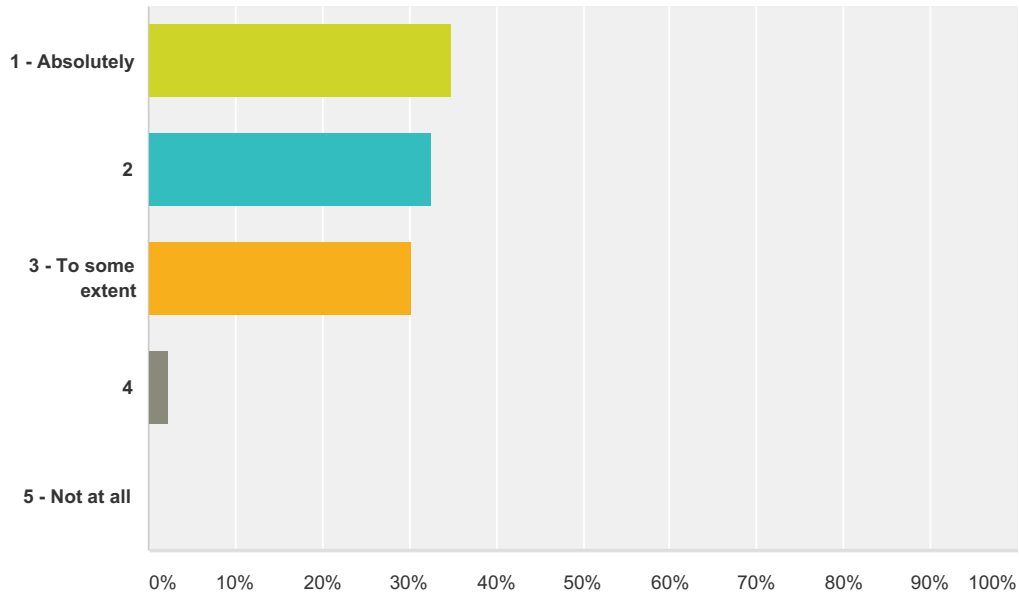


Q1 As a result of attending this meeting, do you feel you have improved-knowledge regarding the appropriate indications for spinal surgery?

Answered: 135 Skipped: 0

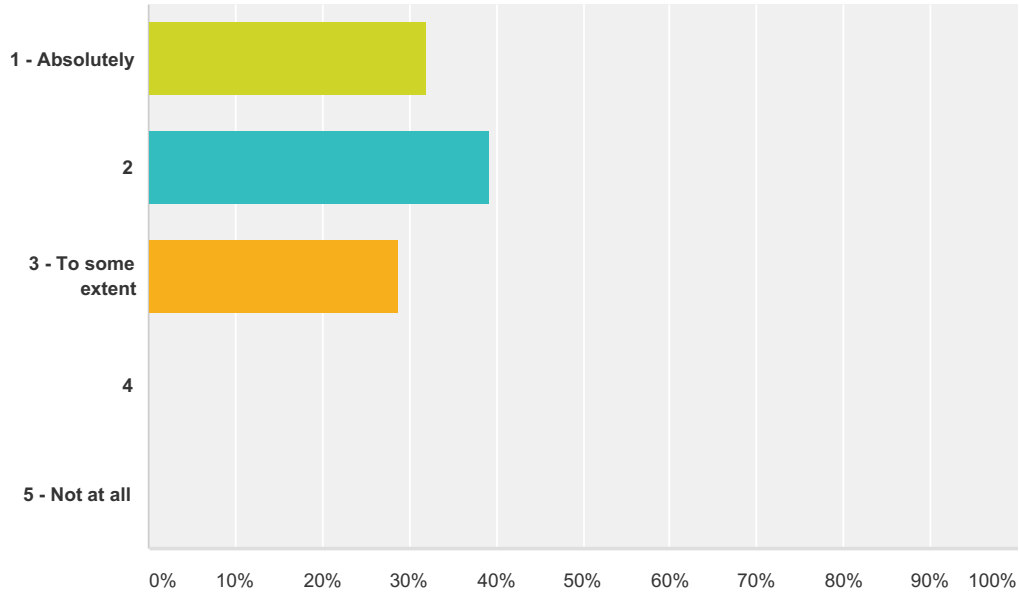


Answer Choices	Responses
1 - Absolutely	34.81% 47
2	32.59% 44
3 - To some extent	30.37% 41
4	2.22% 3
5 - Not at all	0.00% 0
Total	135

#	Comments:	Date
1	The session on cervical myelopathy was excellent	12/21/2016 11:38 AM
2	Being a PT some topics not as applicable.	12/8/2016 10:54 AM
3	Becoming more clear on indications of adult degenerate scoliosis and kyphosis surgical procedures with emphasis on kyphosis.	12/7/2016 3:54 PM
4	Because some cannot be applied yet in our own setting	12/2/2016 5:08 PM

Q2 As a result of attending this meeting, do you feel you have improved-knowledge regarding the appropriate indications for various treatment options available?

Answered: 135 Skipped: 0

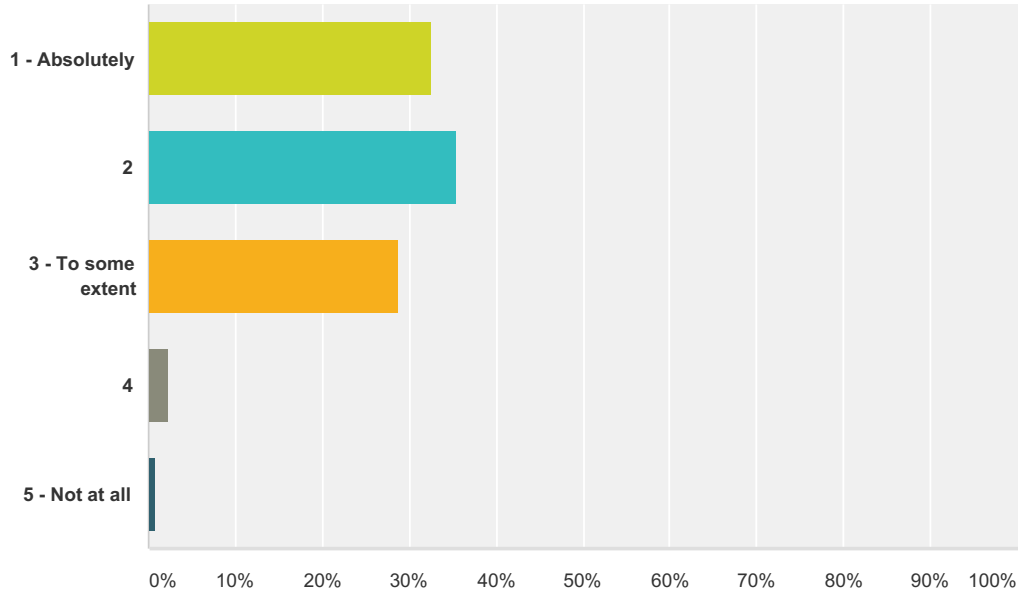


Answer Choices	Responses
1 - Absolutely	31.85% 43
2	39.26% 53
3 - To some extent	28.89% 39
4	0.00% 0
5 - Not at all	0.00% 0
Total	135

#	Comments:	Date
1	Being a PT some topics not as applicable.	12/8/2016 10:54 AM
2	In the treatment surgically of degenerative spondylitis thesis I gained new insight to predicting progressive scoliosis above fusion.	12/7/2016 3:54 PM
3	On selected and more common cases,...eg. Thoracolumbar trauma, IAS..	12/2/2016 5:08 PM

Q3 Did this meeting impart clinical knowledge, which is helping you provide better care for your patients in the initial evaluation?

Answered: 135 Skipped: 0

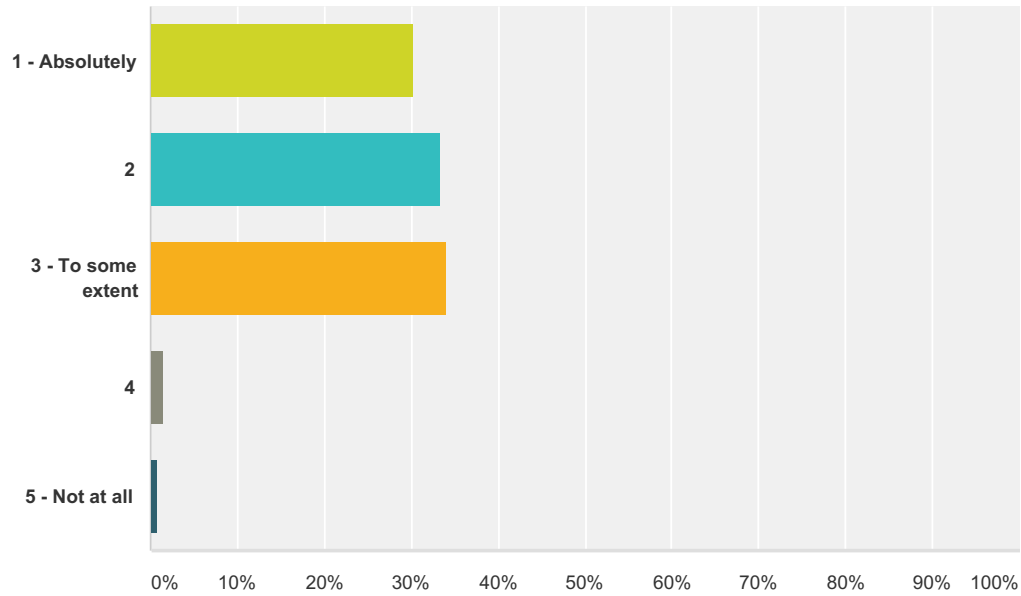


Answer Choices	Responses
1 - Absolutely	32.59% 44
2	35.56% 48
3 - To some extent	28.89% 39
4	2.22% 3
5 - Not at all	0.74% 1
Total	135

#	If yes, please provide an example.	Date
1	Reinforced need for long cassette radiographs to evaluate lumbar spine fusion patients. Learned about opportunistic CT to evaluate bone density for spinal fusion candidates.	1/6/2017 9:57 PM
2	N/A	1/3/2017 10:56 AM
3	indications clarified	12/28/2016 8:03 AM
4	Being a PT some topics not as applicable.	12/8/2016 10:54 AM
5	Re emphasis on the importance of a detailed history and physical exam, with emphasis of evaluation of nutrition status of these often elderly patients who may be subjected to extensive and lengthy surgical procedures.	12/7/2016 3:54 PM
6	Bracing in IAS	12/2/2016 5:08 PM

Q4 Did this meeting impart clinical knowledge, which is helping you provide better care for your patients for the postoperative course?

Answered: 135 Skipped: 0

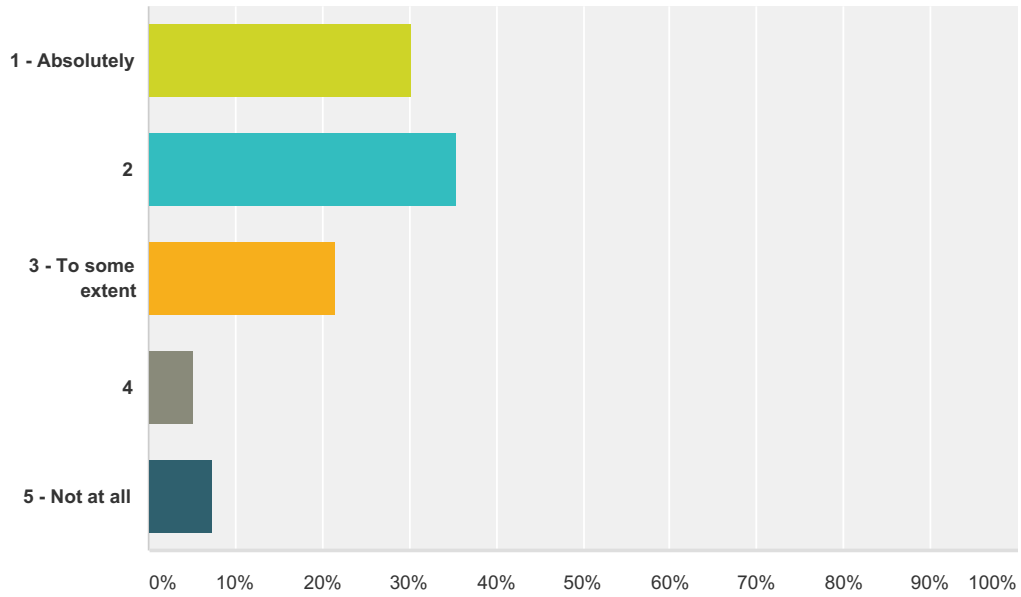


Answer Choices	Responses	
1 - Absolutely	30.37%	41
2	33.33%	45
3 - To some extent	34.07%	46
4	1.48%	2
5 - Not at all	0.74%	1
Total		135

#	If yes, please provide an example.	Date
1	Learned how to recognize post operative complications after adult deformity surgery	1/6/2017 9:57 PM
2	N/A	1/3/2017 10:56 AM
3	Emphasis on the importance of facility chosen to perform extensive degenerative spinal correction and the Importance of the quality and experience of the SICU.	12/7/2016 3:54 PM
4	Prevention of PJK	12/2/2016 5:08 PM

Q5 As a result of attending this meeting, do you feel you have a greater understanding of the various types of complications, which may occur intraoperatively and postoperatively in order to avoid and treat as necessary?

Answered: 135 Skipped: 0



Answer Choices	Responses
1 - Absolutely	30.37% 41
2	35.56% 48
3 - To some extent	21.48% 29
4	5.19% 7
5 - Not at all	7.41% 10
Total	135

#	If yes, about which complication(s) did you learn?	Date
	There are no responses.	

Q6 If yes, about which complication(s) did you learn?

Answered: 115 Skipped: 20

#	Responses	Date
1	Fixation failure in elderly patients potentially due to unrecognized decreased bone density.	1/6/2017 9:58 PM
2	Post-operative neurological deficit and junctional failure	1/5/2017 11:42 AM
3	pjk	1/5/2017 1:41 AM
4	complications in osteoporosis	1/4/2017 7:36 PM
5	PJK and PJF	1/4/2017 5:49 PM
6	PJK	1/4/2017 2:27 PM
7	infection	1/4/2017 11:59 AM
8	PJK	1/4/2017 10:24 AM
9	Neurological complications	1/4/2017 10:23 AM
10	a	1/4/2017 10:22 AM
11	Adjacent level disease	1/4/2017 10:17 AM
12	Infection ALD	1/3/2017 10:57 AM
13	PJK, Risk stratification	1/2/2017 7:50 PM
14	infection and c1-2	12/31/2016 8:29 AM
15	POst-operative complications including nonunion and junctional kyphosis and stenosis	12/29/2016 5:49 PM
16	complications on the treatment of EOS	12/28/2016 6:55 PM
17	pseudarthrosis	12/28/2016 4:38 PM
18	INFECTIONS, Motor Evoked Potencial Lost situations, positioning, sagital balance complications	12/28/2016 4:08 PM
19	spinal cord injury	12/28/2016 1:34 PM
20	surgical risks associated with patient parameters like obesity etc..	12/28/2016 1:32 PM
21	PJK, infection	12/28/2016 12:54 PM
22	spinal cord injury	12/28/2016 12:34 PM
23	n/a	12/28/2016 12:32 PM
24	PJK	12/28/2016 12:24 PM
25	Junctional problems, monitoring issues, infections	12/28/2016 12:13 PM
26	Neuro monitoring	12/28/2016 11:44 AM
27	infections	12/28/2016 9:03 AM
28	Neuro deficit	12/28/2016 8:39 AM
29	Growth considerations and complication reduction.	12/28/2016 8:14 AM
30	excesssive blood loss, overcorrection, PJK	12/28/2016 8:04 AM
31	Complication related to growth rods and treatment of spondylolisthesis	12/28/2016 7:50 AM
32	inhibition of bone formation with high dose vancomycin	12/26/2016 7:30 PM
33	Proximal junctional kyphosis	12/26/2016 4:50 PM
34	Proximal Junctional Kyphosis	12/24/2016 5:42 AM

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35	adjacent segment disease	12/24/2016 2:50 AM
36	Complications after PSO , vertebral resection & other osteotomy for deformity surgery	12/23/2016 10:16 AM
37	Sacrum fractures post long spine fusions	12/23/2016 1:51 AM
38	complications due to vertebral tethering	12/22/2016 8:36 PM
39	Infecion	12/22/2016 9:59 AM
40	tumor surgery	12/22/2016 8:32 AM
41	PJK	12/21/2016 11:46 PM
42	infection	12/21/2016 6:27 PM
43	Proximal junctional kyphosis	12/21/2016 5:22 PM
44	Malalignment	12/21/2016 4:06 PM
45	PJK	12/21/2016 12:20 PM
46	None	12/21/2016 12:16 PM
47	Neurologic	12/21/2016 12:00 PM
48	PJK	12/21/2016 11:48 AM
49	How to reduce infections thru the use of consistent teams	12/21/2016 11:40 AM
50	Pistol infections	12/21/2016 11:38 AM
51	PJK	12/21/2016 4:14 AM
52	PJK	12/17/2016 6:54 AM
53	Prevention of infection	12/17/2016 2:41 AM
54	Surgical site infections	12/15/2016 9:05 AM
55	Intraoperative neurology	12/14/2016 6:28 PM
56	n/a	12/14/2016 5:18 PM
57	PJK	12/14/2016 4:04 PM
58	sagittal imbalance	12/14/2016 3:01 PM
59	wound infections	12/14/2016 2:13 PM
60	spinal procedures and post op complications	12/14/2016 11:38 AM
61	yes	12/14/2016 11:25 AM
62	Hip dislocation rates and spine surgery	12/14/2016 11:06 AM
63	Neurologic	12/14/2016 9:58 AM
64	better understanding of preop optimization	12/14/2016 9:34 AM
65	Would prefer to not respond	12/12/2016 1:21 PM
66	Adjacent segment disease, proximal junctional kyphosis, infections, blood loss, aggravation of existing medical problems	12/9/2016 10:42 PM
67	infection	12/9/2016 11:47 AM
68	Postop infection, PJK	12/9/2016 6:19 AM
69	avoiding anterior exposure complications	12/8/2016 11:54 PM
70	PJK	12/8/2016 6:02 PM
71	VTE, Infections, PJK	12/8/2016 12:47 PM
72	PJK	12/8/2016 11:06 AM
73	PJK	12/8/2016 10:55 AM
74	various	12/8/2016 10:47 AM

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75	Infection, non-union, PJK	12/8/2016 9:53 AM
76	PJK	12/8/2016 9:51 AM
77	Intraop loss of mmep's and action to take	12/8/2016 1:10 AM
78	Pjk	12/7/2016 7:18 PM
79	Complications of cervical deformity surgery	12/7/2016 7:07 PM
80	PJK	12/7/2016 6:24 PM
81	Junctional kyphosis	12/7/2016 5:40 PM
82	vessel injury	12/7/2016 4:47 PM
83	A little about all.	12/7/2016 3:58 PM
84	The high rate of complications in the senior age group undergoing surgery for correction of degenerative spinal deformity and some of the newer thoughts on vancomycin powder as a prophylaxis to prevent infection.	12/7/2016 3:58 PM
85	neurologic injury, infection	12/7/2016 3:21 PM
86	Adult scoliosis surgery PJK	12/7/2016 10:55 AM
87	Pearls and pitfalls of MIS surgery including limitations.	12/5/2016 7:34 PM
88	Infections	12/5/2016 8:27 AM
89	Those from system's errors	12/4/2016 6:20 PM
90	postop complication rate after deformity surgery: infection, spinal cord injury....	12/3/2016 6:12 PM
91	especially ASD related	12/3/2016 6:44 AM
92	new method for scoliosis	12/2/2016 10:55 PM
93	Proximal Junctional Kyphosis, Sacral Obliquity	12/2/2016 5:11 PM
94	There was an excellent discussion of PJK.	12/2/2016 2:41 PM
95	Risk stratification and avoidance or awareness of complications in spinal deformity surgery.	12/2/2016 1:35 PM
96	Neurological	12/2/2016 11:20 AM
97	infection	12/2/2016 10:00 AM
98	complications (ex PJK, rod breakage,so on) following adult spinal deformity surgery	12/2/2016 9:25 AM
99	infection	12/2/2016 8:25 AM
100	How to manage	12/2/2016 5:02 AM
101	PJK Dural tear. Neural injury. IMPLANT FAILURE	12/1/2016 11:50 PM
102	infection	12/1/2016 9:28 PM
103	Proximal junctional kyphosis	12/1/2016 8:01 PM
104	PJKAnd DJK	12/1/2016 7:37 PM
105	cervical spondylosis	12/1/2016 7:08 PM
106	PJK, Infections, neurologic injury.etc	12/1/2016 6:55 PM
107	Infection	12/1/2016 5:27 PM
108	Post op infection risks	12/1/2016 5:24 PM
109	pjk	12/1/2016 5:03 PM
110	PJK	12/1/2016 4:49 PM
111	more about trauma complications	12/1/2016 4:34 PM
112	The meeting was so long ago, I honestly can't call any to mind at the moment. But, I will remember when they are pertinent to my practice.	12/1/2016 4:33 PM
113	Infection, neurologic complications	12/1/2016 4:27 PM

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114	Pseudoarthrosis	12/1/2016 4:07 PM
115	Proximal Junctional Kyphosis (PJK)	12/1/2016 4:07 PM

Q7 About which complications would you like to learn more?

Answered: 119 Skipped: 16

#	Responses	Date
1	PJF/PJK	1/6/2017 9:59 PM
2	Junctional failure	1/5/2017 11:43 AM
3	pjk	1/5/2017 1:42 AM
4	post-op bleed and use of anti-coagulation.	1/4/2017 7:37 PM
5	Neurological deficit	1/4/2017 5:52 PM
6	PJK	1/4/2017 2:27 PM
7	neuro injury	1/4/2017 11:59 AM
8	OLIF procedures	1/4/2017 10:25 AM
9	Neurological complications	1/4/2017 10:24 AM
10	b	1/4/2017 10:22 AM
11	Complications related to disc replacement	1/4/2017 10:19 AM
12	Not sure	1/4/2017 9:52 AM
13	Im not in clinical practice. I am a reviewer and need to understand the safety of devices, particularly the clinically significant complications.	1/3/2017 10:58 AM
14	Spinal deformity surgery in the aging population	1/2/2017 7:50 PM
15	esophageal injury	12/31/2016 8:29 AM
16	adjacent segment degeneration	12/29/2016 5:49 PM
17	Magnetic rods	12/28/2016 6:56 PM
18	none	12/28/2016 4:38 PM
19	Intra op complications, sagittal balance problems	12/28/2016 4:10 PM
20	PJK	12/28/2016 1:35 PM
21	Wound infection, delayed healing.	12/28/2016 1:33 PM
22	neurologic deficits, medical complications	12/28/2016 12:54 PM
23	spinal cord injury	12/28/2016 12:35 PM
24	intraop signals	12/28/2016 12:32 PM
25	Infections	12/28/2016 12:25 PM
26	Junctional problems	12/28/2016 12:13 PM
27	Any	12/28/2016 11:44 AM
28	surgical	12/28/2016 9:03 AM
29	Nerve injury	12/28/2016 8:39 AM
30	Growth	12/28/2016 8:14 AM
31	PJK	12/28/2016 8:04 AM
32	More long term effect in the early onset scoliosis with operative treatment	12/28/2016 7:51 AM
33	vascular injuries with MIS surgery of the anterior column	12/26/2016 7:32 PM
34	C5 nerve palsy	12/26/2016 4:50 PM

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35	..	12/24/2016 5:42 AM
36	same	12/24/2016 2:50 AM
37	Spondylolisthesis surgery , Endoscopy , OLIF , LLIF , ALIF	12/23/2016 10:20 AM
38	pseudoarthrosis	12/23/2016 1:52 AM
39	early onset scoliosis treatment complications	12/22/2016 8:36 PM
40	Neurological complicaions	12/22/2016 10:00 AM
41	boné tumors , intradural and intramedullary tumors and spine cord lesions	12/22/2016 8:33 AM
42	Managing osteoporosis in spine surgery	12/21/2016 11:47 PM
43	infection	12/21/2016 6:27 PM
44	Dural tears	12/21/2016 5:23 PM
45	Adult post op	12/21/2016 4:07 PM
46	Pain medication reactions and how to improve recovery	12/21/2016 12:37 PM
47	Adjacent segment	12/21/2016 12:18 PM
48	All	12/21/2016 12:00 PM
49	PJK rod fracture in adult deformity surgery	12/21/2016 11:49 AM
50	We're not discussed	12/21/2016 11:45 AM
51	How to reduce infection rates with the use of teams	12/21/2016 11:42 AM
52	Prevention and management of perioperative spinal cord injury	12/21/2016 11:39 AM
53	long term follow up of un treated AIS	12/21/2016 11:37 AM
54	Osteoporosis and failure of fixation	12/21/2016 4:14 AM
55	Recurrent deformity	12/17/2016 6:55 AM
56	Chest problems and rib costwctomy	12/17/2016 2:42 AM
57	The role of vancomycin powder in the prevention of SSI's	12/15/2016 9:06 AM
58	Neuromonitoring (MEP) during the operation	12/14/2016 6:29 PM
59	n/a	12/14/2016 5:19 PM
60	PJK	12/14/2016 4:04 PM
61	imbalance	12/14/2016 3:05 PM
62	neurologic complications intraop	12/14/2016 2:14 PM
63	which techniques are great for long term deformities corrections	12/14/2016 11:38 AM
64	excessive bleeding and neurological complications	12/14/2016 11:26 AM
65	Correction of scoliosis in sagittal baalance	12/14/2016 11:07 AM
66	Neurologic	12/14/2016 9:59 AM
67	ways to assess bone quality	12/14/2016 9:35 AM
68	Would prefer not to respond on survey	12/12/2016 1:21 PM
69	pseudoarthrosis and implant failure and solutions	12/9/2016 10:43 PM
70	Long-term outcomes regarding DJD of the lower lumbar segments in patients who have undergone PSF for scoliosis	12/9/2016 6:20 AM
71	anterior surgery	12/8/2016 11:55 PM
72	Pseudoarthrosis	12/8/2016 6:03 PM
73	PJK, PJF	12/8/2016 4:35 PM
74	Hard to say	12/8/2016 11:25 AM
75	Introperative neurological injury prevention and management strategies for three column osteotomies	12/8/2016 11:07 AM

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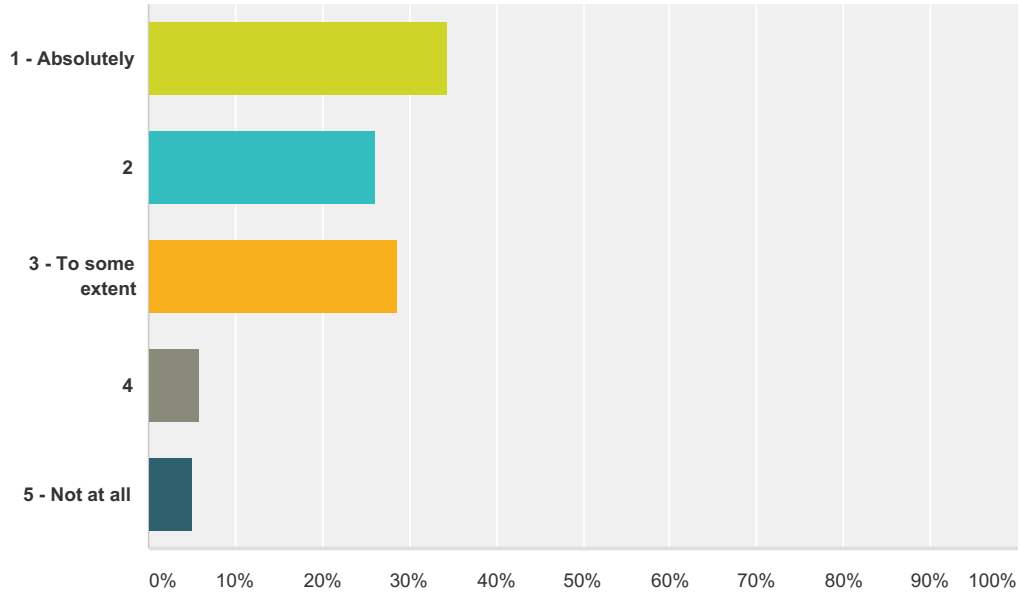
76	Sagittal balance	12/8/2016 10:56 AM
77	infection, nonunion	12/8/2016 10:48 AM
78	PJK	12/8/2016 9:53 AM
79	Non Unions	12/8/2016 9:52 AM
80	Hip dislocation after deformity correction	12/8/2016 8:33 AM
81	Neurological	12/8/2016 1:11 AM
82	Adjacent lvl disease	12/7/2016 7:20 PM
83	Complications on LLIF	12/7/2016 7:08 PM
84	pseudoarthrosis	12/7/2016 6:24 PM
85	Adult deformity	12/7/2016 5:40 PM
86	visceral injury	12/7/2016 4:48 PM
87	Cognition failure after long surgical procedures in the elderly and pre op predictors including post op narcotics, which seems to be correlated with post op cognitive impairment.	12/7/2016 4:00 PM
88	Neurologic	12/7/2016 3:59 PM
89	late reoperation	12/7/2016 3:21 PM
90	Radicular pain post surgery	12/7/2016 10:58 AM
91	Spinal osteotomies for severe deformities e.g PSO, VCR MIS surgery e.g OLIF, XLIF	12/5/2016 7:36 PM
92	pull-out strength in Reposition manoevers (severe olisthesis, Apex scoliosis)	12/5/2016 8:32 AM
93	Same as prior	12/4/2016 6:20 PM
94	PJK	12/3/2016 6:12 PM
95	minimally invasive techniques	12/3/2016 6:45 AM
96	About new instrument	12/2/2016 10:56 PM
97	Deformity and Trauma surgery?	12/2/2016 5:18 PM
98	PJK	12/2/2016 2:42 PM
99	Delayed Post Operative Neurologic Deficits	12/2/2016 1:36 PM
100	Pseudarthrosis	12/2/2016 11:21 AM
101	pjk	12/2/2016 10:00 AM
102	PJK	12/2/2016 9:26 AM
103	pjs	12/2/2016 8:26 AM
104	na	12/2/2016 6:59 AM
105	Neural deterioration postoperatively	12/1/2016 11:51 PM
106	neurological deficits	12/1/2016 9:29 PM
107	implant failure in ASD (especially rod fracture) iliac screw v.s. S2Al screw	12/1/2016 8:03 PM
108	Post op infection	12/1/2016 7:37 PM
109	Dynamic fixation devices	12/1/2016 7:09 PM
110	Prevention of infections, Intraopertative complications, non-unions.	12/1/2016 6:56 PM
111	Infection	12/1/2016 5:28 PM
112	DVT	12/1/2016 5:24 PM
113	pjk	12/1/2016 5:03 PM
114	DJK	12/1/2016 4:49 PM
115	medicolegal issues	12/1/2016 4:34 PM

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116	post-laminectomy syndrome	12/1/2016 4:34 PM
117	Neurologic complications	12/1/2016 4:27 PM
118	Neurologic	12/1/2016 4:08 PM
119	N/A	12/1/2016 4:07 PM

Q8 As a result of attending this meeting, have you taken the knowledge gained and applied that knowledge to your practice of treating various types of patients requiring spinal deformity surgery?

Answered: 119 Skipped: 16



Answer Choices	Responses	
1 - Absolutely	34.45%	41
2	26.05%	31
3 - To some extent	28.57%	34
4	5.88%	7
5 - Not at all	5.04%	6
Total		119

#	If yes, what changes have you made and which patients have been affected?	Date
	There are no responses.	

Q9 If yes, what changes have you made and which patients have been affected?

Answered: 108 Skipped: 27

#	Responses	Date
1	I am more attentive to PI-LL mismatch in adult degenerative patients that may result in unrecognized creation of deformity if the sagittal plane is underappreciated.	1/6/2017 10:00 PM
2	Better understanding of the transition zone in junctional kyphosis	1/5/2017 11:43 AM
3	nil	1/5/2017 1:42 AM
4	Adult deformity	1/4/2017 5:52 PM
5	PJK prevention	1/4/2017 2:27 PM
6	preventing infection in high risk patients using more abx	1/4/2017 11:59 AM
7	Less correction for older spinal deformity patients	1/4/2017 10:26 AM
8	using neuromonitoring	1/4/2017 10:24 AM
9	none	1/4/2017 10:22 AM
10	We have Inc. more interior/posterior approaches	1/4/2017 10:20 AM
11	More in depth discussions with patients regarding perioperative risks associated with complex deformity surgery in adults.	1/2/2017 7:59 PM
12	recognition and early treatment of complications	12/31/2016 8:29 AM
13	Preoperative optimization	12/29/2016 5:49 PM
14	EOS patients	12/28/2016 6:56 PM
15	m	12/28/2016 4:38 PM
16	Positioning, intraop bleeding care, sagittal and coronal balance tips	12/28/2016 4:10 PM
17	ASD patients	12/28/2016 1:35 PM
18	Better preop. medical prep. of patients.	12/28/2016 1:35 PM
19	proximal fixation techniques	12/28/2016 12:54 PM
20	n/a	12/28/2016 12:33 PM
21	Take PJK into account	12/28/2016 12:25 PM
22	Preop planning is more thorough	12/28/2016 12:14 PM
23	N/A	12/28/2016 11:45 AM
24	high risk	12/28/2016 9:03 AM
25	More neuromonitoring	12/28/2016 8:39 AM
26	Considering growth in deformity correction.	12/28/2016 8:14 AM
27	not as aggressive at corrections	12/28/2016 8:05 AM
28	Post op management with emphasis on decrease in hospital stay	12/28/2016 7:52 AM
29	Adequate pre-operative planning for patients with spinal deformities	12/26/2016 4:51 PM
30	Being more vigilant about it.	12/24/2016 5:42 AM
31	surgical technique	12/24/2016 2:51 AM
32	Better practice on Scoliosis Surgery	12/23/2016 10:22 AM
33	scoliosis	12/23/2016 1:52 AM

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34	Able to offer other surgical solutions to scoliosis besides posterior spinal fusion	12/22/2016 8:37 PM
35	...	12/22/2016 10:00 AM
36	some tips and tricks to avoid complications in osteotomies	12/22/2016 8:34 AM
37	Counseling patients	12/21/2016 11:47 PM
38	increased TXA dosage	12/21/2016 6:27 PM
39	Deg scoliosis patients	12/21/2016 5:23 PM
40	Better planning	12/21/2016 4:07 PM
41	More options	12/21/2016 12:37 PM
42	None	12/21/2016 12:18 PM
43	Less aggressive approach	12/21/2016 12:01 PM
44	interbody fusion to decrease rod fracture rate	12/21/2016 11:49 AM
45	Process in the OR	12/21/2016 11:45 AM
46	We are trying to minimize medical errors and provide better care	12/21/2016 11:42 AM
47	Managing PJK	12/21/2016 11:39 AM
48	EOS patients	12/21/2016 4:15 AM
49	Do not operate on adult deformity patients with underlying neurologic disease	12/17/2016 6:55 AM
50	Proper surgical planning of the choosen vertebrae	12/17/2016 2:43 AM
51	Strategies to decrease the incidence of SSI's for all operative patients.	12/15/2016 9:07 AM
52	Preoperative evaluation	12/14/2016 6:29 PM
53	nutritional considerations	12/14/2016 5:19 PM
54	I was convinced that the MIS approach for spinal deformity surgery was not enough.	12/14/2016 4:06 PM
55	all the above	12/14/2016 3:05 PM
56	surgical indications for CP patients	12/14/2016 2:14 PM
57	i work with best surgeons its great to have an insight about how other do procedures	12/14/2016 11:39 AM
58	more discussion about osteotomies and PVCR complications is needed	12/14/2016 11:27 AM
59	Change the way we take x rays to always include the hips	12/14/2016 11:07 AM
60	Post op care protocols	12/14/2016 9:59 AM
61	understanding of sagittal balance continues to emerge	12/14/2016 9:36 AM
62	Would prefer not to respond on survey	12/12/2016 1:21 PM
63	selection of patients for operation	12/9/2016 10:43 PM
64	vessel protection during lateral surgery	12/8/2016 11:55 PM
65	ICBG	12/8/2016 6:04 PM
66	Closely evaluating	12/8/2016 4:35 PM
67	Indications	12/8/2016 11:25 AM
68	Older patients with comorbidities- I evaluate their nutrition preoperatively	12/8/2016 11:08 AM
69	better able to identify patients not eligible for conservative care and recommending them for surgical consult	12/8/2016 10:56 AM
70	More formalized protocols for infection prevention	12/8/2016 9:53 AM
71	Use BMP	12/8/2016 9:52 AM
72	Using c arm while closing my VCR's	12/8/2016 1:12 AM
73	None	12/7/2016 7:20 PM
74	PJK avoidance strategies	12/7/2016 6:25 PM

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75	Risk factors in complications Great numbers of patients.	12/7/2016 5:41 PM
76	prefer LIF procedure	12/7/2016 4:48 PM
77	Tendency to more conservative treatment with the goal of subjecting fewer patients to surgical trauma especially those elderly patients with co morbidly such as diabetes , smoking, renal disease and pulmonary and cardiac disease.	12/7/2016 4:03 PM
78	using value and safety judgements	12/7/2016 3:59 PM
79	blood loss management	12/7/2016 3:21 PM
80	More MISS, less open adult scoliosis surgery	12/7/2016 11:00 AM
81	It did not change my approach in a big way. I'm very much interested w/ MIS though the system is not yet available in my country (Philippines) I think it is the way to go now.	12/5/2016 7:40 PM
82	I did not Change anything, but I got some confirmation	12/5/2016 8:35 AM
83	Continued to incorporate changes into practice	12/4/2016 6:20 PM
84	Patient education	12/3/2016 6:12 PM
85	ASD patients. Sagittal rebalancing plans done more accurately	12/3/2016 6:46 AM
86	i am not a Surgeon	12/2/2016 10:57 PM
87	Tried the minimally invasive scoliosis surgery	12/2/2016 5:19 PM
88	pjk	12/2/2016 2:42 PM
89	I am paying more attention to options for the growing spine including a realistic look at growth modulation.	12/2/2016 1:37 PM
90	None of significance	12/2/2016 11:21 AM
91	intraop abx scoli pts	12/2/2016 10:00 AM
92	clinical and research	12/2/2016 9:26 AM
93	patient system	12/2/2016 8:26 AM
94	Vitamin D	12/2/2016 6:59 AM
95	Patients with Spinal deformities. Preop planning, intraop and postoperative management	12/1/2016 11:53 PM
96	greater attention to sagittal balance	12/1/2016 9:29 PM
97	rod contour at proximal end	12/1/2016 8:05 PM
98	Pre op planning for adult deformity corrections	12/1/2016 7:39 PM
99	outcome score	12/1/2016 7:09 PM
100	Safety	12/1/2016 6:56 PM
101	OR Procedures	12/1/2016 5:25 PM
102	patient choice	12/1/2016 5:03 PM
103	Prevention strategy for pjk	12/1/2016 4:50 PM
104	I rarely do spinal deformity surgery	12/1/2016 4:35 PM
105	?	12/1/2016 4:34 PM
106	Neuromonitoring protocol	12/1/2016 4:28 PM
107	Unfortunately I'm just a researcher and therefor my understanding doesn't impact patient care directly. However, some project/protocol start to be created following the meeting.	12/1/2016 4:09 PM
108	Screening preoperatively and patient selection process.	12/1/2016 4:07 PM

Q10 What problems or issues in your practice would you like our continuing medical education programs to address?

Answered: 112 Skipped: 23

#	Responses	Date
1	Cervical deformity, adult deformity, PJK/PJF, MIS surgery (strengths and limitations).	1/6/2017 10:03 PM
2	Approaching the complex patient, multi-team approach, guidelines	1/5/2017 11:46 AM
3	patient selection	1/5/2017 1:43 AM
4	Complications	1/4/2017 6:38 PM
5	PJK	1/4/2017 2:27 PM
6	fusion less surgery growth modulation	1/4/2017 12:00 PM
7	Patient selection for ASD	1/4/2017 10:28 AM
8	management of deformity with poor bone stock	1/4/2017 10:27 AM
9	AIS	1/4/2017 10:23 AM
10	Biological advances	1/4/2017 10:22 AM
11	When to intervene in patients with early onset neuromuscular scoliosis. When not to intervene in patients with early onset neuromuscular scoliosis	1/4/2017 9:55 AM
12	N/A	1/3/2017 10:59 AM
13	Better understanding of junctional complications, Cervicothoracic, thoracolumbar and lumbosacral, prevention and treatment strategies.	1/2/2017 8:03 PM
14	infections	12/31/2016 8:30 AM
15	Enhancing value of surgery	12/29/2016 5:50 PM
16	Complications of MIS	12/28/2016 6:57 PM
17	none	12/28/2016 4:39 PM
18	Positioning, sagittal balance, curve correction techniques	12/28/2016 4:11 PM
19	Quality of life after surgery for de novo deformity in elderly patients -which is very good in my experience. Assessment of the desirable sagittal profile given different needs in sitting and standing positions.	12/28/2016 1:42 PM
20	PJK	12/28/2016 1:36 PM
21	N/A	12/28/2016 12:55 PM
22	n/a	12/28/2016 12:33 PM
23	Sagittal imbalance	12/28/2016 12:26 PM
24	Application of new technology into practice	12/28/2016 12:16 PM
25	N/A	12/28/2016 11:45 AM
26	surgical complications	12/28/2016 9:05 AM
27	Neuromonitoring	12/28/2016 8:40 AM
28	Growth Adult deformity indications	12/28/2016 8:15 AM
29	PJK	12/28/2016 8:05 AM
30	Perioperative management of difficult patients	12/28/2016 7:54 AM
31	principles of cervical deformity management	12/26/2016 7:33 PM
32	Tuberculosis of the spine	12/26/2016 4:52 PM

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33	Assessing patients and surgical indications	12/24/2016 5:44 AM
34	cervical deformity	12/24/2016 2:52 AM
35	Oncology Surgery , Deformity surgery , Spondylolisthesis surgery	12/23/2016 10:26 AM
36	spondylolisthesis (high grade)	12/23/2016 1:53 AM
37	vertebral tethering--compliance, FDA approval, complications, indications	12/22/2016 8:39 PM
38	EOS and Adult Deformity	12/22/2016 10:01 AM
39	videos sessions with tips and ticks	12/22/2016 8:36 AM
40	None	12/21/2016 11:48 PM
41	infection	12/21/2016 6:28 PM
42	Deg scoliosis	12/21/2016 5:25 PM
43	Patient selection and optimization adult	12/21/2016 4:07 PM
44	Scoliosis care	12/21/2016 12:39 PM
45	Adjacent segment	12/21/2016 12:22 PM
46	True honest outcomes	12/21/2016 12:02 PM
47	PJK	12/21/2016 11:50 AM
48	Harm by chiropractors	12/21/2016 11:47 AM
49	Degen spondy	12/21/2016 11:44 AM
50	Traumatic spinal cord injury Cervical myelopathy Perioperative spinal cord injury Metastatic spine	12/21/2016 11:42 AM
51	MCGR	12/21/2016 11:38 AM
52	Problems in developing countries	12/21/2016 4:16 AM
53	cost effectiveness	12/17/2016 6:57 AM
54	Control of infection Post operative neurological complications	12/17/2016 2:45 AM
55	1. Magnetically controlled growing rods in early onset scoliosis. 2. Vancomycin powder in EOS and other segmental spinal instrumentation constructs.	12/15/2016 9:48 AM
56	Preoperative surgical plannig	12/14/2016 6:31 PM
57	I want to know more technical tips and pitfall for spinal deformity surgery.	12/14/2016 4:11 PM
58	billing	12/14/2016 3:06 PM
59	complications in neuromuscular scoliosis	12/14/2016 2:16 PM
60	great lectures	12/14/2016 11:39 AM
61	sagittal balance and complications of osteotomies and PVCR	12/14/2016 11:30 AM
62	Radicular pain after surgery	12/14/2016 11:08 AM
63	Best practice guidelines	12/14/2016 10:00 AM
64	Do MIS fusions really fuse?	12/14/2016 9:48 AM
65	n/a	12/12/2016 1:22 PM
66	biomechanics, recent technological advancements	12/9/2016 10:44 PM
67	lateral surgery complications	12/8/2016 11:55 PM
68	Biologics	12/8/2016 6:06 PM
69	SI joint problems and treatment.	12/8/2016 4:37 PM
70	Not sure	12/8/2016 11:26 AM
71	bio mechanics, impact of low tone, joint hypermobility and its impacts on pain, bracing, exercises and post surgical	12/8/2016 11:12 AM
72	Delineating the limitations of MIS	12/8/2016 11:10 AM

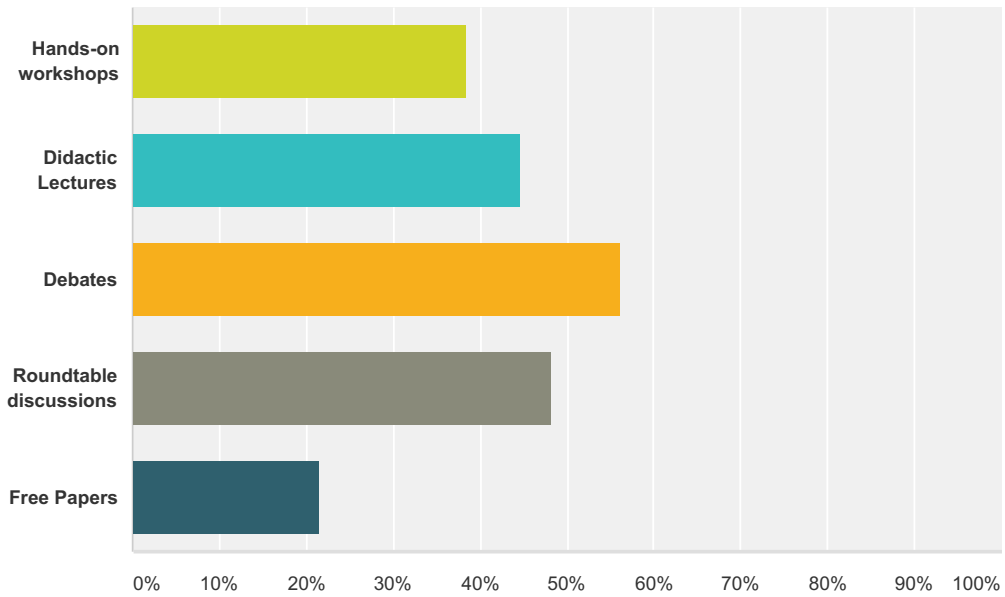
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73	n/a	12/8/2016 10:49 AM
74	Early onset - best long term strategies	12/8/2016 9:54 AM
75	adult deformity	12/8/2016 9:53 AM
76	New concept for sagittal deformity	12/8/2016 8:35 AM
77	Costs of treating deformity patients. Defending treatment to payers	12/8/2016 1:16 AM
78	Adjacent lvl dz	12/7/2016 7:22 PM
79	pseudoarthrosis in patients with osteodiscitis	12/7/2016 6:26 PM
80	.	12/7/2016 5:42 PM
81	surgical complications and how to avoid them	12/7/2016 4:53 PM
82	Long term double blinded surgical versus non surgical studies to determine the best patients to select for surgery.	12/7/2016 4:07 PM
83	Indications	12/7/2016 4:00 PM
84	early onset spinal deformity	12/7/2016 3:24 PM
85	Lern more about MISS	12/7/2016 11:02 AM
86	Low Back pain, and degenerative condition because majority of my patients belongs to this group	12/5/2016 7:44 PM
87	lumbar-sacral Joint, adjacent Segment. etc.	12/5/2016 8:48 AM
88	systems issues	12/4/2016 6:21 PM
89	patient education brochure from SRS	12/3/2016 6:14 PM
90	continue with risk statification issues. I personally would like to see Differentiation of ASD studies into etiologies: differentiate between Primary and secondary deformity.	12/3/2016 6:48 AM
91	new technique for new instruments	12/2/2016 11:06 PM
92	Adult degenerative deformity and spondylolisthesis	12/2/2016 2:43 PM
93	Post op care Rate and cause of DPND Best ways to do complex cases.	12/2/2016 1:39 PM
94	Natural history	12/2/2016 11:23 AM
95	support from hospital	12/2/2016 10:01 AM
96	Cost-effective of surgery for adult spinal deformity Long-term outcome Complication management	12/2/2016 9:28 AM
97	Adult defomrity	12/2/2016 8:26 AM
98	No suggestions	12/2/2016 7:00 AM
99	PER INFECTIOUS SPINAL DISORDERS	12/1/2016 11:55 PM
100	optimal treatment for the surgical candidate that has osteoporosis	12/1/2016 9:31 PM
101	no	12/1/2016 8:12 PM
102	Osteoporotic spine	12/1/2016 7:42 PM
103	scoliosis surgery/ pediatric spine trauma	12/1/2016 7:11 PM
104	Screening High Risk Patients for Potential Surgery, Improving long term surgical outcomes, Improving Pateint Safety Following Surgery, Risk Stratification	12/1/2016 7:04 PM
105	Reducing radiation exposure in pediatric patients	12/1/2016 5:26 PM
106	decision making	12/1/2016 5:04 PM
107	Education for fellows and residents	12/1/2016 4:52 PM
108	medicolegal	12/1/2016 4:35 PM
109	opiate addiction	12/1/2016 4:34 PM
110	Complications	12/1/2016 4:28 PM
111	I don't have a practice sorry.	12/1/2016 4:13 PM

112	Postoperative monitoring/outcome measures	12/1/2016 4:09 PM
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Q11 Which formats are best to obtain knowledge in the areas you need to better take care of your patients

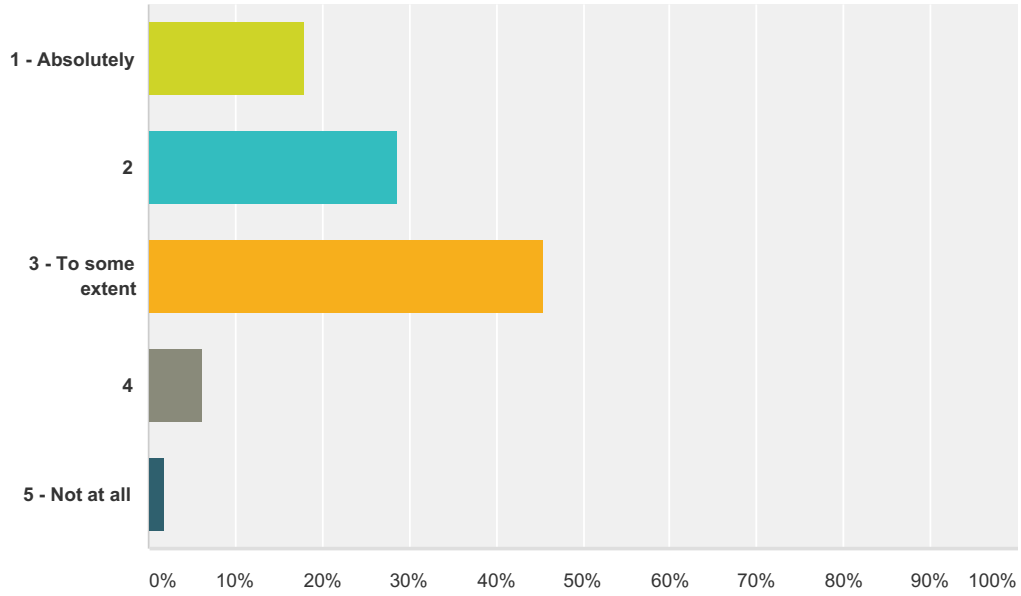
Answered: 112 Skipped: 23



Answer Choices	Responses	Count
Hands-on workshops	38.39%	43
Didactic Lectures	44.64%	50
Debates	56.25%	63
Roundtable discussions	48.21%	54
Free Papers	21.43%	24
Total Respondents: 112		

Q12 Do you think there was enough information provided with respect to conditions treated in other parts of the world?

Answered: 112 Skipped: 23



Answer Choices	Responses
1 - Absolutely	17.86% 20
2	28.57% 32
3 - To some extent	45.54% 51
4	6.25% 7
5 - Not at all	1.79% 2
Total	112

**Q13 Please provide general comments
regarding IMAST and suggest how it might
be improved:**

Answered: 112 Skipped: 23

#	Responses	Date
1	Keep addressing new technologies (Pros and Cons). Continue to address the newer solutions (pros and cons) to established disease processes and deformity. Continue to maintain objectivity and a sound scientific methodology.	1/6/2017 10:03 PM
2	More case sessions	1/5/2017 11:46 AM
3	this meeting was poorly attended. the halls were virtually empty	1/5/2017 1:43 AM
4	More debaes shuod be needed.	1/4/2017 6:38 PM
5	Less 2 min presentations	1/4/2017 2:27 PM
6	great meeting needs a bit more focus	1/4/2017 12:00 PM
7	Very little to change in present format	1/4/2017 10:28 AM
8	More workshops/roundtable discssions	1/4/2017 10:27 AM
9	great meeting	1/4/2017 10:23 AM
10	Overall I would give this IMAST meeting an A-. This remains one of my favorite meetings to attend.	1/4/2017 10:22 AM
11	Great meeting. Thoroughly enjoyed it. No recommendations to make.	1/4/2017 9:55 AM
12	I appreciated the lack of bias.	1/3/2017 10:59 AM
13	IMAST should keep its format of providing the latest information on advanced surgical techniques irrespective of geographical and resource differences. Regional variations should be covered in the various worldwide courses that are offered each year in various parts of the world.	1/2/2017 8:03 PM
14	doing great job	12/31/2016 8:30 AM
15	More time for discussions	12/29/2016 5:50 PM
16	Very nice work of program committee	12/28/2016 6:57 PM
17	it was great	12/28/2016 4:39 PM
18	Great meeting so far	12/28/2016 4:11 PM
19	None, you are doing pretty well.	12/28/2016 1:42 PM
20	Less overlap with AM	12/28/2016 1:36 PM
21	N/A	12/28/2016 12:55 PM
22	n/a	12/28/2016 12:33 PM
23	Great meeting, needs more debates in my view	12/28/2016 12:26 PM
24	Fewer overlapping sessions to choose from.	12/28/2016 12:16 PM
25	N/A	12/28/2016 11:45 AM
26	it is a great meeting	12/28/2016 9:05 AM
27	It is good	12/28/2016 8:40 AM
28	Fine for now.	12/28/2016 8:15 AM
29	Keep outside US	12/28/2016 8:05 AM
30	no suggestions	12/28/2016 7:54 AM
31	I think the use of debates is very effective	12/26/2016 7:33 PM
32	Great platform to update oneself with advancement in the field of spine.	12/26/2016 4:52 PM

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33	I think access to the lectures as mentioned in the meeting would be good. That way I could go over the talks that I found interesting and even the talks that I missed due to conflicts in the schedule but sounded like good talks to attend.	12/24/2016 5:44 AM
34	none	12/24/2016 2:52 AM
35	To increase cadaveric training , workshops courses on deformity surgery , more training on malignant tumors of the spine	12/23/2016 10:26 AM
36	great speakers, keep it up	12/23/2016 1:53 AM
37	Very good mix of both adult and pediatric spine surgery techniques, complications, and "what's new" in didactic, round table, and discussion format.	12/22/2016 8:39 PM
38	Could be more international/global in perspective	12/22/2016 10:01 AM
39	i think that current format is good	12/22/2016 8:36 AM
40	It was a great meeting.	12/21/2016 11:48 PM
41	more on infection	12/21/2016 6:28 PM
42	Provide more better food	12/21/2016 5:25 PM
43	Na	12/21/2016 4:07 PM
44	Though I am not a physician my overall experience was excellent.	12/21/2016 12:39 PM
45	None	12/21/2016 12:22 PM
46	More involvement from the folks that are not the consensus leaders	12/21/2016 12:02 PM
47	great meeting	12/21/2016 11:50 AM
48	None	12/21/2016 11:47 AM
49	This is a well run meeting. At times I do feel that we have too many concurrent sessions.	12/21/2016 11:44 AM
50	Try to reach out to neurosurgeons more	12/21/2016 11:42 AM
51	more variety in the papers	12/21/2016 11:38 AM
52	Consider changing date to earlier on in the year	12/21/2016 4:16 AM
53	Reduce simultaneous activities	12/17/2016 6:57 AM
54	More debates	12/17/2016 2:45 AM
55	Symposia addressing regional concerns when IMAST is in an international location.	12/15/2016 9:48 AM
56	Thanks for good program	12/14/2016 6:31 PM
57	same as 10	12/14/2016 4:11 PM
58	keep up the good work	12/14/2016 3:06 PM
59	On more than one occasion there were 2 or 3 rooms that I would have like to attend. Perhaps try not to schedule pediatric deformity rooms and adult deformity rooms so we do not miss too many valuable lectures if possible	12/14/2016 2:16 PM
60	great lectures	12/14/2016 11:39 AM
61	Frank discussion about clinical outcomes and complications in the surgical management of adult spinal deformities	12/14/2016 11:30 AM
62	Always enjoy this meeting as it is honest	12/14/2016 11:08 AM
63	Too many concurrent sessions	12/14/2016 10:00 AM
64	more debates	12/14/2016 9:48 AM
65	Would prefer not to respond	12/12/2016 1:22 PM
66	selection of manuscripts could be more for Asian and European countries	12/9/2016 10:44 PM
67	Newer technologies without industry bias	12/8/2016 11:55 PM
68	More regional courses	12/8/2016 6:06 PM
69	Great overall meeting	12/8/2016 4:37 PM

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70	It's a good low key alternative and adjunct to the bigger meetings such as nass	12/8/2016 11:26 AM
71	good course, but being a PT some topics not as applicable.	12/8/2016 11:12 AM
72	Generally one of the best spine meetings, keep up the good work	12/8/2016 11:10 AM
73	reasonable meeting. Good venue.	12/8/2016 10:49 AM
74	Excellent course	12/8/2016 9:54 AM
75	keep up the good work . Less breakouts	12/8/2016 9:53 AM
76	Surgical techniques are important Also concept is also	12/8/2016 8:35 AM
77	More case presentations with panel and audience debate	12/8/2016 1:16 AM
78	Have less concurrent lectures	12/7/2016 7:22 PM
79	great meeting	12/7/2016 6:26 PM
80	.	12/7/2016 5:42 PM
81	Please emphasize the cutting-edge or brand-new information about spine surgery.	12/7/2016 4:53 PM
82	Excellent course.	12/7/2016 4:07 PM
83	A good overall meeting.	12/7/2016 4:00 PM
84	The meeting has too much adult degenerative content. I'm disappointed that my dues are going toward this type of content. We are a deformity society; not the catch-all academic group for any type of spine care.	12/7/2016 3:24 PM
85	None	12/7/2016 11:02 AM
86	I think not much information was new compared to the previous IMAST meeting in KL Malaysia	12/5/2016 7:44 PM
87	Sometimes long but uneffectiv discussions.(Result: d10 to pelvis.) But for updating my knowledge (not only about spine) excellent!	12/5/2016 8:48 AM
88	continue to focus on those areas IMAST has developed over the years	12/4/2016 6:21 PM
89	There were small number of lecturers covering many topics here and there. If we can recruit many lectures, we can learn more various experience and thought.	12/3/2016 6:14 PM
90	again more Focus on emerging technologies	12/3/2016 6:48 AM
91	more helpe for giving visa for attending to IMAST in all of world and more help for accomodation	12/2/2016 11:06 PM
92	Overall IMAST continues to be an excellent exchange of quality patient information. More free papers and focused round table type discussions would be nice.	12/2/2016 2:43 PM
93	Round tables are better than debates unless the 2 debaters honestly oppose each other in opinion or treatment paradigms.	12/2/2016 1:39 PM
94	Sometime too much going on...getting a little "fragmented" with too many talks/workshops to choose from	12/2/2016 11:23 AM
95	good program, not as good as past years	12/2/2016 10:01 AM
96	Nice meeting	12/2/2016 9:28 AM
97	it was done well	12/2/2016 8:26 AM
98	no suggestions	12/2/2016 7:00 AM
99	Providing more chances of fellowship training easily available for young spine surgeons like us	12/1/2016 11:55 PM
100	more didactic lectures, debates and roundtable discussions	12/1/2016 9:31 PM
101	Many multi-center study were accepted. Therefore it was difficult to understand the detail of each cases.	12/1/2016 8:12 PM
102	Over all I like the format of IMAST due to every body participation	12/1/2016 7:42 PM
103	Provide discussions of different management options according to loco regional settings	12/1/2016 7:11 PM
104	This is a fundementally good meeting with a wide variety of topics for all attendees, something for everyone. The format offers a wide variety of options best suited for the needs of the attendees. The format should be regularly updated to met these needs.	12/1/2016 7:04 PM
105	Its great.	12/1/2016 5:26 PM

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106	fewer breakout sessions	12/1/2016 5:04 PM
107	Please increase the number of podium presentations otherwise both SRS and IMAST are too competitive to be accepted the abstracts.	12/1/2016 4:52 PM
108	overall a strong meeting	12/1/2016 4:35 PM
109	?	12/1/2016 4:34 PM
110	More video lectures	12/1/2016 4:28 PM
111	The rhythm of the meeting this year wasn't as good as last year.	12/1/2016 4:13 PM
112	.	12/1/2016 4:09 PM