

Issues in chronic pain after spine surgery microendoscopic v.s. open surgeries



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[CDI開示] 今回の発表に関連し、開示すべきCOI関係にある企業などはありません。

Background

- **Tramadol / paracetamol 37.5 mg / 325 mg (Tramacet, Zaldiar, Ixprim, Kolibri) is indicated in the EU for the symptomatic treatment of moderate to severe pain, including postoperative pain after spine surgery.
(Dhillon S. 2010)**

Purpose

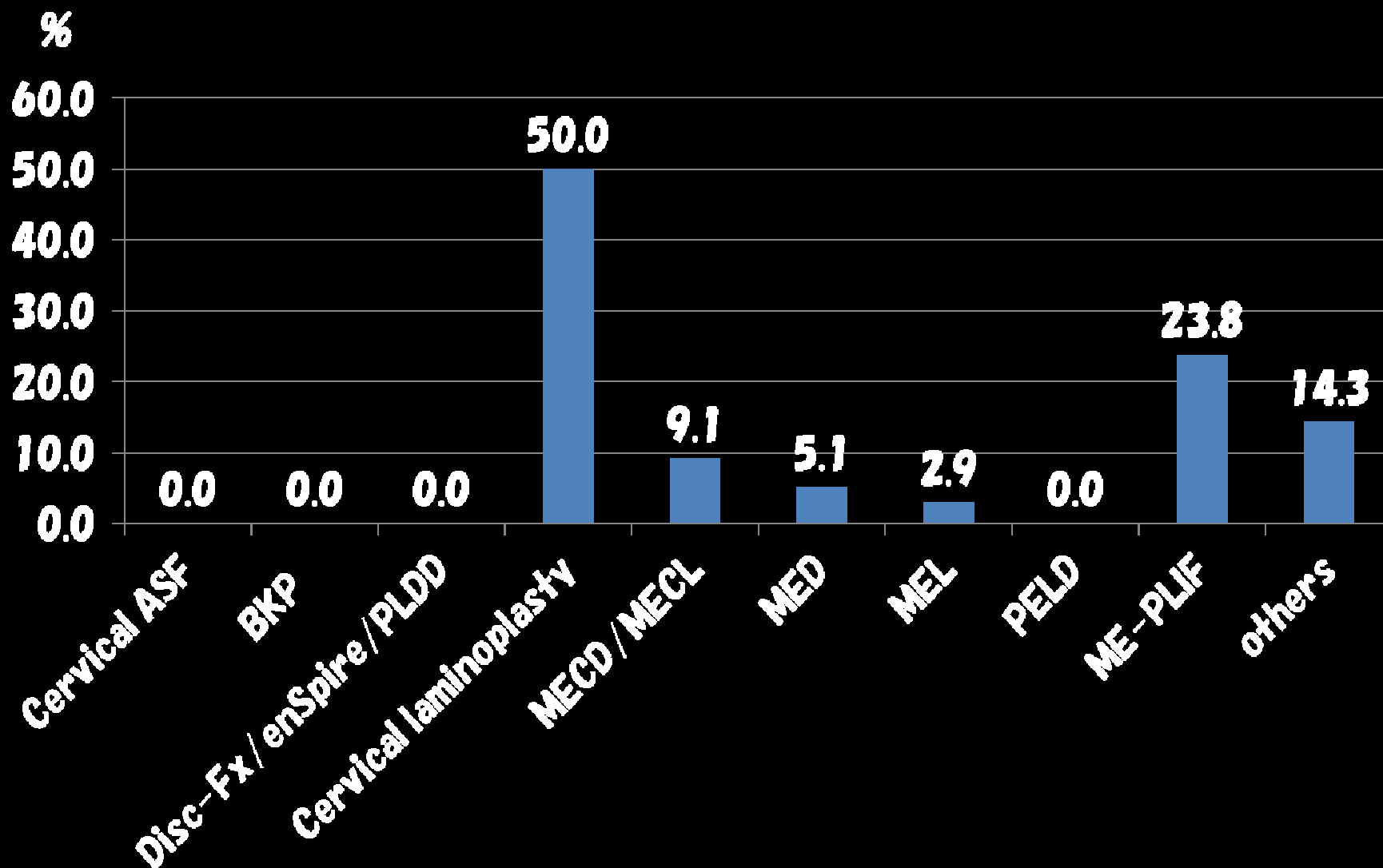
- **The purpose of this study was to investigate usage of medicine for acute and chronic pain relief after spine surgery.**

Materials & Methods

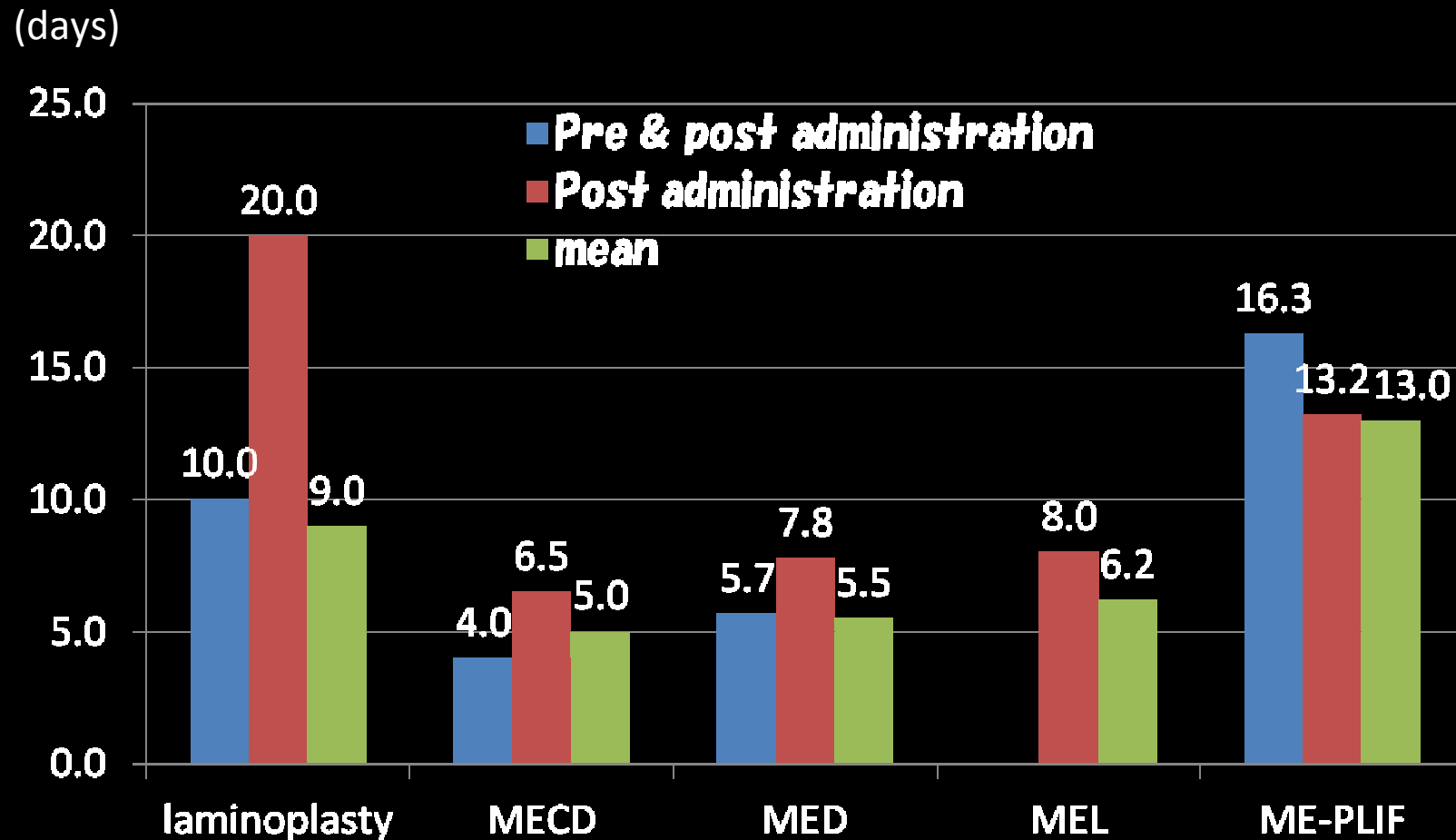
- From March 2012 to June 2012, spine surgeries were performed in **428 patients** with cervical and lumbar degenerative disorders.
- All patients took non-steroidal anti-inflammatory drugs (**NSAIDs**) postoperatively.
- Postoperative patient controlled analgesia (PCA) was used for **cervical laminoplasty and ME-PLIF**.
- **NRS > 5** → **Tramacet** (4 times per day)
- **34** out of **428** patients needed additional dosages of **TRAMACET®** tablets instead of NSAIDs.

Procedures	Pt (n)	No. of Tramcet (n)	%
Cervical ASF ●	11	0	0
BKP	6	0	0
Disc-Fx/enSpire/PLDD	14	0	0
Cervical laminoplasty ●	6	3	50.0
MECD/MECL	33	3	9.1
MED	178	9	5.1
MEL	105	3	2.9
PELD	5	0	0
Microendoscopic PLIF (ME-PLIF)	63	15	23.8
Others (1 infection case)	7	1	14.3
Total (●open surgery)	428	34	7.9

Tramacet medication after each spine surgery

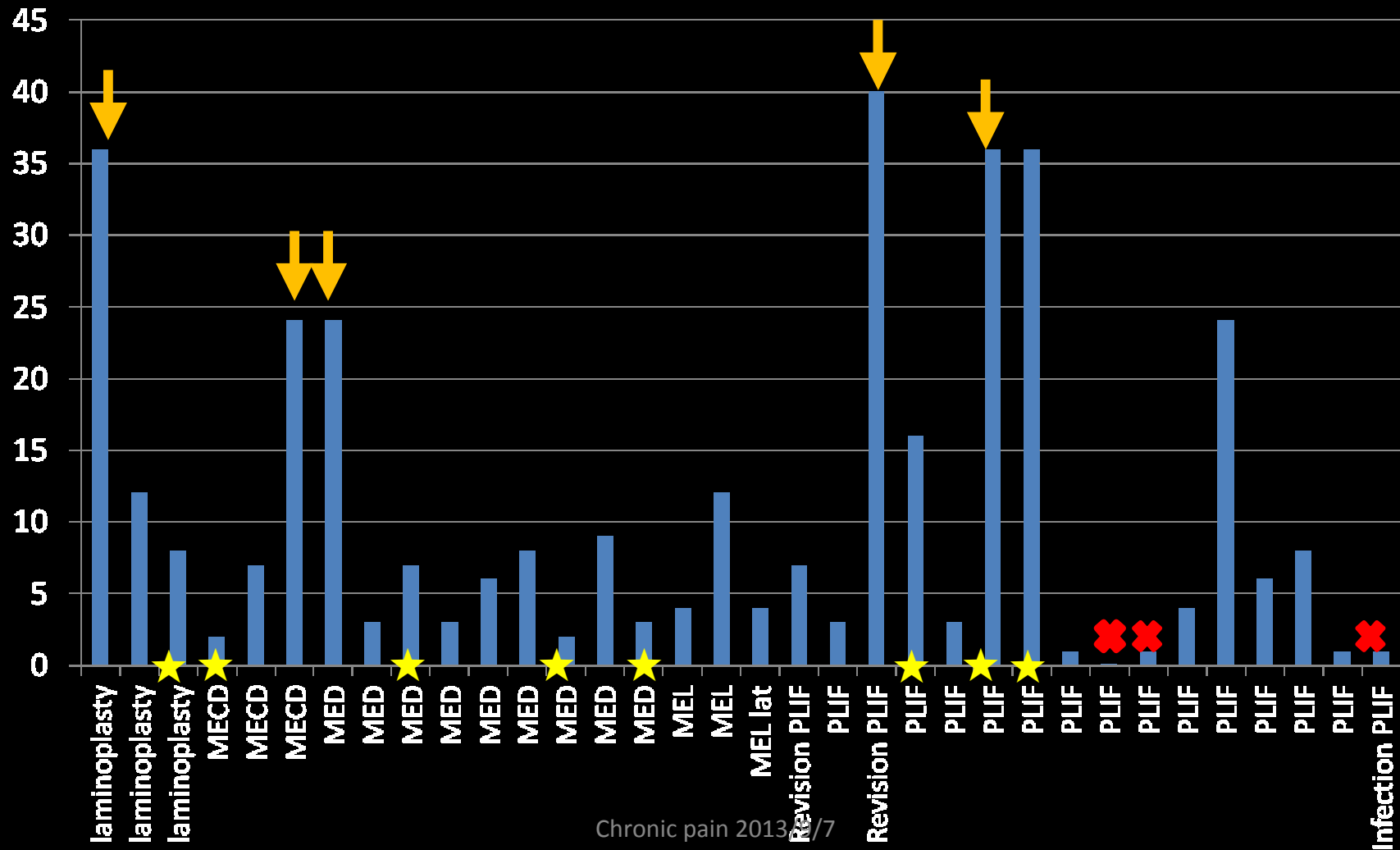


Tramacet medication and postoperative hospitalization



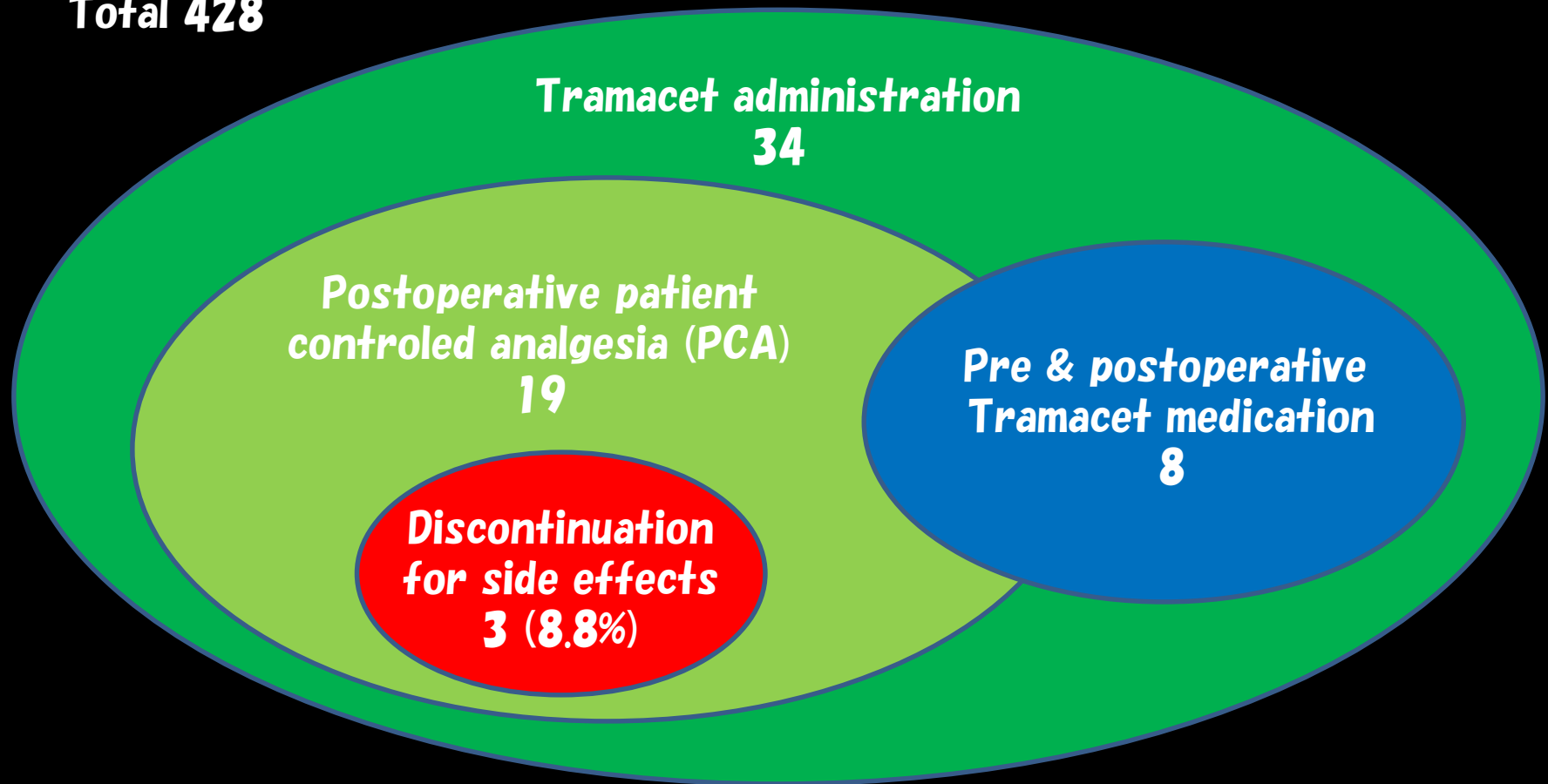
Postoperative Tramacet medication in 34 cases

(wks) ↓ On medication ★ Preop medication ✖ discontinuation



Tramacet medication and its side effects

Total 428



Medication after discontinuation of Tramacet

1. ME-PLIF Pregabalin 50mg/d + Clonazepam 0.5mg/d

2. ME-PLIF Buprenorphine 10mg /w for 3 weeks

3. SSI (ME-PLIF) Buprenorphine 10mg/w for 3 months

2012/2/24 ME-PLIF (3/8 leaving hospital)

2012/3/22 WBC 8700 CRP 15.89 BT 38.1°C

2012/3/28 PELD for removal of abscess

2012/4/4 Removal of Milestone

2012/4/18 Removal of PS (5/23 leaving hospital)

Tramacet medication and its effects

Total 428

Tramacet 34

Discontinuation for side effects 3

Pain relief 26
(mean 6.9 wks)

On medication 5
(mean 32 wks)
Cervical laminectomy 1
Cervical foraminotomy 1
MED 1
2-level PLIF 1
Revision PLIF 1

On medication in 5 cases

5 out of 34 continued taking tramadol more than postoperative 6 months.

- | | |
|-------------------------|--------------------------|
| 1.Cervical laminectomy | dural tear |
| 2.Cervical foraminotomy | preoperative severe pain |
| 3.MED | dural tear |
| 4.2-level PLIF | Multi-level fusion |
| 5.Revision PLIF | Revision for non-union |

Tramadol/paracetamol fixed-dose combination: a review of its use in the management of moderate to severe pain.

Dhillon S. (Clin Drug Investig. 2010;30(10):711-38)

Single- or multiple-dose tramadol/paracetamol was effective in patients with **postoperative pain, subacute lower back pain.**

Tramadol/paracetamol is a useful treatment option for providing multimodal analgesia in patients **with moderate to severe pain.**

Domestic clinical test at time of recognition in Japan
(based on the medicinal action of opioid)

Nausea 41.4% **vimiting 26.2%** **drowsiness 25.9%**
constipation 21.2% **unstability** **giddiness 18.9%**

Discussion

		(%)	
•Revision PLIF	100		Open
•Infection PLIF	100		Open
•Cervical laminoplasty	50.0		Open
•ME-PLIF		23.8	Microendoscopic
•MECD/MECL	9.1		Microendoscopic
•MED	5.1		Microendoscopic
•MEL		2.9	Microendoscopic
•PELD	0		Microendoscopic
•Cervical ASF	0		Open
•BKP		0	Percutaneous
•Disc-Fx/enSpire/PLDD		0	Percutaneous

Conclusion

- NSAID was effective in most of patients with postoperative moderate pain after spine surgeries.
- Tramacet medication instead of NSAID was effective in patients with postoperative severe pain.
- The discontinuation rate of Tramacet was 8.8 % for side effect.
- Most patients who were on Tramacet medication more than 6 months had preoperative severe pain, dural tear or non-union.