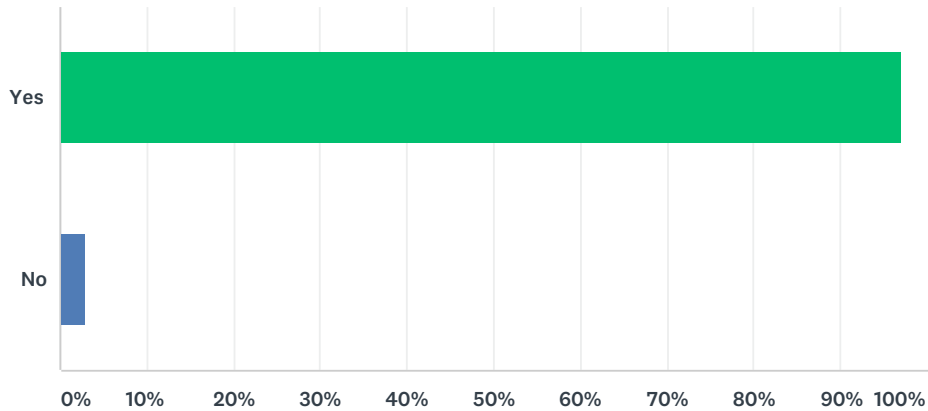


Q1 Since this meeting, have you shared what you learned with colleagues?

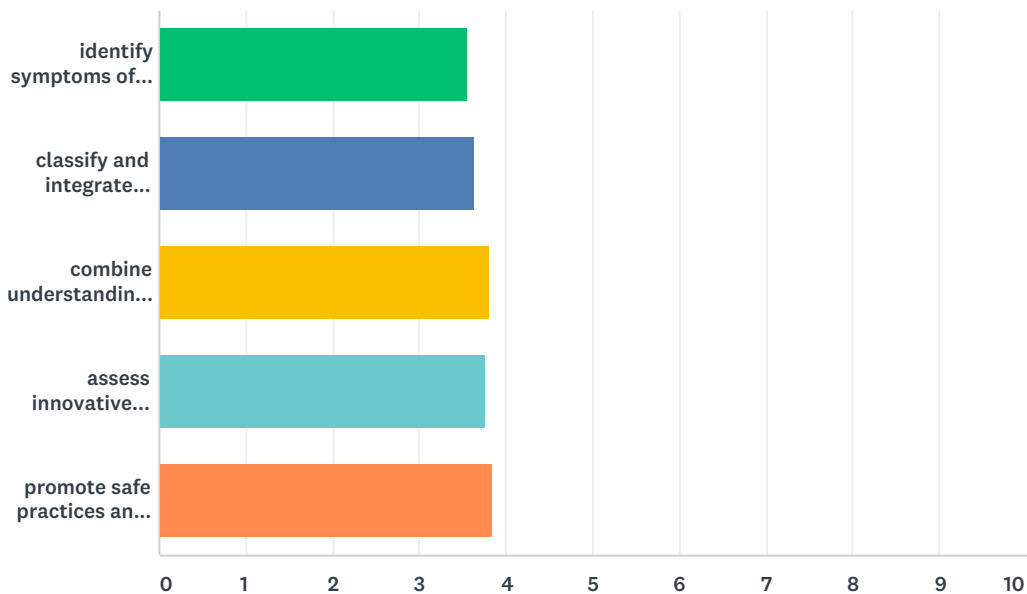
Answered: 137 Skipped: 22



ANSWER CHOICES	RESPONSES	
Yes	97.08%	133
No	2.92%	4
TOTAL		137

Q2 As a result of attending the 2018 Annual Meeting, do you feel you have improved your ability to:

Answered: 137 Skipped: 22



SRS Annual Meeting 2018 Post-Meeting Survey

	1 - NOT AT ALL	2	3 - TO SOME EXTENT	4	5 - ABSOLUTELY	NOT APPLICABLE	TOTAL	WEIGHTED AVERAGE
identify symptoms of professional burnout and take appropriate action to improve mental and physical health for benefit of the patient.	5.11% 7	2.92% 4	29.93% 41	26.28% 36	29.93% 41	5.84% 8	137	3.55
classify and integrate preoperative planning into surgical plans to optimize patient outcomes.	1.47% 2	2.21% 3	25.00% 34	41.91% 57	22.79% 31	6.62% 9	136	3.63
combine understanding of pediatric and adult natural history and pathology to strengthen best practices	1.46% 2	2.92% 4	21.17% 29	37.23% 51	32.12% 44	5.11% 7	137	3.80
assess innovative evidence-based research for appropriate incorporation into the clinical environment.	2.22% 3	3.70% 5	27.41% 37	34.81% 47	28.89% 39	2.96% 4	135	3.76
promote safe practices and complication reduction in the treatment of complex spine deformity	3.65% 5	0.73% 1	20.44% 28	32.12% 44	37.96% 52	5.11% 7	137	3.85

Q3 What changes did you make to your approach to treatment of spine deformity?

Answered: 137 Skipped: 22

#	RESPONSES	DATE
1	Would like to know more about growth modulation especially for early onset idiopathic scoliosis. Researching the developments.	1/7/2019 8:57 AM
2	No changes	1/3/2019 6:51 AM
3	approach for early onset scoliosis	1/2/2019 12:12 AM
4	consider comorbidities and risk assessment	1/1/2019 10:26 PM
5	Fragility scale	12/31/2018 10:56 AM
6	to ensure all complex deformity cases are discussed in multidisciplinary meetings, and surgical planning to be made , based on current evidence based medicine .	12/31/2018 1:14 AM
7	Same information	12/29/2018 12:12 PM
8	PreOP evaluation	12/26/2018 12:45 PM
9	More accurate preoperative patient evaluation.	12/25/2018 7:27 AM
10	Going to start looking at evaluating nine age from proximal humerus X-rays	12/24/2018 11:02 PM
11	Lesser indications for vertebrectomies	12/24/2018 12:41 PM
12	my approach to treat spinal muscular atrophy patients changed	12/24/2018 12:12 PM
13	better global understanding	12/24/2018 11:40 AM
14	Best planning	12/23/2018 10:32 AM
15	Improve my planning in treatment o the spinal dformity	12/23/2018 7:29 AM

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16	Do more anterior	12/23/2018 7:20 AM
17	none. ive ben practising as advised	12/23/2018 12:29 AM
18	Global evaluation of deformity, its course and patients' expectations.	12/22/2018 7:05 AM
19	Preserve lumbar lordosis	12/21/2018 7:15 PM
20	No changes	12/21/2018 4:02 PM
21	Planning	12/21/2018 10:59 AM
22	More thoughtful analysis	12/21/2018 8:05 AM
23	More selective in recommending surgery	12/21/2018 8:02 AM
24	Prepare much better the adult patients before surgery	12/21/2018 8:00 AM
25	none	12/21/2018 7:03 AM
26	do a lot with a little	12/21/2018 6:44 AM
27	I am a basic scientist.	12/21/2018 6:03 AM
28	Say no to things	12/21/2018 5:31 AM
29	Implemented more safety and efficacy parameters for growing rods. Put more focus on preop lumbar extensor strenghtening Change the duration of bed rest after successful repair of dural tears	12/21/2018 4:10 AM
30	No changes	12/21/2018 4:08 AM
31	no change	12/21/2018 4:07 AM
32	Adapt to some bracing strategies of different regions.	12/21/2018 3:48 AM
33	I can more clearly evaluate spinal instability in degenerative elderly cases	12/21/2018 3:11 AM
34	No changes yet	12/21/2018 2:23 AM
35	Not yet	12/21/2018 1:40 AM
36	Paying more attention to pre op planning.	12/21/2018 1:40 AM
37	Am not part of treatment.	12/21/2018 12:22 AM
38	more cases reports	12/21/2018 12:19 AM
39	Change in evaluation of kyphosis	12/20/2018 11:20 PM
40	None	12/20/2018 10:06 PM
41	no change	12/20/2018 9:42 PM
42	EOS treatment	12/20/2018 9:27 PM
43	Started with revamping planning protocols in my hospital!	12/20/2018 8:28 PM
44	Better understanding of spinal deformity	12/20/2018 7:42 PM
45	Strive to get exactly the correction needed!	12/20/2018 6:58 PM
46	Better Planning	12/20/2018 6:32 PM
47	Risk assessment	12/20/2018 6:32 PM
48	preoperative optimization	12/20/2018 5:43 PM
49	magic rod	12/20/2018 5:23 PM
50	To be less invasive	12/20/2018 4:42 PM
51	more MIS	12/20/2018 4:28 PM
52	antibiotic choices for NM	12/20/2018 4:04 PM
53	Considered some changes to preoperative and postoperative protocols.	12/20/2018 2:57 PM
54	congenital	12/20/2018 2:32 PM

SRS Annual Meeting 2018 Post-Meeting Survey

55	searching of other treatment options	12/20/2018 2:21 PM
56	Use of TXA	12/20/2018 1:17 PM
57	Incorporate evidence based decision making.	12/20/2018 1:12 PM
58	no specific changes	12/20/2018 12:46 PM
59	Nothing specific comes to mind, but there was research to strengthen some decisions	12/20/2018 12:44 PM
60	Navigation	12/20/2018 12:44 PM
61	Better pre op documentation	12/20/2018 12:40 PM
62	No Changes right now	12/20/2018 12:32 PM
63	nothing concrete	12/20/2018 12:19 PM
64	.	12/20/2018 12:11 PM
65	.	12/20/2018 12:07 PM
66	Small	12/20/2018 12:03 PM
67	Na	12/20/2018 12:01 PM
68	Clinical evaluation and patient education	12/20/2018 11:43 AM
69	Though examination and proper planning using the different methodologies taught during the meeting....	12/20/2018 11:40 AM
70	plan on implementing check lists	12/20/2018 11:37 AM
71	n/a	12/20/2018 11:35 AM
72	My planning for surgery has become more refined	12/20/2018 11:20 AM
73	None	12/20/2018 11:17 AM
74	I've been considering more carefully sagittal alignment	12/20/2018 11:15 AM
75	I am considering also x ray of the hand for bone age	12/20/2018 11:13 AM
76	No changes	12/20/2018 11:13 AM
77	none	12/19/2018 12:59 PM
78	Increased safety	12/18/2018 9:45 AM
79	none	12/18/2018 6:53 AM
80	More preoperative planning	12/17/2018 8:41 PM
81	Hold on use of tethers for growth modulation	12/17/2018 4:11 PM
82	Mainly in teaching I have considered the new information	12/17/2018 3:42 PM
83	Better preop planning	12/17/2018 10:51 AM
84	Planningof instrumentation and levels.	12/17/2018 8:56 AM
85	reduce surgical indication	12/17/2018 3:13 AM
86	none but I'm not a surgeon	12/17/2018 1:40 AM
87	Modifications to VBT treatment.	12/16/2018 7:38 PM
88	Modified my preoperative planning	12/16/2018 9:56 AM
89	Precisely préopératoire patient evaluation	12/16/2018 6:56 AM
90	improved preop planning and surgery	12/16/2018 6:07 AM
91	reinforce practises	12/16/2018 12:51 AM
92	Improved preoperative assessment	12/15/2018 11:13 AM
93	To assess flexibility of proximal thoracic curves I use the neck bend and arm technique described by the asian group. I am also more aware of techniques to limit the wear and tear on my body during surgery.	12/15/2018 8:53 AM

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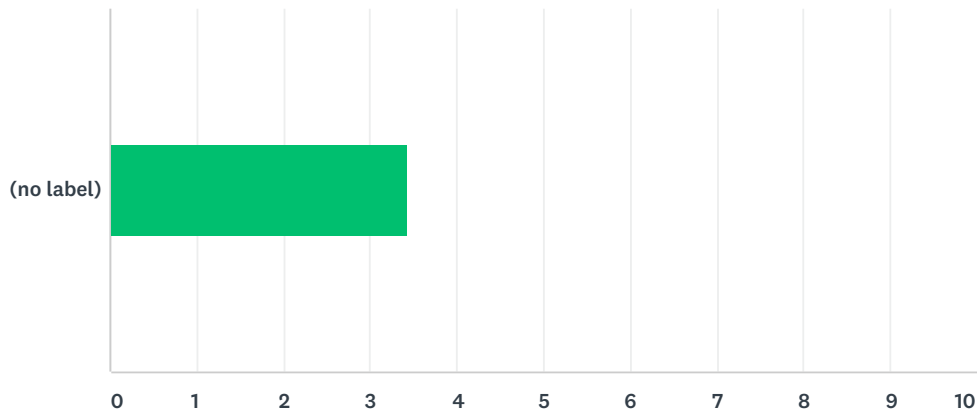
94	I learnt a lot of things about severe spine surgery defotmit like ans hod to improve correction using different types of osteotomy like : Pont osteotomy or vertébrale Column . resection .	12/15/2018 7:35 AM
95	Risk Strification	12/15/2018 7:33 AM
96	Will be more open halo gravity traction.	12/15/2018 6:52 AM
97	The importance of preoperative skull traction in management of severe deformity	12/15/2018 4:49 AM
98	No change	12/15/2018 2:45 AM
99	None	12/15/2018 2:43 AM
100	To apply more in detail the parameters of spine sagittal balance in operation planing	12/15/2018 1:23 AM
101	Nothing	12/14/2018 7:03 PM
102	More prepared for the cases and predict the complications and outcome	12/14/2018 6:07 PM
103	Better preop planning and complication management.	12/14/2018 5:25 PM
104	I got useful information to talk to my patients or to my coworkers.	12/14/2018 4:57 PM
105	More planing	12/14/2018 4:36 PM
106	Appropriate preoperative planning	12/14/2018 4:29 PM
107	To reconsider all judgement of appropriate treatment option on the basis of individual case and not by what others have said should be done. Each case is to a great extent unique .	12/14/2018 4:28 PM
108	Multidisciplinary approach to take a patient's best option.	12/14/2018 3:48 PM
109	Adopting safety and value parameters	12/14/2018 2:53 PM
110	not many	12/14/2018 2:37 PM
111	pain meds	12/14/2018 2:23 PM
112	None	12/14/2018 2:18 PM
113	Better preop evaluation	12/14/2018 2:14 PM
114	PSSE adjuvant treatment in non-operative care for scoliosis; Indications for tether surgery in immature patients	12/14/2018 2:12 PM
115	.	12/14/2018 1:20 PM
116	Better understanding re correction parameters	12/14/2018 1:07 PM
117	technique related	12/14/2018 1:04 PM
118	I am a researcher, I do not treat patient.	12/14/2018 1:02 PM
119	Starting to think about tethering	12/14/2018 12:53 PM
120	Better understanding of early onset deformity	12/14/2018 12:41 PM
121	more use of Sanders scores	12/14/2018 12:26 PM
122	Continue to address the importance of the sagittal balance	12/14/2018 12:16 PM
123	Enjoyed the tips and pearls from Schwab and Riew	12/14/2018 12:12 PM
124	Choose better the surgery cases	12/14/2018 12:12 PM
125	adult deformity	12/14/2018 12:05 PM
126	None	12/14/2018 12:03 PM
127	Confirmé m'y own observation	12/14/2018 12:00 PM
128	possibly changes in kids with early onset scoli	12/14/2018 11:50 AM
129	Nothing	12/14/2018 11:48 AM
130	Evidence based information on adult deformity surgery	12/14/2018 11:43 AM
131	team approach preoperative planning	12/14/2018 11:43 AM
132	Getting more data points collected per andnpost op	12/14/2018 11:38 AM

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133	Use of tether operation	12/14/2018 11:35 AM
134	integration of chronic pain concepts, practice/staff review of concepts and practice standards. increase multi-discipline approach	12/14/2018 11:17 AM
135	blood conservation management	12/14/2018 11:10 AM
136	Respect sagittal alignment	12/14/2018 11:07 AM
137	Implement new techniques	12/14/2018 11:04 AM

Q4 As a result of attending this meeting, do you feel you have created more varied treatment strategies?

Answered: 137 Skipped: 22

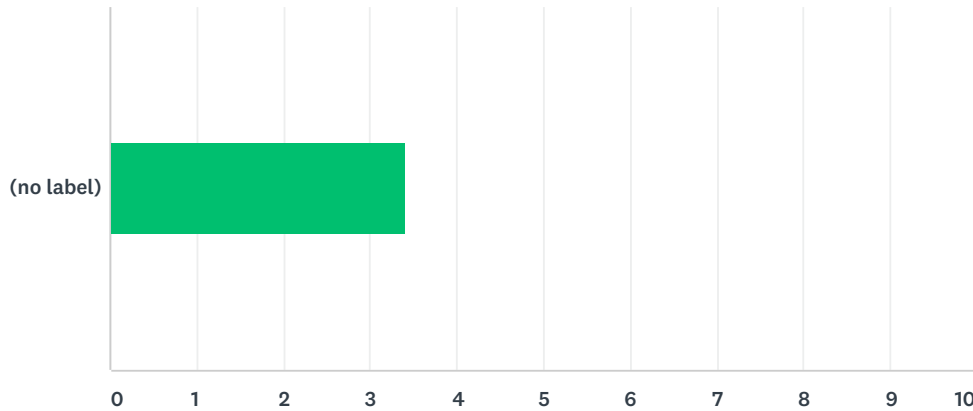


	1 - NOT AT ALL	2	3 - TO SOME EXTENT	4	5 - ABSOLUTELY	TOTAL	WEIGHTED AVERAGE
(no label)	4.38%	6.57%	48.18%	23.36%	17.52%	137	3.43
	6	9	66	32	24		

#	COMMENTS	DATE
1	Yes, reconsider anterior spine stabilization in the very young and those with sarcopenia	1/7/2019 8:57 AM
2	some condition make me change the method of treatment	12/23/2018 7:29 AM
3	same	12/23/2018 12:29 AM
4	No comments	12/21/2018 4:02 PM
5	I built my point of view	12/21/2018 12:19 AM
6	more MIS	12/20/2018 4:28 PM
7	n/a	12/20/2018 11:35 AM
8	none	12/17/2018 1:40 AM
9	Proper preoperative planning with 3D printing model is mandatory	12/15/2018 4:49 AM
10	tethering seems ascendant . Will watch	12/14/2018 2:37 PM
11	not convinced but many presentations	12/14/2018 12:00 PM
12	Vancomycin in the scar	12/14/2018 11:48 AM
13	-	12/14/2018 11:43 AM
14	increase multi-discipline team approach	12/14/2018 11:17 AM

Q5 As a result of attending this meeting, do you feel you have made more appropriate recommendations for spinal surgery?

Answered: 137 Skipped: 22



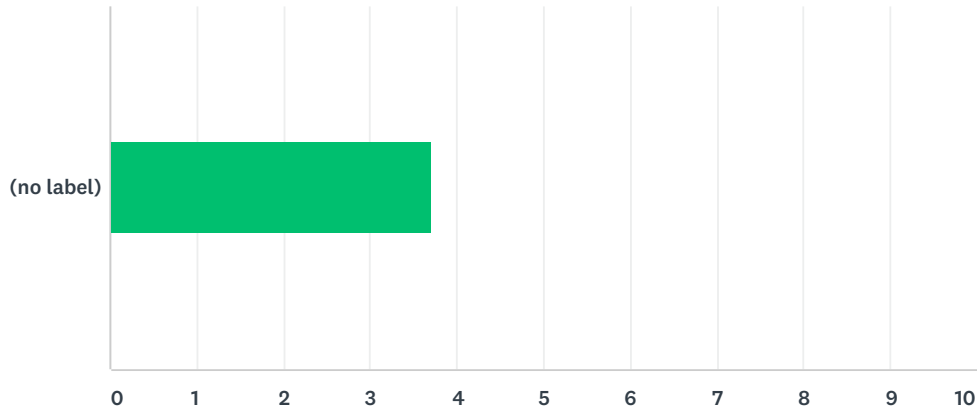
	1 - NOT AT ALL	2	3 - TO SOME EXTENT	4	5 - ABSOLUTELY	TOTAL	WEIGHTED AVERAGE
(no label)	5.11%	10.22%	38.69%	29.20%	16.79%	137	3.42
	7	14	53	40	23		

#	COMMENTS	DATE
1	collateral issues such as blood loss, hypothermia and neuro- protection have been fully appraised	1/7/2019 8:57 AM
2	No comments	12/21/2018 4:02 PM
3	n/a	12/20/2018 11:35 AM
4	not applicable	12/17/2018 1:40 AM
5	lcontinous medical education and attending meetings is very important for health care providers to be up to date	12/15/2018 4:49 AM
6	More on the conservative side.	12/14/2018 5:25 PM
7	I feel I was already doing that	12/14/2018 12:03 PM
8	we miss to have présentations to réfute surgery.	12/14/2018 12:00 PM
9	better understanding of indications for growth modulation	12/14/2018 11:43 AM
10	as a physical therapist, we do not make surgical recommendations. However, we can better participate within team approach during patient shared decision making care.	12/14/2018 11:17 AM

Q6 As a result of attending this meeting, have you provided better care for your patients?

Answered: 137 Skipped: 22

SRS Annual Meeting 2018 Post-Meeting Survey



	1 - NOT AT ALL	2	3 - TO SOME EXTENT	4	5 - ABSOLUTELY	TOTAL	WEIGHTED AVERAGE
(no label)	1.46%	8.76%	32.85%	31.39%	25.55%	137	3.71
	2	12	45	43	35		

#	IF YES, PLEASE PROVIDE AN EXAMPLE.	DATE
1	Precision in planning and executing appropriate steps in dealing with moderately difficult curves	1/7/2019 8:57 AM
2	Better preOP examination	12/26/2018 12:45 PM
3	But not many	12/23/2018 7:29 AM
4		12/21/2018 7:15 PM
5	No comments	12/21/2018 4:02 PM
6	For example, I strictly determine the sagittal balance in the cases with lumbar spinal stenosis now.	12/21/2018 3:11 AM
7	My pre op preparation of patients has improved	12/21/2018 1:40 AM
8	adult spinal deformity	12/20/2018 2:32 PM
9	Post operative analgesic	12/20/2018 12:44 PM
10	n/a	12/20/2018 11:35 AM
11	Neuromonitoring	12/15/2018 7:35 AM
12	proper analysis of my patient complaint and proper preoperative planning with following the current evidence will help the patient significantly	12/15/2018 4:49 AM
13	Nowadays more better outcome and less complications	12/14/2018 6:07 PM
14	From the surgeons standpoint trying to plan the practice flow better to avoid stress. From the patient's paying more attention to pre op planning, clearance, decreased radiation exposure and how to expedite discharge	12/14/2018 5:25 PM
15	Attitude of treating each case on its merit	12/14/2018 4:28 PM
16	Picking the right patient for the right surgery	12/14/2018 12:12 PM
17	Elderly over 80	12/14/2018 11:48 AM
18	mutual participation in their care, understanding expectations of outcomes	12/14/2018 11:43 AM
19	better pre-operative planning	12/14/2018 11:43 AM
20	Use of tethering	12/14/2018 11:35 AM
21	Updated research and concepts in chronic pain.	12/14/2018 11:17 AM

Q7 Which patients have been affected by what you learned at the meeting?

SRS Annual Meeting 2018 Post-Meeting Survey

Answered: 137 Skipped: 22

#	RESPONSES	DATE
1	Children	1/7/2019 8:57 AM
2	Adult spinal deformity	1/3/2019 6:51 AM
3	early onset scoliosis patient	1/2/2019 12:12 AM
4	syndromic and EOS	1/1/2019 10:26 PM
5	None so far	12/31/2018 10:56 AM
6	.	12/31/2018 1:14 AM
7	None	12/29/2018 12:12 PM
8	Adult	12/26/2018 12:45 PM
9	Patients with comorbidities	12/25/2018 7:27 AM
10	My AIS patients the most	12/24/2018 11:02 PM
11	Angular deformity requiring extensive correction	12/24/2018 12:41 PM
12	ais, sma patients	12/24/2018 12:12 PM
13	all	12/24/2018 11:40 AM
14	Children's	12/23/2018 10:32 AM
15	most of the patients affected from degenerative scoliosis	12/23/2018 7:29 AM
16	Not operate so many degenerative cases	12/23/2018 7:20 AM
17	no change	12/23/2018 12:29 AM
18	EOS	12/22/2018 7:05 AM
19	Adult Deformity	12/21/2018 7:15 PM
20	Ped patients	12/21/2018 4:02 PM
21	ASD	12/21/2018 10:59 AM
22	Spine patients	12/21/2018 8:05 AM
23	Unknown	12/21/2018 8:02 AM
24	Adult scoliosis	12/21/2018 8:00 AM
25	all	12/21/2018 7:03 AM
26	scoliosis with spinal cord malformation	12/21/2018 6:44 AM
27	ASD and AIS	12/21/2018 6:03 AM
28	Pediatric	12/21/2018 5:31 AM
29	adults & peds	12/21/2018 4:10 AM
30	every	12/21/2018 4:08 AM
31	new surgery tecnic	12/21/2018 4:07 AM
32	Those with big rigid curves may benefit from Multiple Ponte's.	12/21/2018 3:48 AM
33	Especially, elderly patients with degenerative spinal diseases	12/21/2018 3:11 AM
34	Als with inflection	12/21/2018 2:23 AM
35	Early onset scoliosis and adult spinal deformity	12/21/2018 1:40 AM
36	All my patients but especially paediatric deformity patients	12/21/2018 1:40 AM
37	Deformity	12/21/2018 12:22 AM

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38	neuromuscular scoliosis patients	12/21/2018 12:19 AM
39	Kyphosis, AIS	12/20/2018 11:20 PM
40	Early onset scoliosis	12/20/2018 10:06 PM
41	none	12/20/2018 9:42 PM
42	EOS	12/20/2018 9:27 PM
43	Degenerative scoliosis patients	12/20/2018 8:28 PM
44	Early onset scoliosis	12/20/2018 7:42 PM
45	Elderly adult deformity patients	12/20/2018 6:58 PM
46	Pediatric spinal deformities	12/20/2018 6:32 PM
47	High risk patients	12/20/2018 6:32 PM
48	all	12/20/2018 5:43 PM
49	juvenile svoliosis	12/20/2018 5:23 PM
50	AIS	12/20/2018 4:42 PM
51	elderly scoli cases	12/20/2018 4:28 PM
52	NM and EOS patients	12/20/2018 4:04 PM
53	Adult and pediatric deformity patients	12/20/2018 2:57 PM
54	adult spinal deformity	12/20/2018 2:32 PM
55	lowerback pain pts.	12/20/2018 2:21 PM
56	Primarily adults	12/20/2018 1:17 PM
57	Evidence based decision making impacts all pts.	12/20/2018 1:12 PM
58	adolescent and adult idiopathic deformity	12/20/2018 12:46 PM
59	early onset patients	12/20/2018 12:44 PM
60	Deformities	12/20/2018 12:44 PM
61	Early onset scoli	12/20/2018 12:40 PM
62	adults deformities	12/20/2018 12:32 PM
63	conservative patients	12/20/2018 12:19 PM
64	Ped	12/20/2018 12:11 PM
65	all deformity patients	12/20/2018 12:07 PM
66	Afults	12/20/2018 12:03 PM
67	NA	12/20/2018 12:01 PM
68	AIS braces	12/20/2018 11:43 AM
69	Adult deformity patients have benefitted the most	12/20/2018 11:40 AM
70	my AIS pts	12/20/2018 11:37 AM
71	n/a	12/20/2018 11:35 AM
72	Cervical spine deformity	12/20/2018 11:20 AM
73	Adult deformity and infection	12/20/2018 11:17 AM
74	I mostly deal with adolescent idiopathic scoliosis	12/20/2018 11:15 AM
75	early onset scoliosis	12/20/2018 11:13 AM
76	None	12/20/2018 11:13 AM
77	All	12/19/2018 12:59 PM
78	Adolescent idiopathic scoliosis	12/18/2018 9:45 AM

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79	patients with brace treatment	12/18/2018 6:53 AM
80	All	12/17/2018 8:41 PM
81	NM patients	12/17/2018 4:11 PM
82	EOS	12/17/2018 3:42 PM
83	pediatric deformity	12/17/2018 10:51 AM
84	Congenital and EOS	12/17/2018 8:56 AM
85	Old patients with SD	12/17/2018 3:13 AM
86	scoliosis patients conservatively treated	12/17/2018 1:40 AM
87	young AIS patients	12/16/2018 7:38 PM
88	early onset scoliosis	12/16/2018 9:56 AM
89	The patients with higher risk of neurological complications	12/16/2018 6:56 AM
90	all of them	12/16/2018 6:07 AM
91	Patients with complications from deformity related surgery	12/16/2018 12:51 AM
92	Pediatric spinal deformity patients and those with EOS	12/15/2018 11:13 AM
93	AIS	12/15/2018 8:53 AM
94	Patients with Scoliose deformity	12/15/2018 7:35 AM
95	ADS	12/15/2018 7:33 AM
96	Early onset kids	12/15/2018 6:52 AM
97	deformity cases	12/15/2018 4:49 AM
98	Adult spinal deformity	12/15/2018 2:45 AM
99	Adult Degen spine	12/15/2018 2:43 AM
100	adult patients with spine deformities	12/15/2018 1:23 AM
101	Pediatric and adult surgical candidates	12/14/2018 7:03 PM
102	Patients with severe deformity	12/14/2018 6:07 PM
103	Adults primarily do to there higher complication profile.	12/14/2018 5:25 PM
104	Adolescent idiopathic scoliosis	12/14/2018 4:57 PM
105	All of them to some extent	12/14/2018 4:36 PM
106	Pediatric patients	12/14/2018 4:29 PM
107	Most cases	12/14/2018 4:28 PM
108	Early onset scoliosis	12/14/2018 3:48 PM
109	Adult and paediatric deformity	12/14/2018 2:53 PM
110	early onset	12/14/2018 2:37 PM
111	AIS	12/14/2018 2:23 PM
112	None	12/14/2018 2:18 PM
113	Adult deformity	12/14/2018 2:14 PM
114	Non-operative AIS; early onset scoliosis	12/14/2018 2:12 PM
115	Pediatric spinal deformity patients	12/14/2018 1:20 PM
116	Adults	12/14/2018 1:07 PM
117	all	12/14/2018 1:04 PM
118	I am a researcher, I do not treat patient.	12/14/2018 1:02 PM
119	EOS	12/14/2018 12:53 PM

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120	Early onset patients in need of casting	12/14/2018 12:41 PM
121	those who might qualify for tethering	12/14/2018 12:26 PM
122	Deg scoliosis	12/14/2018 12:16 PM
123	Deformity and degen	12/14/2018 12:12 PM
124	The worst cases	12/14/2018 12:12 PM
125	EOS	12/14/2018 12:05 PM
126	None specifically	12/14/2018 12:03 PM
127	Eos young patients	12/14/2018 12:00 PM
128	kids	12/14/2018 11:50 AM
129	Oldest	12/14/2018 11:48 AM
130	adult deformity age 50-80 years, no previous surgery	12/14/2018 11:43 AM
131	early onset and idiopathic scoliosis	12/14/2018 11:43 AM
132	Deformity	12/14/2018 11:38 AM
133	Brace age patients with significant (40 degree) curves	12/14/2018 11:35 AM
134	All....we're better clinicians within research, clinical experience and exchanges, as well as increased patient driven information	12/14/2018 11:17 AM
135	severe deformity patients	12/14/2018 11:10 AM
136	Adolescents	12/14/2018 11:07 AM
137	Pediatric	12/14/2018 11:04 AM

Q8 If you did not make any changes to your practice, why not? What problems have you encountered trying to implement what you learned at the meeting?

Answered: 37 Skipped: 122

#	RESPONSES	DATE
1	N/A	1/7/2019 8:57 AM
2	There is little need to change a practice that is very close to what we learned.	1/3/2019 6:51 AM
3	The meeting didn't seem to have a great deal of novel concepts. Some of the panel discussions ultimately wound up discussing topics that have been in the literature for years already.	12/31/2018 10:56 AM
4	Same information	12/29/2018 12:12 PM
5	System engagement	12/25/2018 7:27 AM
6	recognising burn out	12/23/2018 12:29 AM
7	No comments	12/21/2018 4:02 PM
8	Availing of neuromonitoring makes me think twice about being so aggressive in correcting big rigid curves.	12/21/2018 3:48 AM
9	Changes in practice come last	12/21/2018 2:23 AM
10	I believe I will. Still early.	12/21/2018 1:40 AM
11	I made some changes	12/21/2018 12:19 AM
12	we are in process	12/20/2018 10:06 PM
13	no change	12/20/2018 9:42 PM

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14	It not depends directly Public Hospital.	12/20/2018 12:32 PM
15	No sensetional news	12/20/2018 12:03 PM
16	NA	12/20/2018 12:01 PM
17	n/a	12/20/2018 11:35 AM
18	No need for changes after the meeting	12/20/2018 11:13 AM
19	None	12/17/2018 3:42 PM
20	Resourse constraints and lack of specialised team	12/17/2018 8:56 AM
21	not applicable	12/17/2018 1:40 AM
22	n/a	12/16/2018 6:07 AM
23	NA	12/15/2018 11:13 AM
24	The meeting especially oral presentations focused way too much into adult spinal deformity AND various mathematical angles AND modelling which have very limited value for the treatment of patients	12/15/2018 2:45 AM
25	Almost same outcomes in our strategies/surgeries	12/14/2018 7:03 PM
26	Well, much has been said about patient safety, risk Management and other methodologies to improve patient outcomes so a lot although repackaged was redundant redundant, but repetition will hopefully bring about practice changes and improved patient outcomes. The only real barriers are generally from the surgeon himself in not wanting to change his practice pattern generally	12/14/2018 5:25 PM
27	Nothing	12/14/2018 4:29 PM
28	Equipment availability and efficiency	12/14/2018 4:28 PM
29	We have economic difficulties but every day we try to improve	12/14/2018 3:48 PM
30	I have been around a long time!! Hard to impress	12/14/2018 2:37 PM
31	n/a	12/14/2018 2:23 PM
32	NA	12/14/2018 2:12 PM
33	none	12/14/2018 12:26 PM
34	No problems	12/14/2018 12:03 PM
35	Web need more innovations on bio mechanics,ont not opération tx	12/14/2018 12:00 PM
36	None at preseey	12/14/2018 11:35 AM
37	I did changes	12/14/2018 11:07 AM

Q9 What is the topic or innovation that you need to hear more about?

Answered: 137 Skipped: 22

#	RESPONSES	DATE
1	Growth modulation	1/7/2019 8:57 AM
2	Syndroms	1/3/2019 6:51 AM
3	early onset scoliosis and corrective osteotomy of spine	1/2/2019 12:12 AM
4	EOS conversion to final fusion VBT neuromuscular scoliosis	1/1/2019 10:26 PM
5	Optimization of Patient outcomes based on evolving concepts of sagittal balance etc.	12/31/2018 10:56 AM
6	complex early onset deformities	12/31/2018 1:14 AM
7	Pré and Pos operations planning Rules and material for planning surgery	12/29/2018 12:12 PM
8	Magnet bars for EOS	12/26/2018 12:45 PM

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9	Evidence for safer clinical outcome	12/25/2018 7:27 AM
10	Use of new imaging systems like EOS	12/24/2018 11:02 PM
11	Guided spine deformity surgery	12/24/2018 12:41 PM
12	dysplasic spondylolisthesis	12/24/2018 12:12 PM
13	true relevance of age adjusted spino-pelvic balance	12/24/2018 11:40 AM
14	Growing rood	12/23/2018 10:32 AM
15	Minimally invasive surgical treatment of soliosis	12/23/2018 7:29 AM
16	Tehter - pros and cons	12/23/2018 7:20 AM
17	natural history of spinal deformity	12/23/2018 12:29 AM
18	Early onset scoliosis. Modern anterior approaches for deformity: when and how.	12/22/2018 7:05 AM
19	Adult Deformity and EOS	12/21/2018 7:15 PM
20	EOS conservative & surgical treatment (complications). Tethering (complications). Bracing in AIS (still valid treatment?).	12/21/2018 4:02 PM
21	ASD outcomes	12/21/2018 10:59 AM
22	not sure	12/21/2018 8:05 AM
23	Selective fusions for ASD	12/21/2018 8:02 AM
24	MIS	12/21/2018 8:00 AM
25	robotic surgery	12/21/2018 7:03 AM
26	new osteotomy which can do a lot with a little will be created	12/21/2018 6:44 AM
27	Sagittal balance	12/21/2018 6:03 AM
28	Biomechanics	12/21/2018 5:31 AM
29	preop planning	12/21/2018 4:10 AM
30	good 10 years results in EOS	12/21/2018 4:08 AM
31	new surgery tecnic	12/21/2018 4:07 AM
32	Detailed technique in doing multiple Ponte Osteotomies	12/21/2018 3:48 AM
33	Again, degenerative spinal diseases, because of my patient population	12/21/2018 3:11 AM
34	Growing rods	12/21/2018 2:23 AM
35	Computer assisted spine surgery	12/21/2018 1:40 AM
36	Cervical deformity	12/21/2018 1:40 AM
37	Deformity	12/21/2018 12:22 AM
38	complex severe scoliosis cases	12/21/2018 12:19 AM
39	ABout the right mix	12/20/2018 11:20 PM
40	EOS	12/20/2018 10:06 PM
41	more on complications less from multi center studies more from individuals	12/20/2018 9:42 PM
42	magnetic rod, and anterior tether	12/20/2018 9:27 PM
43	Practical changes we can make to come out of a mental burnout and start fresh.	12/20/2018 8:28 PM
44	Casting techniques in eos	12/20/2018 7:42 PM
45	Just continue the expert panels. They are very helpful	12/20/2018 6:58 PM
46	3D planning	12/20/2018 6:32 PM
47	Navigation	12/20/2018 6:32 PM
48	Complications, preoperative optimization and outcomes, aging spine issues	12/20/2018 5:43 PM

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49	fusion levels	12/20/2018 5:23 PM
50	Non fusion techniques	12/20/2018 4:42 PM
51	MIS	12/20/2018 4:28 PM
52	AVBT	12/20/2018 4:04 PM
53	Long term outcome and HRQOL in AIS patients treated with and without surgery	12/20/2018 2:57 PM
54	adult spinal deformity	12/20/2018 2:32 PM
55	nonop. strategies	12/20/2018 2:21 PM
56	The focus on physician well being which translates into improved Pt care	12/20/2018 1:17 PM
57	The integration of value into medical and surgical planning.	12/20/2018 1:12 PM
58	Non-fusion scoliosis correction options	12/20/2018 12:46 PM
59	growing spine techniques	12/20/2018 12:44 PM
60	Miss for idiopathic scoliosis	12/20/2018 12:44 PM
61	Surgeon lifestyles	12/20/2018 12:40 PM
62	adult deformity surgical management and complications	12/20/2018 12:32 PM
63	Conservative treatment	12/20/2018 12:19 PM
64	Treatment of early onset scoliosis	12/20/2018 12:11 PM
65	lower impant density strategies	12/20/2018 12:07 PM
66	Robotics	12/20/2018 12:03 PM
67	NAP	12/20/2018 12:01 PM
68	new models of braces	12/20/2018 11:43 AM
69	Any method of minimally invasive spine surgery in the management of deformity	12/20/2018 11:40 AM
70	robotic assist	12/20/2018 11:37 AM
71	early detection and research about etiology of AIS	12/20/2018 11:35 AM
72	Cervical spine	12/20/2018 11:20 AM
73	Complications	12/20/2018 11:17 AM
74	Tethering	12/20/2018 11:15 AM
75	New device for early onset scoliosis	12/20/2018 11:13 AM
76	Really no new topics	12/20/2018 11:13 AM
77	Any	12/19/2018 12:59 PM
78	complications	12/18/2018 9:45 AM
79	evidence-based long-term outcomes for patienrs undergoing selective thoracic fusion	12/18/2018 6:53 AM
80	Fusion levels and why	12/17/2018 8:41 PM
81	Basic spine biomechanics - most attendees clueless	12/17/2018 4:11 PM
82	Growth modulation	12/17/2018 3:42 PM
83	Growth modulation, indications and complications	12/17/2018 10:51 AM
84	Infantile and EOS. Conservative surgeries for Adult deformity.	12/17/2018 8:56 AM
85	Clarification of safe indications for fragile patients	12/17/2018 3:13 AM
86	Bracing and new technologies for risk assessment in order to prevent surgery in children and adults	12/17/2018 1:40 AM
87	More on fusionless surgeries	12/16/2018 7:38 PM
88	early onset scoliosis	12/16/2018 9:56 AM

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89	Natural Prognosis of neurological complication in scoliosis	12/16/2018 6:56 AM
90	anything interesting	12/16/2018 6:07 AM
91	debates on controversies	12/16/2018 12:51 AM
92	Issues surrounding MCGR's	12/15/2018 11:13 AM
93	not sure	12/15/2018 8:53 AM
94	Adult Scoliose Vertébrale osteotomy	12/15/2018 7:35 AM
95	Robotic Assistant Surgery	12/15/2018 7:33 AM
96	Long term studies on ais 10+ years in Pericles screw era	12/15/2018 6:52 AM
97	Early onset scoliosis	12/15/2018 4:49 AM
98	Early onset scoliosis, neuromuscular scoliosis, AIS, spondylolisthesis, cervical Spine	12/15/2018 2:45 AM
99	Bracing	12/15/2018 2:43 AM
100	New motion preserving techniques in pediatric scoliosis	12/15/2018 1:23 AM
101	Conservative treatment including cast, Halo-traction, and brace	12/14/2018 7:03 PM
102	New technique and innovation to more better outcome	12/14/2018 6:07 PM
103	Long term natural history of nonop and operative treatment of Scoliosis. Current treatment of tumors including team approach to treatment, focused radiation outcomes, improvements in chemo. Etc. more on the appropriate use of tethering in AIS, indications, techniques and outcomes. A symposium, ICL on other causes of deformity; NM, syndtomic, dwarfism etc.	12/14/2018 5:25 PM
104	How to prevent proximal junctional kyphosis of adult spinal deformity surgeries ? How to prevent rod fractures of adult spinal deformity surgeries ?	12/14/2018 4:57 PM
105	Complex cases - possible solutions - display of different paths to achieve success	12/14/2018 4:36 PM
106	Neuromuscular spine	12/14/2018 4:29 PM
107	Better radioimaging technology	12/14/2018 4:28 PM
108	Navigation and magnetic growing rods	12/14/2018 3:48 PM
109	Nonfusion options in deformity	12/14/2018 2:53 PM
110	Genetics, molecular biology, understanding of natural history	12/14/2018 2:37 PM
111	surgical techniques in pediatrics	12/14/2018 2:23 PM
112	Image guidance and robotics	12/14/2018 2:18 PM
113	Congenital spine deformities	12/14/2018 2:14 PM
114	.	12/14/2018 2:12 PM
115	Pediatric deformity	12/14/2018 1:20 PM
116	Biologics	12/14/2018 1:07 PM
117	more on wellness and burnout	12/14/2018 1:04 PM
118	I want to know more about emerging technics and innovation	12/14/2018 1:02 PM
119	Preservation of spine flexibility after surgery.	12/14/2018 12:53 PM
120	Growth modulation of the spine	12/14/2018 12:41 PM
121	tethering	12/14/2018 12:26 PM
122	Cervical balance	12/14/2018 12:16 PM
123	mis	12/14/2018 12:12 PM
124	Early in set scoliosis	12/14/2018 12:12 PM
125	EOS	12/14/2018 12:05 PM
126	Navigation and robotics Pros and Cons	12/14/2018 12:03 PM

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127	Idem previous question	12/14/2018 12:00 PM
128	more peds spine	12/14/2018 11:50 AM
129	Per operative spine balance control	12/14/2018 11:48 AM
130	gait studies in the adults with AIS Explore the neuromuscular components of pelvic parameters that continue to influence complex activities like walking	12/14/2018 11:43 AM
131	growth modulation	12/14/2018 11:43 AM
132	Saggital balance	12/14/2018 11:38 AM
133	Use of tethering	12/14/2018 11:35 AM
134	Team approach, shared decision making with patients.	12/14/2018 11:17 AM
135	vertebral tethering	12/14/2018 11:10 AM
136	Thoracoscopic application	12/14/2018 11:07 AM
137	Vertebral body tethering, non surgical idiopathic scoliosis treatments.	12/14/2018 11:04 AM