

outcomes	study	Begg's Test
EA	7	0.086
PONV	8	0.060
Respiratory adverse events	8	0.230
Cardiovascular adverse events	2	–
The need for postoperative rescue analgesics	5	0.462

EA:

study	Dexmedetomidine group		Control group	
	events	Total	events	total
Ju2013	0	40	0	40
Luo2017	4	50	4	50
Mei2014	0	30	1	30
Obayah2010	4	15	3	15
Peng2015	1	20	2	20
Surana2017	0	30	0	30
Xiao2012	1	18	2	18

Begg's test

adj. Kendall's Score (P-Q) = -8
 Std. Dev. of Score = 4.08
 Number of Studies = 5
 $z = -1.96$
 $Pr > |z| = 0.050$
 $z = 1.71$ (continuity corrected)
 $Pr > |z| = 0.086$ (continuity corrected)

PONV

study	Dexmedetomidine group		Control group	
	events	Total	events	Total
Ju2013	0	40	0	40
Luo2017	4	50	4	50
Mei2014	0	30	1	30
Obayah2010	4	15	3	15
Peng2015	1	20	2	20
Surana2017	0	30	0	30
Xiao2012	1	18	2	18
El-Emam 2019	4	50	3	50

Begg's test

adj. Kendall's Score (P-Q) = -11
 Std. Dev. of Score = 5.32
 Number of Studies = 6
 $z = -2.07$
 $Pr > |z| = 0.039$
 $z = 1.88$ (continuity corrected)
 $Pr > |z| = 0.060$ (continuity corrected)

Respiratory adverse events

study	Dexmedetomidine group		Control group	
	events	Total	study	events
Boku2015	2	35	2	35
Ju2013	0	40	4	40
Luo2017	2	30	4	30
Mei2014	13	50	25	50
Peng2015	1	20	3	20
Surana2017	0	30	0	30
Xiao2012	0	18	2	36
Xi2012	1	30	5	30

Begg's test

adj. Kendall's Score (P-Q) = -9
 Std. Dev. of Score = 6.66
 Number of Studies = 7
 $z = -1.35$
 $Pr > |z| = 0.176$
 $z = 1.20$ (continuity corrected)
 $Pr > |z| = 0.230$ (continuity corrected)

The need for postoperative rescue analgesics

study	Dexmedetomidine group		Control group	
	events	Total	study	events
Mostafa 2020	0	15	15	15
Obayah2010	10	15	15	15
Luo2017	5	46	29	47
Surana2017	7	30	20	30
Ju2013	2	40	8	40

Begg's test

adj. Kendall's Score (P-Q) = -4
Std. Dev. of Score = 4.08
Number of Studies = 5
z = -0.98
Pr > |z| = 0.327
z = 0.73 (continuity corrected)
Pr > |z| = 0.462 (continuity corrected)