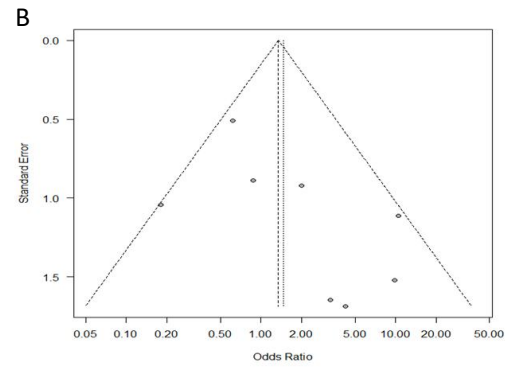
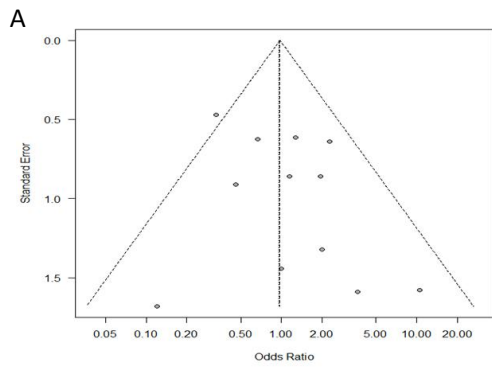
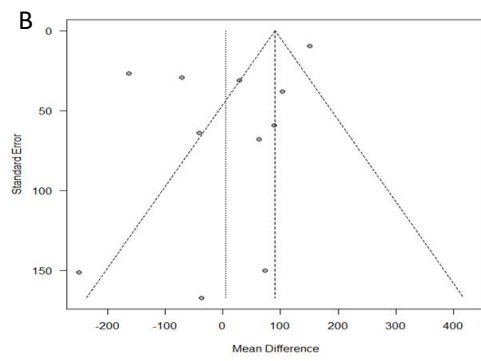
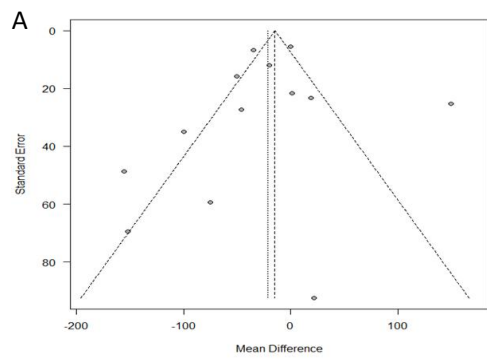


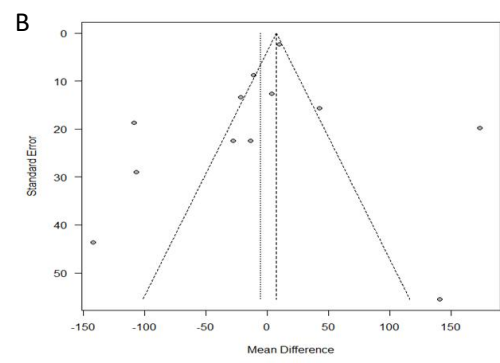
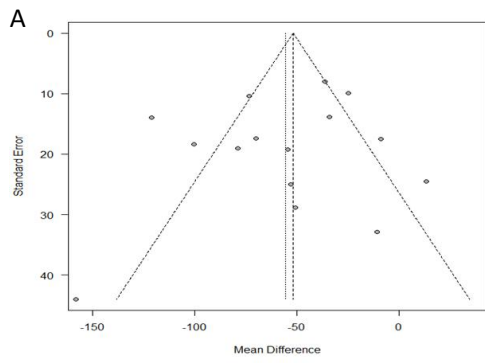
**Supplemental Figure 1 Funnel plot for frequency of CD grade 3/4 complications.** A Funnel plot for frequency of CD grade 3/4 complications (2010-2016); B: Funnel plot for frequency of CD grade 3/4 complications (2017-2020).



**Supplemental Figure 2 Funnel plot for intraoperative conversion rate. A:** Funnel plot for intraoperative conversion rate (2010-2016); **B:** Funnel plot for intraoperative conversion rate (2017-2020).



**Supplemental Figure 3 Funnel plot for intraoperative blood loss.** A: Funnel plot for intraoperative blood loss (2010-2016); B: Funnel plot for intraoperative blood loss (2017-2020).



**Supplemental Figure 4 Funnel plot for operation time.** A: Funnel plot for operation time (2010-2016); B: Funnel plot for operation time (2017-2020).

Supplemental Table 1 Data extracted from the included studies

Ref.		Selection			Comparability		Outcome			Total score	
		1	2	3	4	5A	5B	6	7		8
Berber <i>et al</i> <sup>[17]</sup> , 2010	Case	+			+	+	+	+			5
Ji <i>et al</i> <sup>[18]</sup> , 2011	Case	+	+					+			3
Lai <i>et al</i> <sup>[19]</sup> , 2011	Cohort	+	+			+	+	+	+	+	7
Lai <i>et al</i> <sup>[20]</sup> , 2012	Cohort	+	+			+	+	+	+	+	7
Packiam <i>et al</i> <sup>[21]</sup> , 2012	Case	+	+	+	+	+	+	+	+	+	9
Troisi <i>et al</i> <sup>[9]</sup> , 2013	Case	+	+					+			3
Spampinato <i>et al</i> <sup>[22]</sup> , 2014	Case	+	+					+		+	4
Tranchart <i>et al</i> <sup>[23]</sup> , 2014	Case	+	+					+			3
Tsung <i>et al</i> <sup>[12]</sup> , 2014	Case	+	+	+	+	+	+	+	+	+	9
Wu <i>et al</i> <sup>[24]</sup> , 2014	Case	+	+	+				+			4
Yu <i>et al</i> <sup>[25]</sup> , 2014	Case	+	+	+	+	+	+	+	+	+	9
Croner <i>et al</i> <sup>[26]</sup> , 2016	Case	+	+					+			3
Kim <i>et al</i> <sup>[27]</sup> , 2016	Case	+	+	+	+			+			5
Lai <i>et al</i> <sup>[28]</sup> , 2016	Cohort	+	+	+				+		+	5
Lee <i>et al</i> <sup>[29]</sup> , 2016	Case	+	+			+		+			4
Montalti <i>et al</i> <sup>[30]</sup> , 2016	Case	+	+			+		+			4

1. Exposed cohort truly/somewhat representative, 2. Non-exposed cohort drawn from same community, 3. Ascertainment of exposure, 4. Outcome of interest not present at start, 5A. Cohorts controlled for age and sex, 5B. Cohorts controlled for other important factors, 6. Quality of outcome assessment, 7. Follow-up long enough for outcomes to occur, 8. Complete accounting for cohorts

Supplemental Table 2 Data extracted from the included studies

Ref.		Selection				Comparability		Outcome			Total score
		1	2	3	4	5A	5B	6	7	8	
Efanov <i>et al</i> <sup>[31]</sup> , 2017	Cohort	+	+	+	+	+		+	+	+	8
Magistri <i>et al</i> <sup>[32]</sup> , 2017	Case	+	+	+		+		+			5
Salloum <i>et al</i> <sup>[33]</sup> , 2017	Case	+	+	+	+	+		+			6
Fruscione <i>et al</i> <sup>[34]</sup> , 2018	Case	+	+	+	+	+		+			6
Marino <i>et al</i> <sup>[35]</sup> , 2018	Cohort			+				+			2
Hu <i>et al</i> <sup>[36]</sup> , 2019	Case	+	+	+		+		+			5
Lee <i>et al</i> <sup>[37]</sup> , 2019	Case	+	+			+		+			4
Lim <i>et al</i> <sup>[38]</sup> , 2019	Case	+	+			+		+			4
Wang <i>et al</i> <sup>[39]</sup> , 2019	Case	+	+	+	+	+		+	+	+	8
Chong <i>et al</i> <sup>[40]</sup> , 2020	Case	+	+	+	+	+	+	+	+	+	9
Mejia <i>et al</i> <sup>[41]</sup> , 2020	Case	+	+	+		+		+	+		6
Rahimli <i>et al</i> <sup>[42]</sup> , 2020	Case	+	+			+		+			4

1. Exposed cohort truly/somewhat representative, 2. Non-exposed cohort drawn from same community, 3. Ascertainment of exposure, 4. Outcome of interest not present at start, 5A. Cohorts controlled for age and sex, 5B. Cohorts controlled for other important factors, 6. Quality of outcome assessment, 7. Follow-up long enough for outcomes to occur, 8. Complete accounting for cohorts

Supplemental Table 3 Publication bias by egger's test

Supplemental figure	Intercept	<i>t</i> value	<i>P</i> value	Evidence of publication bias
1A	-1.391	2.539	0.029	Possible
1B	-0.788	1.963	0.078	Possible
2A	-0.521	0.623	0.547	No
2B <sup>1</sup>	-	-	-	-
3A	-8.912	-0.510	0.620	No
3B	145.831	-1.846	0.098	Possible
4A	-39.051	-0.645	0.530	No
4B	11.578	-0.620	0.549	No

<sup>1</sup>Unable to evaluate due to less number of the outcomes.