APSS MEDTRONIC FELLOWSHIP 2019

Duration:

January 16, 2020 – May 27, 2020

Fellow:

Rommel Lim Tan, M.D., Diplomate Philippine Board of Orthopaedics, Fellow Philippine Orthopaedic Association, Fellow Philippine College of Surgeons.

Graduated Spine Fellowship Training from University Malaya Medical Centre Spine Consultant – Davao Spine and Scoliosis Center, Southern Philippines Integrated Neurosurgery Training Program, Davao Doctors Hospital, Davao City, Philippines

Host Spine Center of Excellence:

Ganga Medical Centre and Hospitals, Pvt. Ltd.

Host Spine Surgeon/ Mentor:

Prof. Dr. S. Rajasekaran, M.S., DNB, F.R.C.S.(Ed), M.Ch. (Liv), F.A.C.S, F.R.C.S.(Eng), Ph.D. Chairman of the Department of Orthopaedics, Trauma & Spine Surgery,

Ganga Hospital, Coimbatore.

Chair, AO Spine International Board

President Elect, Asia Pacific Spine Society

Previous:

- Chair of AOSpine International Research Commission
- President of SICOT
- President- CSRS-AP
- President of the Indian Orthopaedic Association
- President of the Association of Spine Surgeons of India
- President of International Society for the Study of Lumbar Spine, Canada
- President of the World Orthopaedic Concern
- Chief National Delegate of Asia Pacific Orthopaedic Association.

Academic Distinctions:

- Hunterian Professor for the year 2011-12 by the Royal College of Surgeons of England;
- 'Distinguished Visitor' to Harvard Medical International, Boston, USA
- Grand Rounds Lecturer of Dartmouth University, USA and Mayo Hospital, USA
- Adjunct Professor of Orthopaedic Surgery, Tamil Nadu Dr MGR Medical University
- Deputy Editor of the Journal of Bone & Joint Surgery; Journal of SPINE, USA; Global Spine Journal, USA
- Editorial board of European Spine Journal

Introduction

Asia Pacific Spine Society is a premiere organization made up of spine surgeons practicing in the Asia Pacific region. APSS in collaboration with Medtronics awards a fellowship to a chosen APSS member. This program develops the spine fellow by providing an excellent clinical and surgical exposure. The successful candidate will have the honor to spend 3 months in a spine center of excellence in the region. He will have the rare opportunity to train under the internationally renowned spine surgeons and learn from them. I am grateful to be chosen as an APSS-Medtronic Spine fellow and had the great opportunity to train at Ganga Hospital in Coimbatore, India under the tutelage of Professor Dr. S. Rajasekaran.

Ganga Hospital is a 560 beds Orthopaedics, Spine and Plastic surgery Center with 20 operating theatres, a regional blood bank, a bone and tissue bank and a modern, state of the art equipments and facilities. The center also has its own Spine & Rehabilitation Centre, and a research centre. The centre has a robust training programme for different orthopaedic subspecialties (Spine, Arthroplasty, Arthroscopy & Sports, Pediatrics and Trauma), Plastic surgery division (Hand, microsurgery, reconstructive and burns) and Anaesthesia. Each section is composed of well-published and multi-awarded expert consultants, registrars, and fellows. Their consultants are also leaders in their respective field and have written chapters and/or became editors of several books and publications. The centre has won several best hospital awards and made tremendous progress based on the Ganga Hospital four pillars (Clinical work, academics, researches and social work), making it as one of the premiere orthopaedic centre of the world. As of this writing, it continuous to go into transition in terms of growth and expansion.

My fellowship was originally scheduled from 02 January 2020 to 31 March 2020. It was arranged and coordinated by the Asia Pacific Spine Society. Unfortunately, there were some issues with the accredited local agency. Hence, it was moved to 16 January – 05 April 2020. APSS, Professor Rajasekaran and the staffs of Ganga Hospital also assisted me by providing the necessary paper works for the visa processing and arranging a comfortable place for me to stay while undergoing the fellowship. The APSS thru the secretariat (Ms. Jenny Wong and Mr. Maxime Lemaire) was constantly communicating with me enquiring if there are any issues with regards to the visa application. They also provided me with the plane tickets with return flights from Davao City, Philippines to Coimbatore, India. For these, I express my heartfelt gratitude to the APSS and Ganga Hospital for making my journey a pleasant one and for giving me this once in a lifetime opportunity to learn from the masters of spine surgery up close and personal.

Fellowship Experience

My journey started on January 15, 2020. I left Davao City on board Silk Air bound for Cebu City then Singapore. I then took indigo airlines from Singapore to Coimbatore. There was no direct flight from the Philippines to India. The whole time during my travel, I was constantly in touch and was assisted by Mr. Lemaire of the APSS secretariat and Mr. Mohan of the Ganga Hospital. When I reached Coimbatore, I was welcomed by one of the staff from the hospital and

was taken to Ananya's nest hotel. I never encountered any problems during my travel. The flight was also smooth and hassle-free. The next day, as Professor Rajasekaran was on leave, I reported to Dr. Ajoy Shetty and awaited instruction. The first question was... "What did you come here to learn?" which to be honest, I was not prepared to answer. The thoughts that came to my mind at that time, and to which I relayed to the good doctor (like a student answering a teacher's question) are... "I came to learn anterior approaches of the spine specially on the cervical, techniques in doing kyphosis/ kyphoscoliosis and spine endoscopy." I was then sent to the outpatient clinic to observe and get myself familiarized with. There, I got to meet one of the spine registrars, Dr. Vibhu and other spine fellows doing two years subspecialty training. The outpatient clinic was very busy, yet everyone was so kind to orient me as to how things work in the clinics. Moreover, in between patients, there were some discussions about the cases seen. When I went into the theatre, I was able to meet other fellows from AO Spine doing short term fellowships. On my second day, I met Dr. Rishi and was able to attend his comprehensive lecture on spine metastasis during the radiology conference.

I got to see Professor Rajasekaran on my 5th day in the hospital. It was a very busy day with a long OT list. We observed his procedures on degenerative scoliosis under navigation and the neuromuscular scoliosis with T1 to L3 fusion. Even with the busy OT list, he still finds time to discuss the cases. In all honesty, the moment with the good professor left me silently in awe. I could not believe how lucky I am to be with THE Professor Rajasekaran, a well-known author of many publications and one of the well-respected authority in spine surgery. The following day, we got to see not just spine cases but (occasionally), some trauma and some arthroplasty cases, as well in the outpatient clinic. In between patients, he never fails to discuss some of the cases further. I rotated with him for 2 weeks on January. On February, I worked with Dr Rishi Kanna and in March, with Dr Ajoy Shetty. Everyday is a day to look forward to with new things to be learned. As what my previous training has instilled in me, I made it a habit to keenly observe the procedures with particular attention up to tiniest details, listen sharply to the discussions during classes and take down notes so I won't miss the important things that may be of use when I go back home. I was also occasionally given a chance to assist in some procedures specially when there are anterior cervical cases. Sometimes, with a lot of interesting cases going on simultaneously, it is difficult to choose which case to go into.

During my rotation with Dr. Rishi, I get to learn Odontoid screw fixation, C1C2 screw fixation, transforaminal and interlaminar endoscopic discectomy. I also get to observe his technique on en bloc flavectomy. I get to learn from Dr. Ajoy his technique on TLIF with Wiltse approach, MIS TLIF and his techniques in growing rods, AIS and cervical corpectomy. With Professor Rajasekaran, I learned ACDF, microdiscectomy, T2 corpectomy for aggressive vertebral hemangioma and techniques in severe kyphosis correction. I also get to see how intradural tumours, foramen magnum decompression, cervical pedicle screws under navigation are done.

Tuesday morning are scheduled for class or journal club, Thursday evenings for ground rounds and Saturday mornings for general clinics. During these times, I write down on my notes

all the things which are somehow new to me and try to do some additional readings in the evening to be able to catch up.

I am also thankful to Prof S. Rajasekaran and Dr Dilip for making the necessary arrangements with the organizing committee in APSS BSS operative course. Because of them, I was able to attend the course in Mumbai. After the operative course, we were also able to participate in the Ganga Spine Microsurgery course. This course was broken down with morning sessions in the theatre with microdiscectomy by Prof Rajasekaran and afternoon wetlab sessions with Dr. Vijay.

During the lockdown due to the worldwide COVID-19 pandemic, all the hotels closed. Ananya's nest, the hotel where I stayed was very considerate and continued to accommodate me until I could find a place to transfer. I appreciate the kindness of Prof Rajasekaran for providing me with a very comfortable accommodation in the Ganga Guesthouse during the difficult times. I also thank Dr. Ajoy, Dr. Balavenkat and Dr. Dilip for facilitating my transfer. The place is very nice and conducive for studying. The room is huge and very clean. There is also a long study table on the side, which was perfect for reading and watching webinars. Healthy meals are provided, breakfast, lunch and dinner. Every now and then, I still go to the hospital on board the Ganga Hospital bus which goes to the hospital every morning and return to the guesthouse in the evening. On the early phase of the lockdown, the clinics were closed and there were no elective surgery. But there were few emergency trauma cases and some cases with cauda equina that required emergency intervention. So I still get to observe/ assist in some procedures. The situation got interesting that I got 2 things to look forward to. In the morning, I looked forward to seeing some procedures, and in the evening, I looked forward to watching webinars in the comfort of the guesthouse. The lockdown actually had a positive effect on me since it gave me a chance to closely interact with the professor and the good doctors, and attend webinars which provided good avenues for learning. It kept me busy even with the pandemic going on. At the back of my mind, if this is a lockdown, I wouldn't mind it at all. Eventually, the number of spine cases increased and classes in the hospital resumed following social distancing protocol.

All this time, the Philippine embassy was also in touch with me, monitoring my situation and assisting in the process for visa extensions (Thanks to Ambassador Ramon Bagatsing Jr and his team). My teachers in the University of Malaya Medical Centre (Professor Kwan, Prof Chris, Prof Chiu, Dr. Chung) all kept in touch. So did my family and friends in the Philippines. The APSS secretariat also kept in touch (Thanks to Ms Jenny Wong and Mr Maxime Lemaire) and I thank them for the assistance they extended. With all these things happening, it made me realize that APSS is one big family and further strengthened the essence of the word "fellowship", which involves expanding one's horizon, seeing new ways, learning new things, experiencing new foreign culture, creating lasting friendships, making new connections and more importantly, having fun while doing all these.

However, all good things must come to an end. The government of India arranged repatriation flights for their returning citizens. We were able to secure a seat for the rescue flights

from Coimbatore to Delhi, then Delhi to Manila. The flights went smoothly and comfortably as planned. I was quarantined in Manila before returning to Davao. Then another quarantine when I reached Davao.

Overall, the fellowship has a huge impact in my clinical practice and is a very rewarding learning experience. I thank the APSS and Medtronics for the opportunity and Professor Dr. S. Rajasekaran for accepting me as an APSS fellow in his prestigious institution. To the people who are also part of this journey, the Ganga Hospital Team (Dr. Ajoy Shetty, Dr. Rishi Kanna, Dr. Dilip, Dr. Vijay, Dr. Vibhu, Dr. Balavenkat and Mr. Mohan), my teachers (Prof. Kwan MK, Prof. Chris CYW, Prof. Chiu CK, Dr. Chung WH, Dr. Ronald Tangente), APSS secretariat (Ms Jenny Wong and Mr Maxime Lemaire), my family and friends, my heartfelt gratitude.



Photo with Ganga and AO fellows in between cases



Visit at Ganga Spine Rehab Unit





Photo with Professor S. Rajasekaran





Feels great to meet my Philippine colleagues and my esteemed mentors at APSS + BSS Mumbai Operative Course



Ganga Spine Microsurgery course



Dr Ajoy P. Shetty gave me a book on Spinal Tuberculosis



Photo with the entire Ganga Spine Team - (left to right) Dr Sridhar, Dr Dilip, Dr Vibhu, Dr Amit, Dr Vijay, Dr Swapnil, Me, Prof S. Rajasekaran, Dr Rishi Kanna, Dr Ajoy Shetty, Dr Rohit, Dr Karthik, Dr Chandran

SCHEDULE

January 16-31, 2020 and April 2020/ Prof. S. Rajasekaran

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
7:00-8:00 am	Operation	Spine	Operation	Outpatient	Operation	General
	Theatre	Seminar/	Theatre	Consult	Theatre	Orthopaedics
		Journal				Class/
		Club				Conference
8:00 am -						
Onwards		Outpatient				Outpatient
5:00 pm		Consult		Grand		Consult
				Rounds		

February 1-29,2020/ Dr. Rishi M. Kanna

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
7:00-8:00 am	Operation	Spine	Operation	Operation	Outpatient	General
	Theatre	Seminar/	Theatre	Theatre	Consult	Orthopaedics
		Journal				Class/
		Club				Conference
8:00 am -						
Onwards		Operation				Outpatient
5:00 pm		Theatre		Grand		Consult
				Rounds		

March 1-31, 2020/ Dr. Ajoy P. Shetty

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
7:00-8:00 am	Outpatient	Spine	Operation	Operation	Operation	General
	Consult	Seminar/	Theatre	Theatre	Theatre	Orthopaedics
		Journal				Class/
		Club				Conference
8:00 am -						
Onwards		Outpatient				Operation
5:00 pm		Consult		Grand		Theatre
				Rounds		

April 1 - 30, 2020/ Prof. Dr. S. Rajasekaran

The schedule is irregular due to the national lockdown (COVID-19). Most of my time was spent on daily webinars (Project Sambhav by Medtronics) and observing/ assisting surgeries. Please refer to logbook for the surgeries observed and assisted.

May 1 - 27, 2020/ Prof. Dr. S. Rajasekaran

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
7:00-8:00 am	Operation	Spine	Operation	Outpatient	Operation	General
	Theatre	Seminar/	Theatre	Consult	Theatre	Orthopaedics
		Journal				Class/
		Club				Conference
8:00 am -						
Onwards		Outpatient				Outpatient
4:00 pm		Consult	Operative			Consult
5:00 pm			discussion	Grand		
				Rounds		

Topics Discussed during lockdown

May 5, 2020 - Hirayama Disease

- Clinical features of syringomyelia
- Thoracic outlet syndrome
- Ulnar paradox
- Post operative urinary retention

May 9, 2020 - General Clinics

- Brown Tumour
- Vit. B12 deficiency and its reaction when patient is given Nitrous Oxide
- Tabes dorsalis

May 13, 2020 - Natural history of lumbar degen

- When to do MRI in AIS

May 16, 2020 - Trauma audit

- External Fixation for multitrauma patient
- Burst wound

May 19, 2020 - High Intensity Zone in Modic changes

- Predictive signs of discogenic back pain

May 23, 2020 - discussion on intertroch femur fractures

February 13 – 15, 2020 – APSS + BSS Mumbai Operative Spine Course

February 19 – 22, 2020 – Ganga Hospital Spine Microsurgery Course

APSS MEDTRONIC GANGA FELLOWSHIP LOGBOOK (January 16 - May 27, 2020)

No	Date	Ag e	Sex	Diagnosis	Procedure	Surgeon	Role
1	18/01/202	72	M	C6C7 Type C Injury with Traumatic Disc Prolapse ASIA A Neurology	C6C7 ACDF	Dr. Ajoy P Shetty	Observe r
2	18/01/202 0	47	М	C6C7 AO Type C Injury with ASIA Neurology	ACDF C6C7 with Lateral Mass Fusion C5-T1	Dr. Ajoy P Shetty	Observe r
3	20/01/202	78	F	Degenerative Lumbar Scoliosis, L4L5 Grade 2 Listhesis, L3-S1 Spinal Canal Stenosis	T12-S1 Decompression and T12 – S2 Iliac Fusion under AIRO Navigation	Prof. S. Rajasekaran	Observe r
4	20/01/202	27	М	Right Thoracic Kyphoscoliosis (Neuromuscular)	T1-L3 Posterior Instrumented Deformity Correction and Fusion under AIRO Navigation	Prof. S. Rajasekaran	Observe r
5	20/01/202 0	44	F	L4L5 Discogenic Stenosis with Radiculopathy	L4L5 Microdecompression	Dr. Rishi M Kanna	Observe r
6	21/01/202 0	42	М	Type 2 Odontoid Fracture C5 A1, C6 B2 Injury with Normal Neurology	Odontoid Screw Fixation and C5C6 ACDF	Dr. Rishi M Kanna	Observe r
7	21/01/202 0	32	М	C6C7 Type C Injury ASIA B Neurology	C6C7 ACDF	Dr. Rishi M Kanna	Observe r
8	22/01/202	54	F	Basilar Invagination with Atlantooccipital Assimilation with Neurodeficit	Foramen Magnum Decompression, C2-C4 Laminectomy, Occipitocervical Fusion under AIRO Navigation	Prof. S. Rajasekaran	Observe r
9	22/01/202	27	M	Right Thoracic Kyphoscoliosis	Stage 2 Osteotomy, Deformity Correction and Fusion	Prof. S. Rajasekaran	Observe r
10	22/01/202 0	48	F	L4L5 Pseudomeningocoele with Neurodeficit S/P Microdiscectomy	Dural Repair	Dr. Ajoy P Shetty	Observe r
11	22/01/202 0	34	F	L3L4 Disc Extrusion with Radiculopathy	Revision Microdiscectomy L3L4	Dr. Rishi M Kanna	Observe r
12	22/01/202 0	35	M	L5S1 Disc Extrusion with Radiculopathy	L5S1 Endoscopic Discectomy	Dr. Rishi M Kanna	Observe r
13	24/01/202 0	51	М	L5S1 Degenerative Spondylolisthesis	L5S1 TLIF	Dr. Ajoy P Shetty	Observe r
14	24/01/202 0	60	F	C2C3 IDEM with Myelopathy	C2C3 Laminectomy with Tumour Excision	Prof. S. Rajasekaran	Observe r
15	27/01/202 0	40	F	T12 AO B2, L1 AO A3 Injury	Posterior Instrumented Stabilisation	Dr. Rishi M Kanna	Observe
16	27/01/202 0	60	M	L5S1 Disc Prolapse with Radiculopathy, Left	Microdiscectomy	Dr. Rishi M Kanna	Observe r
17	27/01/202 0	12	F	Congenital Thoracic Scoliosis S/P Application of Growing	Growth Rod Distraction	Dr. Ajoy P Shetty	Observe r

1				Rod			
18	29/01/202	14	F	AIS Lenke 6	PISF T3-L3 under AIRO	Prof. S.	Observe
	0		_		Navigation	Rajasekaran	r
19	29/01/202	42	M	C5C6 Disc Prolapse with	C5C6 ACDF	Prof. S.	Assisted
	0			Left Radiculopathy		Rajasekaran	
20	29/01/202	52	M	L2-S1 Spinal Canal	L2-L4 Decompression and	Dr. Rishi M	Observe
	0			Stenosis with Radiculopathy	Fusion	Kanna	r
21	29/01/202	72	F	OVCF L3	Vertebroplasty	Prof. S.	Observe
	0					Rajasekaran	r
22	29/01/202	48	F	L4L5 Spondylolisthesis	L4L5 TLIF	Dr. Ajoy P Shetty	Observe
	0			with Stenosis			r
23	31/01/202	81	M	L4L5 Facetal Cyst, Left	L4L5 Microdecompression	Prof. S.	Observe
	0			with Radiculopathy		Rajasekaran	r
24	31/01/202	65	M	CSM with C3 C4, C4 C5	Cervical Laminectomy	Prof. S.	Observe
	0			Disc Osteophyte Complex	C3-C6	Rajasekaran	r
25	31/01/202	58	M	Nurick 3 L3L4 Stenosis with	L3 L4 TLIF	Dr. Ajoy P Shetty	Observe
23	0	38	IVI	Radiculopathy	L3 L4 TLIF	Di. Ajoy F Shetty	r
26	31/01/202	44	М	L4 IDEM with	Tumour Excision	Prof. S.	Observe
20	0	44	171	Radiculopathy, Left	Biopsy	Rajasekaran	r
27	03/02/202	42	F	C6C7 Disc Prolapse with	C6C7 ACDF	Dr. Rishi M	Observe
	05/02/202	72	1	Radiculopathy	000, 11021	Kanna	r
28	03/02/202	56	М	T10T11 OLF with	T10-T12 Decompression	Prof. S.	Observe
	0	"		Myelopathy	with Instrumentation under	Rajasekaran	r
				, , , , , , , , , , , , , , , , , , , ,	AIRO navigation	_	
29	03/02/202	51	M	L4L5 Disc Prolapse with	L4L5 Microdiscectomy	Dr. Rishi M	Observe
	0			Radiculopathy		Kanna	r
30	03/02/202	46	M	T6 AO A1, T7 AO B3 with	Posterior Instrumented	Dr. Rishi M	Observe
i	0			ASIA A Neurology	Stabilisation with	Kanna	r
					Decompression		
31	04/02/202	59	M	L4L5 Degenerative	L4L5 TLIF	Dr. Rishi M	Observe
	0			Listhesis with Spinal		Kanna	r
				Stenosis		D D'1116	
32	04/02/202	18	M	L1 B2, L2 A3 Injury with	Posterior Instrumented	Dr. Rishi M	Observe
20	0			Normal Neurology	Stabilisation	Kanna Dr. Rishi M	Observe
33	04/02/202	39	M	C5C6 Facet Dislocation	C5C6 ACDF	Kanna	r
34	05/02/202	32	M	with C6 facet fracture Ankylosing Spondylitis T11	T9-L2 Posterior	Dr. Rishi M	Observe
34	03/02/202	32	IVI	T12 Discovertebral Fracture	Instrumented Stabilisation	Kanna	r
i	U			with Bilateral Hip	mstrumented Stabinsation	Kaima	
				Ankylosis			
35	05/02/202	36	M	L5S1 Lytic Listhesis with	L5S1 MIS TLIF	Dr. Ajoy P Shetty	Observe
	0			Radiculopathy			r
36	05/02/202	69	M	C7 Carrot Stick Fracture	C3-T3 Posterior	Prof. S.	Observe
	0			(AS) with Normal	Instrumented Stabilisation	Rajasekaran	r
				Neurology			
37	06/02/202	77	M	L2L3, L4L5 Listhesis with	L2-L5 Decompression and	Dr. Rishi M	Observe
	0			Radiculopathy	Fusion	Kanna	r
				Post L2-L5 Midline			
				Decompression (2001)			

Myelopathy	Anterior Plating Kanna r
39 06/02/202 28 F T12 Aggressive Poste	
39 06/02/202 28 F T12 Aggressive Poste	
	rior Decompression Dr. Rishi M Observe
	ith Stabilisation Kanna r
Neurodeficit	
, 10 10/0-10 11 11 1 1 1 1 1 1 1	on and Extension of Prof. S. Observe
	Distal Construct Rajasekaran r
41 10/02/202 67 F L4L5 Degenerative	L4L5 TLIF Dr. Rishi M Observe
0 Listhesis with Neurodeficit	Kanna r
	Laminectomy with Prof. S. Observe
	ur Excision, Biopsy Rajasekaran r
	rior Decompression Dr. Rishi M Observe
	ith Stabilisation Kanna r
	erior Instrumented Dr. Rishi M Observe
0	Stabilisation Kanna r
45 11/02/202 29 M L5S1 Listhesis with	L5S1 TLIF Dr. Rishi M Observe
0 Radiculopathy	Kanna r
73 22/32/232 23 23 23 23 23	erior Instrumented Dr. Rishi M Observe
0 Neurology	Stabilisation Kanna r
	Decompression TLIF Dr. Rishi M Observe
0 Extrusion with Cauda	Kanna r
Equina Syndrome	TATALS ISSI D. D. D. L. M. Ohrama
	SL4, L4L5, L5S1 Dr. Rishi M Observe
	compression with Kanna r
Cauda Equina Syndrome	Discectomy erior Instrumented Dr. Rishi M Observe
	Stabilisation Kanna r
	Statifisation Rainta 1
Neurology	prpectomy with Cage Prof. S. Observe
	Reconstruction Rajasekaran r
Myelopathy	Reconstruction Rajasckaran 1
S/P T10-L2 Posterior	
Decompression with	
Stabilisation and Biopsy	
(06/02/2020)	
51 12/02/202 50 M L4L5, L5S1 Discogenic	L4-S1 TLIF Dr. Rishi M Observe
0 Stenosis with Radiculopathy	Kanna r
	erior Instrumented Dr. Rishi M Observe
0 ASIA A	Stabilisation Kanna r
	77 Kyphoplasty Prof. S. Observe
0 to Multiple Myeloma	Rajasekaran r
54 17/02/202 56 M C6C7 Disc Prolapse with	C6C7 ACDF Dr. Rishi M Observe
0 Radiculopathy	Kanna r
55 17/02/202 75 M L4L5 Facetal Cyst, Right L4L5	5 Cyst Excision and Prof. S. Observe
	Decompression Rajasekaran r_
	Oraminal Endoscopic Dr. Rishi M Observe
	iscectomy L4L5 Kanna r
Radiculopathy	C4C5 ACDF Prof. S. Observe

	0			Complex with Bilateral Radiculopathy		Rajasekaran	r
58	17/02/202	52	М	L2 AO A4 Fracture with Normal Neurology	Posterior Instrumented Stabilisation	Dr. Rishi M Kanna	Observe r
59	18/02/202 0	54	F	L5 S1 Lytic Listhesis with Radiculopathy	L5S1 TLIF	Dr. Rishi M Kanna	Observe r
60	18/02/202 0	65	F	L2L3, L4L5 Spinal Canal Stenosis	L2L3, L4L5 Decompression; L2L3 Fusion	Dr. Rishi M Kanna	Observe r
61	19/02/202 0	37	M	L5S1 Disc Extrusion with Radiculopathy	L5S1 Microdiscectomy	Prof. S. Rajasekaran	Observe r
62	19/02/202 0	68	F	L2 OVCF with Pseudoarthrosis	Vertebroplasty	Prof. S. Rajasekaran	Observe r
63	19/02/202 0	45	F	C6C7 Disc Extrusion	C5C7 ACDF	Prof. S. Rajasekaran	Assisted
64	19/02/202	23	F	L4L5 Disc Extrusion	L4L5 Microdiscectomy	Prof. S. Rajasekaran	Observe r
65	19/02/202	45	F	L5S1 Spondyloptosis with bilateral Radiculopathy	L4-S1 Fusion with Delta Fixation	Dr. Ajoy P Shetty	Observe
66	20/02/202	8	F	Neuromuscular Scoliosis Post Halo Gravity Traction	Halo Ring Removal Growth Rod Application	Dr. Ajoy P Shetty	Observe r
67	21/02/202	14	M	AIS Lenke 1AN	STF T4-L1 under AIRO navigation	Prof. S. Rajasekaran	Observe
68	21/02/202	69	М	L3L4, L4L5 Discogenic Stenosis with Bilateral Radiculopathy	L3L4, L4L5 Decompression and Discectomy	Prof. S. Rajasekaran	Observe r
69	21/02/202 0	45	F	L4L5 Discogenic Stenosis with Radiculopathy, Right	L4L5 Microdiscectomy with Posterior Decompression	Prof. S. Rajasekaran	Observe r
70	21/02/202	13	M	EOS Post Growth Rod Insertion	Rod Revision and Distraction	Dr. Ajoy P Shetty	Observe
71	22/02/202	15	F	AIS Lenke 6	PISF T4-L3	Dr. Ajoy P Shetty	Observe r
72	24/02/202	48	M	L5S1 Disc Extrusion with Right Sided Radiculopathy	Endoscopic Discectomy	Dr. Rishi M Kanna	Observe r
73	24/02/202	22	F	Prolapsed Disc L4L5 with Bilateral Radiculopathy	L4L5 Microdiscectomy	Dr. Rishi M Kanna	Observe r
74	24/02/202 0	50	М	L4L5 Extruded Disc with Bilateral Radiculopathy	L4L5 Midline Decompression with Discectomy	Dr. Rishi M Kanna	Observe r
75	24/02/202 0	56	М	L1L2 Spondylodiscitis S/P L2-L4 Instrumented Fusion	Proximal Extension of Instrumentation and Fusion	Dr. Rishi M Kanna	Observe r
76	24/02/202 0	46	М	T7T8 Type B2, T8 AO A4 ASIA A	Posterior Decompression with Instrumented Stabilisation	Dr. Rishi M Kanna	Observe r
77	24/02/202 0	17	M	C4C5 AO Type C Injury with ASIA A Neurology	C4C5 Corpectomy C3 to C5 Fusion	Dr. Rishi M Kanna	Observe r
78	25/02/202 0	45	M	Type 2 Odontoid Fracture with Normal Neurology	Odontoid Screw Fixation	Dr. Rishi M Kanna	Observe r



79	25/02/202	25	M	L4L5 Discogenic Stenosis	L4L5 Posterior	Dr. Rishi M	Observe
	0			****	Decompression	Kanna	r
80	26/02/202 0	50	M	Type 2 Odontoid Fracture Central Cord Syndrome	C1C2 Posterior Stabilisation	Dr. Ajoy P Shetty	Observe r
81	27/02/202	53	М	C4C5 Disc Osteophyte	C4C5 ACDF	Dr. Rishi M	Observe
	0			Complex Nurick 3	0.0011021	Kanna	r
				Myelopathy			
82	27/02/202	68	M	L3L4, L4L5 Degenerative	L3-S1 Decompression and	Dr. Rishi M	Observe
	0			Listhesis with Stenosis	Fusion	Kanna	r
83	27/02/202	33	M	T3T4 AO B2 Injury with	Posterior Decompression	Dr. Ajoy P Shetty	Observe
	0			ASIA A Neurology	with Instrumented		r
					Stabilisation		
84	28/02/202	8	F	Congenital Thoracic	T3 to L3 Posterior	Prof. S.	Observe
	0			Kyphoscoliosis with	Instrumented Deformity	Rajasekaran	r
				Neurodeficit	Correction and Fusion		
				S/P Dethetering of cord	under AIRO navigation		
				(2015)			
				Excision of	_		
				Lipomyelomeningocoele			
85	28/02/202	45	F	(2012) Intradural Extramedullary	Excision Biopsy	Prof. S.	Observe
65	0	45	Г	Lesion T2T3	Excision Biopsy	Rajasekaran	r
86	01/03/202	48	M	C6C7 Disc Prolapse with	C6C7 ACDF	Dr. Rishi M	Observe
80	01/03/202	70	141	Radiculopathy	COC, ACDI	Kanna	r
87	01/03/202	35	M	L4L5 Disc Extrusion with	L4L5 Microdiscectomy	Dr. Rishi M	Observe
07	0		1 1 1	Radiculopathy	I iii iiii iii iii iii ii ii ii ii ii i	Kanna	r
88	02/03/202	17	F	Neuromuscular Left	T3-L4 Posterior	Prof. S.	Observe
	0			Thoracolumbar Scoliosis	Instrumented Deformity	Rajasekaran	r
				with Truncal Translation	Correction and Fusion		
					under AIRO Navigation		
89	02/03/202	16	M	Left Thoracic	T5-L3 Posterior	Prof. S.	Assisted
	0			Neuromuscular Scoliosis	Instrumented Deformity	Rajasekaran	
					Correction and Fusion		
					under AIRO Navigation		
90	02/03/202	58	M	C2-C7 OPLL with C4C5	C1 - T2 Laminectomy;	Prof. S.	Observe
	0			instability Nurick 3	C1 Lateral Mass, C2-T2	Rajasekaran	r
				myelopathy	Pedicle Screw Fixation		
			<u> </u>	1767 1 1 137	under Navigation	Dr. Ajoy P Shetty	Observe
91	04/03/202	13	F	AIS Lenke 1 AN	PSF T4-L1		r
92	04/03/202	37	F	C2-T2 OPLL	C2-T2 Instrumented	Prof. S.	Observe
	0				Laminectomy under	Rajasekaran	r
					Navigation		<u> </u>
93	04/03/202	50	F	L5S1 Spondylodiscitis	L5S1 Biopsy,	Prof. S.	Observe
	0				Decompression and Fusion	Rajasekaran	r
94	04/03/202 0	85	F	T11 OVCF	Vertebroplasty	Dr. Ajoy P Shetty	Observe r
95	04/03/202	55	F	T10T11 Ossified	T10 T11 Decompression	Prof. S.	Assisted
	0			Ligamentum Flavum	with Posterior	Rajasekaran	
1					Instrumentation		1

96	04/03/202 0	55	М	C3C4 Traumatic Disc Prolapse with Central Cord Syndrome	C3C4 ACDF	Dr. Ajoy P Shetty	Observe r
97	05/06/202 0	18	М	Congenital Scoliosis with T10 Hemivertebra	T3-L3 Posterior Instrumented Deformity Correction	Dr. Ajoy P Shetty	Observe r
98	05/03/202 0	62	M	L4L5 Degenerative Listhesis with Stenosis	L4L5 TLIF	Dr. Ajoy P Shetty	Assisted
99	05/03/202 0	27	F	L1L2 Spondylodiscitis, L2 Pathological Collapse	Posterior Instrumented Stabilisation, Decompression, L2 Vertebrectomy and Biopsy	Dr. Ajoy P Shetty	Observe r
10 0	06/03/202 0	50	М	T12 Pseudoarthrosis with Neurodeficit	Posteriot Instrumented Stabilisation with T12 Vertebroplasty	Dr. Ajoy P Shetty	Observe r
10 1	06/03/202 0	24	M	C6C7 Disc Prolapse with Radiculopathy, Right	C6Ç7 ACDF	Dr. Ajoy P Shetty	Observe r
10 2	06/03/202 0	16	F	Multifocal Tubercular Spondylodiscitis and Pathological Collapse of C7 and T7 with Myelopathy	C7 Reconstruction and Plating with Posterior Stabilisation	Dr. Ajoy P Shetty	Assisted
10	07/03/202 0	24	M	C4C5 Type C Injury	C4C5 ACDF	Dr. Ajoy P Shetty	Observe r
10 4	07/03/202 0	49	М	C5C6 Type C Injury	C5C6 ACDF with Posterior Instrumented Lateral Mass Stabilisation	Dr. Ajoy P Shetty	Assisted
10 5	07/03/202 0	45	М	Traumatic Disc Prolapse C6C7 ASIA A with C7 isthmic fracture	C6C7 ACDF with Posterior Stabilisation	Dr. Ajoy P Shetty	Observe r
10 6	07/03/202 0	24	M	C4C5 Type C Injury	C4C5 ACDF	Dr. Ajoy P Shetty	Observe r
10 7	07/03/202	60	М	Right Superior and Inferior Pubic Rami, L5 Transverse Process and Zone 2 Sacral fracture	Spino Pelvic Fixation	Dr. Ajoy P Shetty	Observe r
10 8	07/03/202 0	57	M	L5S1 Disc Extrusion with Radiculopathy, Left	L5S1 Microdiscectomy	Dr. Ajoy P Shetty	Observe r
10 9	07/03/202	50	F	C5C6 Spondylodiscitis and Pathological Collapse of C5 with Quadriparesis and Bowel/ Bladder Involvement	C5C6 debridement, biopsy, Reconstruction and Plating	Dr. Ajoy P Shetty	Observe r
11 0	11/03/202 0	51	М	L4L5 Disc Prolapse with Neurodeficit	L4L5 Microdiscectomy	Dr. Ajoy P Shetty	Observe r
11 1	11/03/202 0	60	М	CSM C3-C6 Nurick 3	C3-C6 ACDF	Dr. Ajoy P Shetty	Observe r
11 2	11/03/202 0	74	М	L2 Pseudoarthrosis with Neurodeficit	Posterior Instrumented Stabilisation with Cement Augmentation	Dr. Rishi M Kanna	Observe r
11	11/03/202	32	M	L4L5 Central Disc	L4L5 Microdiscectomy	Dr. Rishi M	Observe



		,		1			
3	0			Extrusion with		Kanna	r
	11/02/202			Radiculopathy		D 41 D 61	
11	11/03/202	61	F	L2L3 Adjacent Segment	Extension of	Dr. Ajoy P Shetty	Observe
4	0			Degeneration with	Instrumentation,		r
				Neurodeficit	Decompression and Fusion		
11	12/03/202	29	M	C5C6 Disc Osteophyte	C5C6 ACDF	Dr. Ajoy P Shetty	Observe
5	0			Complex with			r
				Radiculopathy, Right			
				Status: C5C6 Discectomy			
				2017			
11	12/03/202	47	F	T12 fracture AO A3	Posterior Instrumented	Dr. Ajoy P Shetty	Observe
6	0				Stabilisation		r
11	12/03/202	16	F	Multifocal Tb	Posterior Instrumented	Dr. Ajoy P Shetty	Observe
7	0			Spondylodiscitis with C7	Stabilisation with		r
				Pathological Collapse with	Decompression		
				Myelopathy	_		
11	12/03/202	50	F	C5C6 Spondylodiscitis and	Posterior Instrumented	Dr. Ajoy P Shetty	Observe
8	0	l		Pathological Collapse of C5	Stabilisation C3-C7		r
		1		with Quadriparesis and	•		
		1		Bowel Bladder Disturbance			
		1		S/P Anterior C5C6			
				debridement, reconstruction			
				with cage strut grafting and			
				plating C3-C7			
11	13/03/202	48	F	Post Tb Kyphotic	Kyphectomy/ Posterior	Prof. S.	Observe
9	0			Deformity with Thoracic	Instrumented Deformity	Rajasekaran	r
_				Myelopathy	Correctionand Fusion	ľ	
12	13/03/202	70	M	T10 Pseudoarthrosis (DISH)	T9-T12 Posterior	Prof S.	Observe
0	0			, ,	Stabilisation	Rajasekaran	r
12	13/03/202	59	F	Post L2-S1 Stabilisation and	Debridement/ Removal of	Dr. Ajoy P Shetty	Assisted
1	0			Antibiotic Beads	Antibiotic Beads/ Revision		
				Application for L4-S1	Instrumentation		
		ŀ		Spondylodiscitis			
1	1		-	S/P L4L5 Fusion 10/2019			
12	14/03/202	55	M	CSM sec. To C3C4, C4C5	C4 Corpectomy with	Dr. Ajoy P Shetty	Observe
2	0			Disc Osteophyte Complex	Plating		r
12	14/03/202	14	F	Tethered Cord Syndrome +	Release of Tethered Cord	Dr. Murali	Observe
3	0			Lipomyelomeningocoele	and Lipoma Excision		r
1				with Bladder Dysfunction	•		
1			}	L5S1 Spina Bifida			
12	17/03/202	9	М	Congenital Scoliosis with	Revision Surgery/	Dr. Ajoy P Shetty	Observe
4	0	-		T9-T12 unilateral bar, left	Application of Growing		r
1.				Post Growing Rod	Rod Bilateral		
				Application, Left Rib Hook			
				and L3L4 Pedicle Screws,			
				left			
12	18/03/202	12	F	AIS Lenke 3BN	PSF T2-L4	Prof. S.	Observe
5	0	1.2	*	THE DUME DOT!		Rajasekaran	r
12	18/03/202	67	M	L3L4 Adjacent Segment	L2-Ilium Fusion	Prof. S.	Observe
6	0	"	747	Degeneration with		Rajasekaran	r
10	0	1	1	Dogonoration with			1

May

				Neurodeficit Post L4-S1 fusion			
12 7	18/03/202 0 ·-	66	F	T9 Lesion To consider Infective Spondylitis vs Spine metastasis	T9 Transpedicular Biopsy	Dr. Ajoy P Shetty	Observ r
12 8	18/03/202 0	46	М	Thoracic Myelopathy sec to Ossified Ligamentum Flavum T10T11	Posterior Decompression with Instrumentation	Dr. Ajoy P Shetty	Observ r
12 9	19/03/202 0	21	М	AIS Lenke 6	PSF T3-L4	Dr. Ajoy P Shetty	Observer r
13	19/03/202 0	43	F	L5S1 Lytic Listhesis Grade3 with Radiculopathy	TLIF L5S1	Dr. Ajoy P Shetty	Observe r
13 1	19/03/202 0	44	F	L4L5 Lytic Listhesis with Radiculopathy, Right	TLIF L4L5	Dr. Ajoy P Shetty	Observe r
13 2	19/03/202 0	51	М	C4C5, C5C6 Traumatic Disc Prolapse ASIA C	ACDF_C4C5, C5C6	Dr. Ajoy P Shetty	Observe r
13	19/03/202 0	56	М	CSM due to Cervical Spinal Stenosis C3C4, C4C5	ACDF C3C4, C4C5	Dr. Ajoy P Shetty	Observe r
13	19/03/202 0	55	М	T10 T11 Type C Injury with ASIA A Neurology	Posterior Instrumented Stabilisation with Decompression	Dr. Ajoy P Shetty	Observe r
13 5	20/02/202 0	20	M	L1 Intradural Tumour with Left Radiculopathy	Excision of Intradural Tumour	Dr. Murali	Observe r
13 6	20/03/202 0	17	M	Prolapsed Disc L4L5	Microdiscectomy L4L5	Dr. Ajoy P Shetty	Observe r
13 7	20/03/202 0	36	M	L5 S1 Disc Extrusion with Radiculopathy, Right	Endoscopic Discectomy L5S1, Right	Dr. Ajoy P Shetty	Observe r
13 8	25/03/202	22	F	T8 -T12 Tb Spondylodiscitis with Epidural Abscess and Kyphoscoliosis	Posterior Decompression, Biopsy, Instrumented Deformity Correction and Fusion Under Neuromonitoring	Dr. Ajoy P Shetty	Observe r
13 9	25/03/202 0	63	М	L3L4, L4L5 Degenerative Listhesis with Spinal Canal Stenosis; Cauda Equina Syndrome, Chronic. Ischemic Heart Disease, Hypertensive	L3L4, L4L5 TLIF	Dr. Ajoy P Shetty	Observe r
14 0	30/03/202 0	10	F	Right Thoracic with Left Lumbar Scoliosis (Marfanoid Features)	T2 – L4 Posterior Instrumented Spinal Fusion under AIRO Navigation	Dr. Ajoy P Shetty	Observe r
14 1	04/04/202	14	F	Right Thoracic with Left Lumbar Scoliosis with Marfanoid Features	T2-L4 Posterior Instrumented Deformity Correction and Spinal Fusion under Navigation	Dr. Ajoy P Shetty	Observe r
14 2	05/04/202 0	14	F	Tethered Cord Syndrome w/ Lipomyelomeningocoele with Bladder Dysfunction S/P Release of Tethered	Re-exploration with Water Tight Closure of Muscle Fascia	Dr. Murali Dr. Hari	Observe r

				Cord with Lipoma Excision (14/03/2020) CSF Leak			
14 3	06/04/202	74	М	Multiple Spinopelvic Lytic Lesions with Normal Neurology S/P Bone Marrow Biopsy 05/03/2019	Multiple Biopsy Spine and Pelvis	Dr. Rishi M Kanna	Observe r
14 4	07/04/202	35	М	L4L5 Discogenic Stemosis with Bilateral Radiculopathy Cauda Equina Syndrome	L4L5 Midline Decompression with Microdiscectomy L4L5	Dr. Rishi M Kanna	Observe r
14 5	10/04/202 0	28	M	L1 AO B2 Injury with Conus Medullaris Syndrome	Posterior Instrumented Stablisation with Decompression	Dr. Ajoy P Shetty	Assisted
14 6	10/04/202 0	41	М	L4 AO A4 Fracture with ASIA E Neurology	Posterior Instrumented Stabilisation	Dr. Ajoy P Shetty	Observe r
14	11/04/202 0	47	М	L4L5 AO Type C Injury with Normal Neurology	Posterior Instrumented Stabilisation L3-L5	Dr. Ajoy P Shetty	Observe r
14 8	11/04/202 0	55	M	C5C6 Type C Injury with ASIA E Neurology	C5C6 ACDF with Lateral Mass Screw Fixation	Dr. Ajoy P Shetty	Observe r
14 9	23/04/202	54	F	L4L5 Pyogenic Spondylodiscitis L5S1 Spondylolisthesis with Radiculopathy	Transforaminal Lumbar Interbody Debridement and Fusion L4L5 / Posterior Decompression L5S1 with Posterior Stabilisation L4 — S1	Dr. Ajoy P. Shetty	Observe r
15 0	23/04/202	42	М	L4L5 Discogenic Stenosis with Bilateral Radiculopathy Status: L5S1 TLIF 20/05/2017	L4 – L5 Decompression and Fusion	Dr. Rishi M. Kanna	Observe r
15	27/04/202	14	F	Recurrent Hemangioma T2 with Compressive Myelopathy and Neurologic Deficit Status: C7-T4 Posterior Stabilsation; T2,T3 Laminectomy with Biopsy (28/11/2016) Angioembilization (18/04/2020) Extension of Instrumentation C7-T5, T2 Vertebrectomy with Anterior Harm's Cage Reconstruction and Fusion (20/04/2020)	Anterior Excision under AIRO CT Navigation and Neuromonitoring/ Revision of Harm's Cage to Expandable Cage	Prof. S. Rajasekaran	Assisted
15	01/05/202	40	М	L2L3 Intradural Lesion with Cauda Equina and	Tumor Excision, Biopsy	Prof. S. Rajasekaran	Observe r

				Neurologic Deficit			
15	02/05/202	59	F	T9-T12 Spinal Cord Lesion	T9-T12 Laminectomy,	Prof. S.	Observe
3	02/03/202	39	F	with Paraplegia	Durotomy, Decompression	Rajasekaran	r
3	0 ,			wiiii i arapiegia	and Biopsy	100,000,000	
15	02/05/202	62	M	C4C5 Disc Prolapse with	C4C5 ACDF	Prof. S.	Observe
4	0			Right Cervical		Rajasekaran	r
	-			Radiculopathy		_	
15	05/05/202	63	M	C6C7 Traumatic Disc	C6C7 ACDF	Dr. Rishi M.	Observe
5	0	"		Prolapse with Left Upper		Kanna	r
				Limb Neurodeficit			
15	06/05/202	37	M	Fracture Sacrum Right Zone	Spinopelvic Fixation	Dr. Ajoy P. Shetty	Observe
6	0			1 with Sacroiliac Joint	(Sacroiliac Screws)		r
-				Disruption	, ,		
				Status: Right Tibia and			
				Femur External Fixation			
				(16-04-2020)			
				Craniotomy (17/04/2020)	,		
			1	Femur Nailing (20/04/2020)			
			1	Flap Coverage Right Leg			
		l		(22/04/2020)			
				Tracheostomy (22/04/2020)			
				ORIF Right Distal Radius			
				(27/04/2020)			
15	08/05/202	13	F	Adolescent Idiopathic	T4-L3 PISF	Prof S.	Observe
7	0		ł	Scoliosis Lenke 6CN		Rajasekaran	r
15	08/05/202	27	M	L5 Radiculopathy Right Sec	Selective Nerve Root Block	Dr. Ajoy P. Shetty	Observe
8	0			to L4L5 Disc Prolapse	Injection L5S1 Right		r
15	09/05/202	63	M	C3-C7 OPLL with	C3-C7 Laminectomy	Dr. Rishi M.	Observe
9	0			myelopathy		Kanna	r
16	09/05/202	40	F	L4L5 stenosis with	L4L5 Decompression with	Prof. S.	Observe
0	0	l		radiculopathy	microdiscectomy	Rajasekaran	r
16	09/05/202	54	F	L5-S1 Extruded Disc with	L5S1 Microdiscectomy	Prof. S.	Observe
1	0			right radiculopathy		Rajasekaran	r
16	13/05/202	74	M	T12 OVCF with	Posterior instrumented	Dr. Ajoy P. Shetty	Observe
2	0			pseudoarthrosis	stabilization with PCV		r
16	13/05/202	45	M	L5S1 Disc Prolapse	L5S1 Microdiscectomy	Dr. Ajoy P. Shetty	Observe
3	0			1			r
16	15/05/202	53	M	C5C6 AO type C injury	C5C6 ACDF	Dr. Ajoy P. Shetty	Observe
4	0			with normal neurology			r
16	15/05/202	63	M	L2-L5 Epidural Abscess	L2-L5 Laminectomy with	Dr. Ajoy P. Shetty	Observe
5	0]		_	drainage of abscess		r
16	16/05/202	60	M	C6C7 AO type C injury	C6C7 ACDF with LMF	Dr. Ajoy P. Shetty	Observe
6	0			ASIA A neurology			r
16	20/05/202	65	F	Atlanto-occipital	Foramen Magnum	Prof. S.	Observe
7	0			assimilation with	Decompression, Occipito	Rajasekaran	r
				atlantoaxial dislocation and	cervical Fusion		
				basilar invagination. Post			
				transoral odontoid resection			
16	20/05/202	55	F	T11 T12 IDEM lesion with	T11 T12 IDEM excision	Prof. S.	Observe
8	0			myelopathy	and biopsy	Rajasekaran	r



16	20/05/202	54	F	C1C2 arthritis	C1C2 Fusion	Dr. Ajoy P. Shetty	Observe
9	0						r
17	22/05/202	36	M	Epidural Lipomatosis	L2-S1 decompression	Prof S.	Observe
0	0					Rajasekaran	r
17	23/05/202	53	M	L4L5 Disc Extrusion	L4L5 Transforaminal PELD	Dr. Rishi M.	Observe
1	0					Kanna	r

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