

# Effect of ocular massage on patients after glaucoma filtering surgery: a Meta-analysis

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Received: 2021-05-25 Accepted: 2022-02-14

## Abstract

• **AIM:** To analyze the effect of ocular massage on patients after glaucoma filtering surgery.

• **METHODS:** Databases including the China National Knowledge Infrastructure (CNKI), VIP Information, WanFang and Chinese Biomedical Literature (CBM) were electronically searched for all randomized controlled trials (RCTs) about comparing the intraocular pressure (IOP), forming efficiency of functional filtering blebs and success rate of filtering surgery between patients with and without ocular massage after receiving filtering surgery. Two reviewers independently screened literature according to the inclusion and exclusion criteria, and evaluated the included studies. Then, Meta-analysis was performed using RevMan5.3 software.

• **RESULTS:** Totally 20 eligible studies involving 1757 eyes of 1 750 individuals were included to investigate the effect of ocular massage on patients after glaucoma filtering surgery. Ten of the studies were related with IOP. The results of Meta-analysis showed that IOP was better controlled in patients with ocular massage in the postoperative 2wk, 1mo and 3mo [WMD=-0.96, 95%CI (-1.83, -0.09),  $P<0.05$ ], [WMD=-2.68, 95%CI (-3.81, -1.55),  $P<0.05$ ] and [WMD=-3.98, 95%CI (-5.00, -2.96),  $P<0.05$ ], respectively). Fourteen of the studies were related with the forming efficiency of functional filtering blebs. The results of Meta-analysis showed that patients with ocular massage act better in forming functional blebs [RR=1.33, 95%CI (1.23, 1.44),  $P<0.05$ ]. Nine of the studies were related with the success rate of surgery. The results of Meta-analysis showed that patients with ocular massage had higher rate of surgery success [(RR=1.41, 95%CI (1.28, 1.55),  $P<0.05$ )].

• **CONCLUSION:** Ocular massage can help patients after filtering surgery to control IOP more effectively and promote the formation of functional filtering blebs, so as to improve the success rate of surgery.

• **KEYWORDS:** ocular massage; trabeculectomy; glaucoma; Meta-analysis; functional filtering blebs; intraocular pressure

**DOI:**10.18240/ier.2022.01.08

**Citation:** Zhang L, Li XY, Wei X. Effect of ocular massage on patients after glaucoma filtering surgery: a Meta-analysis. *Int Eye Res* 2022;3(1):52-58

## INTRODUCTION

At present, trabeculectomy is the most commonly performed form of glaucoma filtering surgery. The main purpose of filtering surgery is to increase the outflow of aqueous humor and reduce intraocular pressure (IOP), to control the progress of glaucomatous optic nerve damage. In addition to the surgical technique itself, which is important for the success of the operation, postoperative nursing, particularly the formation and maintenance of the filtering blebs, is of great importance. Ocular massage is a common way to control IOP and help maintain filtering blebs after filtering surgery. It has many advantages, as it is simple and economical, and has good compliance among patients<sup>[1-7]</sup>. However, until now, there have been no systematic and comprehensive evaluations of this kind of therapy. The purpose of this study was to explore the effects of ocular massage on IOP control, bleb formation and the success rate of glaucoma filtering surgery.

## MATERIALS AND METHODS

**Inclusion and Exclusion Criteria** Inclusion criteria: 1) Distinct diagnosis of glaucoma; no limitation of subtypes, including open angle glaucoma, angle-closure glaucoma, normal IOP glaucoma; 2) All patients underwent glaucoma filtering surgery, including trabeculectomy and others; 3) The outcomes include IOP or bleb formation or success rate of surgery; 4) Randomized controlled clinical studies only.

Exclusion criteria: 1) Reviews, meeting reviews, comments and other non-treatise articles; 2) The full text of the literature is unavailable or unpublished literature; 3) Repeatedly published literature, multiple articles published by the same

This article is based on a study first reported in the *Guoji Yanke Zazhi (Int Eye Sci)* 2021;21(8):1319-1325.

research group; 4) Articles using different ocular massage methods as intervention measurements.

**Literature Retrieval Strategy** Databases including the China National Knowledge Infrastructure (CNKI), VIP Information, WanFang and Chinese Biomedical Literature (CBM) databases were electronically searched. Since the relevant literature retrieved in the foreign language database is very few and does not meet the inclusion criteria, this study did not include any foreign language literature.

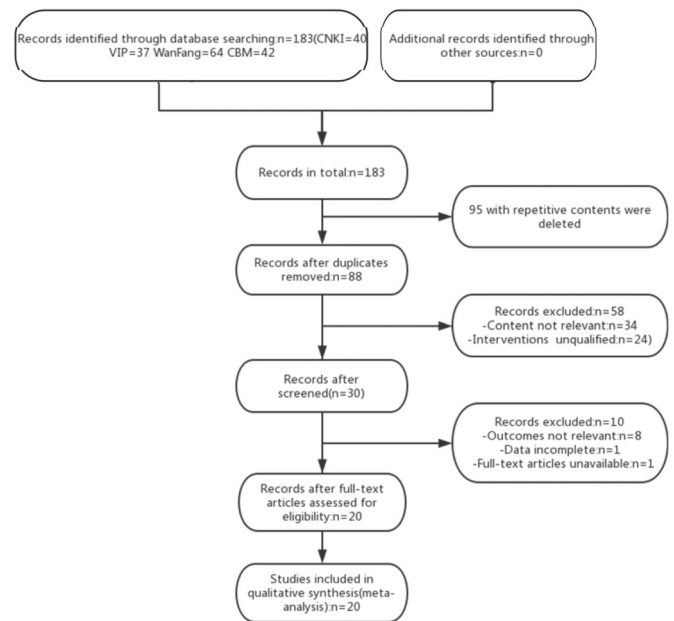
**Selection and Data Extraction** Two assessors read the full text independently and select the literature according to the inclusion and exclusion criteria, then extract the data by using Excel software to establish the information extract table, and extract the following contents from the included literature: name of the first author, year of publication, type of study, time of follow-up, sample size, subjects, outcome indicators and judgment criteria, and divergences will be solved through discussion or with the assistance of a third evaluator.

**Bias Risk Assessment** Bias risk assessment for articles included Cochrane system assessor's manual<sup>[8]</sup> will be used to evaluate the bias risk of randomized controlled trials by two assessors. The following 7 aspects of the literature will be evaluated: formation of the random sequence; assignment concealment; blind method of patients and researchers; blind method of outcome measurement; integrity of result data (withdrawal/loss of interview); selective report of study results; other sources of bias.

**Statistical Treatment** The Meta-analysis was performed using RevMan5.3 software. For quantitative data, weighted mean deviation (WMD) and the 95%CI would be used as effect sizes. For count data, risk ratio (RR) and the 95%CI was used as effect sizes. Chi-square test was used to analyze the heterogeneity of the study (the test level was set as  $\alpha=0.1$ ), and the heterogeneity is quantitatively determined combined with the value of  $I^2$  (a value used to evaluate the heterogeneity). If there was no statistical heterogeneity ( $P \geq 0.10$  and  $I^2 \leq 50\%$ ) among the results of each study, the fixed effect model would be used. If there was statistical heterogeneity ( $P < 0.10$  or  $I^2 > 50\%$ ) among the results of each study, the reasons for the heterogeneity would be analyzed. When the heterogeneity couldn't be explained by clinical heterogeneity or methodological heterogeneity, random effect model would be used for Meta-analysis. Significant clinical heterogeneity would be treated with subgroup analysis or sensitivity analysis, or only with descriptive analysis.

## RESULTS

**Study Selection** One hundred eighty three articles were found initially with no publishing time limitation; they are all Chinese articles from the China National Knowledge Infrastructure (CNKI), VIP Information, WanFang and Chinese Biomedical



**Figure 1 Prisma flow diagram.**

Literature (CBM) databases. After layer-by-layer selection, 20 articles were finally included in the Meta-analysis. Further details on included studies are given in the Prisma flow diagram (Figure 1).

Among all the original articles included in this study, there are 10<sup>[1-3,9-15]</sup> whose outcome measures include IOP, 14<sup>[2-5,16-19,12,20-23]</sup> that included the efficiency of functional-bleb formation, and 9<sup>[1-5,16-19]</sup> that included the surgical success rate. Characteristics of the included literature are reported in the Table 1.

**Bias Risk Assessment for Articles** Bias risk was assessed according to the method recommended by the Cochrane collaborative network<sup>[8]</sup>. The baseline data in the 20 studies were comparable, but all had different levels of bias in the assignment of patients to their two study groups. All 20 studies mentioned the word “random”, four<sup>[1,3,9,14]</sup> of which cited “random numbers” and two<sup>[12,15]</sup> cited a “random lottery”. The rest of the articles did not describe their assignment method in detail. None of the studies reported the allocation scheme of concealment or the methods of blinding. All the studies reported the results completely, with no selective reporting of results. In the statistical process, two researchers assessed the quality of all the studies, after taking all the conditions above into consideration, and all 20 of these studies showed moderate risk of bias (Figures 2 and 3).

## Meta-analysis

**Effect of ocular massage on IOP of patients after glaucoma filtering surgery** Ten<sup>[1-3,9,12-15]</sup> studies compared the IOP of patients after glaucoma filtering surgery. Six of them<sup>[2-3,9,11,13,15]</sup> compared the means and standard deviations of IOP at 2wk after surgery (Figure 4), four<sup>[9-12]</sup> at 1mo (Figure 5) and six<sup>[1-2,9,13-15]</sup> at 3mo (Figure 6). The IOP means and standard deviations at these three times after surgery were examined

**Table 1 Characteristics of the included literature**

No.	Author	year	blinding	Time of follow-up	Number of eyes		Mean age <sup>a</sup>		Preoperative IOP <sup>b</sup>		Outcome index
					Experimental	Control	Experimental	Control	Experimental	Control	
1	Han M	2019	no	6mo	70	70	66.03±6.51	67.11±6.49	21.31±3.25	21.52±3.20	IOP; Bleb-formation efficiency
2	Mao CJ	2019	no	1mo	23	23	53.2±5.7	53.5±5.5	19.43±2.44	18.08±2.52	Bleb-formation efficiency
3	Rao XY	2019	no	3mo	50	50	50.62±3.82	50.82±3.82	24.62±2.10	24.66±2.10	IOP
4	Yang AM	2018	no	1mo	91	92	58.1±5.3	58.2±5.1	22.61±4.32	22.51±4.03	IOP; Bleb-formation efficiency
5	Peng JY	2018	no	6mo	36	36	59.1±5.2	58.7±5.5	24.1±3.5	23.8±3.0	IOP; Bleb-formation efficiency
6	Yu HJ	2018	no	3mo	44	44	No significant difference		23.15±8.12	23.52±7.23	IOP
7	Yin JB	2017	no	-	20	20	No significant difference		15.6±3.5	16.3±2.8	Bleb-formation efficiency
8	Li JH	2017	no	6mo	57	57	55.58±4.27	55.71±4.59	23.35±4.99	23.35±4.89	IOP
9	Zhao XF	2015	no	3mo	40	40	No significant difference		22.5±8.2	23.5±7.2	IOP
10	Pan SX	2013	no	6mo	18	14	61±5.4	63±6.8	15.5±3.6	16.2±2.8	IOP; Bleb-formation efficiency
11	Wang RH	2007	no	-	19	19	Not mentioned		-	-	Bleb-formation efficiency
12	Cui XY	2020	no	3mo	36	36	64.5±2.1	63.5±1.7	21.05±5.29	21.08±5.43	IOP
13	Li L	2019	no	6mo	89	89	59.40±8.10	51.2±6.8	59.40±8.10	32.79±3.58	IOP; Bleb-formation efficiency
14	Xie JB	2015	no	1a	40	38	No significant difference		-	-	IOP; Bleb-formation efficiency; Success rate of surgery
15	Li Y	2015	no	6mo	30	30	No significant difference		-	-	Bleb-formation efficiency; Success rate of surgery
16	Bao Tuhaersi	2014	no	-	35	35	No significant difference		-	-	Bleb-formation efficiency; Success rate of surgery
17	Pan LX	2013	no	1a	40	40	41±4.2	40±4.1	-	-	Bleb-formation efficiency; Success rate of surgery
18	Ren CL	2013	no	6mo	41	42	Not mentioned		-	-	Bleb-formation efficiency; Success rate of surgery
19	Wang S	2008	no	6mo	32	32	No significant difference		-	-	Bleb-formation efficiency; Success rate of surgery
20	Zong QF	2003	no	6mo	30	30	60.7±4.94	60.8±5.10	43.3±11.70	42.8±11.74	Bleb-formation efficiency; Success rate of surgery

Other than Cui XY (2020)<sup>[1]</sup>, whose standard for surgical success was IOP ≤18 mm Hg and formation of functional filtering blebs at the same time, the articles' standard for success was that IOP was controlled in the range of 10-21 mm Hg and functional filtering blebs were formed at the same time. <sup>a</sup>There were no significant differences in the mean ages between the experimental and control groups in any of the articles (with the caveat that two<sup>[17,23]</sup> studies did not record the mean ages of the two groups of patients). <sup>b</sup>In the studies that stated the preoperative IOP of the two groups of patients, there were no significant differences in IOP between the experimental and control groups.

using Meta-analysis. The heterogeneity among the studies was very high ( $I^2>50\%$ ,  $P<0.1$ ), indicating that all of them were heterogeneous with respect to each other, so randomized effect model analysis was applied. The results show that the IOP of the experimental group was lower than that of the control group. The differences in IOP between the experimental and control groups at 2wk, 1mo and 3mo postoperative were statistically significant [(WMD=-0.96, 95%CI (-1.83, -0.09),  $P<0.05$ ], [WMD=-2.68, 95%CI (-3.81, -1.55),  $P<0.05$ ] and [WMD=-3.98, 95%CI (-5.00, -2.96),  $P<0.05$ ].

**Effect of ocular massage on the formation of functional filtering blebs in patients after glaucoma filtering surgery**  
Fourteen of the studies<sup>[2-5,10,12,16-19,20-23]</sup> compared the formation rate of functional filtering blebs after 3-12mo of follow-up. Of those, 10<sup>[2-5,17-20,22-23]</sup> reported that the Kronteld method<sup>[24]</sup> was used as the evaluation standard for judging filtering blebs, while the other four<sup>[10,12,16,21]</sup> did not mention the method. The heterogeneity among the studies was relatively small ( $P=41\%$ ,

$P=0.05$ ), so a fixed effect model was applied. The results of the Meta-analysis (Figure 7) showed that there were significant differences in the rate of formation of filtering blebs between the two groups [ $RR=1.37$ , 95%CI (1.29, 1.46),  $P<0.05$ ]. The patients with ocular massage had a higher rate of bleb formation.

Further sensitivity analysis revealed that the studies by Li *et al*<sup>[2]</sup>, Wang *et al*<sup>[23]</sup> and Han *et al*<sup>[10]</sup> significantly impacted the heterogeneity of the study. After those three articles were excluded, meta-analysis was carried out again. It showed that the heterogeneity was very small ( $P=0\%$ ,  $P=0.98$ ). The results of the new fixed effect model analysis (Figure 8) showed that there were significant differences between the two groups in the formation rate of functional blebs [ $RR=1.33$ , 95%CI (1.23, 1.44),  $P<0.05$ ].

Taking the formation rate of functional filtering blebs as an analysis index, an inverted funnel chart (Figure 9) was made to evaluate the potential publication bias of the 14 articles



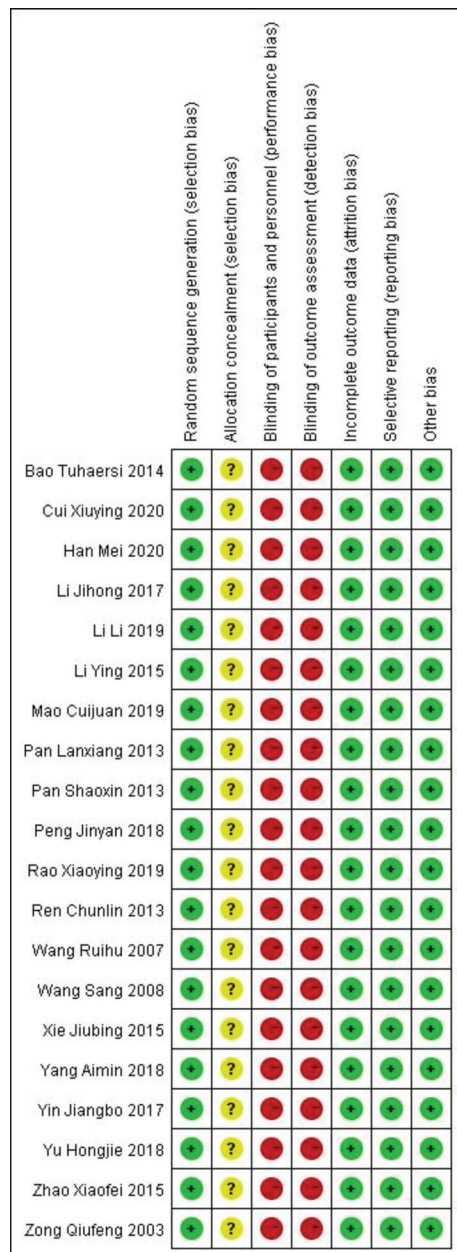


Figure 2 Figures of bias graph.

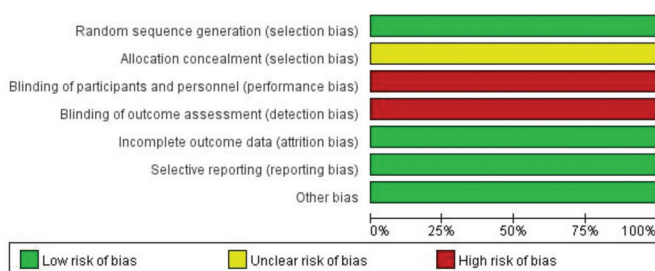


Figure 3 Figures of bias summary.

(minus the three just cited). It can be seen that there was an approximately symmetrical trend, with little publication bias.

**Effect of ocular massage on the success rate of glaucoma filtering surgery** Nine studies<sup>[1-5,16-19]</sup> compared the success rates at 3-12mo after surgery. Among those studies: six<sup>[3-5,17-19]</sup> defined “success” of the surgery as controlling IOP to within 10-21 mm Hg with functional blebs formed, using the Kronteld method

as the evaluation standard for filtering blebs; one study defined surgical success as IOP≤18 mm Hg with functional blebs formed, but did not specify the standard for filtering blebs; and two did not define surgical success. The heterogeneity among the nine studies was very small ( $P=24\%$ ,  $P=0.23$ ). A fixed effect model was applied for the combined analysis. The Meta-analysis (Figure 10) showed that there were significant differences between the two groups [RR=1.34, 95%CI (1.25, 1.44),  $P<0.05$ ].

Further sensitivity analysis showed that Li *et al*<sup>[2]</sup> had a significant impact on the heterogeneity of the study. After that article was excluded, meta-analysis was carried out again (Figure 11), and showed that the heterogeneity was very small ( $P=0\%$ ,  $P=0.97$ ). The results of the fixed effect analysis showed that there were significant differences between the two groups in the success rates of surgery (RR=1.41, 95%CI (1.28, 1.55),  $P<0.05$ ).

Taking the success rate of surgery as the analysis index, an inverted funnel chart was made to evaluate the potential publication bias (Figure 12). Due to the small number of studies, the distribution trend was not obvious, but the inverted funnel chart demonstrated a basically symmetrical trend, with little publication bias.

## DISCUSSION

The control of IOP and the maintenance of filtering blebs are the main problems in the care of patients after glaucoma filtering surgery. Analysis of the data included in this Meta-analysis showed that ocular massage had a significant beneficial effect on the control of IOP for patients at 2wk, 1mo and 3mo after trabeculectomy. Furthermore, massage improved the formation rate of functional blebs and the success rate of surgery<sup>[25]</sup>.

Possible mechanisms by which ocular massage improves the success rate of surgery are as follows: 1) Promoting more flow of aqueous humor into the subconjunctival through the scleral incision and breaking through the early external adhesion of the filtering blebs; 2) Causing dislocation and deformation of the scleral flap, releasing the suture of the scleral flap slowly, delaying the healing of the scleral incision and reducing the formation of the scleral flap scar in the early stage; 3) Using the impulse of aqueous humor to wash away the clots and exudates blocked in the filtering passage way; 4) Aqueous humor exerting an inhibitory effect on scar formation and fiber proliferation. Because of the isolation of the aqueous humor, the bulbar conjunctival tissue cannot adhere to the sclera during healing and repair<sup>[6,26]</sup>.

However, there is a risk of complications, especially when the massage technique is not applied correctly. There have been reports of corneal abrasion, low IOP, shallow anterior chamber, hyphema, iris incarceration, rupture of the filtering

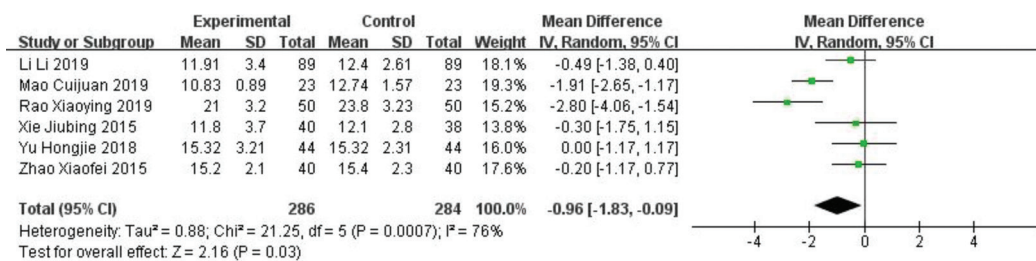


Figure 4 Forest plot for comparison in IOP change between study arms at 2wk.

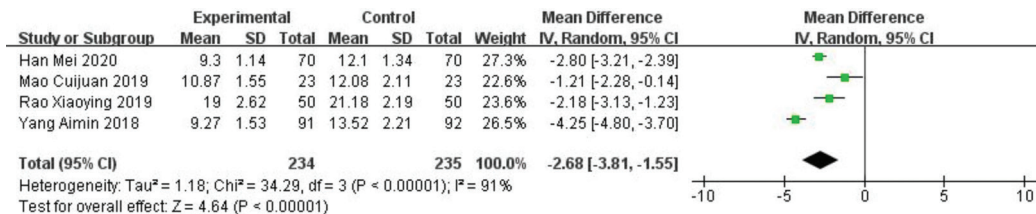


Figure 5 Forest plot for comparison in IOP change between study arms at 1mo.

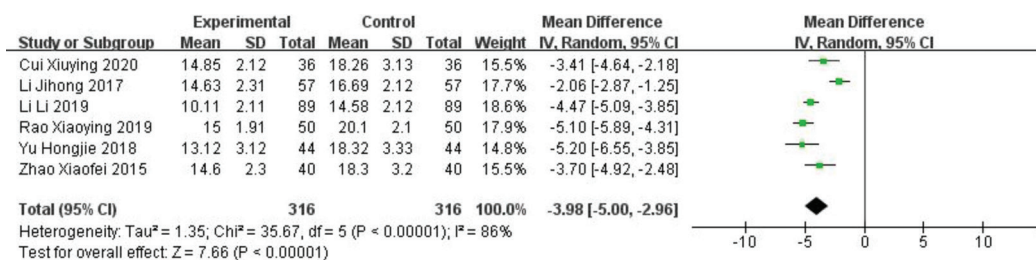


Figure 6 Forest plot for comparison in IOP change between study arms at 3mo.

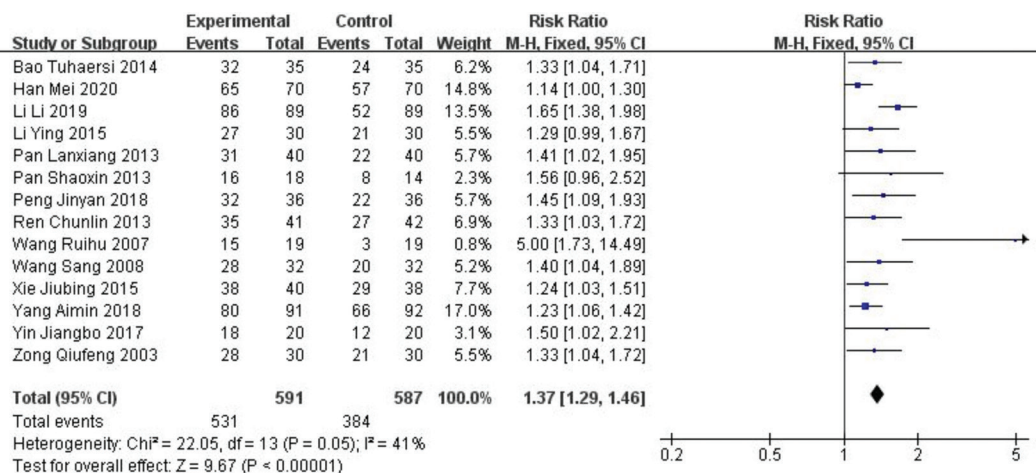


Figure 7 Forest plot for comparison in formation rate of functional filtering blebs between study arms after 3-12mo of follow-up.

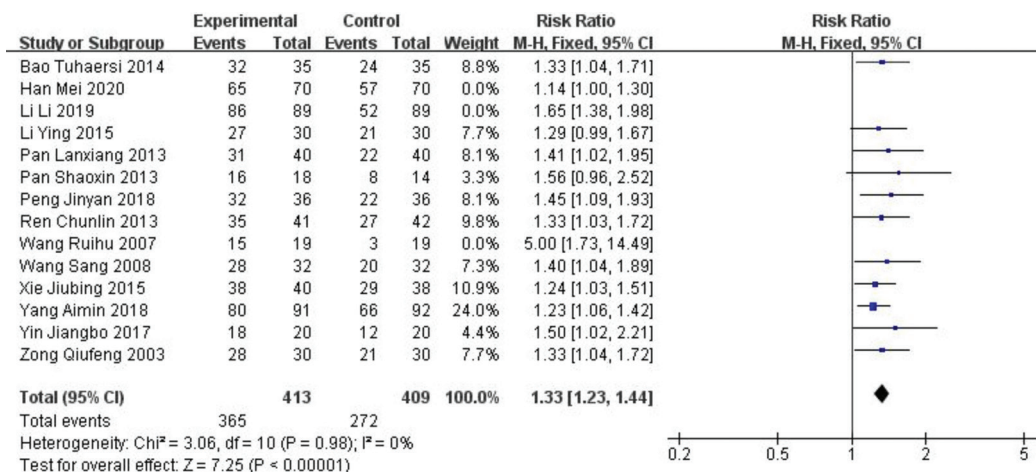


Figure 8 Forest plot for comparison in formation rate of functional filtering blebs between study arms after 2 studies removed.

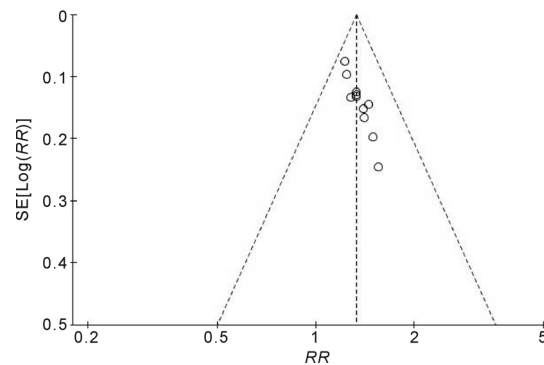


Figure 9 Inverted funnel chart taking the formation rate of functional filtering blebs as an analysis index.

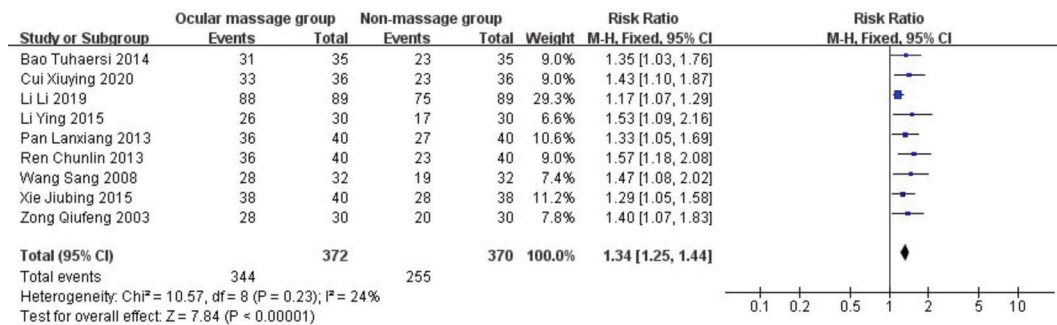


Figure 10 Forest plot for comparison in success rate of glaucoma filtering surgery between study arms.

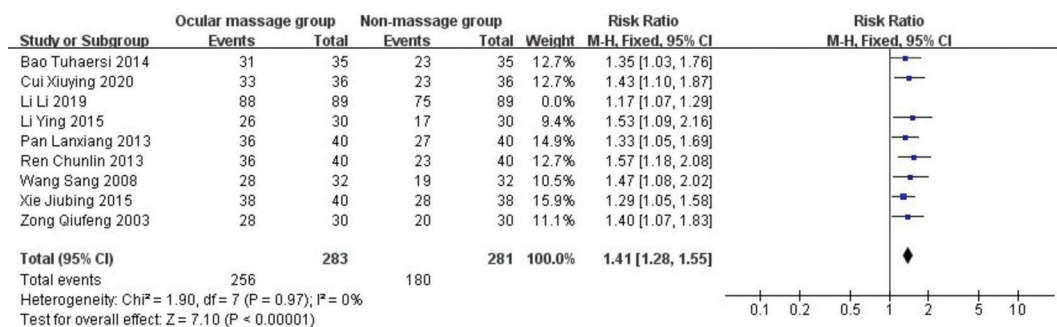


Figure 11 Forest plot for comparison in success rate of glaucoma filtering surgery between study arms after 1 study removed.

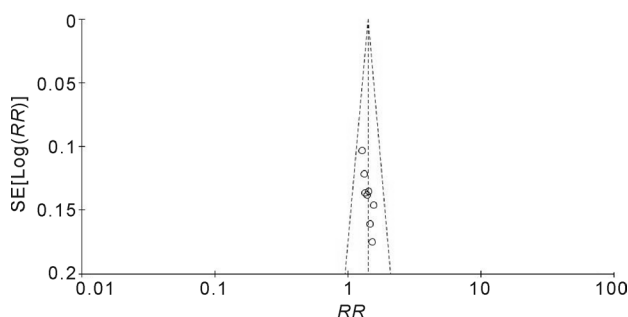


Figure 12 Inverted funnel chart taking the success rate of surgery as an analysis index.

bleb, subretinal hemorrhage and corneal dilation happening in patients using ocular massage following filtering surgery. Therefore, we should pay special attention to the technique used in the massage and to health education for patients<sup>[6,7,27]</sup>. There are still many limitations in this study, such as the low quality of the original literature, the narrow range of sources of the original literature, and the relatively high heterogeneity

between articles. Large, prospective, multi-center, randomized controlled clinical trials are needed to support our conclusion<sup>[28]</sup>.

## ACKNOWLEDGEMENTS

**Foundations:** Natural Science Foundation of China (No.82070954); The Applied Basic Research Programs of Science and Technology Commission Foundation of Sichuan Province (No.19YYJC0790); The Innovative Spark Grant of Sichuan University (No.2018SCUH0062); The clinical research incubation project of West China hospital, Sichuan University(2021HXFH057)

**Conflicts of Interest:** Zhang L, None; Li XY, None; Wei X, None.

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