

EXHIBIT 1

Osteoind	Fixation	Op Time A	per level	Op Time P	Bd Loss A	Bd Loss P	Inx Length	Ambulation	Braced?	Reg Diet	Discharge	Compx
	perc pedicle screws	5:56	2:58	total	300	total					2	
	perc pedicle screws	4:40	4:40	total	100	total					5	
	perc pedicle screws	4:52	4:52	total	125	total					5	
	perc pedicle screws	6:00	6:00	total	100	total					4	
BMP	Blackstone lateral screw/rod	0:00	1:18	n/a	50	N/A	3	0	y	y	1	
BMP	Blackstone lateral screw/rod	0:00	1:12	n/a	400	N/A	3	0	y	y	1	mild iliopsoas weakness (resolved by 1wk)
Vitoss w crest bld	None	1:00	1:00	N/A	50	N/A	3cm		y		2	
Vitoss w crest bld	Xia	1:00	1:00	1:00	50	150	3cm		y		2	
none	previous pedicle screws	0:35	0:35	n/a	50		3cm		y		2	
BMP	none	2:00	2:00	N/A	50	N/A		same day	no	same day	3rd day - comorbidities	
BMP	none	1:45	1:45	N/A	50	N/A		same day	no	same day	next day	
BMP	anterolateral plate											
BMP	MSD Eclipse - lateral fixed angle vert body screws and rod	0:00	1:30	n/a	200	N/A	3	1	y	y	1	
BMP	Spinal Concepts rod/screw	0:00	1:41	n/a	200	N/A	3	1	y	y	4	difficult pain ctrl- on heavy narx preop
BMP	none											
iliac crest	lateral plate	1:40	1:40	total	50	total	2-3cm					
BMP	none	1:30	1:30	N/A	50	N/A		same day	no	same day	next day	
	Sextant	2:30	1:15	total	300	total						
	perc pedicle screws	5:59	5:59	total	100	total					2	
	posterior											
	anterolateral plate											
	none											
	Xia						2x3cm		y		2	
BMP	unilateral Xia thru MaXcess	1:50, 0:35	1:13	2:00	50	100						
iliac crest	none	1:00	1:00	N/A	150	N/A	2-3cm					
BMP	none, later PSF due to bone	1:15	1:15	N/A	50	N/A		same day	no	same day	readmit 2 days for PSF	
BMP	none	1:45	1:45	N/A	50	N/A	4cm	same day	no	same day	next day	
BMP	Spinal Concepts rod/screw	0:00	1:25	n/a	300	N/A	3	0	y	y	1	
iliac crest	pedicle screws w foraminotomies L1-L5					250 total						
BMP	Spinal Concepts rod/screw	0:00	1:18	n/a	100	N/A	3	0	y	y	1	
	perc pedicle screws	5:26	1:48	total	100	total					3	
	1:25	1:25										
iliac crest, Vitoss	anterolateral plate, MSD Xantus	0:30	0:30	0:20	100	N/A	4cm					
	perc pedicle screws			total		total						
	anterolateral plate											
	Xia						3cm		y		2	
	posterior											
BMP & Vitoss	none	<2:00 w/ video production		N/A	50	N/A		same day	no	same day	next day	nmbns lt thigh, resolved immediately
BMP	posterior	1:30	1:30				2cm					hip flexor weakness, resolving slowly
BMP	?	2:40	1:20	?								
BMP	posterior											
BMP	PathFinder	3:00	1:30	total	100	total		next day (comorbidities)		same day	6	
	posterior											
Vitoss/crest aspirate	Xia	1:00	0:30	1:30	50	300	3cm	?	y	same day	4	deneration of chest wall, improving on own
	posterior											
BMP & Vitoss	none	1:15	1:15	N/A	50	N/A		same day	no	same day	next day	2 hrs postop psoas pain on hip flexion
BMP & Vitoss	none, later PSF due to subsidence	1:30	1:30	N/A	50	N/A		same day	no	same day	next day	
BMP	Sextant	2:30	2:30	1:00	200	?	2-3cm					
BMP	NuVasive unilateral	1:30	1:30	1:00			3cm					
	none	0:55	0:55	n/a								
BMP	Spinal Concepts rod/screw	0:00	1:16	n/a	100	N/A	3	1	y	y	1	mild iliopsoas weakness (resolved by 1wk)
Vitoss/crest aspirate	Xia	0:45	0:45	1:30	50	300	3cm		y	same day	2	
BMP	Spinal Concepts rod/screw	0:00	1:05	n/a	50	N/A	3	0	y	y	1	
	posterior											
	perc pedicle screws	1:50	1:50	total	50	total					3	
	none, later PSF due to subsidence											
	NuVasive SpheRx											
	Posterior										next day	
Vitoss foam	VSP screws and plate	1:10	0:35	n/a	450 total	n/a						
Healos w bm aspirate	Xia	0:43	0:43	1:15	50	300	3cm	same day	no	same day	2	

BMP	None	2:00	2:00	N/A									
Vitoss w BM aspirate	Xia	0:48	0:48	1:25	25	350	2cm	same day	y	same day			
	anterolateral plate												
	perc pedicle screws	6:05	1:31	total	400	total						3	
	perc pedicle screws	1:30	1:30	total	50	total						4	
	perc pedicle screws	3:29	1:44	total	100	total						4	
	perc pedicle screws			total		total							
	posterior												
Vitoss w bone marrow aspirate	perc pedicle screws Sextant	1:15	0:37	total	100 50	total 50	2.5cm	next day	NO			3 3	
	anterolateral plate												
	perc pedicle screws	2:00	2:00	total	75	total						2	
	anterolateral plate												
	anterolateral plate												
Vitoss w bone marrow aspirate	Sextant				minimal	minimal	2.5cm		NO			2	
Vitoss w bone marrow aspirate	Sextant	1:20	1:20	1:10	50	50	2.5cm		NO			6	Footdrop/right leg-brought back to OR for decompression of L5 nerve root
Vitoss/crest aspirate	Xia	0:38	0:38	1:45	75	350	2cm	same day	y	same day		2	
Healos w bm aspirate	90-D	0:54	0:27	2:15	50	600	3cm	same day	y	same day		4	hip flexor weakness L
Vitoss w bone marrow aspirate	Sextant	1:45	1:45	0:55			2.5cm		NO			4	
Vitoss w bone marrow aspirate	Sextant	1:48	1:48	1:50	50	50	2.5cm	next day	NO	2 days		3	
Healos w bm aspirate	90-D	1:10	0:35	1:35	50	400	3cm	same day	y	same day		5	
BMP used: 24	standalones: 13 (3 suppl later)			Ave time per level		Ave blood loss		Ave Incision		Ambulation		Ave Hosp Stay	Comps
Autograft used: 4	lateral/anterolateral: 18			1:38		101		3		same day		3	Hip flexor pain and/or weakness
DBM used 18:	posterior: 46			excludes Taylor's									5
None used: 2	Cases aborted: 1			because combined									Sensory distribution numbness
Cases aborted: 1	Unknown: 64			Ant and Post									2
Unknown: 97													Foot-drop
													1
Proportion of BMP	Proportion of												
24/(24+18+4)	standalone: 0.20	20%											
0.52	lateral: 0.23	23%											
	posterior: 0.58	58%											

	Date	Surgeon	Hospital
1	06/15/04	Calderone	Pleasant Valley Hosp (St John's)-Camarillo, CA
2	06/24/04	Calderone	Pleasant Valley Hosp (St John's)-Camarillo, CA
3	08/18/04	Calderone	Pleasant Valley Hosp (St John's)-Camarillo, CA
4	09/09/04	Calderone	Pleasant Valley Hosp (St John's)-Camarillo, CA
5	01/07/04	Cappuccino	Lockport Memorial
6	01/26/04	Cappuccino	Sister of Charity Hosp
7	02/10/04	Cappuccino	Lockport Memorial
8	02/25/04	Cappuccino	Lockport Memorial
9	03/10/04	Cappuccino	Kenmore Mercy
10	03/17/04	Cappuccino	Kenmore Mercy
11	06/15/04	Cappuccino	?
12	07/14/04	Cappuccino	Kenmore Mercy
13	08/24/04	Cappuccino	Lockport Mem
14	04/29/04	Hyde	Mt Sinai, Miami Beach FL
15	05/05/04	Hyde	Mt Sinai, FL
16	05/20/04	Hyde	Mt Sinai, Miami Beach FL
17	06/07/04	Hyde	Mt Sinai, Miami Beach FL
18	06/10/04	Hyde	Mount Sinai - Miami Beach, FL
19	06/23/04	Hyde	Mt Sinai, Miami Beach FL
20	07/29/04	Hyde	Mt Sinai, Miami Beach FL
21	07/01/04	Kim	San Diego VA
22	02/26/04	Kim	UCSD Thornton
23	04/27/04	Kim	VA San Diego
24	05/06/04	Kim	VA San Diego
25	11/19/03	Kitchel	McKenzie Willamette
26	11/26/03	Kitchel	McKenzie Willamette
27	12/07/03	Kitchel	McKenzie Willamette
28	02/16/04	Kitchel	McKenzie Willamette
29	03/17/04	Kitchel	McKenzie Willamette
30	04/14/04	Kitchel	McKenzie Willamette
31	05/17/04	Kitchel	McKenzie Willamette
32	06/21/04	Kitchel	McKenzie Willamette
33	07/12/04	Kitchel	McKenzie Willamette
34	10/19/04	Kitchel	Sacred Heart
35	10/26/04	Kitchel	McKenzie Willamette
36	11/01/04	Kitchel	Sacred Heart
37	02/16/04	Malcolm	Wellstar Kennestone, Marietta GA
38	03/01/04	Malcolm	Wellstar Kennestone, Marietta GA
39	04/12/04	Malcolm	Wellstar Kennestone, Marietta GA
40	05/28/04	Malcolm	Wellstar Kennestone, Marietta GA
41	08/18/04	Malcolm	Wellstar Kennestone, Marietta GA
42	06/10/04	Maxwell	Haywood Regional Med Ctr-Clyde, NC
43	06/24/04	Maxwell	Haywood Regional Med Ctr-Clyde, NC
44	07/07/04	Maxwell	Park Ridge, Fletcher NC
45	11/26/03	McAfee	St Josephs, Towson, MD
46	02/16/04	McAfee	St Josephs, Towson, MD
47	03/08/04	McAfee	St Josephs, Towson, MD
48	11/24/03	Miller	Sacred Heart Hosp
49	01/29/04	Miller	Sacred Heart Hosp
50	01/30/04	Miller	Sacred Heart Hosp
51	02/16/04	Miller	Sacred Heart Hosp
52	03/18/04	Miller	Sacred Heart Hosp
53	04/19/04	Miller	Sacred Heart Hosp
54	04/19/04	Miller	Sacred Heart Hosp

55	05/24/04	Miller	
56	06/10/04	Nehls	Tacoma General
57	06/14/04	Nehls	St. Joseph's, Tacoma, WA
58	08/12/04	Nehls	Tacoma General
59	12/24/03	Peterson	Providence Medford
60	01/05/04	Peterson	Providence Medford
61	01/26/04	Peterson	Providence Medford
62	02/18/04	Peterson	Rogue Valley
63	02/23/04	Peterson	Providence Medford
64	03/22/04	Peterson	Providence Medford
65	04/19/04	Peterson	Providence Medford
66	04/19/04	Peterson	Providence Medford
67	06/07/04	Peterson	Providence Medford
68	07/26/04	Peterson	Providence Medford
69	08/18/04	Peterson	Rogue Valley
70	04/26/04	Phillips	Rush
71	07/07/04	Phillips	Rush
72	07/12/04	Phillips	Rush
73	08/09/04	Phillips	Rush
74	05/24/04	Ravessoud	Long Beach Memorial
75	08/16/04	Ravessoud	Long Beach Memorial
76	08/23/04	Ravessoud	Long Beach Memorial
77	08/30/04	Ravessoud	Long Beach Memorial
78	06/01/04	Smith	Desert Springs Hospitals- Las Vegas
79	06/16/04	Smith	Desert Springs Hospitals- Las Vegas
80	06/25/04	Smith	Desert Springs Hospitals- Las Vegas
81	06/30/04	Smith	Desert Springs Hospitals- Las Vegas
82	07/06/04	Smith	Desert Springs Hospitals- Las Vegas
83	07/09/04	Smith	Desert Springs Hospitals- Las Vegas
84	07/13/04	Smith	Desert Springs Hospitals- Las Vegas
85	07/16/04	Smith	University MC, Las Vegas
86	07/27/04	Smith	Desert Springs Hospitals- Las Vegas
87	07/27/04	Smith	
88	07/27/04	Smith	
89	08/20/04	Smith	University MC, Las Vegas
90	08/27/04	Smith	University MC, Las Vegas
91	09/01/04	Smith	University MC, Las Vegas
92	09/01/04	Smith	University MC, Las Vegas
93	09/09/04	Smith	University MC, Las Vegas
94	01/27/03	Taylor	
95	05/14/03	Taylor	
96	05/28/03	Taylor	
97	06/11/03	Taylor	
98	01/26/04	Taylor	UCSD
99	02/09/04	Taylor	Hillcrest
100	03/08/04	Taylor	UCSD Thornton
101	03/11/04	Taylor	UCSD Hillcrest
102	04/12/04	Taylor	UCSD
103	06/02/04	Taylor	
104	07/19/04	Taylor	UCSD Thornton
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107	08/09/04	Taylor	UCSD Thornton
108	08/18/04	Taylor	San Diego VA
109	08/30/04	Taylor	

110	02/09/04	Tohmeh	Holy Family
111	03/17/04	Tohmeh	Holy Family
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117	08/18/04	Tohmeh	Holy Family
118	09/20/04	Tohmeh	Holy Family
119	10/11/04	Tohmeh	Holy Family
120	11/03/04	Tohmeh	Holy Family
121	12/06/04	Tohmeh	Holy Family
122	12/18/03	van Dam	Scripps La Jolla
123	01/22/04	van Dam	Scripps La Jolla
124	02/12/04	van Dam	La Jolla Ortho
125	08/12/04	van Dam	La Jolla Ortho
126	02/09/04	Wilhelmy	John Muir Med Ctr
127	02/10/04	Wilhelmy	San Ramon Medical Center
128	03/31/04	Wilhelmy	John Muir Med Ctr
129	06/29/04	Wilhelmy	John Muir Med Ctr
130	08/30/04	Wilhelmy	John Muir Med Ctr
131	03/09/04	Wohns	St. Joes, Tacoma WA
132	03/26/04	Wohns	St. Joes, Tacoma WA
133	04/16/04	Wohns	St. Joes, Tacoma WA
134	06/01/04	Wohns	St. Joes, Tacoma WA
135	06/01/04	Wohns	St. Joes, Tacoma WA
136	10/27/03	Wright	Barnes Jewish, St Louis, MO
137	10/27/03	Wright	Barnes Jewish, St Louis, MO
138	01/12/04	Wright	Barnes Jewish, St Louis, MO
139	01/20/04	Wright	Barnes Jewish, St Louis, MO
140	02/24/04	Wright	Barnes Jewish, St Louis, MO
141	03/02/04	Wright	Barnes Jewish, St Louis, MO
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95	05/14/03	Taylor	
96	05/28/03	Taylor	
97	06/11/03	Taylor	
98	01/26/04	Taylor	UCSD
99	02/09/04	Taylor	Hillcrest
100	03/08/04	Taylor	UCSD Thornton
101	03/11/04	Taylor	UCSD Hillcrest
102	04/12/04	Taylor	UCSD
103	06/02/04	Taylor	

104	07/19/04	Taylor	UCSD Thornton
105	07/26/04	Taylor	UCSD Thornton
106	08/02/04	Taylor	UCSD Thornton
107	08/09/04	Taylor	UCSD Thornton
108	08/18/04	Taylor	San Diego VA
109	08/30/04	Taylor	
110	02/09/04	Tohmeh	Holy Family
111	03/17/04	Tohmeh	Holy Family
112	03/24/04	Tohmeh	Holy Family
113	04/12/04	Tohmeh	Holy Family
114	04/14/04	Tohmeh	Holy Family
115	07/07/04	Tohmeh	Holy Family
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121	12/06/04	Tohmeh	Holy Family
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135	06/01/04	Wohns	St. Joes, Tacoma WA
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139	01/20/04	Wright	Barnes Jewish, St Louis, MO
140	02/24/04	Wright	Barnes Jewish, St Louis, MO
141	03/02/04	Wright	Barnes Jewish, St Louis, MO
142	05/10/04	Wright	Barnes Jewish, St Louis, MO
143	05/24/04	Wright	Barnes Jewish, St Louis, MO
144	09/07/04	Wright	Barnes Jewish, St Louis, MO
145	09/14/04	Wright	Barnes Jewish, St Louis, MO

Indications

Back Pain

T12 burst fx, retrieval and ant screw, then PLF

DDD

DDD

DDD, ctl stenosis

DDD above prev fusion

DDD above prev fusion

DDD above prev fusion

DDD

degen scoli

degen scoli

revision of PLF?

DDD, instability, stenosis
congenital spondylo
congenital spondylo
discitis/osteomyelitis - biopsy & debridement
degen spondy G1
spondy with stenosis
LBP w radiculopathy
LBP w radiculopathy

DDD

LBP, Radicul
LBP, Radicul
LBP, Radicul
LBP, Radicul
DDD w. LBP and Radic
LBP, Radicul
Scoli, LBP, Radicul
scoli
degen scoliosis
LBP, Radicul

scoli, Radiculopathy
LBP
LBP

LBP
LBP, Radicul

left leg pain, LBP

Discogenic back pain w L4-L5 DDD
DDD, L3-4 due to junctional disease
L5 Spondylosis w/o myelopathy
DDD
L4-5 Spondylosis

DDD with collapse, stenosis

adj level disease, prior scar on left from kidney sx

DDD, 300lbs
DDD
DDD, 375 lbs, prior lumbar lami
DDD, 225 lbs prior lumbar lami
DDD
DDD
DDD, prior PLIF L5-S1
DDD

L1-2 6%
L2-3 24%
L3-4 33%
L4-5 37%



