

Table S1. Pain in patients who required rescue analgesia.

Morphine group					
Age in years	Smoker		Satisfaction	AUPS72hR	AUPS 72hM
28	-	<i>fentanyl 50 mcg intraoperatively</i>	5	-29	-28
29	-	<i>fentanyl 50 mcg intraoperatively</i>	5	0	114
29	Yes	<i>50 mg tramadol one dose in day 0</i>	5	0	191
Fentanyl group					
Age in years	Smoker		Satisfaction	AUPS72hR	AUPS72hM
21	-	<i>50 mg tramadol two doses</i>	3	146	350
22	-	<i>50 mg tramadol two doses</i>	4	193	297
27	-	<i>50 mg tramadol two doses</i>	3	205	296
30	-	<i>50 mg tramadol three doses</i>	2	296	466
33	-	<i>50 mg tramadol two doses</i>	3	86	372
35	-	<i>50 mg tramadol one dose</i>	4	86	188
36	-	<i>50 mg tramadol one dose</i>	4	21	301
40	-	<i>50 mg tramadol one dose</i>	4	16	196
42	-	<i>50 mg tramadol two doses</i>	3	211	388
50	-	<i>50 mg tramadol one dose</i>	3	86	171

Table S2. Analgesia-related adverse effects in patients who required rescue medication for pain.

Morphine group								
Age in years	Smoker		Satisf	Pruritus	Nausea	Vomiting	Const. dizziness	Effective treat.
28	-	<i>fentanyl 50 mcg intraoperatively</i>	5	Yes	-	-	-	Yes
29	-	<i>fentanyl 50 mcg intraoperatively</i>	5	2	Yes	Yes	Yes	Yes
29	Yes	<i>50 mg tramadol one dose in day 0</i>	5	Yes	-	-	Yes	Yes
Fentanyl group								
Age in years	Smoker		Satisf	Pruritus	Nausea	Vomiting	Const. dizziness	Effective treat.
21	-	<i>50 mg tramadol two doses</i>	3	Yes	Yes	-	-	-
22	-	<i>50 mg tramadol two doses</i>	4	-	-	-	-	-
27	-	<i>50 mg tramadol two doses</i>	3	Yes	-	-	Yes	-
30	-	<i>50 mg tramadol three doses</i>	2	-	-	-	-	-
33	-	<i>50 mg tramadol two doses</i>	3	Yes	-	-	Yes	-
35	-	<i>50 mg tramadol one dose</i>	4	Yes	-	-	-	Yes
36	-	<i>50 mg tramadol one dose</i>	4	-	-	-	Yes	-
40	-	<i>50 mg tramadol one dose</i>	4	-	-	-	-	-
42	-	<i>50 mg tramadol two doses</i>	3	Yes	Yes	-	-	-
50	-	<i>50 mg tramadol one dose</i>	3	-	-	-	-	-