

Appendix 1 Search strategies of this study in different databases

Pubmed

Search step	Search terms
#1	("Phyllodes Tumor" [Mesh] OR "phyllode tumor*" [tiab])
#2	("Surgical Procedures, Operative" [Mesh] OR "surgical management" [tiab] OR "surgical excision" [tiab] OR "surgical margin*" OR "margin*" OR "margin*" [tiab] OR "margins assessment")
#3	("Recurrence" [Mesh] OR "recurrence*" [tiab] OR "Neoplasm Recurrence, Local" [Mesh] OR "relapse*" [tiab])
#4	#1 AND #2 AND #3

Medline

Search step	Search terms
#1	Phyllodes Tumor or phyllode tumor*
#2	Surgical Procedures or surgical management or surgical excision or margins assessment or surgical margin* or margin*
#3	Recurrence or recurrence* or Neoplasm Recurrence, Local or relapse*
#4	#1 AND #2 AND #3

Web of Science

Search step	Search terms
#1	TS= ("Phyllodes Tumor" OR "Phyllodes Tumors" OR "phyllodes tumor" OR "phyllode tumor")
#2	TS= ("surgical margin" OR "surgical margins" OR "margin" OR "margins" OR "Surgical Procedure" OR "surgical management" OR "margins assessment" OR "surgical excision" OR "surgical ablation")
#3	TS= ("Recurrence" OR "Neoplasm Recurrence" OR "relapse" OR "tumor recurrence")
#4	#1 AND #2 AND #3— (limits: Articles and all years)

EMBASE

Search step	Search terms
#1	('phyllodes tumor'/exp OR 'phyllodes tumor' OR 'phyllode tumor')
#2	('surgical margin'/exp OR 'surgical margin' OR 'surgery'/de OR 'surgical management' OR 'margin assessment' OR 'surgical ablation'/exp OR 'surgical excision')
#3	('recurrence risk'/exp OR 'recurrence' OR 'tumor recurrence'/exp OR 'relapse'/exp OR 'tumor recurrence'/exp)
#4	#1 AND #2 AND #3

Cochrane Library database

Search step	Search terms
#1	("Phyllodes Tumor" OR "Phyllodes Tumors" OR "phyllodes tumor" OR "phyllode tumor")
#2	("surgical margin" OR "surgical margins" OR "margin" OR "margins" OR "Surgical Procedure" OR "surgical management" OR "margins assessment" OR "surgical excision" OR "surgical ablation")
#3	("Recurrence" OR "Neoplasm Recurrence" OR "relapse" OR "tumor recurrence")
#4	#1 AND #2 AND #3

Table S1 Newcastle-Ottawa scale (modified for cohort studies) for assessment of quality of included studies

Study	Selection score	Comparability score	Outcome score	Total score
Mangi 1999	***		**	5
Chaney 2000	***	*	***	7
Kapiris 2001	**	*	***	6
Sotheran 2005	***		***	6
Tan 2005	****		***	7
Chen 2005	***	*	***	7
Abdalla 2006	***		**	5
Akin 2010	**		***	5
Jung 2010	***		**	5
Jang 2012	***		***	6
Tsang 2012	****		***	7
Kim 2013	***	*	***	7
Spitaleri 2013	****		***	7
Wei 2014	***		***	6
Onkendi 2014	***		**	5
Yom 2015	***	*	***	7
Bellezza 2016	***		**	5
Borhani-Khomani 2016	***	*	***	7
Moutte 2016	***		***	6
Ruvalcaba-Limón 2016	***		**	5
Moo 2017	***		***	6
Rodrigues 2017	***	*	***	7
Tremblay-LeMay 2017	***		***	6
Chng 2018	***		**	5
Choi 2018	****		**	6
Sevinc 2018	***		**	5
Mitus 2019	***		***	6
Zhou 2018	***		***	6
Gulben 2019	***		***	6
Li 2019	***		***	6
Wen 2020	***		**	5
Genco 2021	***		**	5
Lim 2021	***		***	6
Rosenberger 2021	***	*	***	7

The asterisk (*) denotes the fulfilment of each criterion according to the Newcastle-Ottawa scale.

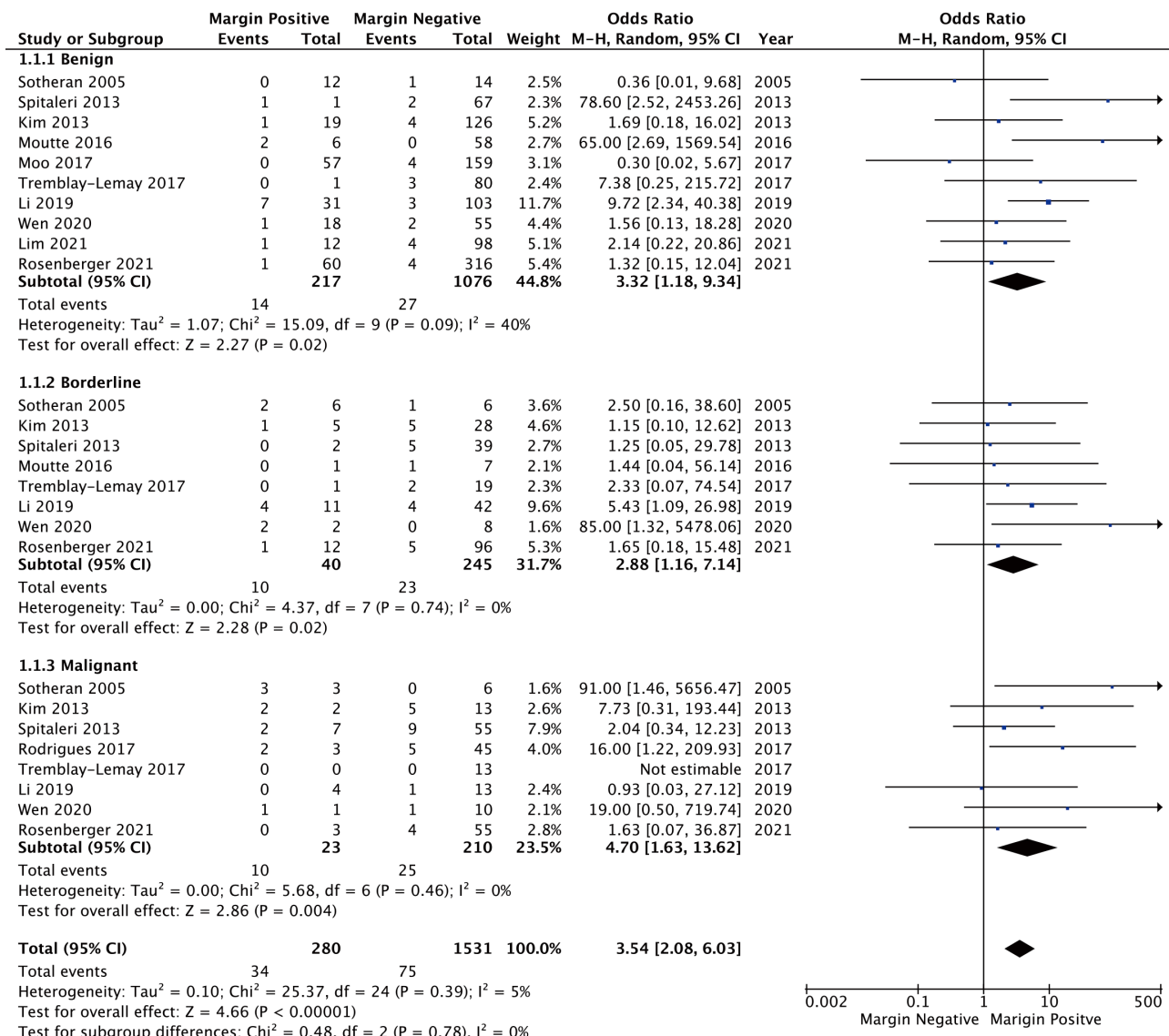


Figure S1 Forest plot showing the pooled odds ratios of local recurrence by surgical margin (positive *vs.* negative) stratified by the phyllodes tumor grade.

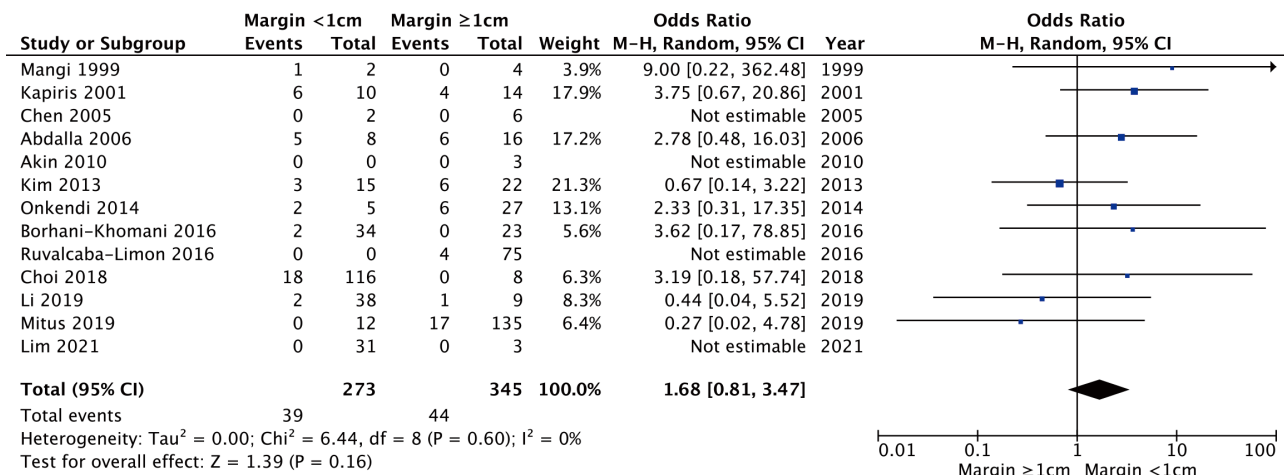


Figure S2 Forest plot showing the pooled odds ratios of local recurrence by surgical margin (margin <1 cm *vs.* margin ≥ 1 cm) stratified by the phyllodes tumor grade.

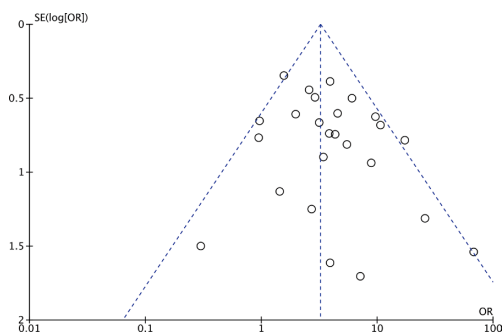


Figure S3 Forest plot showing the pooled odds ratios of local recurrence by surgical margin (margin <1 cm *vs.* margin ≥ 1 cm) in borderline or malignant phyllodes tumor.

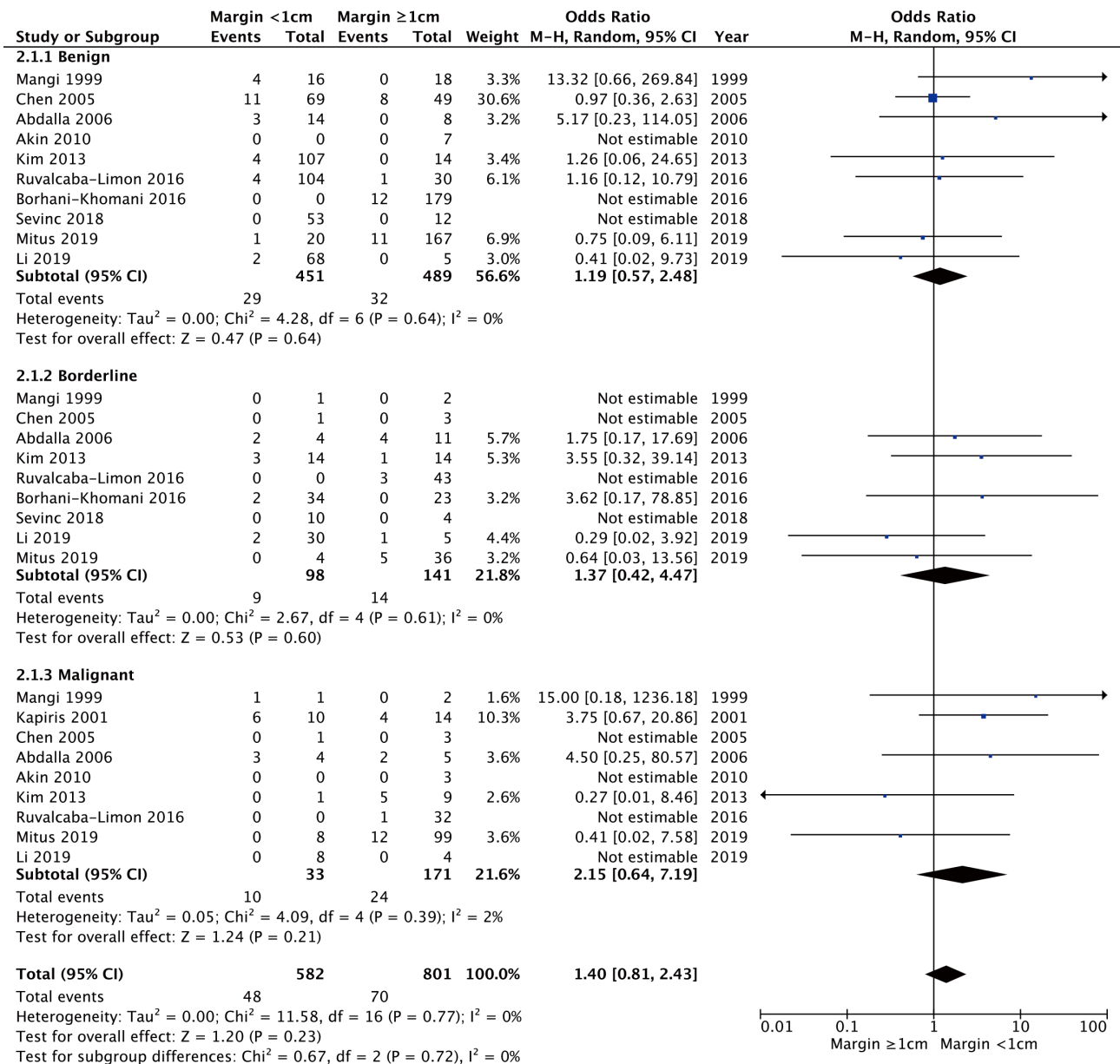


Figure S4 Funnel plot to assess the publication bias of the included studies in group of surgical margins (positive *vs.* negative).

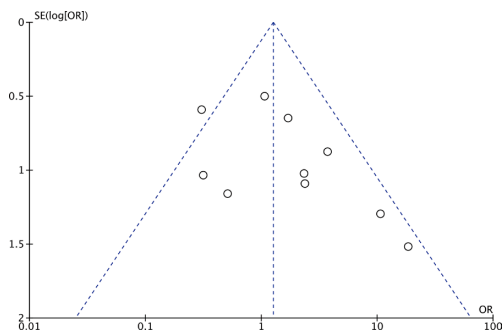


Figure S5 Funnel plot to assess the publication bias of the included studies in group of surgical margins (margin <1 cm *vs.* margin ≥1 cm).