AND FUSION	DAY12
78.	L1 BURST FRACTURE WITH ASIA -A	L1 BURST FRATURE STABILIZATION	DAY12
79.	L5 LYTIC LESION	L5 BIOPSY	DAY12
80.	L4-L5 PIVD	L4-L5 MICRO DISCECTOMY	DAY13
81.	L4-L5 LISTHESIS	L4-L5 TLIF	DAY13
82.	L3-L5 STENOSIS	L3-L5 DECOMPRESION	DAY13
83.	L5-S1 LISTHESIS	L5-S1 TLIF	DAY13
84.	L3-L5 STENOSIS	L3-L5 DECOMPRESION AND L4-L5	DAY13
	15 25 51 2115 315	TLIF	271120
85.	L4-L5 LISTHESIS	L4-L5 TLIF	DAY13
86.	L4-L5 PIVD	L4-L5 DECOMPRESION	DAY13
87.	L5-S1 LISTHESIS	L5-S1 TLIF	DAY13
88.	L4-L5 PIVD	L4-L5 MICRODISCECTOMY	DAY13
89.	L4-S1 STENOSIS	L4-S1 MICRODISECTOMY	DAY13
90.	L4-L5 STENOSIS	L4-L5 DECOMPRESION AND FUSION	DAY15
91.	ADOLASCENT IDOPATHIC	T3-L3 LEVEL SCOLIOSIS	DAY15
	SCOLIOSIS	CORRECTION-NEVIGATION	
		SURGERY	
92.	C3-C6 OPLL	C3-C6 LAMINECTOMY	DAY15
93.	L5-S1 LISTHESIS	L5-S1 DECOMPRESION AND	DAY15
		FIXATION	
94.	L2-L3 SECONDARY ADVANCE LCS	L2-L3 POST FIXATION	DAY15
95.	L4-S1 STENOSIS	L4-S1 DECOMPRESION	DAY16
96.	CONGENITAL SCOLIOSIS	HALO RING APPLICATION	DAY16
97.	L4-L5 STENOSIS	L4-L5 FUSION	DAY16
98.	L4-L5 PIVD	L4-L5 DECOMPRESION	DAY16
99.	L5 RADICULOPATHHY	L5 SNRB	DAY16
100	L4-L5 PIVD	MICRODISCECTOMY	DAY17
101	L4-L5 DEGENERATIVE LISTHESIS	L4-L5 TLIF	DAY17
102	L4-L5,L5-S1 LISTHESIS	L4-L5,L5-S1 TLIF	DAY17
103	ODONTOIND # WITH IMPLANT	IMPLANT REMOVAL	DAY17
104	L3-L5 STENOSIS WITH INSTABILITY		DAY17
105	SACRAL CHONDROMA WITH	ANTERIOR + POST	DAY17
	NEURO DEFICIT	EXCISION,BIOPSY,SPINO-PELVIC	
		FIXATION-NEVIGATION SURGERY	
106	T12 COMPRESSION #	T12 VERTEBROPLASTY	DAY17
107	L2-S1 CANAL STENOSIS	L2-S1 FIXATION ANS L4-L5,L5-S1	DAY17
100	1.4.15.00/0	TLIF	D 4 1/4 =
108	L4-L5 PIVD	MICRODISCECTOMY	DAY17
109	C3-C6 OPLL	C3-C6 LATERAL MASS FIXATIN AND	DAY17
110		LAMINECTOMY	DAV47
110	L4-L5 PIVD	L4-L5 MICRODISCECTOMY	DAY17
111	DEGENERATIVE LUMBER	L3-S1 DECOMPRESION AND FUSION	DAY18
112	SCOLIOSIS L4-S1 STENOSIS	L4-S1 DECOMPRESION	DAY18
113	L5 COLLAPSE WITH L5-S1 DISCITIS		DAY18 DAY18
113	L1 FEACTURE WITH	BIOPSY,FUSION,DECOMPRESION POSTERIOR STABILIZATION AND	
114	PSEUDOARTHOSIS	DECOMPRESION	DAY18
115	L2 IDEM	TUMOUR EXCISION	DAY18
110	LE IDLIVI	I GIVIOUN ENCISION	DA110

	COURSE	SURGERY	
120	GANGA OPERATIVE TRAUMA	MULTIPLE NUMBER TRAUMA LIVE	DAY19,20,21
	HYPERLORDOSIS	DEFORMITY CORRECTION	
119	NEUROMUSCULAR LUMBER	T4- ILIUM FIXATION WITH	DAY18
	MYELOPATHY	POSTERIOR FIXATION	_
118	T1 LYTIC LESION WITH	TUMOUR EXCISION AND	DAY18
		DECOMPRESION	
117	T9-T10 SPONDYLODISCITIS	POSTERIOR FIXATION AND	DAY18
		-NEVIGATION SURGERY	
116	AIS RT THORASIC SCOLIOSIS	T4-L4 DEFORMITY CORRECTION	DAY18



Pic-1: With Prof. S. Rajasekaran



Pic 2: GANGA Hospital guest house

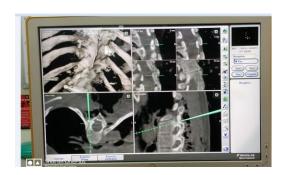


Pic 3: Dinner at Prof. residence



Pic 4: Spine Navigation surgery







Pic 5: With other APSS fellow and Prof .S Rajasekaran & GANGA HOSPITAL

Summery

This 3-week clinical fellowship was well organized and had all the necessary elements, and it has been a wonderful experience. I thoroughly value the opportunity provided by APSS and GANGA HOSPITAL in this endeavour.