SUPPLEMENTARY FILE

To estimate the group size, a pilot study was conducted for measuring the FLACC pain score at 12 h after surgery (7 patients in each group). We hypothesised that either QLB-III or TFPB could provide adequate pain relief when compared to the control and expected the capability to show a difference of 2 in the FLACC pain score at 12 h after surgery between any intervention group and the control group. The sample size calculation based on superiority test for two means with 90% power and 5% level of significance, 25 patients per group will be needed. Considering a compliance rate of 80 %, we asked 90 patients to participate in this study. The sample size was calculated by PASS 11 software.

Supplemental table: the FLACC score at 12h postoperatively(at rest)

Control group	QLB-III group	TFPB group
4	1	1
5	3	2
6	2	4
6	3	1
8	3	3
7	2	2
3	2	2

Parameters assumption for calculating the sample size of superiority test for two means

QLB vs Control	Mean of QLB at 12h postoperatively	$Mean_{qlb}$=2.29
	Mean of Con at 12h postoperatively	$Mean_{control}$=5.57
	SD of QLB at 12h postoperatively	SD_{qlb}= 0.76
	SD of Con at 12h postoperatively	$SD_{control}$=1.72
	Superiority Margin	2
	α	α=0.025
	β	β=0.90
	Sample size of QLB and Con	$N_{qlb}=N_{control}$=25
TFPB vs Control	Mean of TFPB at 12h postoperatively	$Mean_{tfpb}$=2.14
	Mean of Con at 12h postoperatively	$Mean_{control}$=5.57
	SD of TFPB at 12h postoperatively	SD_{tfpb}= 1.07
	SD of Con at 12h postoperatively	$SD_{control}$=1.72
	Superiority Margin	2
	α	α=0.025
	β	β=0.90
	Sample size of TFPB and Con	$N_{tfpb}=N_{control}$=23